Revised 6 June 2006

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

Friday March 10, 2006   1:00 PM – 6:00 PM

Denver, CO

1.00		MEETING CALLED TO ORDER	-	Nikolich	1	01:00 PM

Paul Nikolich called the meeting to order at 1:00 PM Members in attendance were:

Paul Nikolich	-	Chair, IEEE 802 LAN / MAN Standards Committee
Pat Thaler	-	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 (absent)
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
Mike Takefman	-	Chair, IEEE 802.17 – Resilient Packet Ring Working Group
Mike Lynch	-	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
Carl Stevenson	-	Chair, IEEE 802.22 – Wireless Regional Area Networks
Geoff Thompson	-	Member Emeritus (non-voting)

2.00	MI	APPROVE OR MODIFY AGENDA	-	Nikolich	9	01:01 PM

r04   **AGENDA - IEEE 802 LMSC EXECUTIVE COMMITTEE**
MEETING
Friday, March 10, 2006 - 1:00PM -6:00PM

Start Time

1.00		MEETING CALLED TO ORDER	-	Nikolich	1	01:00 PM
2.00	MI	APPROVE OR MODIFY AGENDA	-	Nikolich	9	01:01 PM
3.00			-			01:10 PM
3.01			-			01:10 PM
3.02			-			01:10 PM
4.00	II	TREASURER'S REPORT	-	Hawkins	10	01:10 PM
4.01	II	Announcements from the Chair	-	Nikolich	10	01:20 PM
		<mark>Category (* = consent agenda)</mark>	-			
			-			
5.00		IEEE Standards Board Items	-			01:30 PM
5.01	ME	802.20 PAR Extension	-	Upton	15	01:30 PM
5.02	ME	802.11k PAR maintenance	-	Kerry	1	01:45 PM
5.03	ME	802.11n PAR maintenance	-	Kerry	1	01:46 PM
5.04	ME	802.11p PAR maintenance	-	Kerry	1	01:47 PM
5.05	ME	802.11r PAR maintenance	-	Kerry	1	01:48 PM
5.06	ME	802.11s PAR maintenance	-	Kerry	1	01:49 PM
5.07	ME	802.19 PAR to NeSCom	-	Shelhammer	5	01:50 PM

5.08	ME	802.3an conditional approval to RevCom	-	Grow	5	01:55 PM
5.09	ME	802.3-2005/Cor1 for sponsor ballot	-	Grow	5	02:00 PM
5.10	ME	802.3as approval for sponsor ballot	-	Grow	3	02:05 PM
5.11	ME	802.16j PAR to NeSCom	-	Marks	5	02:08 PM
5.12	ME	802.16k PAR to NeSCom	-	Marks	5	02:13 PM
5.13	ME	802.16/Conformance04 conditional approval to RevCom	-	Marks	5	02:18 PM
5.14	ME	802.15.4REVb conditional approval to RevCom	-	Heile	5	02:23 PM
5.15	ME	Affirm withdrawal of 802.15.3a PAR	-	Heile	5	02:28 PM
5.16	ME	802.1ak conditional approval to sponsor ballot	-	Jeffree	5	02:33 PM
5.17	ME	802.1AE to RevCom	-	Jeffree	5	02:38 PM
5.18	ME	802.1AS PAR to NeSCom	-	Jeffree	5	02:43 PM
5.19	ME	1802.3-2001 reaffirmation	-	Grow	5	02:48 PM
6.00		Executive Committee Study Groups, Working Groups, TAGs	-			02:53 PM
6.01	MI	Affirmation of 802.1 WG Officers	-	Nikolich	2	02:53 PM
6.02	MI	Affirmation of 802.3 WG Officers	-	Nikolich	2	02:55 PM
6.03	MI	Affirmation of 802.11 WG Officers	-	Nikolich	2	02:57 PM
6.04	MI	Affirmation of 802.15 WG Officers	-	Nikolich	2	02:59 PM
6.05	MI	Affirmation of 802.16 WG Officers	-	Nikolich	2	03:01 PM
6.06	MI	Affirmation of 802.17 WG Officers	-	Nikolich	2	03:03 PM
6.07	MI	Affirmation of 802.18 TAG Officers	-	Nikolich	2	03:05 PM
6.08	MI	Affirmation of 802.19 TAG Officers	-	Nikolich	2	03:07 PM
6.09	MI	Affirmation of 802.20 WG Officers	-	Nikolich	2	03:09 PM
6.10	MI	Affirmation of 802.21 WG Officers	-	Nikolich	2	03:11 PM
6.11	MI	Affirmation of 802.22 WG Officers	-	Nikolich	2	03:13 PM
6.12	MI	Affirmation of LMSC Chair	-	Thaler	2	03:15 PM
6.13	MI	Affirmation of LMSC Appointed Officers	-	Nikolich	2	03:17 PM
6.14	MI	Extend Member Emeritus Position to 2008	-	Nikolich	2	03:19 PM
6.15	MI	Affirmation of Member Emeritus	-	Nikolich	2	03:21 PM
6.16	MI	Extension of 802.11 CBP study group	-	Kerry	1	03:23 PM
6.17	MI*	Extension of 802.19 coexistence study group	-	Shellhammer	0	03:24 PM
6.18	MI	Formation of 802.3 10G EPON study group	-	Grow	2	03:24 PM
6.19	MI*	Extension of 802.16 Mobile Multihop Relay study group	-	Marks	0	03:26 PM
6.20	MI	Formation of 802.1 Congestion Management study group	-	Jeffree	5	03:26 PM
6.21	MI*	Extension of 802.11 JTC1/SC6 study group	-	Kerry	0	03:31 PM
6.22	MI*	Extension of 802.22 Part 74 study group	-	Stevenson	0	03:31 PM
6.23			-			03:31 PM
7.00		Break	-		10	03:31 PM
8.00		IEEE-SA Items	-			03:41 PM
8.01	II	802 Task Force update	-	Kipness	5	03:41 PM
8.02			-			03:46 PM
8.03			-			03:46 PM
9.00		LMSC Liaisons & External Interface	-			03:46 PM
9.01	DT	Get IEEE 802 Program Update	-	Hawkins	10	03:46 PM
9.02	ME	ITU-R M.1450 Liaison	-	Lynch	5	03:56 PM
9.03	ME	L80216-06_004d3 Response to ITU-R Liaison	-	Lynch	5	04:01 PM
9.04	ME	L80216-06_003d2 Response to ITU-R Liaison	-	Lynch	5	04:06 PM
9.05			-			04:11 PM
10.00		LMSC Internal Business	-			04:11 PM
10.01	MI	802.11s press release	-	Kerry	5	04:11 PM
10.02	DT	Online education next steps	-	Thaler	5	04:16 PM
10.03	MI	Motion to adopt P&P revision titled 'WG Plenary'	-	Thaler	10	04:21 PM
10.04	MI	Motion to adopt P&P revision titled 'Editorial'	-	Thaler	10	04:31 PM
10.05	MI	Motion to ballot P&P revision titled 'Document Numbers'	-	Thaler	5	04:41 PM
10.06	DT	Rules for access to WG email reflectors	-	Jeffree	5	04:46 PM
10.07	MI	Motion to ballot P&P revision titled '802.11 issues raised'	-	Kerry	5	04:51 PM

10.08	MI	Motion to ballot P&P revision titled 'Editorial 2'	-	Thaler	5	04:56 PM
10.09	MI	Network upgrade report & next steps	-	Rigsbee	5	05:01 PM
10.10	MI	Attendance tracking report & next steps	-	Rigsbee	10	05:06 PM
10.11	MI	Future NNA venue report & next steps	-	Rigsbee	5	05:16 PM
10.12			-			05:21 PM
10.13			-			05:21 PM
10.14			-			05:21 PM
10.15			-			05:21 PM
10.16			-			05:21 PM
10.17			-			05:21 PM
10.18			-			05:21 PM
11.00		**Information Items**	-			05:21 PM
11.01	II	Open office hours feedback	-	Nikolich	5	05:21 PM
11.02	II	Feedback on Michael Lindsey's Tutorial	-	Nikolich	5	05:26 PM
11.03	II	JTC1 fast track ballot on 802.11i update	-	Nikolich	2	05:31 PM
11.04	II	802.1/17 Response to ITU Liaison	-	Takefman	2	05:33 PM
11.05	II	802.17 Update on P802.17b	-	Takefman	2	05:35 PM
11.06			-			05:37 PM
11.07	II	Standards Medallion Announcement	-	Marks	2	05:37 PM
11.08	II	Report on informal appeal resolution discussion	-	Nikolich	5	05:39 PM
11.09			-			05:44 PM
11.10			-			05:44 PM
11.11			-			05:44 PM
11.12			-			05:44 PM
		ADJOURN SEC MEETING	**-**	**Nikolich**		**06:00 PM**

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

Special Orders

Moved: To approve the agenda, as modified.
Moved: Lynch/Grow
Passes: 15/0/0

4.00	II	TREASURER'S REPORT	-	Hawkins	10	01:05 PM

IEEE Project 802
Estimated Statement of Operations
March 2006 Plenary Session
Denver, Co
As of March 5, 2006

Meeting Income		*Estimate*	*Budget*	*Variance*
Registrations		**1,369**	1,200	169
Registration income		**591,408**	**518,400**	73,008
Cancellation refunds		**(23,952)**	**(20,995)**	
Deadbeat collections		**0**	0	0
Bank interest		**60**	60	0
Other income		**0**	0	0
TOTAL Meeting Income		**567,516**	497,465	70,051

Meeting Expenses		*Estimate*	*Budget*	*Variance*
Audio Visual Rentals	3%	**18,000**	15,000	(3,000)
Audit	0%		8,000	8,000
Bank Charges	0%	**500**	500	0
Copying	1%	**4,500**	3,500	(1,000)
Credit Card Discount	3%	**16,559**	14,515	(2,044)
Equipment Expenses	12%	**70,000**	9,000	(61,000)
Get IEEE 802 Contribution	18%	**102,675**	90,000	(12,675)
Insurance	1%	**3,500**	3,500	0
Meeting Administration	15%	**83,171**	75,064	(8,107)
Misc Expenses	0%	**1,200**	500	(700)
Network	10%	**54,950**	65,000	10,050
Phone & Electrical	0%	**1,000**	2,100	1,100
Refreshments	22%	**125,000**	96,000	(29,000)
Shipping	2%	**10,000**	6,500	(3,500)
Social	14%	**78,107**	42,000	(36,107)
Supplies	0%	**500**	1,000	500
Other Discounts			0	0
TOTAL Meeting Expense	100%	**569,662**	432,179	(137,483)
Other Income/Expense		**79,659**		
NET Meeting Income/Expense		**77,513**	65,286	12,227

Analysis				
Refreshments per registration		**91**	80	(11)
Social per registration		**57**	35	(22)
Meeting Administration per registration		**61**	63	2
Networking per registration		**40**	54	14
Get IEEE 802 Contribution per registration		**75**	**75**	0
Surplus/Deficit per registration		**57**	54	2
Pre-registration rate		**0.680**	**0.680**	

Previous operating reserve		**270,677**	
NET Meeting Income/Expense		**77,513**	
Projected operating reserve		**348,190**	

IEEE Project 802
Estimated Statement of Operations
July 2006 Plenary Session
San Diego, CA
As of March 10, 2006

Meeting Income	Budget	Variance
Registrations	1,200	(1,200)
Registration income	**522,000**	(522,000)
Cancellation refunds	**(9,396)**	
Deadbeat collections	0	0
Bank interest	60	(60)
Other income	0	0
TOTAL Meeting Income	512,664	(512,664)

Meeting Expenses	Budget	Variance
Audio Visual Rentals	22,000	22,000
Audit	0	0
Bank Charges	500	500
Copying	3,750	3,750
Credit Card Discount	14,616	14,616
Equipment Expenses	11,000	11,000
Get IEEE 802 Contribution	90,000	90,000
Insurance	0	0
Meeting Administration	75,064	75,064
Misc Expenses	2,000	2,000
Network	60,000	60,000
Phone & Electrical	2,500	2,500
Refreshments	158,000	158,000
Shipping	4,500	4,500
Social	45,000	45,000
Supplies	800	800
Other Discounts	0	0
TOTAL Meeting Expense	489,730	489,730
Other Income/Expense		
NET Meeting Income/Expense	22,934	78,880

IEEE Project 802
Estimated Statement of Operations
November 2006 Plenary Session
Dallas, TX
As of March 11, 2006

Meeting Income	Budget	Variance
Registrations	1,200	(1,200)
Registration income	**522,000**	(522,000)
Cancellation refunds	**(9,396)**	
Deadbeat collections	0	0
Bank interest	60	(60)
Other income	0	0
TOTAL Meeting Income	512,664	(512,664)

Meeting Expenses	Budget	Variance
Audio Visual Rentals	18,000	18,000
Audit	0	0
Bank Charges	500	500
Copying	3,500	3,500
Credit Card Discount	14,616	14,616
Equipment Expenses	11,000	11,000
Get IEEE 802 Contribution	90,000	90,000
Insurance	0	0
Meeting Administration	75,064	75,064
Misc Expenses	2,000	2,000
Network	60,000	60,000
Phone & Electrical	2,500	2,500
Refreshments	120,500	120,500
Shipping	6,500	6,500
Social	45,000	45,000
Supplies	1,000	1,000
Other Discounts	0	0
TOTAL Meeting Expense	450,180	450,180
Other Income/Expense		
NET Meeting Income/Expense	62,484	(1,990)

Analysis		
Refreshments per registration	100	#DIV/0!
Social per registration	38	#DIV/0!
Meeting Administration per regi	63	#DIV/0!
Networking per registration	50	#DIV/0!
Get IEEE 802 Contribution per r	**75**	#DIV/0!
Surplus/Deficit per registration	52	#DIV/0!
Pre-registration rate	**0.650**	

Previous operating reserve

NET Meeting Income/Expense

Projected operating reserve

January 2007 Interim Budget Proposal (London)

	London Budget
Exchange Rate	
Meeting Income:	
Registrations	**1,300**
Pre-registration fee	**600**
Registration fee	**750**
Average Fee	**638**
Subtotal	**828,750**
Bank Interest	
Other	
TOTAL Income	**828,750**
Meeting Expenses:	
Audio Visual Rentals	**35,000**
Audit	
Bank Charges	
Copying	**10,000**
Credit Card Discounts	**24,034**
Equipment Purchase/Repair	
Get 802 Program Contribution	
Insurance	
Meeting Planners	
Total	**112,576**
Hotel Finder's fee	**75,000**
Misc Expenses	**7,000**
Tax Accounting Admin	**29,006**
Network	**65,652**
Phone & Electrical	**20,500**
Refreshments	**457,178**
Shipping	**20,000**
Social	**91,000**
Supplies	**2,000**
TOTAL Meeting Expense	**(948,947)**
Discounts	
Total Room Rebate 4,855 nights	**125,869**
Total Discounts	**125,869**
NET to Operating Reserve	**5,672**

Jan 2007 Interim Scenarios			
	Current Values:	Attend1000	Attend750
Changing Cells:			
Attendees	1,300	1,000	750
Result Cells:			
Income	828,750	637,500	478,125
Expense	(948,947)	(792,215)	(661,606)
Commission	125,869	104,891	78,668
Net	5,672	(49,825)	(104,813)

There was a question on the placement of the hotel rebate as income or discount. John will move it.

The budget for the January 2007 London session is in doubt. The session will just break even, if 1300 attendees show up and stay for the week. A projection for 1000 attendees shows a $50,000 deficit. 750 attendees result in a $105,000 deficit. Further discussion of the number of attendees is needed, including a much more accurate projection of the number of attendees. John indicated that 802 could absorb a loss as is projected for lower turnout.

| 4.01 | II | Announcements from the Chair | - | Nikolich | 10 | 01:22 PM |

Paul announced that the feedback on the network services has been extraordinary. He congratulated Steve Schroedl and the staff from Verilan on the remarkable improvement in the quality of the network.

| 5.00 | | **IEEE Standards Board Items** | - | | | |
| 5.01 | ME | 802.20 PAR Extension | - | Upton | 15 | 01:24 PM |

Motion:
Move the 802 Executive approve the IEEE 802.20 Working Group PAR extension request and form for forwarding to NesCom for its approval.

Move by: Jerry Upton, Chair of 802.20
Seconded by:
Results:

The Following Motion was approved the 802.20 Working Group at the January Interim with Quorum in attendance (66 of 79 Voters)
The 802.20 Working Group approves the request for a two year extension of the current PAR. The chair will forward the completed PAR Extension Form to the 802 Executive Committee for approval. If approved, the request will be sent to NesCom for its approval. Two years is the customarily granted extension; however a one year extension shall also be acceptable if that is deemed appropriate by the 802 EC and NesCom.
Vote on the motion: 51 Yes, 8 No, 1 Abstain. Motion passes with 86.4%.

Note: The Mover requests the Chair of 802 to explain the Executive Committee Vote required to pass the motion before calling the question. The mover also requests a Roll Call Vote if the hand vote fails.

Minor Editorial Changes were made after the submission to the Executive Committee. These Minor Editorial changes were approved by the Working Group. Changes can be seen by clicking on the embedded Word document below.

Procedural Motion: moved by Mark Klerer, second by Jose Puthenkulam to "Accept the changes to the PAR extension form".
 Results: 69 support, 31 opposed, 9 abstains Motion passes

Noted by the Chair of 802.20: There were no motions in March 2006 Plenary to Reconsider or Rescind the PAR Extension Motion approved by the Working Group in January 2006.

Section 5 of the PAR Extension form:

The Working Group has progressed its work through a Technology Confirmation Vote for a single Time Division Duplex and Frequency Division Duplex proposal and has started a Working Group Letter Ballot on an 800 plus page draft specification. The group needs to progress through Working Group and Sponsor Ballots for successful completion of the standard. During the past three years the group has completed and approved a significant ampount of pre-technology selection work. These documents developed and approved are the following: Channel Models, System Requirements for the Standard, Evaluation Criteria and Technology Selection Process Documents. The group agreed early on that taking the time for the appropriate pre-technology selection preparation would hopefully avoid a lengthly technology selection process and a potential deadlock on selection. The initial selection process was completed in two meeting sessions. However, the time required to obtain consensus and closure on the aforementioned documents was longer than anticipated. Though the group is committed to finish its Working Group Letter ballot as fast as possible, more than one recirculation ballot is anticipated for a draft of this size. The number of potential recirculations for Sponsor Ballot could be large. Therefore, the group does anticipate requiring more time beyond the end of 2006 to complete its work.

Motion:

Move the 802 Executive approve the original IEEE 802.20 Working Group PAR extension request and form without editorial changes for forwarding to NesCom for its approval.

Move by: Jerry Upton
Seconded by: Stuart Kerry
Results:

The Following Motion was approved the 802.20 Working Group at the January Interim with Quorum in attendance (66 of 79 Voters)

The 802.20 Working Group approves the request for a two year extension of the current PAR. The chair will forward the completed PAR Extension Form to the 802 Executive Committee for approval. If approved, the request will be sent to NesCom for its approval. Two years is the customarily granted extension; however a one year extension shall also be acceptable if that is deemed appropriate by the 802 EC and NesCom.

Vote on the motion: 51 Yes, 8 No, 1 Abstain. Motion passes with 86.4%.

Moved: To approve the IEEE 802.20 WG PAR extension request and form for forwarding to NeSCom for its approval.
Moved: Jerry Upton/Bob Heile

A question was asked about when the working group approved the PAR extension form. The working group approved only the editorial changes that were made after the working group chair completed the PAR extension form.

Another question was "did a completed form exist at the time the motion passed in January?" Jerry indicated that the form was not approved by the working group at that time. He indicated that the understanding was that the chair would forward the form.

A point was made that the motion to approve the editorial changes to the extension form did not pass by 75%. Jerry indicated that he ruled that the motion was procedural. An observation was made about the degree of opposition to this editorial change to the form and whether that indicated opposition to more than the editorial items.

A point was made that the content of this form is not trivial, as the chair had submitted more than one version of it.

A question was asked whether other documents were approved at a 50% level. Jerry responded that no technical documents had been approved at less than 75%. He indicated that the original motion was approved by 86% of the working group.

A question was asked if the working group had voted on the PAR extension form, according to required procedure, during the current session. Jerry replied that it had not.

In response to a number of the Executive Committee Members who stated the Working Group had to approval by a re-vote the completed PAR extension form, the Chair of 802.20 stated that the 802 P&P does not require this vote given the motion passed by the Working Group. The Chair of 802.20 stated he could not request a re-vote by the Working Group unless a Motion to "Reconsider" was approved or unless a Motion to "Rescind" the already approved Motion was made in Working Group and approved. In response to a statement from Roger Marks regarding an email sent by an 802 member concerning motions in the March Plenary on the PAR Extension request, the Chair of 802.20 stated he met with Ms. Lin and resolved her concerns and misunderstandings. The Chair of 802.20 stated that he ruled that the text in the PAR form were not technical. Others members of the Executive Committee disagreed. Chair of 802.20 disagreed with the statements from a number of Executive Committee members who stated the 802 P&P requires a vote of a PAR extension form at a Plenary. The Chair of 802.20 attempted to show the 802 P&P sections related to approving PARs to illustrate and explain his positions.

A point was made that we consider only PARs submitted by working groups and study groups, not by chairs.

Hand vote: 6/8/1, the motion fails

A request for a roll call vote was made.

Vote by Roll Call:

Pat Thaler	nay
Bob O'Hara	nay
Buzz Rigsbee	nay
John Hawkins	nay
Tony Jeffree	nay
Bob Grow	nay
Stuart Kerry	abstain
Bob Heile	aye
Roger Marks	nay
Mike Takefman	nay
Mike Lynch	aye
Steve Shellhammer	aye
Jerry Upton	aye
Ajay Rajkumar	aye
Carl Stevenson	aye

Fails: 6/8/1

 A question was asked as to whether a vote at an interim session where a quorum is present is acceptable. After querying the EC Paul determined that it would be appropriate for the 802.20 PAR extension request to be considered for approval at either a Working Group Interim Session with quorum or a Plenary Session.

5.02   ME   802.11k PAR maintenance   **-   Kerry   1   01:55 PM**

IEEE 802 LMSC RESOLUTION

Motion By: KERRY   Seconded By:

Move that the ExCom approves: That the working group chair is requested submit to NESCOM via the 802 ExecComm a PAR maintenance update to change item 6b to be "Amendment to Std. 802.11" in the Radio Resource Measurement of Wireless LANs (TGk) PAR

TG moved by: Joseph Kwak, Second: Paul Gray
TG Results: 11-0-3
WG Results: 107-0-2

Approve: Do Not Approve: Abstain:

Moved: that the ExCom approves: That the working group chair is requested submit to NESCOM via the 802 ExecComm a PAR maintenance update to change item 6b to be "Amendment to Std. 802.11" in the Radio Resource Measurement of Wireless LANs (TGk) PAR

Moved: Stuart Kerry/Roger Marks

Passes: 14/0/1

| 5.03 | ME | 802.11n PAR maintenance | - | Kerry | 1 | 01:56 PM |

IEEE 802 LMSC RESOLUTION

Motion By: KERRY   Seconded By:

- **Move, that the Excom approve; the working group chair is requested submit to NESCOM via the 802 ExecComm a PAR maintenance update to change item 6b to be "Amendment to Std. 802.11" in the High Throughput (TGn) PAR**
- TG Moved by: Bret Douglas   Second by: Tim Towell
- TG Results: 43-0-0 Approved
- WG Moved by: Bruce Kraemer on behalf of TGn
- WG Results: 82-0-2 Approved

Approve: Do Not Approve: Abstain:

Moved: that the Excom approve; the working group chair is requested submit to NESCOM via the 802 ExecComm a PAR maintenance update to change item 6b to be "Amendment to Std. 802.11" in the High Throughput (TGn) PAR

Moved: Stuart Kerry/Tony Jeffree

Passes: 15/0/0

| 5.04 | ME | 802.11p PAR maintenance | - | Kerry | 1 | 01:57 PM |

IEEE 802 LMSC RESOLUTION

Motion By: KERRY   Seconded By:

- Move the the Excom approve: That the working group chair is requested submit to NESCOM via the 802 ExecComm a PAR maintenance update to change item 6b to be "Amendment to Std. 802.11" in the Wireless Access In Vehicular Environments (TGp) PAR

  – TG Results: Approved by Unanimous consent (27 Voters)
  – WG Moved: Lee Armstrong on behalf of TGp
  – WG Results: 100-0-3 Approved
    Approve: Do Not Approve: Abstain:

Moved: the the Excom approve: That the working group chair is requested submit to NESCOM via the 802 ExecComm a PAR maintenance update to change item 6b to be "Amendment to Std. 802.11" in the Wireless Access In Vehicular Environments (TGp) PAR

Moved: Stuart Kerry/Carl Stevenson

Passes: 15/0/0

| 5.05 | ME | 802.11r PAR maintenance | - | Kerry | 1 | 01:58 PM |

IEEE 802 LMSC RESOLUTION

Motion By: KERRY   Seconded By:

- Moved, that the ExCom approve: That the working group chair is requested submit to NESCOM via the 802 ExecComm a PAR maintenance update to change item 6b to be "Amendment to Std. 802.11" in the Fast BSS Transition (TGr) PAR.

  – TG Moved: Bill Marshall Seconded: Michael Montemurro
  – TG Results: 12-0-2 Approved
  – WG Moved: Clint Chaplin, on behalf of TGr
  – WG Results: 98-0-0 Approved

Approve: Do Not Approve: Abstain:

Moved: that the ExCom approve: That the working group chair is requested submit to NESCOM via the 802 ExecComm a PAR maintenance update to change item 6b to be "Amendment to Std. 802.11" in the Fast BSS Transition (TGr) PAR.

Moved: Stuart Kerry/Carl Stevenson

Passes: 15/0/0

5.06	ME	802.11s PAR maintenance	-	Kerry	1	02:00 PM

IEEE 802 LMSC RESOLUTION

Motion By: KERRY   Seconded By:

- Move that the ExCom approve: That the working group chair is requested submit to NESCOM via the 802 ExecComm a PAR maintenance update to change item 6b to be "Amendment to Std. 802.11" in the ESS Mesh Networking (TGs) PAR

  - TG Moved: Guido Hiertz, Seconded: Steven Conner
  - TG results: 40-0-0 Approved
  - WG moved: Donald Eastlake on behalf of TGs
  - WG Results: 103-0-1 Approved

  Approve: Do Not Approve: Abstain:

Moved: that the ExCom approve: That the working group chair is requested submit to NESCOM via the 802 ExecComm a PAR maintenance update to change item 6b to be "Amendment to Std. 802.11" in the ESS Mesh Networking (TGs) PAR

Moved: Stuart Kerry/Tony Jeffree

Passes: 15/0/0

| 5.07 | ME | 802.19 PAR to NeSCom | | - | Shellhammer | 5 | 02:01 PM |

EC Summary of PAR Development

Date: 2006-03-09

Authors:

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

Study Group Meetings

- **The Study Group held four one-hour conference calls**
  - December 7
  - December 21
  - January 4
  - January 11

- **The Study Group met face-to-face at the January Wireless Interim Session**
  - January 17: 8:00 – 10:00 AM
  - January 17: 10:30 AM – 12:30 PM
  - January 17: 7:30 – 9:30 PM

- **Thirty one people attended at least one conference call meeting or one face-to-face meeting**

Vote on PAR

- **The Study Group Approved the PAR**
  - Yes   11
  - No   0
  - Abstain   0

- **The TAG approved the PAR using an electronic ballot**
  - Yes   14
  - No   0
  - Abstain   0
  - Did not vote   2

PAR Status

- **Scheduled to be vote on by the Executive Committee at the March Plenary on Friday March 10**

- **Placed on the March NesCom agenda. Scheduled to be voted on by NesCom on March 29 and the Standards Board on March 30**

Address Comments on PAR

- **The 802.16 WG sent comments on the PAR to the TAG chair on Tuesday March 7**

- **The TAG Chair invited members of the 802.16 WG to attend the Wednesday AM1 Study Group meeting**

- **Barry Lewis from 802.16 joined the Study Group Meeting**

- **The SG generated document 19-06-0012r0 to address the comments. The document was approved by the TAG and distributed to Roger Marks, Barry Lewis and the EC**

- **The SG approved a small revision to the PAR, document 19-05-0053r7, which was approved by the TAG, and distributed to Roger Marks, Barry Lewis and the EC**

Motion

- **Move to forward the 802.19 PAR to NesCom**
- **Move: Steve Shellhammer**
- **Second: Mike Lynch**
  - Yes 15
  - No 0
  - Abstain 0

Moved: to forward the 802.19 PAR to NesCom

Moved: Steve Shellhammer/Mike Lynch

Roger indicated that 802.16 appreciate the invitation to work on the resolution of their comments to the PAR. They are in favor of the PAR approval and wish it good luck.

Passes: 15/0/0

| 5.08 | ME | 802.3an conditional approval to RevCom | - | Grow | 5 | 02:12 PM |

P802.3an conditional to RevCom

The LMSC grants conditional approval per Clause 20 for P802.3an submission to RevCom.

Moved: R. Grow
Second: S. Kerry
Y: , N: , A:

Working Group motion #10 – Y: 72,N: 1, A: 11

D3.1 Recirculation – 90.5% return, 90.2% approve,
9.4% abstain, 16 disapprove voters, 95 comments (47 must be satisfied)

Cl **55**   *SC* **55.7.3.3**   *P* **160**   *L* **34**   # 39
KOEMAN, HENRIECUS   Individual

Comment Type   **TR**   *Comment Status* **R**

Step 6: The process to implement the integral from discrete data is unclear, in particular if the frequency intervals are not constant (i.e., a log sweep). The same comment applies to step 11.

SuggestedRemedy

Show equations that are based on the spreadsheet that was communicated with the cabling standards committees.

Response   *Response Status*   **U**

REJECT.

In favor of accepting proposed response to reject the comment:
Yes: 28
No: 3

Comment is rejected.

Editor's recommendations: I'm concerned that these type of refinements can lead to further comments on the recommended implementations. As defined, the integral clearly represents the mathematical operation.

Cl **55**   *SC* **55.4.2.5**   *P* **117**   *L* **17**   # 46
UNGERBOECK, GOTTFRIED   Individual

Comment Type   **ER**   *Comment Status* **R**

The entire section has gone through many changes without serious effort to improve the logical order of presenting the material. Generally, the section lacks clarity and conciseness. With more changes to be made, the time has come for a major overhaul of this section.

SuggestedRemedy

Rewrite the entire section PHY Control Function and elevate it to a higher heading level reflecting the importance of the section.

Response   *Response Status*   **U**

REJECT.

In favor of accepting proposed response
Yes: 25
No: 4
Abstain: 26

Motion passes.

See response to comment 164 on D3.0.

The suggested remedy does not provide sufficient guidance for changes to the draft. The comment suggests no error within the draft, only a style preference.

Cl **55**   *SC* **55.8.1**   *P* **164**   *L* **18**   # 77
GROW, ROBERT M   Individual

Comment Type   **ER**   *Comment Status* **R**

I do not believe we have properly responded to the pre-ballot MEC comment on this and following figures.

SuggestedRemedy

Why not reference Clause 40?

Response   *Response Status*   **U**

REJECT.

Historically we have duplicated the figures and text, because it makes the clause more readable.

I don't see any problem in leaving as is. It is always nice to have the pin outs in the document so a user doesn't have to find another document or clause.

Look at 802.3-2005, the figures are identical but still repeated between 100Base-T4 and 1000Base-T - see 23.7.1 and 40.8.1

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
SORT ORDER: Comment ID

Page 1 of 2

Comment ID # **77**   3/9/2006 4:50:22

CI **55**   *SC* **55.5.4.5**   *P* **141**   *L* **9**   *#* 88

GROW, ROBERT M   Individual

Comment Type   **TR**   *Comment Status* **R**

I do not accept an indication of mode of operation sufficient. With all the obfiscation in the way short reach was added to the draft, it is in many ways a different PHY type because the two reach options have very different system capabilities. With previous PHYs, the PHY type implied the cabling requirements and we have lost that ability in this draft for a link partner force a multi-PHY capable DTE to use the desired PHY type. In network operation, the cable plant and switches have traditionally been upgraded as necessary, and a switch can be configured from its end alone to assure that the link partner connecting to it is appropriate for the cable plant.

SuggestedRemedy

Add capability bits and announce them via AN.
Arbitration should not allow a short reach mode link to come up unless both partners agree that short reach mode is supported. For power conservation, short reach mode should have precedence over long reach.

Response   *Response Status* **U**

REJECT.

As written in the draft, the two modes differ only in the maximum length of the link that they can support. They are identical in every other way.

The cable type requirements for both are the same.

A 10GBASE-T PHY in short reach mode will link up succesfully with a 10GBASE-T PHY in normal mode without any changes to the draft provided the link is short.

The suggested remedy of not allowing a short reach mode link to come up unless both partners agree that short reach mode is supported is unnecessary and would rule out situations where link operation would otherwise be possible if we stuck with the operation as currently specified in the draft.

A PHY that is operating over a short link is required to reduce transmit power whether it is in short reach mode or not so the suggested remedy does not guarantee any increase in power conservation.

Two PHYs that support short reach mode as well as the long reach mode will have to operate in long reach mode if the cable length is greater than 30m.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
COMMENT STATUS: D/dispatched A/accepted R/rejected   RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
SORT ORDER: Comment ID

Page 2 of 2

Comment ID # **88**   3/9/2006 4:50:22

Moved: The LMSC grants conditional approval per Clause 20 for P802.3an submission to RevCom.

Moved: Bob Grow/Stuart Kerry

Passes: 14/0/0

| 5.09 | ME | 802.3-2005/Cor1 for sponsor ballot | - | Grow | 5 | 02:17 PM |

P802.3-2005/Cor1 to Sponsor Ballot

The LMSC grants approval for P802.3-2005/Cor1 Sponsor ballot.

Moved: R. Grow
Second: S. Kerry
Y: , N: , A:

Working Group motion #4 – Y: 76,N: 0, A: 4

D1.1 Recirculation – 54.5% return, 98.0% approve, 15.5% abstain, 2 disapprove voters, 5 comments unresolved (initial ballot), no comments on last recirc.

Moved: The LMSC grants approval for P802.3-2005/Cor1 Sponsor ballot.

Moved: Bob Grow/Stuart Kerry

Passes: 15/0/0

| 5.10 | ME | 802.3as approval for sponsor ballot | - | Grow | 3 | 02:20 PM |

P802.3as to Sponsor Ballot

The LMSC grants approval for P802.3as Sponsor ballot.

Moved: R. Grow
Second: S. Kerry
Y: , N: , A:

Working Group motion #4 – Y: 46,N: 0, A: 10

D1.1 Recirculation – 65.0% return, 92.6% approve, 26.9% abstain, 7 disapprove voters, 16 comments unresolved (all ballots), no comments on last recirc.

Moved: The LMSC grants approval for P802.3as Sponsor ballot.

Moved: Bob Grow/Stuart Kerry

Passes: 14/0/0

| 5.11 | ME | 802.16j PAR to NeSCom | | - | Marks | 5 | 02:26 PM |

Session #42 802.16mmr Closing Report – 2006/03/09

IEEE 802.16 Presentation Submission Template (Rev. 8.3)

Document Number:

    IEEE: 802.16mmr-06/009

Date Submitted:

    2006-03-09

Source:

Mitsuo Nohara	Voice:	+81 3 6678 3599
MMR-SG Chair, KDDI Corp.	Fax:	+81 3 6678 0219
3-10-10, Iidabashi, Chiyoda-ku, Tokyo 102-8460 Japan	E-mail:	mi-nohara@kddi.com

Venue:

    IEEE 802.16 Session #42, Denver, Colorado USA

Base Document:

    None

Purpose:

    SG Meeting organization

Session #42 802.16mmr
Closing Report – 03/09/06
4th Study Group Meeting on Mobile
Multi-hop Relay in IEEE 802.16

Chair: Mitsuo Nohara

Thu. 09 Mar., 2006

Capitol 4, Hyatt Regency Denver @CCC

Denver, CO USA

Scope of Proposed Relay Project

- **Develop Proposed Relay mode for fixed / mobile terminal**

  - **PHY: Enhance normal frame structure**

  - **MAC: Add new protocols for the Relay networking**
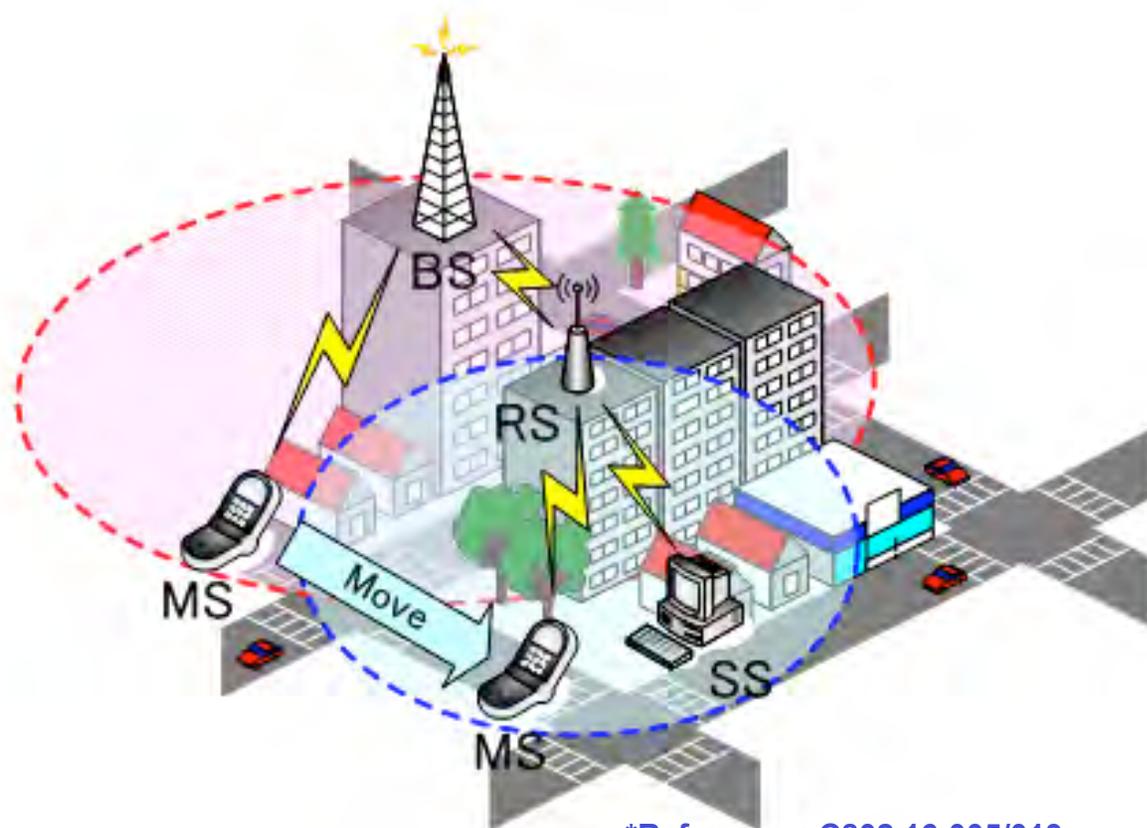
*Reference : C802.16-005/013

Objectives of this 4th SG Meeting

- **Tutorial Session, Monday Evening**

  – **To hold the IEEE802 Tutorial Session**

- **SG Session, Wednesday**

  – **To resolve Comments on 802.16j PAR and 5 Criteria**

  – **To submit the revised one to EC**

  – **Any other business**

Outcomes

Tutorial:

- **Held 802.16 Mobile Multihop Relay Tutorial, gained about 300 participants.**

SG Session:

- **Reviewed and replied to 7 Comments to P802.16j PAR and 5C**

- **Revised the PAR and resubmitted to EC**

- **DJ Presented the 802.1D Bridge**

- **Preliminary planned the 1st TG session and topics to be covered by a call for contributions to be issued in advance to the 1st TG.**

Tutorial Agenda

Title: 802.16 Mobile Multihop Relay
Time and Date: 18:30-20:00, Monday, 6 March, 2006
Place: Continental D, Hyatt Regency Denver @CCC

Presentations:
1. Opening Remarks   Roger B. Marks
2. General Overview   Mitsuo Nohara
3. Economical Feasibility and Serviceability
                                                    Jose Puthenkulam
4. Technical Study and Feasibility
                                                    Mike Hart

Enjoyed?

Motion to WG at the Opening Plenary

- **Motion : To delegate to the Mobile Multihop Relay Study Group the authority and responsibility to respond to comments received on the proposed 802.16j PAR, preparing a suitable response and ensuring its timely submittal to the 802 EC by 5 pm on Wednesday**
  - Motion : M. Nohara, Second : M. Hart
  - Result: Passed with unanimous voice vote

Comment Resolution on 802.16j PAR & 5 Criteria

Major Changes

4. Title of document: "Multihop Relay Specification"

14. Purpose:
"To enhance coverage, throughput and system capacity of 802.16 networks by specifying 802.16 multihop relay capabilities and functionalities of interoperable relay stations and base stations"

21. Additional Notes:
"Control functions may be centralized at the base station or distributed among the relay stations with central coordination from the base station."

See: IEEE802.16mmr-06/002r1
             IEEE802.16mmr-06/007r1

Motion to SG

- **Motion : To** **approve the comment resolutions in document IEEE 802.16mmr-06/007r1 and submit the revised 802.16j PAR and 5 Criteria to the 802 EC by 5 pm on Wednesday 8 March, 2006.**

    - **Motion : Ariel Sharon   , Second :   Wen Tong**
    - **(Voting): passed, 32/0/0**

Motion to WG

- **Motion : To** forward the P802.16j PAR and 5 Criteria in IEEE 802.16mmr-06/002r1 to the 802 EC for approval.

    – Motion : Mitsuo Nohara, Second : Roger Peterson
    – (Voting): Passed 82/0/0

Motion to SG

- **Motion : To empower study group chair to prepare call for contributions on the TG tasks, technical requirements, evaluation methodology, procedures, schedule, usage scenarios, and terminology, closed by 1 May, 2006. Note this power will be automatically transferred to new task group chair once assigned by the due date.**

  - **Motion : Sean Cai, Second : JaeWeon Cho**
  - **(Voting)   passed, 33/0/0**

Motion to SG

- **Motion : To empower study group chair to ask the WG for extending MMR SG to next plenary at WG Plenary.**

  - **Motion : Kerstin Johnsson, Second : Mike Hart**
  - **(Voting): 38/0/0**

Motion to WG

- **Motion : To renew the Mobile Multihop Relay Study Group through the July 2006 IEEE 802 Plenary Session.**

  - **Motion : Mitsuo Nohara, Second : Sean Cai**
  - **(Voting): passed with unanimous consent**

(hope to) See you in Tel Aviv!
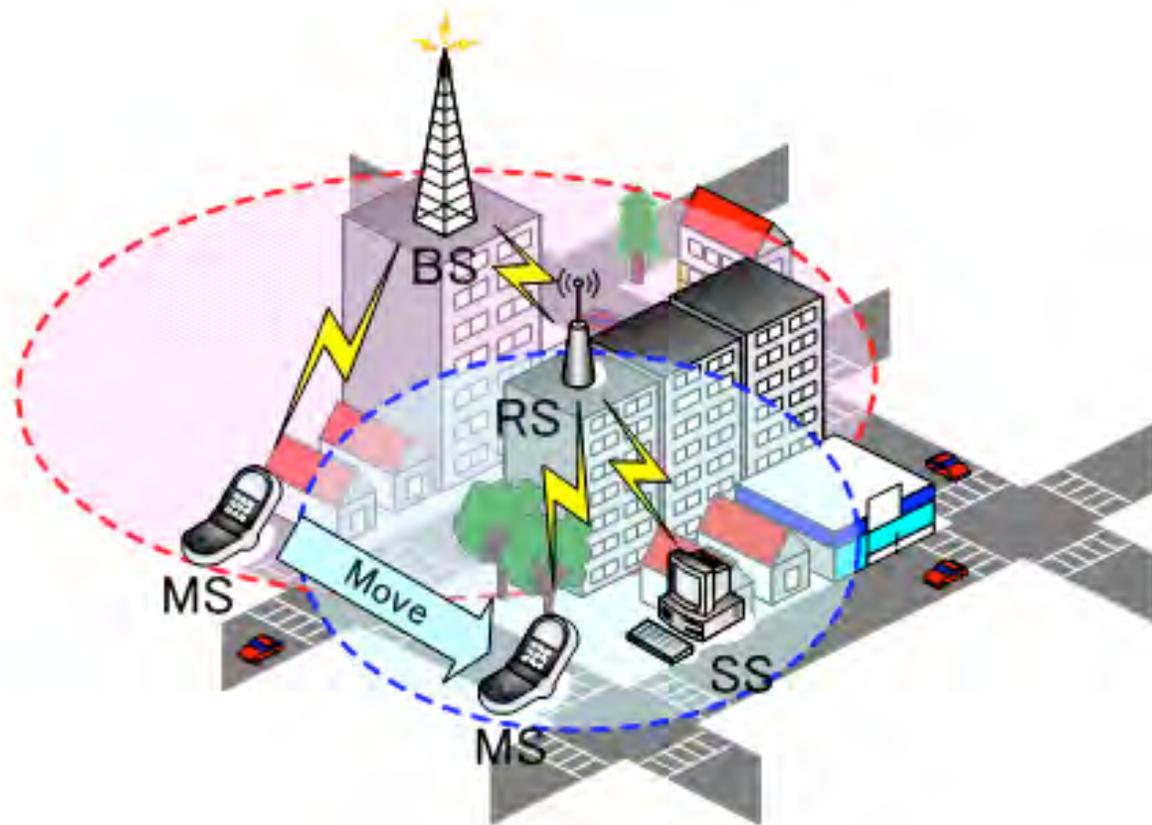
You are about to submit this form to the NesCom Administrator. Please review the information for accuracy and print a copy for your records.

*** If you need to make any changes, please go back to the previous page. ***

1. ASSIGNED PROJECT NUMBER: 802.16j

2. SPONSOR DATE OF REQUEST: 7-Feb-2006

3. TYPE OF DOCUMENT: Standard

4. TITLE OF DOCUMENT: Amendment to IEEE Standard for Local and Metropolitan Area Networks – Part 16: Air Interface for Fixed and Mobile Broadband Wireless Access Systems ~~Physical and Medium Access Control Layers for Mobile~~ Multihop Relay <u>Specification</u>

5. LIFE CYCLE: Full-Use

6. TYPE OF PROJECT: Amendment 802.16

    Modified PAR?
    No

7. WORKING GROUP INFORMATION

    Name of Working Group: IEEE 802.16 Working Group on Broadband Wireless Access
    Approximate Number of Expected Working Group Members: 300

8. CONTACT INFO FOR WORKING GROUP CHAIR

    Name of Working Group Chair: Roger Marks
    +1 303 497 7837

    r.b.marks@ieee.org

9. CONTACT INFO OF CO-CHAIR/OFFICIAL REPORTER

    Name of Co-Chair/Official Reporter:
    E-mail:

10. CONTACT INFO OF SPONSOR

    Sponsor: C/LM
    Name of Sponsor Chair: Paul Nikolich
    +1 857 205 0050
    +1 781 334 2255
    p.nikolich@ieee.org

    CO-SPONSOR INFORMATION (THIS IS BEING SPONSORED BY TWO SPONSORS):
    MTT/SCC
    Name of Cosponsor Chair: Richard Snyder

+1 973 492 1207 x23
+1 973 492 2471
r.snyder@ieee.org

11. TYPE OF SPONSOR BALLOT: Individual

Expected Date of Submission for Initial Sponsor Ballot: Mar-2007

12. PROJECTED COMPLETION DATE FOR SUBMITTAL TO REVCOM: Sep-2007

13. SCOPE: This document specifies OFDMA physical layer and medium access control layer enhancements to IEEE Std 802.16 for licensed bands to enable the operation of relay stations. Subscriber station specifications are not changed.

Completion of this document contingent upon another document? No

14. PURPOSE: ~~This amendment provides specifications for mobile multihop relay features, functions and~~ To enhance coverage , ~~interoperable relay stationsto enhance coverage,~~ throughput and system capacity of 802.16 ~~networks.~~

networks by specifying 802.16 multihop relay capabilities ad functionalities of interoperable relay stations and base stations.

15. REASON: This project aims to enable exploitation of such advantages by adding appropriate relay functionality to IEEE Std 802.16 through the proposed amendment." type="hidden"> The multihop relay is a promising solution to expand coverage and to enhance throughput and system capacity for IEEE 802.16 systems. It is expected that the complexity of relay stations will be considerably less than the complexity of legacy IEEE 802.16 base stations. The gains in coverage and throughput can be leveraged to reduce total deployment cost for a given system performance requirement and thereby improve the economic viability of IEEE 802.16 systems. Relay functionality enables rapid deployment and reduces the cost of system operation. These advantages will expand the market opportunity for broadband wireless access. This project aims to enable exploitation of such advantages by adding appropriate relay functionality to IEEE Std 802.16 through the proposed amendment.

16. INTELLECTUAL PROPERTY:

IEEE-SA Policy on Intellectual Property Presented: Yes 9-Jan-2006
Copyrights: No
Trademarks: No
Registration of Object: No

17. SIMILAR SCOPE: No

18. FUTURE ADOPTION: Yes

Int'l Organization: ITU
José Costa
+1 613 763 7574
+1 613 765 1225
j.costa@ieee.org

19. Health, Safety or Environmental Issues: No

Explanation:

20. SPONSOR INFORMATION:

    a. Is the scope of this project within the approved scope/definition of the Sponsor's Charter? Yes

    b. Sponsor's procedures accepted by AudCom: Yes

21. ADDITIONAL NOTES: Item 13. ~~The relay station is controlled by the base station.~~ Control functions may be centralized at the base station or distributed among the relay stations with central coordination from the base station.

I acknowledge having read and understood the IEEE Code of Ethics I agree to conduct myself in a manner which adheres to the IEEE Code of Ethics when engaged in official IEEE business.

The PAR Copyright Release and Signature Page must be submitted either by FAX to 732-875-0695 or as e-mail attachment in .pdf format to the NesCom Administrator before this PAR will be sent on for NesCom and Standards Board approval.

FIVE CRITERIA FOR IEEE 802.16 MOBILE MULTI-HOP RELAY PAR

IEEE P802.16mmr Five Criteria
CRITERIA FOR STANDARDS DEVELOPMENT (FIVE CRITERIA)

Broad Market Potential

A standards project authorized by IEEE 802 shall have a broad market potential. Specifically, it shall have the potential for:
a) Broad sets of applicability.
b) Multiple vendors and numerous users.
c) Balanced costs (LAN versus attached stations).

a) IEEE Std. 802.16 will compete with, and provide alternative services to, xDSL, Cable, T1 and fiber optic broadband technologies. It will also provide wireless access at a higher data rate compared with conventional cellular services. The amendment through relay stations will be applicable to the already existing IEEE Std 802.16 which itself already has a broad set of applicability as stated above, and through this amendment the applications of this standard will be further broadened due to the amendment enabling lower cost deployments. This is because the amendment will provide a cost effective way for multi-media traffic to considerably increase in range. In addition, this amendment will most likely improve throughput,
b) IEEE802.16's higher data rate and wide coverage for Wireless MAN, attract many commerce leaders. The approval of MMR (Mobile Multihop Relay)-SG by 77 members including various manufacturers and telecom operators, signifies the possibility of multiple vendors. Furthermore, during the first two meetings of the SG, forty-three contributions from more than fifteen organizations were received.
High density of base stations to enhance coverage in shadowed or underserved area is not a feasible solution, resulting in considerably higher deployment costs. The relay capabilities will be able to overcome this issue, and increase the possible number of users.
Consequently, given that the multi-hop relay technology meets at least part of the current expectations, it is likely that these same companies will support this enhancement of the existing standard.
The IEEE Std. 802.16 with relay stations may be used in products manufactured by existing and future vendors and support a wide range of network users including individual mobile subscribers and broadcast groups,
c) The support for relay stations enables extended coverage through their addition to existing or future networks, and the relay stations with the point-to-multipoint (PMP) mode can provide wireless relay function with simpler and more compact station configuration when compared to the base station, thus at lower cost. It is well known that it is possible to use cost effective relay stations to improve coverage, and probably increase throughput as an alternative to using more costly base stations. Thus, an MMR system is a more cost effective solution to accommodating many mobile subscribers, establishing wide area coverage and providing higher data rates.

Compatibility

IEEE 802 defines a family of standards. All standards shall be in conformance with the IEEE 802.1 Architecture, Management and Interworking documents as follows: 802.Overview and Architecture, 802.1D, 802.1Q and parts of 802.1f. If any variances in conformance emerge, they shall be thoroughly disclosed and reviewed with 802.

Each standard in the IEEE 802 family of standards shall include a definition of managed objects which are compatible with systems management standards.

The amendment will conform to the IEEE 802 family of standards as required.
IEEE802.16 recognizes that relay function provides potential to interfere with bridging, spanning tree and other IEEE802.1 bridging and routing conventions. IEEE802.16 will take special precaution, including close interactions with IEEE802.1 working group, to ensure continuing compatibility with IEEE802.1 family of architectural features.

Distinct Identity

Each IEEE 802 standard shall have a distinct identity. To achieve this, each authorized project shall be:
a) Substantially different from other IEEE 802 standards.
b) One unique solution per problem (not two solutions to a problem).
c) Easy for the document reader to select the relevant specification.

> a) *There is no other standard for defining an IEEE Std. 802.16 compatible relay station,*
> b) *The MMR extension to the standard will provide a unique solution to increase coverage areas along with a possible throughput enhancement in an easy to manage and cost effective manner,*
> c) *The project will produce an interoperable and distinguishable extension to the IEEE Std 802.16 so that users can easily distinguish the amendment from the original standard.*

Technical Feasibility

For a project to be authorized, it shall be able to show its technical feasibility. At a minimum, the proposed project shall show:
a) Demonstrated system feasibility.
b) Proven technology, reasonable testing.
c) Confidence in reliability
d) Coexistence of 802 wireless standards specifying devices for unlicensed operation

a) One purpose of some wireless relay or mesh systems such as IEEE 802.11 TGs, which is being developed, is to extend coverage areas. Furthermore, the performance of wireless relay systems has been examined and revealed by theoretical analyses and computer simulations. In addition, wireless networks employing MMR are already operational albeit using other physical layer technologies. Wireless ad-hoc networks have been

under development by the military for more than two decades. Consequently, the feasibility of potential improvements that are offered by the use of relaying has been clearly demonstrated,
b) MMR technology is an extension of the existing standard which is already a proven and tested technology. The fundamental concepts of MMR technology have been proven in analytical studies and simulations and also proven in operational systems. The application of MMR to IEEE802.16 while not a completely proven technology, is considered to have a high likelihood of success,
c) MMR technology leverages IEEE Std 802.16 technologies and signaling,
d) not applicable since the project is only for licensed operation.

Economic Feasibility

For a project to be authorized, it shall be able to show economic feasibility (so far as can reasonably be estimated), for its intended applications. At a minimum, the proposed project shall show:
a) Known cost factors, reliable data.
b) Reasonable cost for performance.
c) Consideration of installation costs.

a) *The economic viability of IEEE 802.16 systems has been analyzed within the industry and a number of development efforts are ongoing. The existence of these development efforts indicates that IEEE 802.16 systems are expected to have a cost that is consistent with reasonable business strategies. The proposed application of MMR will reduce overall system costs thereby enhancing the economic viability of IEEE 802.16 systems. The deployment costs of IEEE Std 802.16, such as radio and base-band architecture, are well known and the addition of a relay station class is a low risk extension,*

b) MMR technology provides a more cost effective solution to extending a service area than deploying more base stations because relay stations will be of lower cost than base stations due to their lesser complexity and they do not need the backhaul communication cabling cost for themselves,
c) Relay stations will be installed more easily than base stations due to their smaller size, lower power consumption and elimination of backhaul communication cable. Furthermore, antenna structures for relay stations are expected to be less costly than antenna structures for conventional base stations, and as they can incorporate intelligent algorithms such that once deployed they self-configure, the cost associated with planning a deployment of base stations and relay stations is significantly reduced compared to an all base stations deployment.

Moved: To forward the 802.16j PAR to NesCom.

Moved: Roger Marks/John Hawkins

Roger indicated that 802.16j intends to hold joint meetings on occasion with 802.15.5 and 802.11s.

Passes: 13/0/1

| 5.12 | ME | 802.16k PAR to NeSCom | - | Marks | 5 | 02:28 PM |

IEEE-SA STANDARDS BOARD

PROJECT AUTHORIZATION REQUEST (PAR) FORM - 2005

The submittal deadlines are available at http://standards.ieee.org/board/nes/index.html.
(See NesCom Convention - Item #14)

Prior to submitting your PAR, please review the NesCom Conventions.

1. ASSIGNED PROJECT NUMBER P | 802.16k | (Please leave blank if not available.)
(See NesCom Convention - Item #19)

2. SPONSOR DATE OF REQUEST Day: 17 ▼ Month: Feb ▼ Year: ~~2005~~

3. TYPE OF DOCUMENT(Please check one.)
- ⦿ **Standard for** {document stressing the verb "shall"}
- ○ **Recommended Practice for** {document stressing the verb "should"}
- ○ **Guide for** {document in which good practices are suggested, stressing the verb "may"}

4. TITLE OF DOCUMENT
(See NesCom Conventions - Item #5, Item #7)
Draft Standard for Local and Metropolitan Area Networks: Media Access Control (MAC) Bridges - Bridging of 802.16

5. LIFE CYCLE
- ⦿ **Full-Use**
- ○ **Trial-Use**

6. TYPE OF PROJECT
- ○ New document
- ○ Revision of an existing document (indicate number and year existing document was approved in box to the right):
- ⦿ Amendment to an existing document (indicate number and year existing document was approved in box to the right): | 802.1D~~-2004~~ |
  (####-YYYY)
- ○ Corrigendum to an existing document (indicate number and year existing document was approved in box to the right):

☐ Modified PAR (indicate PAR Number and Approval Date here: P | | Day: | | ▼ Month: | | ▼
Year: | | ▼)

Is this project in ballot now? ○ Yes   ⦿ No
State reason for modifying the PAR in Item #21.

7. WORKING GROUP INFORMATION:
Name of Working Group (WG) :

IEEE 802.16 Working Group on Broadband Wireless Access

Approximate Number of Expected Working Group Members: 300

8. CONTACT INFORMATION FOR WORKING GROUP CHAIR (must be an IEEE-SA member as well as an IEEE and/or Affiliate Member)
(See NesCom Convention Item #3, Item #4)

Name of Working Group Chair: First Name: Roger   Last Name:

Marks

Telephone: +1 303 497 7837   FAX: E-mail:

r.b.marks@ieee.org

9. CONTACT INFORMATION FOR CO-CHAIR/OFFICIAL REPORTER, Project Editor or Document Custodian if different from the Working Group Chair (must be an IEEE-SA member as well as an IEEE and/or Affiliate Member)
(See NesCom Convention Item #3)

Name of Co-Chair/Official Reporter (if different than Working Group Chair): First Name:

Last Name:

Telephone: FAX: E-mail:

10. CONTACT INFORMATION FOR SPONSORING SOCIETY OR STANDARDS COORDINATING COMMITTEE
(See NesCom Convention Item #1, Item #3)

Sponsoring Society and Committee: C/LM   (Please choose the correct acronym for your Sponsor Society/Technic
an acronym list, please click here.)

Sponsor Committee Chair: First Name: Paul   Last Name:

Nikolich

Telephone:	FAX:	E-mail:
+1 857 205 0050	+1 781 334 2255	p.nikolich@ieee.org

Standards Coordinator (Power Engineering Society Only):

Standards Coordinator: First Name: Last Name:

Telephone: FAX: E-mail:

IF THIS PROJECT IS BEING SPONSORED BY TWO SPONSORS, PLEASE COMPLETE THE INFORMATION BELOW

Sponsoring Society and Committee: MTT/SCC   (Please choose the correct acronym for your Sponsor Society/Technic
an acronym list, please click here.)

Sponsor Committee Chair: First Name: Richard   Last Name:

Snyder

Telephone:	FAX:	E-mail:
+1 973 492 1207 x23	+1 973 492 2471	r.snyder@ieee.org

Standards Coordinator (Power Engineering Society Only):

Standards Coordinator: First Name: Last Name:

Telephone: FAX: E-mail:

11. SPONSOR BALLOTING INFORMATION (Please choose one of the following):

⦿ Individual Balloting
○ Entity Balloting

○ Mixed Balloting (combination of Individual and Entity Balloting)

Expected Date of Submission for Initial Sponsor Ballot: Month: Nov ▼ Year: 2006 ▼

Please review the PAR form three months prior to submitting your draft for ballot to ensure that the title, scope, and purpose on the PAR form match the title, scope, and purpose of the draft. If they do not match, you will probably need to submit a modified PAR.

Additional communication and input from other organizations or other IEEE Standards Sponsors should be encouraged through participation in the working group or the invitation pool.

(See NesCom Conventions - Item #20)

---

12. PROJECTED COMPLETION DATE FOR SUBMITTAL TO REVCOM: Month: Mar ▼ Year: 2007 ▼

If this is a MODIFIED PAR and the completion date is being extended past the original four-year life of the PAR, please answer the following questions. If this is not a modified PAR, please go to Question #13.
(See NesCom Conventions - Item #18)

a. Statement of why the extension is required:	
b. How many working group members are working on the project?	
c. How many times a year does the working group meet:	
1. In person?	
2. Via teleconference?	
d. How many times a year is a draft version circulated to the working group via electronic means?	
e. What percentage of the Draft is stable?	%
f. How many significant working revisions has the Draft been through?	
g. Balloting History - If the draft has gone to ballot, please provide a history of all IEEE Sponsor ballots under this project in the box to the right. Please include the: • Ballot Close Date (or scheduled Close Date) • Ballot Draft Number • Ballot Results (% affirmative, % negative, % abstain)	
h. Is this the first request for an extension?	○ Yes ○ No
If no, when was the previous extension approved?	(DD-MMM-YYYY)

---

13. SCOPE OF PROPOSED PROJECT
(See NesCom Conventions - Item #6, Item #16, Item #17)

Briefly detail the projected output including technical boundaries.
FOR MODIFIED PROJECTS/REVISION DOCUMENTS - Only detail the projected output including the scope of the project or last published document to be modified and any amendments and/or additions.

```
The scope of this project is limited to amending 802.1D to support Bridging
of the IEEE 802.16 MAC. This involves: (a) Adding one subclause to Clause 6
of 802.1D describing the service interface mapping between the Internal
Sublayer Service and  the 802.16 MAC service; (b) minor changes elsewhere in
the document as needed to accommodate support of the additional MAC,
including priority mapping in Clause 7 and the PICS Proforma in Annex A.
```

Is the completion of this document contingent upon the completion of another document?
○ Yes (with detailed explanation below) ● No

```
┌─────────────────────────────────────────────────────────┐
│                                                         │
│                                                         │
│                                                         │
│                                                         │
│                                                         │
└─────────────────────────────────────────────────────────┘
```

14. PURPOSE OF PROPOSED PROJECT
Briefly, clearly and concisely explain "why" the document is being created.
(See NesCom Conventions - Item #16)

FOR MODIFIED PROJECTS/REVISION DOCUMENTS - Only include the purpose of the project or last published document and any amendments and/or additions.

```
The purpose is to amend the 802.1D bridge standard in
recognition of the 802.16 Media Access Control (MAC).
```

15. REASON FOR THE PROPOSED PROJECT:
Give the specific reason for the standardization project. Focus on explaining the problem being addressed, the benefit to be provided and the stakeholders for the project.

```
IEEE 802 MACs operate as part of an IEEE 802 bridged network. This amendment
will normalize this compatibility and ensure that 802.16 can be deployed by
enterprises and service providers in the bridged network market.
```

16. INTELLECTUAL PROPERTY (Please answer each of the questions below)

    a. Has the IEEE-SA policy on intellectual property been presented to those responsible for preparing/submitting this PAR prior to the PAR submittal to the IEEE-SA Standards Board? ⊙ Yes ○ No

    If yes, state date: Day: 9 ▾ Month: Jan ▾ Year: 2005 ▾

    If no, please explain:

```
┌─────────────────────────────────────────────────────────┐
│                                                         │
│                                                         │
│                                                         │
│                                                         │
└─────────────────────────────────────────────────────────┘
```

    b. Is the Sponsor aware of copyright permissions needed for this project? ⊙ Yes ○ No

    If yes, please explain:

```
┌─────────────────────────────────────────────────────────┐
│                                                         │
│                                                         │
│                                                         │
│                                                         │
└─────────────────────────────────────────────────────────┘
```

    c. Is the Sponsor aware of trademarks that apply to this project? ○ Yes ⊙ No

    If yes, please explain:

```
┌─────────────────────────────────────────────────────────┐
│                                                         │
│                                                         │
│                                                         │
│                                                         │
└─────────────────────────────────────────────────────────┘
```

    d. Is the Sponsor aware of possible registration activity related to this project? ○ Yes ⊙ No

    If yes, please explain:

```
┌─────────────────────────────────────────────────────────┐
│                                                         │
│                                                         │
│                                                         │
│                                                         │
└─────────────────────────────────────────────────────────┘
```

17. ARE THERE OTHER DOCUMENTS OR PROJECTS WITH A <u>SIMILAR SCOPE</u>?

◯ Yes (with detailed explanation below)   ◉ No

If Yes, please answer the following:

Sponsor Organization:

Project/Document Number:

Project/Document Date: (DD-MMM-YYYY)

Project/Document Title:

18. <u>FUTURE ADOPTIONS</u>

Is there potential for this document (in part or in whole) to be adopted by another national, regional or international organization?

| No ▼ |

If Yes, the following questions must be answered:

Technical Committee Name and Number: [▼] TC [ ] SC [ ] WG [ ]

Other Organization Contact Information:

Contact Name - First Name: Contact Name - Last Name:

Contact Telephone Number:

Contact FAX Number:

Contact Email address:

19. WILL THIS PROJECT RESULT IN ANY <u>HEALTH, SAFETY, OR ENVIRONMENTAL GUIDANCE</u> THAT AFFECTS OR APPLIES TO HUMAN HEALTH OR SAFETY? ◯ Yes ◉ No

If yes, please explain:

20. <u>SPONSOR INFORMATION</u>

a. Is the scope of this project within the approved scope/definition of the Sponsor's Charter? ◉ Yes ◯ No

If no, please explain:

b. Have the Sponsor's procedures been accepted by the IEEE-SA Standards Board Audit Committee? ◉ Yes ◯ No
(See NesCom Convention <u>Item #2</u>)

21. <u>ADDITIONAL EXPLANATORY NOTES</u> (Item Number and Explanation)

☐ I acknowledge having read and understood the <u>IEEE Code of Ethics</u>. I agree to conduct myself in a manner which adheres to the <u>IEEE Code of</u>

Ethics when engaged in official IEEE business.

Save This Form   Review and Submit   Reset Form

The **PAR Copyright Release and Signature Page** must be submitted by FAX to +1 732-875-0695 to the NesCom Administrator before this PAR will be forwarded to NesCom and the Standards Board for approval.

(See NesCom Conventions - Item #8, Item #9, Item #10)

Moved: To forward the 802.16k PAR to NesCom.
Moved: Roger Marks/Tony Jeffree

Passes: 13/0/0

5.13   ME   802.16/Conformance04 conditional approval to RevCom   -   Marks   5   02:30 PM

P802.16/Conformance04 to RevCom:
Conditional Approval

10 March 2006

Rules

Motions requesting conditional approval to forward where the prior ballot has closed shall be accompanied by:

- Date the ballot closed

- Vote tally including Approve, Disapprove and Abstain votes

- Comments that support the remaining disapprove votes and Working Group responses.

- Schedule for confirmation ballot and resolution meeting.

Date the ballot closed:
8 March 2006

Stage	Open	Close	
Sponsor Ballot	3 Feb	**8 Mar**	**2006**

Vote tally including Approve, Disapprove and Abstain votes

- 113   Approve   96%
-   5   Disapprove
-   10   Abstain   8%

- However:
  - 2 of the Disapproves converted to Approve following comment resolution (97.5%)
  - The other 3 Disapprove voters are not at this session and have not responded yet.

Comment resolution

- Total 89 comments resolved
  - Editorial: 62
  - Technical: 27
- All 25 Disapprove comments were positively resolved; 24 by "Agree", 1 by "Principle" ("agree" with minor modifications)

Comments that support the remaining disapprove votes and Working Group responses

- attached

Schedule for confirmation ballot and resolution meeting

- Mar 31:   Issue D7

- Apr 7-22:   recirculation

- May 8-11:   comment resolution at 802.16 Session #43, if necessary

802.16 WG Motions

802.16 Closing Plenary: 9 March 2006

Motion: Request conditional approval to forward P802.16-Conformance04/D7 to RevCom pending successful recirculation

- Proposed: Gordon Antonello
- Seconded: Brian Kiernan
- Approved 63-0-0.

Motion

To grant conditional approval, under Clause 20, to forward P802.16/Conformance04 to RevCom

Moved: Marks

Seconded:

Approve:

Disapprove:

Abstain:

Document under Review: **P802.16/Conformanc**   Ballot Number: Comment Date

Comment # **10**   **Comment submitted by:**   SRINIVASAN, MANIKANTAN

Comment   **Type** Editorial   **Starting Page #** 15   **Starting Line #** 15   **Fig/Table#**   **Section** A.5.2.2

Sentence "Prerequsite &" seems to be central alinged. Needs to be left aligned

Suggested Remedy

Sentence (Line) to be left aligned

Proposed Resolution   **Recommendation:**   **Recommendation by**

Yes

Reason for Recommendation

Resolution of Group   **Decision of Group:** **Agree**

We instruct the editor to left-align the sentence on Page 15, line 15, which reads
"Prerequisite: A.3/1-- PMP topology. This prerequisite applies throughout this subclause A.5.2.2"

Reason for Group's Decision/Resolution

Group's Notes
Group's Action Items

Editor's Notes   **Editor's Actions**

Editor's Questions and Concerns

Editor's Action Items

Document under Review: **P802.16/Conformanc**   Ballot Number: Comment Date

Comment # **11**   **Comment submitted by:**   SRINIVASAN, MANIKANTAN

Comment   **Type** Editorial   **Starting Page #** 16   **Starting Line #** 48   **Fig/Table#**   **Section** A.5.2.3

Sentence "Prerequsite &" seems to be central alinged. Needs to be left aligned

Suggested Remedy

Sentence (Line) to be left aligned

Proposed Resolution   **Recommendation:**   **Recommendation by**

Yes

Reason for Recommendation

Resolution of Group   **Decision of Group:** **Agree**

Page 16, line 48
Left align the sentence below
"Prerequisite: A.3/1-- PMP topology."

Reason for Group's Decision/Resolution

Group's Notes

Group's Action Items

Editor's Notes   **Editor's Actions**

Editor's Questions and Concerns

Editor's Action Items

Document under Review: **P802.16/Conformanc**   Ballot Number: Comment Date

Comment # **2 1**   Comment submitted by: SRINIVASAN, MANIKANTAN

Comment   Type Editorial   Starting Page # 25   Starting Line # 52   Fig/Table#   Section A.5.2.3.2.6

Sentence "Refer&" seems to be right alinged. Needs to be left aligned

Suggested Remedy

Sentence (Line) to be left aligned

Proposed Resolution   Recommendation: Recommendation by

Yes

Reason for Recommendation

Resolution of Group   Decision of Group: **Agree**

Left Justify Page 25, line 52, after modifying as described in Comment 22

Reason for Group's Decision/Resolution

Group's Notes

Group's Action Items

Editor's Notes   Editor's Actions

Editor's Questions and Concerns

Editor's Action Items

Document under Review: **P802.16/Conformanc**   Ballot Number: Comment Date

Comment # **2 4**   **Comment submitted by:**   SRINIVASAN, MANIKANTAN

Comment   Type Editorial   Starting Page # 26   Starting Line # 55   Fig/Table#   Section A.5.2.3.2.8.1

Rows in Table A.32 are right aligned. They need to be left aligned.

Suggested   Remedy

Proposed   Resolution   Recommendation: Recommendation by

Yes

Reason for Recommendation

Resolution of Group   **Decision of Group:** **Agree**

Page 26, line 55
Left align all fields in Table A.32

Reason for Group's Decision/Resolution

Group's Notes

Group's Action Items

Editor's Notes   **Editor's Actions**

Editor's Questions and Concerns

Editor's Action Items

Document under Review: **P802.16/Conformanc**   Ballot Number: Comment Date

Comment # **2 5**   Comment submitted by: SRINIVASAN, MANIKANTAN

Comment   Type Editorial   Starting Page # 27   Starting Line # 12   Fig/Table#   Section A.5.2.3.2.8.2

Rows in Table A.32 are right aligned. They need to be left aligned.

Suggested Remedy

Proposed Resolution   Recommendation: Recommendation by

Yes

Reason for Recommendation

Resolution of Group   Decision of Group: **Agree**

Page 27, line 10
Left align all fields in Table A.33

Reason for Group's Decision/Resolution

Group's Notes
Group's Action Items

Editor's Notes   **Editor's Actions**
Editor's Questions and Concerns

Editor's Action Items

Document under Review: **P802.16/Conformanc**   Ballot Number: Comment Date

Comment # **2 6**   **Comment submitted by:**   SRINIVASAN, MANIKANTAN

Comment   **Type** Editorial   **Starting Page #** 28   **Starting Line #** 18   **Fig/Table#**   **Section** A.5.2.3.2.8.5

Sentence "See&" seems to be right alinged. Needs to be left aligned

Suggested Remedy

Sentence (Line) to be left aligned

Proposed Resolution   **Recommendation:**   **Recommendation by**

Yes

Reason for Recommendation

Resolution of Group   **Decision of Group:** **Agree**

Page 28, line 18
Right align sentence at page 28, line 18

Reason for Group's Decision/Resolution

Group's Notes
Group's Action Items

Editor's Notes   **Editor's Actions**

Editor's Questions and Concerns

Editor's Action Items

Document under Review: **P802.16/Conformanc**   Ballot Number: Comment Date

Comment # 4 1   **Comment submitted by:**   SRINIVASAN, MANIKANTAN

Comment   **Type** Editorial   **Starting Page #** 46   **Starting Line #** 54   **Fig/Table#**   **Section** A.5.3.3.2.6

Sentence "Refer&" seems to be right alinged. Needs to be left aligned

Suggested Remedy

Sentence (Line) to be left aligned

Proposed Resolution   **Recommendation:**   **Recommendation by**

Yes

Reason for Recommendation

Resolution of Group   **Decision of Group:** **Agree**

Page 46, line 54
left align the sentence.

Reason for Group's Decision/Resolution

Group's Notes

Group's Action Items

Editor's Notes   **Editor's Actions**

Editor's Questions and Concerns

Editor's Action Items

Document under Review: **P802.16/Conformanc**   **Ballot Number:**   **Comment Date**

Comment # 4 2   **Comment submitted by:**   SRINIVASAN, MANIKANTAN

Comment   **Type** Editorial   **Starting Page #** 48   **Starting Line #** 55   **Fig/Table#**   **Section** A.5.3.3.2.8.5

Sentence "See&" seems to be right alinged. Needs to be left aligned

Suggested Remedy

Sentence (Line) to be left aligned

Proposed Resolution   **Recommendation:**   **Recommendation by**

Yes

Reason for Recommendation

Resolution of Group   **Decision of Group:** **Agree**

Reason for Group's Decision/Resolution

Group's Notes

Group's Action Items

Editor's Notes   **Editor's Actions**

Editor's Questions and Concerns

Editor's Action Items

Document under Review: **P802.16/Conformanc**   Ballot Number: Comment Date

Comment # **43**   **Comment submitted by:**   SRINIVASAN, MANIKANTAN

Comment   **Type** Editorial   **Starting Page #** 54   **Starting Line #** 27   **Fig/Table#**   **Section** A.5.4

Paragraph "In the following&" seems to be right alinged. Needs to be left aligned

Suggested Remedy

Paragraph (Lines) to be left aligned

Proposed Resolution   **Recommendation:**   **Recommendation by**

Yes

Reason for Recommendation

Resolution of Group   **Decision of Group:** **Agree**

Reason for Group's Decision/Resolution

Group's Notes

Group's Action Items

Editor's Notes   **Editor's Actions**

Editor's Questions and Concerns

Editor's Action Items

Document under Review: **P802.16/Conformanc**   **Ballot Number:**   **Comment Date**

Comment # **44**   **Comment submitted by:**   SRINIVASAN, MANIKANTAN

Comment   **Type** Editorial   **Starting Page #** 55   **Starting Line #** 46   **Fig/Table#**   **Section** A.5.4.2.1.1

Sentence "Note&" seems to be right alinged. Needs to be left aligned

Suggested Remedy

Sentence (Line) to be left aligned

Proposed Resolution   **Recommendation:**   **Recommendation by**

Yes

Reason for Recommendation

Resolution of Group   **Decision of Group:** **Agree**

Reason for Group's Decision/Resolution

Group's Notes

Group's Action Items

Editor's Notes   **Editor's Actions**

Editor's Questions and Concerns

Editor's Action Items

Document under Review: **P802.16/Conformanc**   **Ballot Number:**   **Comment Date**

Comment # **4 5**   **Comment submitted by:**   SRINIVASAN, MANIKANTAN

Comment   **Type** Editorial   **Starting Page #** 56   **Starting Line #** 38   **Fig/Table#**   **Section** A.5.4.2.1.3

Sentence "or&" seems to be right alinged. Needs to be left/center aligned

Suggested Remedy

Sentence (Line) to be left/center aligned

Proposed Resolution   **Recommendation:**   **Recommendation by**

Yes

Reason for Recommendation

Resolution of Group   **Decision of Group:** **Agree**

Reason for Group's Decision/Resolution

Group's Notes

Group's Action Items

Editor's Notes   **Editor's Actions**

Editor's Questions and Concerns

Editor's Action Items

Document under Review: **P802.16/Conformanc**   **Ballot Number:**   **Comment Date**

Comment # **4 6**   **Comment submitted by:**   **SRINIVASAN, MANIKANTAN**

Comment   **Type** Editorial   **Starting Page #** 61   **Starting Line #** 50   **Fig/Table#**   **Section** A.5.5.2.1.3

"Comments" - Placed for the first time, if they are to be placed before all the comments in the document, they are to be added, or this heading needs to be removed. (Also noticed in Page 64, Line 33, Sec A.5.5.2.1.5 Page 81, L 60)

Suggested Remedy

Proposed Resolution   **Recommendation:**   **Recommendation by**

Yes

Reason for Recommendation

Resolution of Group   **Decision of Group:** **Agree**

Reason for Group's Decision/Resolution

Group's Notes

Group's Action Items

Editor's Notes   **Editor's Actions**

Editor's Questions and Concerns

Editor's Action Items

Document under Review: P802.16/Conformanc   **Ballot Number:**   **Comment Date**

Comment # 4 7   **Comment submitted by:**   SRINIVASAN, MANIKANTAN

Comment   **Type** Editorial   **Starting Page #** 61   **Starting Line #** 52   **Fig/Table#**   **Section** A.5.5.2.1.3

These comments are not applicable to the above table, hence to be removed

Suggested Remedy

Proposed Resolution   **Recommendation:**   **Recommendation by**

Yes

Reason for Recommendation

Resolution of Group   **Decision of Group:** Agree

Reason for Group's Decision/Resolution

Group's Notes

Group's Action Items

Editor's Notes   **Editor's Actions**

Editor's Questions and Concerns

Editor's Action Items

Document under Review: **P802.16/Conformanc**   **Ballot Number:**   **Comment Date**

Comment # **5 1**   **Comment submitted by:**   SRINIVASAN, MANIKANTAN

Comment   **Type** Editorial   **Starting Page #** 66   **Starting Line #** 59   **Fig/Table#**   **Section** A.5.5.2.1.7
Paragraph "Comments&" seems to be right alinged. Needs to be left aligned

Suggested Remedy
Paragraph (Lines) to be left aligned

Proposed Resolution   **Recommendation:**   **Recommendation by**

Yes

Reason for Recommendation

Resolution of Group   **Decision of Group:** **Agree**

Reason for Group's Decision/Resolution

Group's Notes
Group's Action Items

Editor's Notes   **Editor's Actions**

Editor's Questions and Concerns

Editor's Action Items

Document under Review: **P802.16/Conformanc**   Ballot Number: Comment Date

Comment # **52**   **Comment submitted by:**   SRINIVASAN, MANIKANTAN

Comment   **Type** Editorial   **Starting Page #** 66   **Starting Line #** 63   **Fig/Table#**   **Section** A.5.5.2.1.8

Paragraph "Comments&" seems to be right alinged. Needs to be left aligned

Suggested Remedy

Paragraph (Lines) to be left aligned

Proposed Resolution   **Recommendation:**   **Recommendation by**

Yes

Reason for Recommendation

Resolution of Group   **Decision of Group:** **Agree**

Reason for Group's Decision/Resolution

Group's Notes
Group's Action Items

Editor's Notes   **Editor's Actions**

Editor's Questions and Concerns

Editor's Action Items

Document under Review: **P802.16/Conformanc**   **Ballot Number:**   **Comment Date**

Comment # **53**   **Comment submitted by:**   SRINIVASAN, MANIKANTAN

Comment   **Type** Editorial   **Starting Page #** 67   **Starting Line #** 4   **Fig/Table#**   **Section** A.5.5.2.1.9
Sentence "or&" seems to be right alinged. Needs to be left/center aligned

Suggested Remedy
Sentence (Line) to be left/center aligned

Proposed Resolution   **Recommendation:**   **Recommendation by**

Yes

Reason for Recommendation

Resolution of Group   **Decision of Group:** **Agree**

Reason for Group's Decision/Resolution

Group's Notes
Group's Action Items

Editor's Notes   **Editor's Actions**
Editor's Questions and Concerns

Editor's Action Items

Document under Review: **P802.16/Conformanc**   **Ballot Number:**   **Comment Date**

Comment # **5 5**   **Comment submitted by:**   SRINIVASAN, MANIKANTAN

Comment   **Type** Editorial   **Starting Page #** 72   **Starting Line #** 55   **Fig/Table#**   **Section** A.5.5.2.1.17

Sentence "or&" seems to be right alinged. Needs to be left/center aligned

Suggested Remedy

Sentence (Line) to be left/center aligned

Proposed Resolution   **Recommendation:**   **Recommendation by**

Yes

Reason for Recommendation

Resolution of Group   **Decision of Group:** **Agree**

Reason for Group's Decision/Resolution

Group's Notes

Group's Action Items

Editor's Notes   **Editor's Actions**

Editor's Questions and Concerns

Editor's Action Items

Document under Review: **P802.16/Conformanc**   Ballot Number: Comment Date

Comment # **5 6**   **Comment submitted by:**   SRINIVASAN, MANIKANTAN

Comment   **Type** Editorial   **Starting Page #** 73   **Starting Line #** 36   **Fig/Table#**   **Section** A.5.5.2.1.17

Sentence "Comments&" seems to be right alinged. Needs to be left aligned

Suggested Remedy

Sentence to be left aligned

Proposed Resolution   **Recommendation:**   **Recommendation by**

Yes

Reason for Recommendation

Resolution of Group   **Decision of Group:** **Agree**

Reason for Group's Decision/Resolution

Group's Notes
Group's Action Items

Editor's Notes   **Editor's Actions**

Editor's Questions and Concerns

Editor's Action Items

Document under Review: **P802.16/Conformanc**   Ballot Number: Comment Date

Comment # **5 7**   **Comment submitted by:**   SRINIVASAN, MANIKANTAN

Comment   **Type** Editorial   **Starting Page #** 73   **Starting Line #** 41   **Fig/Table#**   **Section** A.5.5.2.1.18

Sentence(s) "or&" seems to be right alinged. Needs to be left/center aligned

Suggested Remedy

Sentence (Line) to be left/center aligned

Proposed Resolution   **Recommendation:**   **Recommendation by**

Yes

Reason for Recommendation

Resolution of Group   **Decision of Group:** **Agree**

Reason for Group's Decision/Resolution

Group's Notes

Group's Action Items

Editor's Notes   **Editor's Actions**

Editor's Questions and Concerns

Editor's Action Items

Document under Review: **P802.16/Conformanc**   Ballot Number: Comment Date

Comment # **5 8**   **Comment submitted by:**   SRINIVASAN, MANIKANTAN

Comment   **Type** Editorial   **Starting Page #** 74   **Starting Line #** 60   **Fig/Table#**   **Section** A.5.5.2.1.19
Sentence "Comments&" seems to be right alinged. Needs to be left aligned

Suggested Remedy
Sentence to be left aligned

Proposed Resolution   **Recommendation:**   **Recommendation by**

Yes

Reason for Recommendation

Resolution of Group   **Decision of Group:** **Agree**

Reason for Group's Decision/Resolution

Group's Notes
Group's Action Items

Editor's Notes   **Editor's Actions**
Editor's Questions and Concerns

Editor's Action Items

Document under Review: **P802.16/Conformanc**   Ballot Number: Comment Date

Comment # **6 2**   **Comment submitted by:**   SRINIVASAN, MANIKANTAN

Comment   **Type** Editorial   **Starting Page #** 87   **Starting Line #** 37   **Fig/Table#**   **Section** A.5.6
Needs edit to remove the additional tab space

Suggested Remedy

Proposed Resolution   **Recommendation:**   **Recommendation by**
Yes

Reason for Recommendation

Resolution of Group   **Decision of Group:** **Agree**

Reason for Group's Decision/Resolution

Group's Notes
Group's Action Items

Editor's Notes   **Editor's Actions**
Editor's Questions and Concerns

Editor's Action Items

Document under Review: **P802.16/Conformanc**   **Ballot Number:**   **Comment Date**

Comment # **7**   **Comment submitted by:**   ULLMANN, RAINER T

Comment   **Type** Technical   **Starting Page #** 25   **Starting Line #** 6   **Fig/Table#**   **Section**

The tables A.28 and A.72 indicate that all 4 QoS services of 802.16-2004 are supported. However, section 12.4.2.1 Baisc Packet PMP profile (OFDMA_ProfM1) only requires support of BE and nrtPS. rtPS and UGS not required and hence optional only. This is true for both SS and BS. PICS and should be corrected for both.

Suggested Remedy

Change in table A.28 status for item 1 and 2 from "m" to "o". Change in table A.72 status for item 1 and 2 from "m" to "o"

Proposed Resolution   **Recommendation:**   **Recommendation by**

Yes

Reason for Recommendation

Resolution of Group   **Decision of Group:** **Principle**

Page 25, line 6
Table A.28 items 1-4
Change Status from "m" to "o"

Reason for Group's Decision/Resolution

Group's Notes

Group's Action Items

Editor's Notes   **Editor's Actions**

Editor's Questions and Concerns

Editor's Action Items

Document under Review: **P802.16/Conformanc**   Ballot Number: Comment Date

Comment # **8**   **Comment submitted by:**   ULLMANN, RAINER T

Comment   **Type** Technical   **Starting Page #** 86   **Starting Line #** 32   **Fig/Table#**   **Section**

T19 (item 13) has a "?" for the allowed range. the corresponfding table 342 in 802.16-2004 shows no value. I guess anything would pass the "?" requirement - or would nothing pass? P802.16_Cor1/D5 removes this entry completely from the global paramter table....

Suggested Remedy

Remove item 13 (T19) from Table 181

Proposed Resolution   **Recommendation:**   **Recommendation by**

Yes

Reason for Recommendation

Resolution of Group   **Decision of Group:** **Agree**

Page 86, line 32 Table A.181
Remove item 13

Reason for Group's Decision/Resolution

Group's Notes
Group's Action Items

Editor's Notes   **Editor's Actions**

Editor's Questions and Concerns

Editor's Action Items

Moved: To grant conditional approval, under Clause 20, to forward P802.16/Conformance04 to RevCom.
Moved: Roger Marks/Bob Grow

Passes: 13/0/0

5.14   ME   802.15.4REVb conditional approval to RevCom   -   Heile   5   02:33 PM

Conditional Approval to forward 802.15.4REVb to RevCom

D3 Ballot Summary

Ballot Open Date:	14-Dec-01	
Ballot Close Date:	13-Jan-02	
RESPONSE RATE	This ballot has met the 75% returned ballot requirement.	
	142 eligible people in this ballot group.	
98	affirmative votes	
16	negative votes with comments	
1	negative votes without comments	
9	abstention votes	
124	**total, 87% returned, 7% abstention**	
APPROVAL RATE	The 75% affirmation requirement is being met.	
98	affirmative votes	
16	negative votes with comments	
114	**total, 86% affirmative**	
COMMENT SUMMARY		
145	Approve Editorial	
13	Approve General	
33	Approve Technical	
182	Disapprove Editorial	
20	Disapprove General	
170	Disapprove Technical	
563	**Total (valid) comments**	

D4 Ballot Summary

Ballot Open Date:	23-Feb-02	
Ballot Close Date:	5-Mar-02	
RESPONSE RATE	This ballot has met the 75% returned ballot requirement.	
	142 eligible people in this ballot group.	
107	affirmative votes	
10	negative votes with comments	
0	negative votes without comments	
10	abstention votes	
127	**total, 89% returned, 8% abstention**	
APPROVAL RATE	The 75% affirmation requirement is being met.	
107	affirmative votes	
10	negative votes with comments	
117	**total, 91% affirmative**	
COMMENT SUMMARY		
40	Approve Editorial	
3	Approve General	
21	Approve Technical	
28	Disapprove Editorial	
2	Disapprove General	
24	Disapprove Technical	
118	**Total (valid) comments**	

Negative Voter Summary

VOTER DETAILS	D3 Vote -17 Voters
BARR, JOHN R	Disapprove Technical
BEECHER, PHILIP E	Disapprove Technical
CRAGIE, ROBERT C	Disapprove Technical
FREEDMAN, AVRAHAM	Disapprove Technical
GILB, JAMES P	Disapprove Technical
GNOSKE, ERIC T	Disapprove Technical
JANBU, OYVIND	Disapprove Technical
MORIDI, MR SAID	Disapprove Technical
NAEVE, MARCO	Disapprove Technical
SHELLHAMMER, STEPHEN J	Disapprove Technical
SHIMADA, SHUSAKU	Disapprove Technical/Editorial
SMITH, MATTHEW L	Disapprove Technical/Editorial
STRUIK, RENE	Disapprove Technical
WRIGHT, FORREST D	Disapprove Technical
CAI, SEAN	Disapprove General
JAMES, DAVID V.	Disapprove General
NOENS, RICHARD H.	Disapprove (no comment)
ROCCHIO, FRANK	

Negative Voter Summary

VOTER DETAILS	D4 Vote -10 Voters			
BARR, JOHN R	Approve			
BEECHER, PHILIP E	Approve			
CRAGIE, ROBERT C	Disapprove Editorial (new comments-accepted 23 rejected 3)			
FREEDMAN, AVRAHAM	Approve			
GILB, JAMES P	Approve			
GNOSKE, ERIC T	Disapprove Editorial (new comments-accepted 1 rejected 0)			
JANBU, OYVIND	Approve			
MORIDI, MR SAID	Disapprove General (but same comment)			
NAEVE, MARCO	Approve			
SHELLHAMMER, STEPHEN J	Disapprove Technical (same comment)			
SHIMADA, SHUSAKU	Disapprove Technical (no comment on D4 --on D3 accepted 9 reject 2T)			
SMITH, MATTHEW L	Disapprove Technical (no comment on D4 --on D3 accepted 4(1T/3E) rejected 0)			
STRUIK, RENE	Disapprove Technical (new comments)			
WRIGHT, FORREST D	Approve			
CAI, SEAN	Disapprove (no comments on D4- on D3 accepted 4 rejected 1)			
JAMES, DAVID V.	Disapprove (no comments on D4- on D3 accepted 1 rejected 0)			
NOENS, RICHARD H.				
ROCCHIO, FRANK	Disapprove General			

COMMENT RESOLUTION

Rene's votes break down as follows:

- In D3: 50 comments.46 technical (32 accept, 8 reject, 6 withdrawn)4 editorial (1 accept, 1 reject, 2 withdrawn)

- In D4:24 comments.23 technical (12 accept, 1 reject, 8 withdrawn, 2 pending)1 editorial (1 withdrawn)

D4 Comment Resolution Details

VOTE/CATEGORY	total	accept	reject	withdrawn	pending
APPROVE EDITORIAL	41	31	10	0	0
DISAPPROVE EDITORIAL	28	24	3	1	0
APPROVE GENERAL	3	2	1	0	0
DISAPPROVE GENERAL	2	0	2	0	0
APPROVE TECHNICAL	21	15	5	1	0
DISAPPROVE TECHNICAL	24	12	1	9	2

15-06-0188-00-004b.xls

Motion to EC

- Move to conditionally forward draft 802.15.4REVb to RevCom per clause 20 with the additional condition that the CA doc is included with all further recircs

Moved: Bob Heile

Second: Carl Stevenson

Moved: to conditionally forward draft 802.15.4REVb to RevCom per clause 20 with the additional condition that the CA doc is included with all further recircs.

Moved: Bob Heile/Carl Stevenson

Passes: 14/0/1

| 5.15 | ME | Affirm withdrawal of 802.15.3a PAR | - | Heile | 5 | 02:40 PM |

Motion to EC

Motion to recommend 802.15.3a PAR withdrawal passed in the WG by 72/0/3

- Move that the EC affirm the recommendation to withdraw the 802.15.3a PAR and forward the action to NesCom

Moved: Bob Heile

Second: Carl Stevenson

Moved: that the EC affirm the recommendation to withdraw the 802.15.3a PAR and forward the action to NesCom.

Moved: Bob Heile/Carl Stevenson

Passes: 15/0/0

| 5.16 | ME | 802.1ak conditional approval to sponsor ballot | - | Jeffree | 5 | 02:42 PM |

MOTION

- 802.1 requests permission from the EC for conditional approval to forward P802.1ak (MRP) to Sponsor ballot as per current P&P.

- 802.1 Proposed: seaman   Second: wright
  - For: 26 Against: 0 Abstain:1

- EC proposed: Jeffree second:

Supporting material – P802.1ak

- WG ballot closed 7th January 2006
- Voting: 69.6% returned, 48.7% abstention, 80% approve, 4 Disapprove votes
- Comment database and dispositions can be found here:

http://www.ieee802.org/1/files/public/docs2006/802-1ak-d4-0-dis.pdf

- Recirc in March/April timeframe with ballot resolution if needed in May interim

Moved: 802.1 requests permission from the EC for conditional approval to forward P802.1ak (MRP) to Sponsor ballot as per current P&P.

Moved: Tony Jeffree/Carl Stevenson

Passes: 15/0/0

5.17	ME	802.1AE to RevCom		-	Jeffree	5	02:38 PM

MOTION

- 802.1 requests permission from the EC to forward P802.1AE to RevCom.

- 802.1 Proposed: seaman   Second: wright
  - For: 23 Against: 0 Abstain:3

- Exec Proposed: Jeffree   Second:
  - For: Against: Abstain:

Supporting material – P802.1AE

- Initial Sponsor ballot closed 17th July
- Voting: 82.4% returned, 12.4% abstention, 92.3% approve, 6 Disapprove votes
- Two disapprove voters were present for the discussions and have indicated that they are satisfied with the resolution of their comments
- Comment database and dispositions can be found here:

http://www.ieee802.org/1/files/public/docs2005/802-1ae-d4-sponsor-proposed-disposition-11-16-05.xls

- Recirc ballot closed 8th February 2006
- Voting: 83.3% response, 98.8% approve, 11.1% abstention, 1 disapprove vote

Supporting material – P802.1AE

- **Disapprove comment was:**

  "The comments I submitted in the previous ballot do not seem to have been addressed, but rather was ignored."

- **Resolution text was:**

  "Following an email conversation with the commenter, it would appear that he was unaware of the existence of the comment resolutions that had been uploaded to the MyBallot system. Having reviewed those comment resolutions, his response was: "Thank you for the comment spreadsheet. I didn't see it earlier. I read all the dispositions and agree with them, but still feel not completely convinced the justification of doing this in L2. If I have to change to approve, I don't mind doing it. But if I still have a choice, I'd rather stay my vote as is and overruled by majority." The ballot resolution committee continue to regard the provision of this functionality at Layer 2 to be a requirement; for example, in order to provide protection of Layer 2 control protocols."

Moved: 802.1 requests permission from the EC to forward P802.1AE to RevCom.

Moved: Tony Jeffree/Carl Stevenson

Passes: 14/0/0

| 5.18 | ME | 802.1AS PAR to NeSCom | - | Jeffree | 5 | 02:48 PM |

MOTION

- 802.1 requests permission from the EC to forward the P802.1AS draft PAR – Timing and synchronization for time sensitive applications in bridged LANs - to NesCom.
- 802.1 Proposed: johas teener   Second:wright
  - For: 23 Against: 0 Abstain:3
- Exec Proposed: Jeffree   Second:
  - For: Against: Abstain:

Moved: 802.1 requests permission from the EC to forward the P802.1AS draft PAR – Timing and synchronization for time sensitive applications in bridged LANs - to NesCom.

Moved: Tony Jeffree/Carl Stevenson

Passes: 14/0/0

5.19	ME	1802.3-2001 reaffirmation		-	Grow	5	02:48 PM

Reaffirmation of
IEEE Std 1802.3-2001

The LMSC EC approves initiation of a reaffirmation ballot on IEEE Std 1802.3-2001.

Moved: R. Grow
Second: S. Kerry
Y: , N: , A:

Working Group motion #5 – Y: 80,N: 0, A: 5

Moved: The LMSC EC approves initiation of a reaffirmation ballot on IEEE Std 1802.3-2001.

Moved: Bob Grow/Stuart Kerry

Passes: 14/0/0

The chair recessed the meeting for a 5 minute break.

6.00		**Executive Committee Study Groups, Working Groups, TAGs**	-			
6.01	MI	**Affirmation of 802.1 WG Officers**	-	Nikolich	2	03:03 PM

Nominees for Chair/Vice-Chair positions

- **Chair**
  - Tony Jeffree
- **Vice-Chair: two candidates**
  - Paul Congdon – 19 votes
  - John Messenger – 10 votes

MOTION

- 802.1 requests the 802 Exec to confirm the appointment of Tony Jeffree as Chair of 802.1.

- 802.1 Proposed: seaman

- Second: messenger
  - For: 31 Against: 0 Abstain: 0

MOTION

- 802.1 requests the 802 Exec to confirm the appointment of Paul Congdon as Vice Chair of 802.1.

- 802.1 Proposed: romascanu

- Second:Wright
  - For: 30 Against: 0 Abstain: 2

Moved: to affirm Tony Jeffree, Paul Congdon
Moved: Tony Jeffree/Bob Heile

Passes: 15/0/0

6.02	MI	Affirmation of 802.3 WG Officers	-	Nikolich	2	03:05 PM

802.3 Elections

- Election process was accepted in November 2005 by the WG and used in this session
- Chair
  - Mr. Robert Grow was the only announced candidate and no other nominations were made from the floor
  - Votes: 97 (no votes in opposition)
- Vice Chair
  - Mr. David Law was granted exception to term limits in November – Y: 73, N: 0, A: 1
  - Mr. David Law was the only announced candidate and no other nominations were made from the floor
  - Votes: 110 (no votes in opposition)

Moved: to confirm Bob Grow and David Law
Moved: Tony Jeffree

Passes: 14/0/1

| 6.03 | MI | Affirmation of 802.11 WG Officers | - | Nikolich | 2 | 03:08 PM |

IEEE 802 LMSC RESOLUTION

Motion By: KERRY   Seconded By:

- **Move to affirm Stuart J. Kerry as WG Chair of 802.11 and Al Petrick as 1st Vice-Chair of 802.11 WG and Harry Worstell as 2nd Vice-Chair of 802.11 WG.**

- WG Result: Unanimous Approval for all 3 positions
    - 180 Voting members and 240 individuals present in the room for all 3 vote

Approve: Do Not Approve: Abstain:

Moved: affirm Stuart Kerry and Harry Worstell, Al Petrick
Moved: Stuart Kerry/Jerry Upton

Passes: 14/0/1

6.04   MI   Affirmation of 802.15 WG Officers   -   Nikolich   2   03:10 PM

Affirmation of 802.15 WG Officers

Motion to EC

- Move to affirm the following slate of 802.15 officers
  - Chair: Bob Heile
  - Vice Chair 1: Rick Alfvin
  - Vice Chair 2: Pat Kinney
- Slate ran unopposed and was passed by acclimation.
  - estimate of votes in favor: 100
  - estimate of voting members present: 100

Moved: Bob Heile

Second: Carl Stevenson

Moved: to affirm Bob Heile and Pat Kinney, Rick Alfvin
Moved: Bob Heile/Carl Stevenson

Passes: 14/0/1

6.05	**MI**	**Affirmation of 802.16 WG Officers**	-	**Nikolich**	**2**	**03:01 PM**

802.16 Election Report

- The 802.16 Working Group carried out elections on Monday 6 March in accordance with its Officer Election Process:

  http://wirelessman.org/docs/03/80216-03_28.pdf

- A secret ballot was used, with paper ballot forms.

- In the election for WG Chair, Roger Marks was the only candidate and was elected unanimously (with 92 votes).

- Three members were candidates for WG Vice Chair. None received a majority of the votes. According to the defined process, a runoff election between the two leading vote-getters (Ken Stanwood and Panyuh Joo, who had 36 votes each) was scheduled for the Thursday night 802.16 Closing Plenary.

- In the runoff, Ken Stanwood was elected as Vice Chair by vote of 52-49.

LMSC Motion

Motion: To confirm the elections of Roger Marks and Ken Stanwood as Chair and Vice Chair, respectively, of the IEEE 802.16 Working Group

- Motion: Roger Marks
- Second: Stuart Kerry
- LMSC Vote: 15/0/0

Moved: To confirm the elections of Roger Marks and Ken Stanwood as Chair and Vice Chair, respectively, of the IEEE 802.16 Working Group.

Moved: Roger Marks/Stuart Kerry

Passes: 15/0/0

| 6.06 | MI | Affirmation of 802.17 WG Officers | - | Nikolich | 2 | 03:14 PM |

802.17 Elections

- Move to affirm election of Michael Takefman and John Lemon as Chair and Vice-Chair (resp.) of 802.17

    – Move: Takefman   Second: Hawkins
    – 14/0/1

Moved: to affirm Mike Takefman and John Lemon.
Moved: Mike Takefman/John Hawkins

Passes: 14/0/1

6.07   MI   Affirmation of 802.18 TAG Officers   -   Nikolich   2   03:15 PM

802.18 Elections

- The following individuals ran unopposed for chair and vice chair of the 802.18 TAG
  - Mike Lynch (Chair)
  - Denis Kuwahara (Vice Chair)
- Mike Lynch was unanimously elected chair
- Denis Kuwahara was unanimously elected vice chair
- Both have submitted their letters of support

Motion

- Move to confirm the election of Mike Lynch as 802.18 Chair

Moved: to confirm the election of Mike Lynch as Chair of 802.18.
Moved: Mike Lynch/Stuart Kerry

Passes: 15/0/0

Motion

- Move to confirm the election of Denis Kuwahara as 802.18 Vice Chair

Moved: to confirm the election of Denis Kuwahara as Vice Chair of 802.18.
Moved: Mike Lynch/Jerry Upton

Passes: 15/0/0

| 6.08 | MI | Affirmation of 802.19 TAG Officers | - | Nikolich | 2 | 03:17 PM |

802.19 Elections

- The following people ran unopposed for chair and vice chair of the 802.19 TAG
  - Steve Shellhammer (Chair)
  - Tom Siep (Vice Chair)
- Of the 16 TAG members there were 7 members in attendance (not counting the chair)
- Steve Shellhammer was elected chair unanimously
- Tom Siep was elected vice chair unanimously
- Both officers have submitted their letters of support

Motion

- Move to confirm the election of Steve Shellhammer as 802.19 Chair and Tom Siep as 802.19 Vice Chair
- Move: Steve Shellhammer
- Second: Buzz Rigsbee
- Yes
- No
- Abstain

Moved: to confirm the election of Steve Shellhammer as 802.19 Chair and Tom Siep as 802.19 Vice Chair.

Moved: Steve Shellhammer/Buzz Rigsbee

Passes: 14/0/1

| 6.09 | MI | Affirmation of 802.20 WG Officers | - | Nikolich | 2 | 03:18 PM |

Motion: Move to confirm Jerry Upton as the elected Chair
of IEEE 802.20 Working Group

Mover: Jerry Upton
Second: Steve Shellhammer

Y-

N-

A-

Election Results:
Jerry Upton : 87
Jim Mollenauer : 37

Note: 143 voting members in 802.20

March 10, 2006

Moved: to confirm Jerry Upton as the elected Chair of IEEE 802.20 Working Group.

Moved: Jerry Upton/Steve Shellhammer

Passes: 11/0/3

Motion: Move to confirm Doug Knisely as the elected Procedural Vice Chair of IEEE 802.20 Working Group

Mover: Jerry Upton
Second: Steve Shellhammer

Y-

N-

A-

Election Results:
Doug Knisely : 83
Anna Lai-King Tee : 40

Note: 143 voting members in 802.20

March 10, 2006

Moved: to confirm Doug Knisely as the elected Procedural Vice Chair of IEEE 802.20 Working Group.

Moved: Jerry Upton/Steve Shellhammer

Passes: 12/0/2

Motion: Move to confirm Radhakrishna Canchi as the elected Liaison Vice Chair of IEEE 802.20 Working Group.

Mover: Jerry Upton
Second: Steve Shellhammer

Y-

N-

A-

Election Results:
R. Canchi : 79
Reza Arefi : 39

Note: 143 voting members in 802.20

March 10, 2006

Moved: to confirm Radhakrishna Canchi as the elected Liaison Vice Chair of IEEE 802.20 Working Group.

Moved: Jerry Upton/Steve Shellhammer

Passes: 12/0/2

| 6.10 | MI | Affirmation of 802.21 WG Officers | - | Nikolich | 2 | 03:22 PM |

802.21 WG Officer Elections

- Chair candidates
  - Nominee 1: Ajay Rajkumar – 23
  - Nominee 2: Vivek G. Gupta – 28

  - Abstain: 1

- Vice-Chair candidates
  - Nominee 1: Michael G. Williams – 31
  - Nominee 2: Eric Njedjou –13

- **Motion:** To confirm the Elected 802.21 WG Officers by the EC
  - Moved: Ajay Rajkumar
  - Second: Tony Jeffery

  - Result: Yes:10   No: 0   Abstain: 4

21-05-0592-00-0000

Moved: To confirm the Elected 802.21 WG Officers by the EC.

Moved: Ajay Rajkumar/Tony Jeffree

Vivek introduced himself and provided information on his background.

Passes: 10/0/4

The members of the executive committee expressed their thanks to Ajay for his service and contributions to the LMSC.

| 6.11 | MI | Affirmation of 802.22 WG Officers | - | Nikolich | 2 | 03:26 PM |

Motion: To confirm the elected slate of WG officers for 802.22 (Carl R. Stevenson, Chair and Gerald Chouinard, Vice-Chair)

Informative: Both candidates ran unopposed and were re-elected unanimously (35-0-0)

Moved: Carl R. Stevenson

Seconded: Stuart Kerry

Yes   No   Abstain

Moved: To confirm the elected slate of WG officers for 802.22 (Carl R. Stevenson, Chair and Gerald Chouinard, Vice-Chair).

Moved: Carl Stevenson/Stuart Jerry

Passes: 15/0/0

| 6.12 | MI | Affirmation of LMSC Chair | - | Thaler | 2 | 03:30 PM |

Moved: To elect Paul Nikolich as chair of LMSC
Moved: Buzz Rigsbee/Tony Jeffree

Passes: 14/0/0

| 6.13 | MI | Affirmation of LMSC Appointed Officers | - | Nikolich | 2 | 03:17 PM |

LMSC EC Appointed Officers

- 1st Vice Chair: Matthew Sherman
- 2nd Vice Chair: Pat Thaler
- Treasurer: John Hawkins
- Exec Secy: Buzz Rigsbee
- Recording Secy: Bob O'Hara

Motion to confirm above slate of EC appointed officers.

Mover: Seconder:

Moved: To confirm the following appointed EC officers:

First Vice Chair:	**Mat Sherman**
Second Vice Chair:	**Pat Thaler**
Treasurer:	**John Hawkins**
Executive Secretary:	**Buzz Rigsby**
Recording Secretary:	**Bob O'Hara**

Moved: Bob Grow/Mike Takefman

Passes: 14/0/1

6.14	**MI**	**Extend Member Emeritus Position to 2008**	**-**	**Nikolich**	**2**	**03:35 PM**

Member Emeritus

- The LMSC extends the LMSC EC member emeritus position through the first plenary session of 2008.

  Moved: R. Grow
  Second: J. Hawkins
  Y: , N: , A:

Moved: The LMSC extends the LMSC EC member emeritus position through the first plenary session of 2008.

Moved: Bob Grow/John Hawkins

Passes: 12/1/2

6.15	MI	Affirmation of Member Emeritus	-	Nikolich	2	03:21 PM

Moved: to affirm Geoff Thompson as member emeritus.
Moved: Marks/Rigsbee

Passes: 15/0/0

6.16	MI	Extension of 802.11 CBP study group	-	Kerry	1	03:42 PM

Moved: to extend the 802.11 CBP study group through the end of the July 2006 plenary session.
Moved: Jerry Upton/Carl Stevenson

Fails: 3/4/7

6.17	MI*	Extension of 802.19 coexistence study group	-	Shellhammer	0	
6.18	MI	Formation of 802.3 10G EPON study group	-	Grow	2	03:45 PM

10Gb/s EPON PHY

The LMSC grants approval for formation of a 10Gb/s EPON PHY study group within 802.3.

Moved: R. Grow
Second: C. Stevenson
Y: , N: , A:

Working Group motion #13 – Y: 51,N: 2, A: 9

Moved: The LMSC grants approval for formation of a 10Gb/s EPON PHY study group within 802.3.

Moved: Bob Grow/Carl Stevenson

Passes: 14/0/0

6.19	**MI***	**Extension of 802.16 Mobile Multihop Relay study group**	**-**	**Marks**	**0**	
6.20	MI	Formation of 802.1 Congestion Management study group	-	Jeffree	5	03:47 PM

MOTION

- 802.1 requests approval from the EC to establish an 802.1 Congestion Management (CM) Study Group. SG Chair will be Pat Thaler.

- 802.1 Proposed: Wadekar Second:Seaman
  - For: 28 Against: 0 Abstain: 4
- Exec Proposed: Jeffree Second:
  - For: Against: Abstain:

Moved: 802.1 requests approval from the EC to establish an 802.1 Congestion Management (CM) Study Group. SG Chair will be Pat Thaler.

Moved: Tony Jeffree/Bob Grow

Passes: 14/0/0

6.21	**MI***	**Extension of 802.11 JTC1/SC6 study group**		**-**	**Kerry**	**0**	
6.22	**MI***	**Extension of 802.22 Part 74 study group**		**-**	**Stevenson**	**0**	
6.23				**-**			
7.00		**Break**		**-**		**10**	

The break was taken earlier.

8.00		**IEEE-SA Items**		**-**			
8.01	**II**	**802 Task Force update**		**-**	**Vogel**	**5**	**03:48 PM**

March 2006 Draft 802 Task Force
Draft Minutes from 8MAR2006 meeting

Time: 1-4pm , 8MAR2006   Location: Limestone boardroom, Hyatt Regency, Denver

Attendees: GThompson, DMills, BLaBelle, MTurner, SMills, KKenney, MKipness, SVogel, BGrow, CCamp, PNikolich, JHawkins, GParsons, MFisher

The draft agenda for this week's meeting is as follows:

1) myBallot/myProject Update (Thompson, Kenney)
  a.. Action Item: Geoff Thompson to write and submit a request to the MyProject team that a mechanism be developed for integration into MyProject to track the existence and outcome of any appeals associated with a project.
status:--action completed. Clydes response: can be implemented, but it will be 2007 before it is available

b.. Action Item: IEEE-SA staff (Kenney/Kipness/Vogel) to schedule a brainstorm session with the MyProject team (Bob LaBelle, Chris Sahr, Clyde Camp), 802 members (Paul Nikolich, Bob Grow, David Law) and other IEEE staff as appropriate in conjunction with the Standards Board meeting in December 2005 in Florida, to discuss MyProject tools, requirements, and roll-outs relative to 802 tools and needs. 802 Executive Committee are to be copied on email meeting notice.
status:--outcome: try to develop a common tools et with 802, initially with the wireless WGs, to be extended across all of 802
2) 802 Online Training Update (Thaler)
status: Bob Grow reviewed, thought it was pretty good , will be brought on line next week. Pat and Paul agreed to regulate allocation as follows: 10 seats reserved, 90 first come first serve with one week timeout

3) Attendance Software Update (LaBelle)
status: see 1b above

4) European Patent Office (Mills)
  a.. Action Item: Steve Mills will also raise this issue with the IEEE-SA Board of Governors for discussion at their December 2005 meeting.
status: action complete, SASB approved, SASB chartered an ad hoc to implement.
***Action--each WG must appoint a person to provide a list of the directories where the current and archive drafts reside.
Hibernated projects: e.g. dot 5, dot 9, etc--need to determine how to handle these draft documents.
****Action- Law to contact Ringle on how to handle the document retention policy. Mills to bring this to Claire's attention.
***Action-Mills to report at next 802TF meeting the viability of offering a 'search service' that could be offered for sale
5) LMSC Working Group Voting List maintenance (Grow)

--Grow questions the need for preparing voter list.
***Action-Kipness to determine exactly what information is needed wrt participation in WG activities in order to meet the P&P about rosters

6) Get IEEE 802 Update (Kenney/Hawkins) (additional time reserved 3-4pm if needed)
--Hawkins gives report--need to make changes in the program in order to maintain it. Brainstormed some ideas, but no conclusive decisions made.

8.02				-			
8.03				-			
9.00		LMSC Liaisons & External Interface		-			
9.01	DT	Get IEEE 802 Program Update		-	Hawkins	10	03:56 PM

Situation

- Projected funding shortfall on the order of $200k for 2007
- This is based on extrapolating current trends for PDF, print, & subscriptions as well as corporate & individual sponsorships
- Program goal is to maintain "revenue-neutral" status.
- +/- 20% of budget triggers a program review. 2007 may be the first time we trip a trigger. Given the current trend it will only get worse.
- IEEE 802 has exceeded its budgeted contribution to the program every year since it's inception

Get 802 Program Review

Option Summary

Option	Comments
Charge nominal download fee	cost prohibitive at present
Shareware approach	Estimate unknown – seen as low probability of significant $$
Sell web-page ads	Estimate unknown – seen as low probability of significant $$
Delay adding docs to Get802 program by 6mo (to 1yr)	Estimate this would add $13k
Increase emphasis and marketing of corporate sponsorship program	Estimate this would add $15k
Increase registration fees	Historically the default option
Combination of above	Proposed
Discontinue program	Discussed, undesirable
Or …. Suggestions?	

Charge Nominal Fee

- With 489,935 downloads/year, $1 per download would solve the problem (ignoring decrease in demand)

- Would allow reduction in 802 contributions to the Get 802 program

- Currently not feasible as min transaction fee thru IEEE catalog service is > $25

Delay Adding Stds Docs

- Published docs only downloadable after 1yr

- Hopefully resulting in added paid services in that 1st year

- We guesstimate it would drive 10% additional paid program income (about $13K in '07)

Beefed up Corporate Sponsorships

- Limited success in this portion of the program so far.
- As currently structured, seen as little value to sponsors.
- We have suffered subscription shifts to IEL
- We would need to beef up the value prop somehow
- If we double our 2005 actual, that's $30k

Increase registration fees

- Initial swag of 1300 attendees/session resulted in $140/head contribution.

- If we estimate 1500 attendees/session that would mean ~ $121/head

- I don't think our members will tolerate > $100/head. Even that will be a stretch.

Discontinue Program

- Solves the problem immediately
- Assigns costs to where it rightfully belongs
- Throws the baby out with the bathwater
- Loss of goodwill for 802

9.02   **ME**   **ITU-R M.1450 Liaison**   -   **Lynch**   **5**   **04:10 PM**

802.18 Motion to SEC

Agenda: 9.02
Date: 03/10/2006
Time: 3:16 p.m.

Motion by: Lynch   **Seconded by:** Stevenson

Moved:

To approve document 18-06-0004-00-0000_ITU-R_M.1450_draft_rev_sho_chg.doc as an 802 document, authorizing the Chair of 802.18 to do necessary editorial and formatting changes and, using the document as a "template", create the appropriate input to ITU-R WP-8A.

Informative: This document was approved by 802.18 at the January 2006 interim meeting and circulated to the EC on 25 February 2006.

Approve: Do Not Approve: Abstain: Motion:

Moved: To approve document 18-06-0004-00-0000_ITU-R_M.1450_draft_rev_sho_chg.doc as an 802 document, authorizing the Chair of 802.18 to do necessary editorial and formatting changes and, using the document as a "template", create the appropriate input to ITU-R WP-8A.

Moved: Mike Lynch/Carl Stevenson

Passes: 14/0/0

9.03	ME	L80216-06_004d3 Response to ITU-R Liaison	-	Lynch	5	04:12 PM

802.18 Motion to SEC

Agenda: 9.03
Date: 03/10/2006
Time: 3:21 p.m.

Motion by: Lynch　　　　　　　　　　**Seconded by:** Marks

Moved:

To approve document L80216-06-004d3_clean.doc as an 802 document, authorizing the Chair of 802.18 to do necessary editorial and formatting changes and, using the document as a "template", create the appropriate input to ITU-R WP-8A.

Informative: This document was developed by 802.16 and is in response to an ITU-R Liaison received by IEEE and circulated to the EC in November, 2005.

Approve: Do Not Approve: Abstain: Motion:

Moved: To approve document L80216-06-004d3_clean.doc as an 802 document, authorizing the Chair of 802.18 to do necessary editorial and formatting changes and, using the document as a "template", create the appropriate input to ITU-R WP-8A.

Informative: This document was developed by 802.16 and is in response to an ITU-R Liaison received by IEEE and circulated to the EC in November, 2005.

Moved: Mike Lynch/Roger Marks

Passes: 13/0/0

| 9.04 | ME | L80216-06_003d2 Response to ITU-R Liaison | - | Lynch | 5 | 04:13 PM |

802.18 Motion to SEC

Agenda: 9.04
Date: 03/10/2006
Time: 3:26 p.m.

Motion by: Lynch   **Seconded by:** Marks

Moved:

To approve document L80216-06_003d2-clean.doc as an 802 document, authorizing the Chair of 802.18 to do necessary editorial and formatting changes and, using the document as a "template", create the appropriate input to ITU-R WP-8A.

Informative: This document was developed by 802.16 and is in response to an ITU-R Liaison received by IEEE and circulated to the EC in November, 2005.

Approve: Do Not Approve: Abstain: Motion:

Moved: To approve document L80216-06_003d2-clean.doc as an 802 document, authorizing the Chair of 802.18 to do necessary editorial and formatting changes and, using the document as a "template", create the appropriate input to ITU-R WP-8A.

Informative: This document was developed by 802.16 and is in response to an ITU-R Liaison received by IEEE and circulated to the EC in November, 2005.

Moved: Mike Lynch/Roger Marks

Passes: 12/0/1

9.05				-		
10.00		**LMSC Internal Business**		-		
10.01	**MI**	**802.11s press release**	-	**Kerry**	**5**	**04:10 PM**

IEEE 802 LMSC RESOLUTION

Motion By: KERRY   Seconded By:

– **Move, to approve the Press Release in submission 11-06/491r2 and forward it to the 802 Executive Committee for approval and public release.**

– In TGS:
  - TG Moved: Steve Conner   Seconded: Juan Carlos Zuniga
  - TG Results: Vote: 36-0-1 Approved

– WG, Moved by: Donald Eastlake on behalf of TGs
– WG Results: 70-1-3 Approved

Approve: Do Not Approve: Abstain:

IEEE P802.11
Wireless LANs

TGs Proposal Confirmation Press Release				
Date: 2006-03-09				
Author(s):				
Name	**Company**	**Address**	**Phone**	**email**
Donald Eastlake 3rd	Motorola	111 Locke Drive, Marlborough, MA 01752	+1-508-786-7554	Donald.Eastlake@motorola.com

Abstract

This document is a proposed Press Release on the confirmation of the Joint SEE Mesh and Wi-Mesh proposal as the baseline for TGs work. This version has already been reviewed by the IEEE.

Contact: Stuart J. Kerry, 802.11 Working Group Chair
+1 408-474-7356, stuart.kerry@philips.com
                or
Karen McCabe, IEEE Senior Marketing Manager
+1 732-562-3824, k.mccabe@ieee.org

MESH NETWORKING PROPOSAL SELECTED FOR IEEE 802™ WIRELESS LANs

PISCATAWAY, N.J., USA, 10 March 2006 – The IEEE 802.11 Working Group has passed a major milestone in the development of IEEE 802.11s™, "Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications: Extended Service Set Mesh Networking", by voting to confirm a single proposal as the initial basis for the IEEE 802.11s standard. Many additional steps, which will include technical changes, are necessary before this standard becomes final; but this vote sets the baseline from which the group will work.

Once completed, IEEE 802.11s will provide an interoperable and secure wireless distribution system between IEEE 802.11™ mesh points. This can reduce backhaul and installation costs. It also will extend mobility to access points in IEEE wireless local area networks (WLANs), enabling a new class of IEEE 802.11 applications that require untethered infrastructure.

The working group winnowed the 15 proposals presented in July 2005 for this amendment down to two in January 2006. The two final concepts were then merged to create the Joint SEE-Mesh Wi-Mesh Alliance proposal, which the group confirmed as a baseline for this amendment. The evaluation process considered five relevant use cases, i.e., those concerning the residential, office, public safety, military, and campus/community/public access sectors.

"From wireless video distribution in the home to battlefield communications, mesh networking can improve data rates, reliability and range." says Stuart J. Kerry, IEEE 802.11 Working Group Chair.

Donald E. Eastlake 3rd, Mesh Networking Task Group Chair, says "Mesh networking features will help keep IEEE 802.11, already dominant in the WLAN arena with over a hundred million chip sets shipping annually, at the cutting edge of technology for the maximum benefit of its users. Final approval of the new amendment is targeted for 2008."

About the IEEE Standards Association

The IEEE Standards Association, a globally recognized standards-setting body, develops consensus standards through an open process that brings diverse parts of an industry together. These standards set specifications and procedures based on current scientific consensus. The IEEE-SA has a portfolio of more than 870 completed standards and more than 400 standards in development. For information on IEEE-SA see: http://standards.ieee.org/.

About the IEEE

The IEEE has more than 375,000 members in approximately 150 countries. Through its members, the organization is a leading authority on areas ranging from aerospace, computers and telecommunications to biomedicine, electric power and consumer electronics. The IEEE produces nearly 30 percent of the world's literature in the electrical and electronics engineering, computing and control technology fields. This nonprofit organization also sponsors or cosponsors more than 300 technical conferences each year. Additional information about the IEEE can be found at http://www.ieee.org.

# # #

References:

Moved: to approve the Press Release in submission 11-06/491r2 and forward it to the 802 Executive Committee for approval and public release.

Moved: Stuart Kerry/unrecorded

A number of members expressed concern over the use of the use of "Joint SEE-Mesh Wi-Mesh Alliance".

Passes: 13/0/1

| 10.02 | DT | Online education next steps | - | Thaler | 5 | 04:24 PM |

On-line training observations

- IEEE Process course
  - positive feedback from reviewers, however
    - Development is time consuming and costly
    - Course will need periodic update for rule changes
- Original course plan includes 9 courses
  - Probably will be too much for us to produce and maintain
  - Advanced topics may be best learned by self-study of source documents (e.g. P&P) plus experience and mentoring.
- Recommend we trim the plan

First cut at trimming the plan

100. IEEE-SA Policies and Procedures

done 101. Introduction to IEEE-SA Policies and Procedures

~~111. Advanced Topics in IEEE-SA Policies and Procedures~~

200. IEEE-SA Editorial Process

? 201. Introduction to Editing, Framemaker and IEEE Style Guide

~~211. Advanced topics in Editing and Framemaker~~

300. Conduct of Meetings

301. Introduction to Robert's Rules of Order and Conduct of Meetings

~~311. Advanced Topics in RRoO and Conduct of Meetings~~

400. IEEE 802 LMSC Policies and Procedures

next 401. Introduction to IEEE 802 LMSC Policies and Procedures

~~411. Advanced Topics in IEEE 802 LMSC Policies and Procedures~~

? 421. IEEE 802 LMSC Financial Policies and Procedures

? = smaller student base; stick with mentoring and classroom training?

10.03　MI　Motion to adopt P&P revision titled 'WG Plenary'　　　　-　Thaler　　　10　　04:20 PM

EC Motion

To approve the proposed P&P revision titled "WG Plenary" as described in the document titled:

➢ 802.0-WG_Plenary_-_LMSC_P&P_Revision_Propose Resolution_060305_r0.doc

Moved: For:
                                          Against:
        2nd: Abstain:

IEEE 802 LMSC Policy and Procedure Revision Ballot
on
WG Plenary Sessions
Proposed Resolution

From: Matthew Sherman, LMSC Vice Chair

To: LMSC Executive Committee   **Date:** 5/20/2006

Duration: -

Purpose: Enable Working Groups to hold Plenary Sessions independent of the rest of the LMSC

Rationale for proposed change:

Numerous individuals have claimed that 'interim' designations at some WG sessions are artificial, and that such sessions should have the same status as LMSC plenary sessions. Being able to designate a WG plenary will simplify quorum requirements at those sessions, allow for faster roll-on / roll-off of membership, and facilitate participation by international members as WG can more easily hold international plenary sessions than the LMSC as a whole.

Editorial instructions are highlighted in Pink.

Proposed Changes:

Empty clauses are unmodified from the current P&P.
This proposed resolution replaces the text in the original ballot completely
        (See file 802.0-WG_Plenary_-_LMSC_P&P_Revision_Ballot_060102_r0.pdf)

7.2.4.2.1   Voting at Meeting

A vote is carried by a 75% approval of those members voting "Approve" and "Do Not Approve". No quorum is required at meetings held in conjunction with the Plenary session since the Plenary session time and place is established well in advance. Likewise, no quorum is required at WG interim sessions provided that their time and place are established and publicly announced at least 11 months in advance and that this information is readily available to the public during that time. A quorum is required at other WG meetings. The WG Chair may vote at meetings. A quorum is at least one-half of the WG members.

Moved: To approve the proposed P&P revision titled "WG Plenary" as described in the document titled:
> **802.0-WG_Plenary_-_LMSC_P&P_Revision_Propose Resolution_060305_r0.doc**

Moved: Pat Thaler/Bob O'Hara

Concerns were expressed about the ability to select interim meeting venues to shape the attendance of the meeting.

Fails: 6/8/1

| 10.04 | MI | Motion to adopt P&P revision titled 'Editorial' | - | Thaler | 10 | 04:43 PM |

Editorial revision

- Decided to re-ballot more 'extensive' changes due to confusion in original ballot
  - Few additions based on recent comment resolutions
- Only seeking approval of text changes in original ballot
  - No known controversy with that text
  - Same text as in January ballot

EC Motion

To approve the proposed P&P revision titled "Editorial" as described in the document titled:

➢ 802.0-Editorial_-
_LMSC_P&P_Revision_Ballot_060102_r0.pdf

Moved: For:
                                                Against:
2nd: Abstain:

IEEE 802 LMSC Policy and Procedure Revision Ballot
2   **on**
3   **Editorial Issues**
4

5   **From:** Matthew Sherman, LMSC Vice Chair
6   **To:**   LMSC Executive Committee   **Date:** 1/1/2006
7

8   **Duration:** Till February 2, 2006
9

10 **Purpose:** Make editorial adjustments to P&P
11

12 **Rationale for proposed change:**
13

14 There are numerous editorial inconsistencies that have crept into the P&P. They include issues such as
15 when to use acronyms such as WG for Working Group, and when to capitalize words such as 'Plenary
16 Session'. Use of the term LMSC, vs IEEE802 is another example where the LMSC P&P is inconsistent.
17 This change would enable editorial clean ups throughout the document that do not change the
18 substantive meaning of the text.
19

20

21 <mark>Editorial instructions are highlighted in Pink.</mark>
22

23

24

25

26

27 **Proposed Changes:**
28

29 <mark>Empty clauses are unmodified from the current P&P.</mark>
30

31

32

33 **8.   LMSC Organization**

34

35 The LAN/MAN Standards Committee (LMSC) has grown significantly from the original IEEE Project
36 802 that was its origin, but because of its roots and the family of standards it has developed; it is also
37 widely known as "IEEE 802" ~~Standards~~. The term<u>s "LMSC" and</u> "LMSC Standards" will be used in
38 these P&P.
39

40 LMSC operates as a sponsor within the IEEE Standards Association, and LMSC has reporting
41 requirements to the Standards Activity Board (SAB) of the IEEE Computer Society (see Figure 1).
42 LMSC is governed by an Executive Committee (EC) and LMSC procedures are designed to minimize
43 overlap and conflict between standards and to promote commonality and compatibility among the
44 family of LMSC standards. LMSC standards are developed within ~~a Working Group~~<u>WG</u> or
45 <u>TAG</u>~~Technical Advisory Group~~ (see Figure 2).

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│                   IEEE Board of Directors                         │
└─────────────────────────────────────────────────────────────────┘
 1
┌──────────────────────────────┐   ┌──────────────────────────────┐
│  IEEE Standards Association   │   │  IEEE Technical Activities    │
│        (IEEE SA)              │   │      Board (IEEE TAB)         │
└──────────────────────────────┘   └──────────────────────────────┘

┌─────────────────────────────────────────────────────────────────┐
│          IEEE Computer Society (IEEE CS)                          │
│   ┌ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ┐        │
│    IEEE CS Standards Activities Board (SAB)                       │
│   └ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ┘        │
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│   ┌───────────────────────────────────────────────────────┐      │
│   │  Project 802 LAN MAN Standards Committee (LMSC)        │      │
│   └───────────────────────────────────────────────────────┘      │
│            ┌──────────────────────────────────────┐              │
│            │  LMSC Executive Committee (EC)        │              │
│            └──────────────────────────────────────┘              │
│     ┌──────────────────────────┐   ┌──────────────────────────┐  │
│     │  Sponsor Balloting Groups │   │ Standards Development    │  │
│     └──────────────────────────┘   │        Groups            │  │
│        ┌──────────────────────┐    └──────────────────────────┘  │
│        │   Ballot Group 1     │                                  │
│        └──────────────────────┘                                  │
│        ┌──────────────────────┐                                  │
│        │   Ballot Group 2     │                                  │
│        └──────────────────────┘                                  │
│2                                                                  │
│3       ┌──────────────────────┐                                  │
│4       │   Ballot Group N     │                                  │
│5       └──────────────────────┘                                  │
└─────────────────────────────────────────────────────────────────┘
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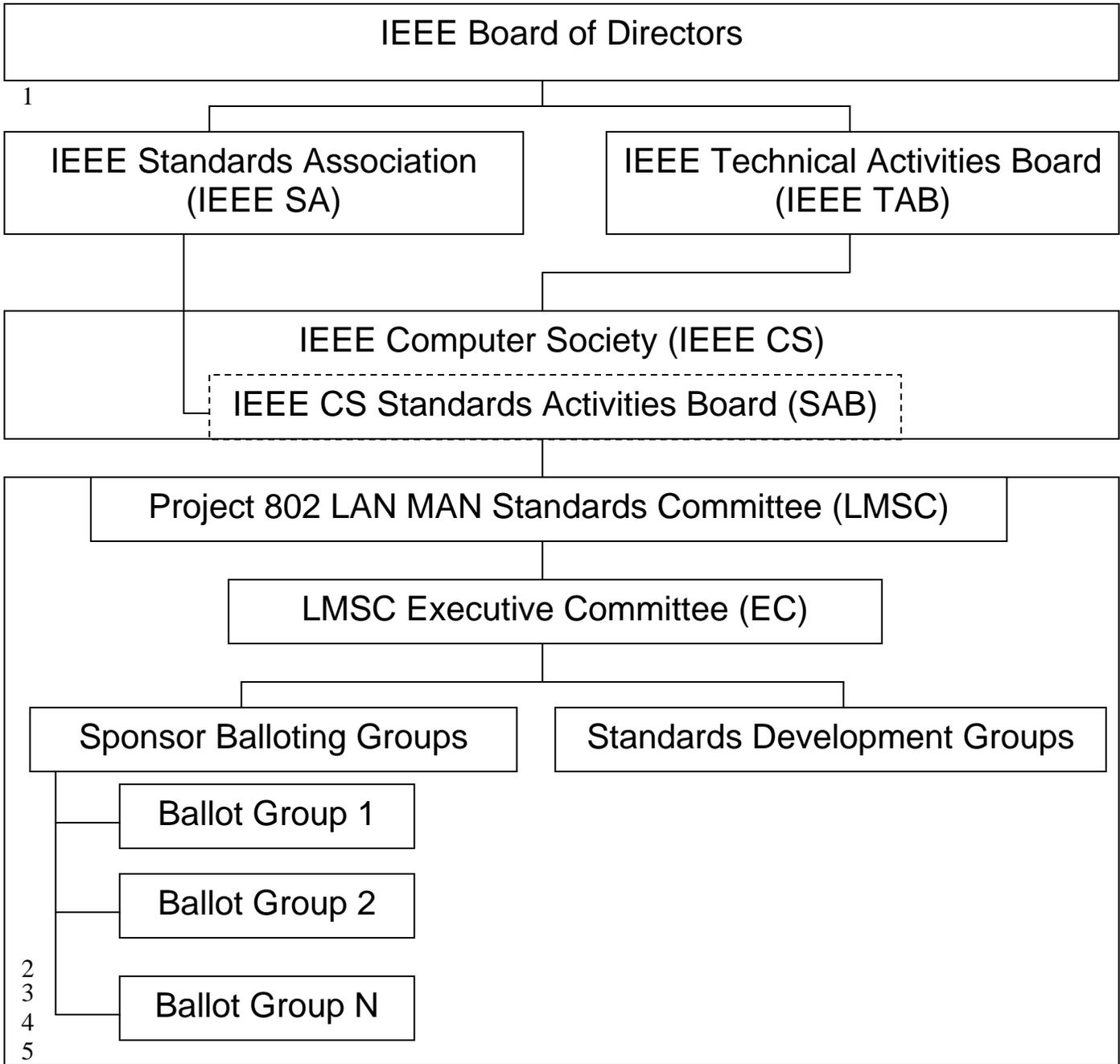
 6   **Figure 1 ~~IEEE PROJECT 802~~LMSC REPORTING RELATIONSHIPS**
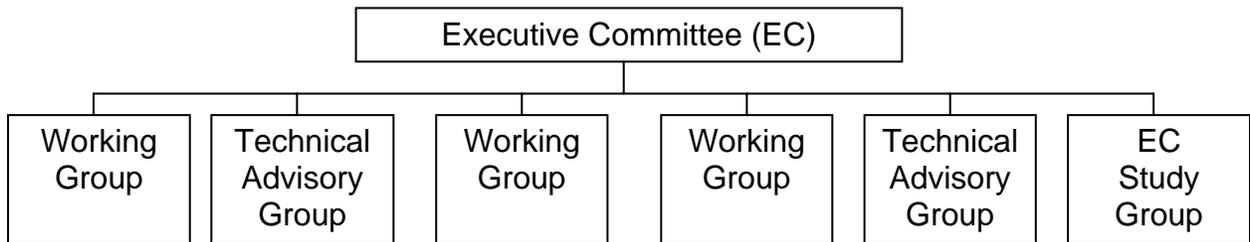
```
                  ┌──────────────────────────────────┐
                  │   Executive Committee (EC)        │
                  └──────────────────────────────────┘
  ┌─────────┐ ┌─────────┐ ┌─────────┐ ┌─────────┐ ┌─────────┐ ┌─────────┐
  │ Working │ │Technical│ │ Working │ │ Working │ │Technical│ │   EC    │
  │  Group  │ │Advisory │ │  Group  │ │  Group  │ │Advisory │ │  Study  │
  │         │ │  Group  │ │         │ │         │ │  Group  │ │  Group  │
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 7

 8   **Figure 2 STANDARDS DEVELOPMENT GROUPS**

 9

10

11

12

Moved: To approve the proposed P&P revision titled "Editorial" as described in the document titled:
- ➢ **802.0-Editorial_-_LMSC_P&P_Revision_Ballot_060102_r0.pdf**

Moved: Pat Thaler/Jerry Upton

Passes: 15/0/0

10.05   MI   Motion to ballot P&P revision titled 'Document Numbers'   -   Thaler   5   04:45 PM

EC Motion

To approve for distribution and executive committee ballot the P&P Revision titled "Document Numbers" as described in the document titled:

802.0-Document_Numbers_-_Proposed_LMSC_P&P_Revision_Ballot_060305_r0.doc

Moved:

2nd:

For:

Against:

Abstain:

From: Matthew Sherman, LMSC Vice Chair

To: LMSC Executive Committee   **Date:** 5/20/2006

Deleted: 3/5/2006

Deleted: 2/9/2006

Duration: -

Purpose: Enable Working Groups to hold Plenary Sessions independent of the rest of the LMSC

Rationale for proposed change:

Numerous individuals have claimed that 'interim' designations at some WG sessions are artificial, and that such sessions should have the same status as LMSC plenary sessions. Being able to designate a WG plenary will simplify quorum requirements at those sessions, allow for faster roll-on / roll-off of membership, and facilitate participation by international members as WG can more easily hold international plenary sessions than the LMSC as a whole.

Editorial instructions are highlighted in Pink.

Proposed Changes:

Empty clauses are unmodified from the current P&P.
This proposed resolution replaces the text in the original ballot completely
        (See file 802.0-WG_Plenary_-_LMSC_P&P_Revision_Ballot_060102_r0.pdf)

7.2.4.2.1   Voting at Meeting

A vote is carried by a 75% approval of those members voting "Approve" and "Do Not Approve". No quorum is required at meetings held in conjunction with the Plenary session since the Plenary session time and place is established well in advance. Likewise, no quorum is required at WG interim sessions provided that their time and place are established and publicly announced at least 11 months in advance and that this information is readily available to the public during that time. A quorum is required at other WG meetings. The WG Chair may vote at meetings. A quorum is at least one-half of the WG members.

Deleted: full

Deleted: three plenary sessions

Deleted: orking Group

Deleted: orking Group

Deleted: orking Group

Deleted: 802.0-WG_Plenary_-_LMSC_P&P_Revision_Propose Resolution_060207_r0.doc

Moved: To approve for distribution and executive committee ballot the P&P Revision titled "Document Numbers" as described in the document titled:

     802.0-Document_Numbers_-_Proposed_LMSC_P&P_Revision_Ballot_060305_r0.doc

Moved: Pat Thaler/Stuart Kerry

Passes: 14/1/0

10.06	DT	**Rules for access to WG email reflectors**	-	**Jeffree**	5	04:50 PM

Tony described that some members have expressed that there are various and curious rules to be able to get on the different WG reflectors. In particular, 802.11 requires 75% attendance at a session before being granted access to the reflector. Tony indicated that 802.1 requires only a request from an individual, before they are granted access.

802.15 allows open access to all reflectors, except that restricted to voting members only.
802.21 requires an email request to obtain access. A voting members reflector is restricted to members only.
802.20 requires only an email to obtain access.
802.3 requires that the requester have attended a meeting within the last year. Task force reflectors are open to anyone.
802.16 reflectors are open to all requests.
802.11 has 15 reflectors. All are restricted to voting members only.
802.22 an email request is required.

Tony will continue the discussion on the reflector.

10.07	MI	**Motion to ballot P&P revision titled '802.11 issues raised'**	-	**Kerry**	5	04:57 PM

IEEE 802 LMSC RESOLUTION

Motion By: KERRY   Seconded By:

– Move to approve for distribution and executive committee ballot the P&P Revision titled "802.11-Issues-Raised" as described in the document titled:

802-11-Issues-Raised.doc

Approve: Do Not Approve: Abstain:

Proposed IEEE 802 LMSC Policy and Procedure Revision Ballot
on
WG Voting Procedures

From: Stuart Kerry, 802.11 Chair
To: LMSC Executive Committee   **Date:** 5/20/2006

Duration: 3/13/2005 - 4/13/2005 @ 11:59 PM EST

Purpose: Clarify WG Chair Function and WG Voting procedures

Rationale for proposed change:

Numerous issues have been raised with our current WG Voting procedures including:

> Numerical vote tallies are required for all matters brought before the EC
> Clarification of what the WG Chair determines for voting issues
> Clarification of the definition of what are "technical" issues.
> Clarification of the ballot form for issues other than submission to letter ballot.

This ballot addresses those issues.

Proposed Change:

Revise the LMSC P&P according to the following revised text (based on the Jan 06 P&P):

.

7.2

.
7.2.3.4 Rights
The rights of the Working Group members include the following:
  a) To receive a notice of the next meeting.
  b) To receive a copy of the minutes.
  c) To vote at meetings if and only if present.
  d) To vote in Working Group Letter Ballots and other electronic ballots.
  e) To examine all Working Draft documents.
  f) To lodge complaints about Working Group operation with the Executive Committee
  g) To petition the Executive Committee in writing; A petition signed by two-thirds of the combined members of all Working Groups forces the Executive Committee to implement the resolution.

7.2.4.3   Chair's Function

The Chair of the Working Group decides non-technical issues but may allow non-technical motions. Technical issues are those that can impact the substance of output documents of the Working Group. The Working Group members and the Chair decide technical issues by vote. The Working Group Chair decides which issues are technical.

7.2.4.2   Voting

7.2.4.2.1 Voting at Meetings

A technical vote is carried by a 75% approval of those members voting "Approve" and "Do Not Approve". Non-technical motions, when allowed, are determined in accordance with parliamentary procedure. No quorum is required at meetings held in conjunction with the Plenary session since the Plenary session time and place is established well in advance. A quorum is required at other Working Group meetings. The Working Group Chair may vote at meetings. A quorum is at least a majority of the Working Group members. Numerical vote tallies must be taken on all Working Group business that requires EC approval.

7.2.4.2.2   Voting by Letter Ballots

The decision to submit a draft standard or a revised standard to the Sponsor Ballot Group shall be ratified by a letter ballot. The Working Group Chair may vote in letter ballots. The letter ballot shall contain three choices:
- Approve. The voter may attach non-binding comments.
- Do Not Approve. The Voter must attach specific comments on what must be done to the draft to change the vote to "Approve".
- Abstain. The voter must include reasons for abstention.

To forward a draft standard or a revised standard to the Executive Committee for approval for Sponsor Ballot Group voting, a letter ballot must be done first within the Working Group. A 75 percent approval of the Working Group letter ballot is necessary with at least 50 percent of the members voting. The 75 percent figure is computed only from the "Approve" and "Do Not Approve" votes. Subsequent confirmation ballots to the Sponsor Ballot Group do not require Executive Committee approval.

The Working Group Chair determines if and how negative votes in an otherwise affirmative letter ballot are to be resolved. Normally, the Working Group meets to resolve the negatives or assigns the task to a ballot resolution group.

There is a recirculation requirement. For guidance on the recirculation process see sub clause 5.4.3.2 Resolution of comments, objections, and negative votes in the *IEEE-SA Standards Board Operations Manual*.

The letter ballot shall be conducted by electronic means. The response time shall be at least thirty days. However, for recirculation ballots the response time shall be at least fifteen days.

Submission of a draft standard or a revised standard to the Executive Committee must be accompanied by any outstanding negative votes and a statement of why these unresolved negative votes could not be resolved.

7.2.4.2.3 Voting by Electronic Ballots
Other matters may also be decided by an electronic ballot at the discretion of the Working Group Chair. The response time for these ballots shall be at least fifteen days.

7.2.4.3   *Working Group Chair's Responsibilities*

The main responsibility of the Working Group Chair is to enable the Working Group to operate in an orderly fashion, produce a draft standard, recommended practice, or guide, or to revise an existing document. Responsibilities include:

a)   Call meetings and issue a notice for each meeting at least four weeks prior to the meeting.
b)   Issue meeting minutes and important requested documents to members of the Working Group, the Executive Committee, and liaison groups.

   The meeting minutes are to include:
   - List of participants
   - Next meeting schedule
   - Agenda as revised at the start of the meeting
   - Voting record (Resolution, Mover / Second, Numeric results)

   Minutes shall be made available within 45 days of the meeting to the attendees of the meeting, all members, and all liaisons.
c)   Maintain liaison with other organizations at the direction of the Executive Committee or at the discretion of the Working Group Chair with the approval of the Executive Committee.
d)   Ensure that any financial operations of the WG comply with the requirements of Section 7.2.6 of these Policies and Procedures.
e)   Speak on behalf of the Working Group to the Executive Committee and, in the case of a "Directed Position", vote the will of the Working Group in accordance with the Directed Position Procedure of this P&P (See subclause 9.1 Procedure for Establishing a Directed Position).
f)   Establish Working Group rules beyond the Working Group rules set down by the Executive Committee. These rules must be written and all Working Group members must be made aware of them.
g)   Assign/unassign subtasks and task leaders (e.g., secretary, subgroup chair, etc.)
h)   Determine if the Working Group is dominated by an organization and, if so, treat that organizations' vote as one, with the approval of the Executive Committee.
i)   Manage letter ballots (see 7.2.4.2.2).

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Deleted: 802-0-WG_Voting_Rules-Proposed_P&P_ballot_resolutions_r2_060308.doc

7.2.4.4   Removal of Working Group Chairs or Vice Chairs

The procedures specified in subclause 7.2.2 (WG Officers) are to be followed under normal circumstances. If a Working Group or TAG feels it is being inappropriately led or significantly misrepresented by its Chair or a Vice Chair and is unable to resolve the issue internal to the Working Group or TAG, then it is the responsibility of that Working Group to make and pass, by 75% of voting members present, a motion to that effect and so notify the 802 Executive Committee with the recommended action and all supporting rationale in written form. The process for removal of committee Chairs, Vice Chairs, and other officers is prescribed in the IEEE Computer Society, Standards Activities Board "SAB Policies and Procedures" subclause 4.8.3.1, Removal of Chairs and Vice Chairs, is included here with relative terminology (e.g., subsidiary committee) translated to LMSC terms (e.g., Working Group).

> The LMSC Executive Committee may remove the Chair or a Vice Chair of a Working Group or TAG for cause.

> The Chair of the LMSC Executive Committee shall give the individual subject to removal a minimum of thirty (30) days written mail notice, with proof of delivery, of a meeting of the LMSC Executive Committee at which the removal is to be decided. The individual subject to removal shall have the opportunity to confront the evidence for removal, and to argue in his or her behalf.

In the clear and documented case of gross misconduct, the Chair of the LMSC Executive Committee may suspend the Chair of a Working Group, with the concurrence of the IEEE Computer Society VP of Standards. A meeting or teleconference of the LMSC Executive Committee shall be convened as soon as practical, but in no case later than thirty (30) days, to review the suspension as provided for above.

Moved: to approve for distribution and executive committee ballot the P&P Revision titled "802.11-Issues-Raised" as described in the document titled:

802-11-Issues-Raised.doc

Moved: Stuart Kerry/Pat Thaler

Stuart and Jerry will manage the ballot.
Stuart and Jerry will run a rules meeting on this topic at the July 2006 plenary session.

The motion was withdrawn with the consent of the members.

| 10.08 | MI | Motion to ballot P&P revision titled 'Editorial 2' | - | Thaler | 5 | 04:47 PM |

This item taken out of order on the authority of the chair.

Editorial revision

- The following motion is to formally ballot Matthew Sherman's more 'extensive' changes submitted as comments on the original ballot titled 'Editorial'
  - Few additions based on recent comment resolutions

EC Motion

To approve for distribution and executive committee ballot the P&P Revision titled "Editorial 2" as described in the document titled:

802.0-Editorial_2_-
  _Proposed_LMSC_P&P_Revision_Ballot_060310_r0.doc

For:

Moved: Against:

2nd: Abstain:

Proposed IEEE 802 LMSC Policy and Procedure Revision Ballot
on
Editorial 2

From: Matthew Sherman, LMSC Vice Chair
To: LMSC Executive Committee   **Date:** 5/20/2006

Duration: Till XXX, 2006

Purpose: Fix assorted Editorial issues (some of which may be interpreted as Substantive)

Rationale for proposed change:

Most of the current change was submitted as comments on last editorial ballot, but due to confusion on what was balloted, were never fully resolved. Will now ballot directly. If some of the changes are considered 'substantive' rather than 'editorial' they should still be considered.

Editorial instructions are highlighted in Pink.

Proposed Changes:

1

IEEE PROJECT 802

LAN MAN STANDARDS COMMITTEE (LMSC)

POLICIES AND PROCEDURES

Revised effective January 4, 2006

TABLE OF CONTENTS

1. Introduction

The IEEE Project 802 (IEEE P802) LAN MAN Standards Committee (LMSC) is the standards sponsor organization and focal point for IEEE Local and Metropolitan Area Network Standards Sponsor activities.

The operation of the LMSC is subject to regulations contained in a number of documents, including these Policies and Procedures (P&P).

The regulating documents are identified in the following list and are given in their order of precedence from highest to lowest. If any two documents in this list contain conflicting regulations, the conflict shall be resolved in favor of the document of higher precedence.

New York State Not-for-Profit Corporation Law
IEEE Certificate of Incorporation
IEEE Constitution
IEEE Bylaws
IEEE Policies
IEEE Financial Operations Manual
IEEE Board of Directors Resolutions
IEEE Standards Association (IEEE-SA) Operations Manual
IEEE-SA Board of Governors Resolutions
IEEE-SA Standards Board Bylaws
IEEE-SA Standards Board Operations Manual
IEEE Computer Society (CS) Constitution
IEEE CS Bylaws
IEEE CS Policies and Procedures Manual (PPM), Section 10
IEEE CS Board of Governors Resolutions
IEEE CS Standards Activities Board Policies and Procedures (SAB P&P)
LMSC Policies and Procedures (LMSC P&P)
Working Group/Technical Advisory Group Policies and Procedures (WG/TAG P&P)

Robert's Rules of Order Newly Revised (latest edition) is the recommended guide for parliamentary matters not covered in the documents identified above.

The order of precedence presented here has been derived from the Model Operating Procedures for IEEE Standards Sponsors developed by the IEEE-SA, augmented by documents identified within the SAB P&P. While both the IEEE-SA, and, IEEE Computer Society (CS) via the IEEE TAB, report to the IEEE Board of Directors independently, for purposes of standards development the CS, via the IEEE CS Standards Activities Board (SAB), acts as a sponsor within the IEEE-SA, and its documents have been placed accordingly in the order of precedence.

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1.1 Common Abbreviations

The following abbreviations are commonly used throughout these P&P.

CS:	IEEE Computer Society
EC:	LMSC Executive Committee
ECSG:	Executive Committee Study Group(s)
IEEE:	Institute of Electrical and Electronics Engineers
SAB:	IEEE CS Standards Activities Board
IEEE-SA:	IEEE Standards Association
IEEE TAB:	IEEE Technical Activities Board
LAN:	Local Area Network
LMSC:	LAN/MAN Standards Committee
MAN:	Metropolitan Area Network
PAR:	Project Authorization Request
P&P:	Policies and Procedures
PAN:	Personal Area Network
RAN:	Regional Area Network
SG:	Study Group(s)
TAG:	Technical Advisory Group(s)
WG:	Working Group(s)
WGSG:	Working Group Study Group(s)

2. LMSC Scope

The scope of the LMSC is to develop and maintain networking standards and recommended practices for local, metropolitan, and other area networks, using an open and accredited process, and to enable and advocate them on a global basis.

3. LMSC Organization

The LMSC has grown significantly from the original IEEE Project 802 that was its origin, but because of its roots and the family of standards it has developed; it is also widely known as "IEEE 802". The terms "LMSC" and "LMSC Standards" will be used in these P&P.

LMSC operates as a sponsor within the IEEE Standards Association, and LMSC has reporting requirements to the Standards Activity Board (SAB) of the IEEE Computer Society (see Figure 1). LMSC is governed by an Executive Committee (EC) and LMSC procedures are designed to minimize overlap and conflict between standards and to promote commonality and compatibility among the family of LMSC standards. LMSC standards are developed within a Working Group (WG) or Technical Advisory Group (TAG) (see Figure 2).

Deleted: Policies and Procedures

Deleted: LMSC:	LAN/MAN Standards Committee¶
EC:	Executive Committee¶
WG:	Working Group¶
IEEE-SA:	IEEE Standards Association¶
TAG:	Technical Advisory Group¶
PAR:	Project Authorization Request¶
MAN:	Metropolitan Area Network¶
LAN:	Local Area Network¶
IEEE:	Institute of Electrical and Electronics Engineers¶
P&P:	Policies and Procedures¶
IEEE CS:	IEEE Computer Society¶
IEEE CS SAB:	IEEE CS Standards Activities Board¶
IEEE TAB:	IEEE Technical Activities Board¶
PAN:	Personal Area Network¶
RAN:	Regional Area Network¶
ECSG:	Executive Committee Study Group¶
WGSG:	Working Group Study Group¶

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│            IEEE Computer Society (IEEE CS)                   │
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│     Project 802 LAN MAN Standards Committee (LMSC)          │
│                                                             │
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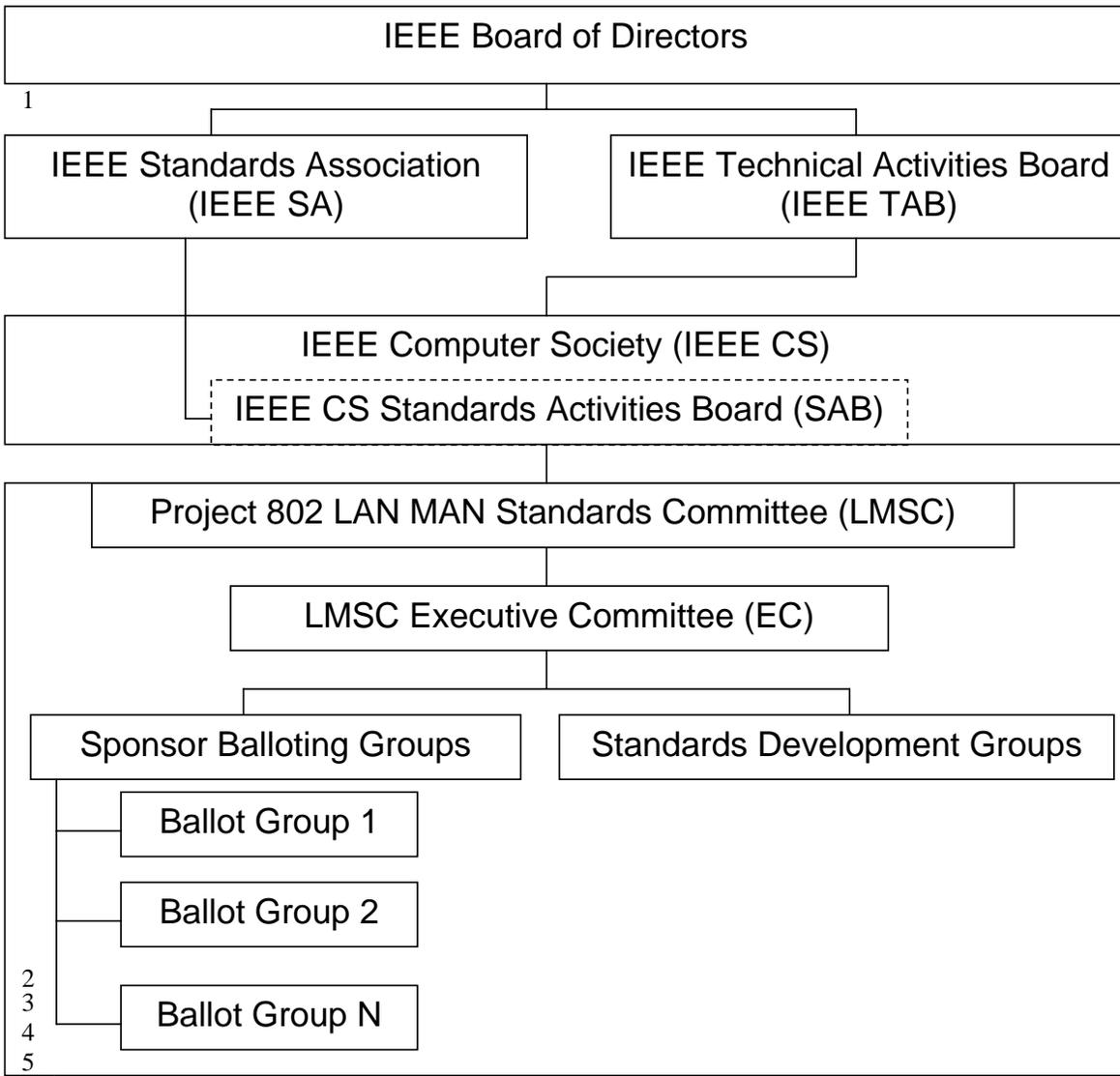
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6 **Figure 1 LMSC REPORTING RELATIONSHIPS**

```
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                 │   Executive Committee (EC)       │
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│ Working │ │Technical │ │ Working │ │ Working │ │Technical │ │   EC    │
│  Group  │ │ Advisory │ │  Group  │ │  Group  │ │ Advisory │ │  Study  │
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7
8 **Figure 2 STANDARDS DEVELOPMENT GROUPS**
9
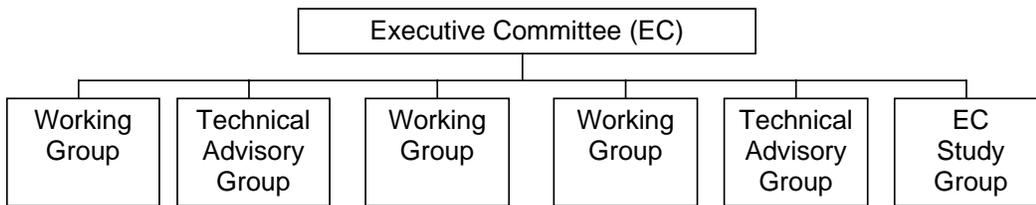
Further details of the organization and officers of the LMSC are provided in section 5 and 7 of this document.

4. Responsibilities of the Sponsor

The LMSC shall be responsible for the following:
a)   Evaluating project proposals and deciding whether or not to generate a PAR
b)   Developing LMSC proposed IEEE standards within its scope
c)   Initiating Sponsor ballots of proposed standards within its scope
d)   Maintaining the active standards developed by the LMSC
e)   Responding to requests for interpretations of the standards developed by the LMSC
f)   Acting on other matters requiring LMSC effort as provided in these procedures
g)   Cooperating with other appropriate standards development organizations
h)   Protecting against actions taken in the name of the LMSC without committee
        authorization

5. Officers

The Chair, Vice Chairs, Executive Secretary, Recording Secretary, and Treasurer of the LMSC EC serve respectively as the Chair, Vice Chairs, Executive Secretary, Recording Secretary, and Treasurer of the LMSC. Further details on the duties of these offices are provided in clause 7.1 of this document. These officers shall be members of any grade of the IEEE and members of the IEEE-SA and shall organize the Sponsor, oversee the committee's compliance with these procedures, and submit proposed standards approved by the balloting group with supporting documentation for IEEE-SA Standards Board review and approval as IEEE standards.

Deleted: Executive Committee

6. Membership

Membership in LMSC is established by establishing membership in one of its defined subgroups (See clause 7 Subgroups Created by the Sponsor).

6.1 Voting Membership

Voting Membership is as defined for each of the subgroups of the LMSC (See clause 7 Subgroups Created by the Sponsor), and as further defined within established P&P of LMSC subgroups.

6.2 Application

Parties interested in participating within LMSC should establish membership in accordance with
the procedures established in this P&P and any subordinate P&P for the LMSC subgroup of
interest. In some cases, membership may be established by application to the chair of a
subgroup, in accordance with this P&P and the P&P of the subgroup of interest.

6.3 Review of Membership

The proper authority for each subgroup shall regularly review membership in the subgroup to
ensure that the membership rules in this P&P and subordinate P&P are enforced.

6.4 Membership Roster

Membership rosters shall be maintained by each WG and TAG in accordance with the P&P of
that WG or TAG.

7. Subgroups Created by the Sponsor

The LMSC organization consists of the EC, the WG and TAG (that develop the draft standards,
recommended practices, and guides), and SG.

7.1 LMSC Executive Committee

The LMSC Executive Committee functions as the Sponsor Executive Committee (SEC) and the
Executive Committee of the standards developing organization. It shall be referred throughout
this document as the Executive Committee (EC).

7.1.1 Function

The function of the EC is to oversee the operation of the LMSC in the following ways:

a) Charter the SG, WG, and TAG.
b) Appoint the initial Chairs of the WG and TAG. (The Chairs of WG and TAG are elected
    by the WG and TAG members themselves.)
c) Provide procedural and, if necessary, technical guidance to the WG and TAG as it relates
    to their charters.
d) Oversee WG and TAG operation to ensure that it is within the scope of Project 802, and
    its established charter.
e) Examine and approve WG draft standards for proper submission to Sponsor ballot group
    (see subclause 9.1); not for technical content.

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f) Consider complaints of WG and TAG members and the resolutions of the plenary, WG, and TAG.

g) Manage the Functional Requirements and other LMSC issues.

h) Handle press releases and other external organization matters.

i) Manage LMSC logistics, i.e., concurrent WG and TAG meetings, finances, etc.

j) Oversee formation of Sponsor ballot groups and Sponsor ballot process.

7.1.2 Membership

The officers of the EC by virtue of their office hold corresponding offices for the LMSC and are referred to by that title. Membership of the EC is composed of the following voting members:

LMSC Chair
The Chair is elected by the EC and confirmed by the Standards Activities Board. Duties include (but are not limited to) overseeing the activities of the LMSC, chairing EC and LMSC plenary meetings, and representing the LMSC at SAB, IEEE-SA Standard Board, and at other organizations as required.

LMSC Vice Chair(s)
The LMSC Chair appoints a (1st) Vice Chair and may appoint a 2nd Vice Chair. Vice Chairs must be confirmed by the EC. In the case of unavailability or incapacity of the Chair, the 1st Vice Chair shall act in the capacity of the Chair.

LMSC Executive Secretary, Recording Secretary, and Treasurer
These positions are appointed by the LMSC Chair and confirmed by the EC.

Chairs of Active WG

Chairs of the TAGs

In addition, the EC includes the following non-voting members:

Chairs of Hibernating WG
Appointed WG or TAG Chairs
Acting positions (prior to the close of the plenary session where appointed or elected)

All appointed and elected positions become effective at the end of the plenary session where the appointment/election occurs. Prior to the end of that plenary session, such persons filling vacancies are considered 'Acting', and do not vote. Persons who are succeeding someone that currently holds the position do not acquire any EC rights until the close of the plenary session. Membership is retained as in WG (see 7.2.3.2 Retention). All members of the EC shall be members or affiliates of The IEEE-SA and either the IEEE or the IEEE Computer Society.

The term for all positions of the EC ends at close of the first plenary session of each even numbered year. Unless otherwise restricted by these P&P or the relevant WG/TAG P&P,

1   individuals may be confirmed for a subsequent term if reappointed or re-elected to the position.
2   Members appointed and affirmed maintain their appointments until the next appointment
3   opportunity unless they resign or are removed for cause.
4
5   The 802 Chair will ensure that those EC members who are not Chairs of active WG have specific
6   areas of interest to cover in order to encourage a wider view to be taken than that specifically
7   covered by the Chairs of active WG.
8
9   Any person to be confirmed by the EC shall, prior to confirmation by the EC, file with the
10 Recording Secretary a letter of endorsement from their supporting entity (or themselves if self
11 supporting). This letter is to document several key factors relative to their participation on the
12 EC and is to be signed by both the EC member and an individual who has management
13 responsibility for the EC member. This letter shall contain at least the following:
14
15 a)   Statement of qualification based on technical expertise to fulfill the assignment
16 b)   Statement of support for providing necessary resources (e.g., time, travel expenses to
17   meetings), and
18 c)   Recognition that the individual is expected to act in accordance with the conditions stated
19   in subclause 7.1.3.1 Voting Guidance dealing with voting "as both a professional and as
20   an individual expert."
21
22 In case an election or appointment is not confirmed by the EC, the person last holding the
23 position will continue to serve until confirmation of an election or appointment are achieved.
24 Should that person be unable or unwilling to serve, succession will proceed to the person who
25 would have succeeded just prior to the election or appointment. If no successor exists, the
26 position may be left vacant, or filled by temporary appointment by the EC Chair.
27

28 **7.1.3 Voting Rules**
29
30 Only members of the EC with voting rights are counted in the approval rate calculation in
31 determining the approval threshold for any EC vote. Unless specified otherwise in these P&P all
32 EC votes are in addition subject to the following provisions: Voting is by simple majority of
33 those voting approve divided by those voting approve or disapprove. The Chair may vote only if
34 his vote can change the outcome. Votes on disciplinary matters concerning EC members must
35 meet a 2/3 approval threshold.
36

37 *7.1.3.1 Voting Guidance*
38
39 It is expected that EC members will vote as both professionals and as individual experts, except
40 under the Directed Position provisions of this P&P, and *not* as a member of any affiliate block
41 (organization, alliance, company, consortium, special interest group, etc.). If substantive
42 evidence is presented to the LMSC Chair that this provision is violated, the EC will meet to
43 consider what, if any, action to take on the presented evidence up to and including suspension of
44 voting rights and removal from office.

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7.1.3.2 EC Quorum Requirements

A Quorum for the purpose of conducting formal business shall be a majority of EC members with voting rights.

7.1.3.3 Voting at Meetings

Except where otherwise noted in this P&P, approval of an EC motion is achieved if a simple majority of EC members approve the motion (approve/(approve + disapprove)). The LMSC Chair only votes if his vote can change the outcome of a vote. Proxy voting is not permitted.

The following actions have exceptional voting requirements:

- Approval of PARs and Drafts for forwarding to IEEE-SA shall require approval by a majority of EC members present with voting rights.

7.1.3.4 Electronic Balloting

At times, it may become necessary for the EC to render a decision that cannot be made prior to the close of one plenary but must be made prior to the opening of the following plenary. Such decisions may be made using electronic balloting. Provision shall be made for the LMSC membership to observe and comment on EC electronic ballots. All comments from those who are not members of the EC shall be considered. Commenters who are not members of the EC are urged to seek an EC voting member (normally their WG or TAG Chair) to include the viewpoint of the commenter in their vote.

The LMSC Chair, or an EC member designated by the Chair (usually a Vice Chair), shall determine the duration of the ballot, issue the ballot by e-mail and tally the votes after the ballot is closed. EC voting members shall return their vote and comments by e-mail.

The minimum duration of an electronic ballot shall normally be 10 days. For urgent matters once sufficient response is received to clearly decide a matter, the Ballot may be closed early. This allows a decision to be reach in less than 10 days. Ballots where the possibility of an early close exists must be clearly marked accordingly. Otherwise, the tally of votes shall not be made until at least 24 hours after the close of the ballot to allow time for delivery of the e-mail votes.

The affirmative vote of a majority of all members of the EC with voting rights is required for an electronic ballot to pass except when specified otherwise by these P&P. If at the end of the ballot insufficient votes have been received to pass the ballot, the ballot fails.

Deleted: Working Group

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7.1.4 Meetings

EC meetings are open to observers. An open discussion or acknowledgement of a request to participate in a particular discussion is determined by the Chair.

7.1.4.1 Procedure for Limiting the Length of the IEEE LSMC EC Meetings

a) The reports from the WG and TAGs should deal primarily with issues related to LMSC as a whole or inter-group coordination. Reports of those items that will be covered in the plenary meeting should be minimized.

b) Roberts Rules of Order shall be used in EC meetings. Issues brought before the EC for resolution by vote should be phrased as a motion and distributed, if possible, to the EC members before the meeting.

c) The maker of the motion, after the motion has been seconded, has up to five minutes to explain the motion and to answer questions about it.

d) Each EC member has two minutes of uninterrupted time to state an opinion about the motion. It is not necessary that all two minutes be used.

e) Motions needing concurrence of the WG will be tabled for review at the next EC meeting.

f) The opening EC meeting shall start at 8:00 a.m. and end no later than 10:30 a.m. on Monday morning and the closing EC meeting shall start at 1:00 p.m. and shall end no later than 6:00 p.m. on Friday of the plenary session.

g) If the EC so modifies a WG's motion that the WG Chair believes the WG membership may no longer support the revised motion then the WG should be given the opportunity to reconsider what action it wishes to take and present it to the EC at the next EC meeting. This action can be accomplished by a Privileged Non-debatable "Request to Defer Action" made by the affected WG Chair which will automatically cause all action on the motion to be deferred until the end of the next regular EC meeting.

7.1.5 Revision of the LMSC P&P

These P&P may be changed as described in this subclause.

7.1.5.1 Initiation of Proposed P&P Revisions

Proposed changes shall be in written form and include:

a) The objective of the proposed change.
b) The specific text of the proposed change and the rationale for the chosen text.

Proposed changes may be created by:

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a) Any active WG or TAG. A proposal shall require the affirmative vote of at least three fourths of the members present when the vote is taken. Quorum requirements shall be as specified in subclause 7.2.4.2 (Voting).

b) Any EC Member.

Writers of proposed changes are encouraged to seek the advice of experienced members of the EC to help form the wording in a manner appropriate for and consistent with these P&P.

7.1.5.2 EC Action on Proposed Changes to these P&P

The proposed P&P revision shall be presented at an EC meeting in conjunction with a plenary session.

Approval for Distribution and EC Ballot shall require the affirmative vote of at least two-thirds of Committee members with voting rights who vote to approve or disapprove and will result in the distribution of the proposal and an EC electronic ballot on the P&P revision.

7.1.5.3 Distribution and EC Ballot

EC ballots on P&P Revisions shall be at least 30 days in duration and shall close at least 30 days before the opening of the next plenary session (to allow time for comment resolution). Distribution of ballots on P&P revisions to the LMSC membership shall be accomplished as provided by subclause 7.1.3.4.

7.1.5.4 LMSC Approval

After distribution of a proposed P&P Revision and an EC electronic ballot has been conducted, the EC member designated in accordance with subclause 7.1.3.4 shall tabulate the ballot results, attempt to resolve the comments, and present the comments and proposed resolution at an EC meeting in conjunction with a plenary session.

LMSC approval of the revised text of the proposed P&P revision shall require the affirmative vote of at least two-thirds of all EC members with voting rights (regardless of whether they are present). The vote shall be taken at a plenary closing EC meeting. LMSC approval will result in the change becoming effective at the end of plenary session during which approval is voted. The revised P&P shall be forwarded to the SAB and the IEEE-SA Audit Committee (AudCom).

If LMSC approval is not achieved, the proposed revision is rejected, and may not be considered again until a future session. P&P revisions become effective at the end of the plenary session at which they are approved. An up-to-date LMSC P&P should be maintained on the IEEE 802 website.

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7.1.5.5 Editorial discretion

In some circumstances minor revisions may be made to the LMSC P&P without a revision
ballot. These circumstances include

- Basic layout/formatting that does not change the meaning of any of the text
- Correction of spelling and punctuation
- Error in implementing approved changes

All other LMSC P&P revisions must be balloted in accordance with the process defined in
subclause 7.1.6. If any voting member of the EC protests an editorial change of the P&P within
30 days of its release, that editorial change will be without effect.

7.1.6 Appeal and complaint process

A significant attempt should be made to resolve concerns informally, since it is recognized that a
formal appeals process has a tendency to negatively, and sometimes permanently, affect the
goodwill and cooperative relationships between and among persons. If the informal attempts to
resolve a concern are unsuccessful and a formal complaint is filed, the following formal
procedure shall be invoked.

7.1.6.1 Appeals pool

The appeals pool consists of:

a)   Current members in good standing of the EC who have attended both the opening and
        closing EC meetings at two of the last four plenary sessions.
b)   Former members of the EC who are members in good standing of an active WG/TAG
        having qualified for member status through attendance.
c)   Current WG/TAG Vice Chairs confirmed by the EC who are members in good standing
        of an active WG/TAG having qualified for member status through attendance.

7.1.6.2 Appeal brief

The appellant shall file a written appeal brief with the LMSC Recording Secretary within 30 | **Deleted:** EC
days after the date of notification/occurrence of an action or at any time with respect to inaction.
The appeal brief shall state the nature of the objection(s) including any resulting adverse effects,
the clause(s) of the procedures or the standard(s) that are at issue, actions or inaction that are at
issue, and the specific remedial action(s) that would satisfy the appellant's concerns. Previous
efforts to resolve the objection(s) and the outcome of each shall be noted. The appellant shall
include complete documentation of all claims in the appeal brief. Within 20 days of receipt of the
appeal brief, the LMSC Recording Secretary shall send the appellant a written acknowledgment | **Deleted:** EC

of receipt of the appeal brief, shall send the appellee (the Chair of the WG at issue or the LMSC Chair) a copy of the appeal brief and acknowledgment, and shall send the parties a written notice of the time and location of the hearing ("hearing notice") with the appeals panel. The hearing with the appeals panel shall be scheduled at the location set for, and during the period of, the first LMSC plenary session (nominally Wednesday evenings) that is at least 60 days after mailing of the hearing notice by the LMSC Recording Secretary.

7.1.6.3 Reply brief

Within 45 days after receipt of the hearing notice, the appellee should send the appellant and LMSC Recording Secretary a written reply brief, specifically addressing each allegation of fact in the appeal brief to the extent of the appellee's knowledge. The appellee shall include complete documentation supporting all statements contained in the reply brief.

7.1.6.4 Appeals Panel

The IEEE 802 EC Chair shall appoint from the appeals pool an appeals panel consisting of a chair and two other members of the panel who have not been directly involved in the matter in dispute, and who will not be materially or directly affected by any decision made or to be made in the process of resolving the dispute. At least two members shall be acceptable to the appellant and at least two shall be acceptable to the appellee. If the parties to the appeal cannot agree on an appeals panel within a reasonable amount of time, the whole matter shall be referred to the full EC for Consideration.

7.1.6.5 Conduct of the Hearing

The hearing shall be open except under the most exceptional circumstances and at the discretion of the EC chair. The appellant has the burden of demonstrating adverse effects, improper actions or inaction, and the efficacy of the requested remedial action. The appellee has the burden of demonstrating that the committee took all actions relative to the appeal in compliance with its procedures and that the requested remedial action would be ineffective or detrimental. Each party may adduce other pertinent arguments, and members of the appeals panel may address questions to individuals before the panel. The appeals panel shall only consider documentation included in the appeal brief and reply brief, unless

a)   Significant new evidence has come to light; and
b)   Such evidence reasonably was not available to the appellant or appellee, as appropriate, at the time of filing; and
c)   Such evidence was provided by the appellant or appellee, as appropriate, to the other parties as soon as it became available.

This information shall be provided at least two weeks before the date of the appeals panel hearing.

The rules contained in the current edition of *Robert's Rules of Order Newly Revised (latest edition)* shall apply to questions of parliamentary procedure for the hearing not covered herein.

7.1.6.6 Appeals Panel Decision

The appeals panel shall render its decision in writing within 30 days of the hearing, stating findings of fact and conclusions, with reasons there for, based on a preponderance of the evidence. Consideration may be given to the following positions, among others, in formulating the decision:

a)   Finding for the appellant, remanding the action to the appellee, with a specific statement of the issues and facts in regard to which fair and equitable action was not taken;

b)   Finding against the appellant, with a specific statement of the facts that demonstrate fair and equitable treatment of the appellant and the appellant's objections;

c)   Finding that new, substantive evidence has been introduced, and remanding the entire action to the appropriate group for reconsideration.

7.1.6.7 Request for Re-hearing

The decision of the appeals panel shall become final 30 days after it is issued, unless one of the parties files a written notice of request for re-hearing prior to that date with the LMSC Recording Secretary, in which case the decision of the appeals panel shall be stayed pending review by the EC at its next meeting. At that time, the EC shall decide

a)   To adopt the report of the appeals panel, and thereby deny the request for re-hearing; or

b)   To direct the appeals panel to conduct a re-hearing.

Further complaints if a re-hearing is denied shall be referred to the Computer Society SAB.

7.1.6.8 Further Appeals

Appeals and complaints concerning EC decisions shall be referred to the Computer Society SAB.

7.2 LMSC WG

If the IEEE-SA Standards Board approves a PAR, forwarded by the LMSC, that assigns the work to a new LMSC WG, that WG immediately comes into existence.

7.2.1 Function

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The function of the WG is to produce draft standards, recommended practices or guides. This document must be within the scope of the LMSC, the scope of the WG as determined by the EC and an approved PAR or a PAR approved by the EC that is under consideration by the IEEE-SA Standards Board. After the approval of a WG's standard, the WG is responsible to revise and maintain its documents.

The WG should periodically review and confirm that the five criteria used to approve its PAR still reflect the state of the project. Should a WG need to modify the responses to the five criteria during development in order to accurately reflect the state of the project, the modified responses shall be submitted to the EC for approval.

7.2.2 WG Officers

LMSC WG Chairs and Vice Chairs shall be elected by the WG and confirmed by the LMSC EC. Terms shall end at the end of the first plenary session of the next even numbered year. WG Chairs must also be members of any grade of the IEEE and members of the IEEE-SA.

Initial appointments and temporary appointments to fill vacancies due to resignations or removals for cause, may be made by the Chair of the LMSC, and shall be valid until the end of the next plenary session.

An individual who has served as Chair or Vice Chair of a given WG for a total of more than eight years in that office may not run for election to that office again, unless the question of allowing that individual to run for election again is approved by a 75% vote of the WG one plenary in advance of that election.

A WG may elect a new Chair at any plenary session, subject to confirmation by the LMSC EC. A motion to hold an election must be passed by 75% of the voting members of the WG present.

7.2.3 Membership

Membership belongs to the individual, not an organization, and may not be transferred.

7.2.3.1 Establishment

All persons participating in the initial meeting of the WG become members of the WG. Thereafter, membership in a WG is established by participating in the meetings of the WG at two out of the last four plenary sessions, and (optionally) a letter of intent to the Chair of the WG. Participation is defined as at least 75% presence at a meeting. Membership starts at the third plenary session attended by the participant. One duly constituted interim WG or Task Group meeting may be substituted for the WG meetings at one of the two plenary sessions (See subclause 7.2.3.5 Meetings and Participation).

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Attendees of the WG who have not achieved member status are known as observers. Liaisons are those designated individuals who provide liaison with other working groups or standards bodies.

Although not a requirement for membership in the WG, participants are encouraged to join the IEEE, IEEE Standards Association (IEEE-SA) and the IEEE Computer Society. Membership in the IEEE SA will also allow participants to join the sponsor level ballot group. WG members shall participate in the consensus process in a manner consistent with their professional expert opinion as individuals, and not as organizational representatives.

Membership may be declared at the discretion of the WG Chair (e.g. for contributors by correspondence or other significant contributions to the WG).

7.2.3.2 Retention

Membership is retained by participating in at least two of the last four plenary session meetings. One duly constituted interim WG or task group meeting may be substituted for one of the two plenary meetings.

7.2.3.3 Loss

Membership may be lost if two of the last three WG letter ballots are not returned, or are returned with an abstention other than "lack of technical expertise." This rule may be excused by the WG Chair if the individual is otherwise an active participant. Membership may be re-established as if the person were a new candidate member.

7.2.3.4 Rights

The rights of the WG members include the following:

a)   To receive a notice of the next meeting.
b)   To receive a copy of the minutes.
c)   To vote at meetings if and only if present.
d)   To vote in WG Letter Ballots.
e)   To examine all Working Draft documents.
f)   To lodge complaints about WG operation with the EC.
g)   To petition the EC in writing. (A petition signed by two-thirds of the combined members of all WG forces the EC to implement the resolution.)

7.2.3.5 Meetings and Participation

WG meetings are open to anyone who has complied with the registration requirements (if any) for the meeting. Only members have the right to participate in the discussions. The privilege of observers to participate in discussions may be granted by the WG Chair.

7.2.4 Operation of the WG

The operation of the WG has to be balanced between democratic procedures that reflect the desires of the WG members and the WG Chair's responsibility to produce a standard, recommended practice, or guide in a reasonable amount of time. *Robert's Rules of Order Newly Revised* (latest edition) is the reference for parliamentary procedures.

If, in the course of standards development, any WG utilizes a standard developed or under development by another organization within Project 802, by another IEEE group, or by an external organization, the WG shall reference that standard and not duplicate it.

If a standard cannot be utilized as is and modifications or extensions to the standard are necessary, the WG should:

a)   Define the requirements for such changes,
b)   Make these requirements known to the other organization, and
c)   Solicit that organization for the necessary changes.

Only if the required changes cannot be obtained from the other organization, can the WG, with the concurrence of the EC, develop these changes itself. Even in the latter case, the WG should seek the concurrence of the other organization by joint meetings, joint voting rights, or other mechanisms on the changes being made.

7.2.4.1 Chair's Function

The Chair of the WG decides procedural issues. The WG members and the Chair decide technical issues by vote. The WG Chair decides what is procedural and what is technical.

7.2.4.2 Voting

There are two types of votes in the WG. These are votes at meetings and votes by letter ballot.

7.2.4.2.1 Voting at Meeting

A vote is carried by a 75% approval of those members voting "Approve" and "Do Not Approve". No quorum is required at meetings held in conjunction with the plenary session since the plenary session time and place is established well in advance. A quorum is required at other

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WG meetings. The WG Chair may vote at meetings. A quorum is at least one-half of the WG members.

7.2.4.2.2 Voting by Letter Ballots

The decision to submit a draft standard or a revised standard to the Sponsor Ballot Group must be ratified by a letter ballot. Other matters may also be decided by a letter ballot at the discretion of the WG Chair. The WG Chair may vote in letter ballots.

The ballot shall contain three choices:

- Approve. (May attach non-binding comments.)
- Do Not Approve. (Must attach specific comments on what must be done to the draft to change the vote to "Approve".)
- Abstain. (Must include reasons for abstention.)

To forward a draft standard or a revised standard to the EC for approval for Sponsor Ballot Group voting, a letter ballot (or confirmation letter ballot) must be done first within the WG. A 75 percent approval of the WG confirmation letter ballot is necessary with at least 50 percent of the members voting. The 75 percent figure is computed only from the "Approve" and "Do Not Approve" votes. Subsequent confirmation ballots to the Sponsor Ballot Group do not require EC approval.

The WG Chair determines if and how negative votes in an otherwise affirmative letter ballot are to be resolved. Normally, the WG meets to resolve the negatives or assigns the task to a ballot resolution group.

There is a recirculation requirement. For guidance on the recirculation process see subclause 5.4.3.2 Resolution of comments, objections, and negative votes in the *IEEE-SA Standards Board Operations Manual*.

The letter ballot shall be conducted by electronic means. The response time shall be at least thirty days. However, for recirculation ballots, and for letter ballots not related to the submission of draft standards, the response time shall be at least fifteen days.

Submission of a draft standard or a revised standard to the EC must be accompanied by any outstanding negative votes and a statement of why these unresolved negative votes could not be resolved.

7.2.4.2.3 Roll Call Votes

A roll call vote may be held at the discretion of the chair.

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1   A roll call vote may be called for by any member of the group, without obtaining the floor, at
2   any time after the question has been put, even after the vote has been announced and another has
3   the floor and it is called for before another motion has been made. The call does not require a
4   second, and cannot be debated, amended, or have any other subsidiary motion applied to it.
5
6   Upon a call for a roll call vote, the chair shall proceed according to these three options.
7
8   a)   The chair may hold the vote
9   b)   The chair may hold a vote on the question of whether to hold a roll call vote. This vote
10   must achieve greater than 25% of the members voting Yes to pass. The 25% is counted
11   by dividing the count of Yes votes by the sum of the Yes and No votes. This vote is not
12   subject to a roll call vote.
13 c)   The chair may refuse the request for a roll call vote if this privilege is being abused by
14   members repeatedly calling for a roll call vote. The chair shall allow both the majority
15   and minority reasonable and fair use of the roll call vote.
16
17 Each roll call vote and call for a roll call vote shall be recorded in minutes of the meeting. For
18 each roll call vote, the minutes shall include each member's name, their vote and the final result
19 of the vote. For each call for a roll call vote, the minutes shall include:
20
21 i.   The name of the requestor of the roll call vote.
22 ii.   The decision of the chair on the request and, when applicable, the results of the vote on
23   whether to hold the roll call or the reasons of the chair for denying the roll call vote.
24
25
26

27 *7.2.4.3 WG Chair's Responsibilities*

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29 The main responsibility of the WG Chair is to enable the WG to operate in an orderly fashion,
30 produce a draft standard, recommended practice, or guide, or to revise an existing document.
31 Responsibilities include:

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33 a)   Call meetings and issue a notice for each meeting at least four weeks prior to the meeting.
34 b)   Issue meeting minutes and important requested documents to members of the WG, the
35   EC, and liaison groups.

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37   The meeting minutes are to include:
38   • List of participants
39   • Next meeting schedule
40   • Agenda as revised at the start of the meeting
41   • Voting record (Resolution, Mover / Second, Numeric results)

42

43   Minutes shall be made available within 45 days of the meeting to the attendees of the
44   meeting, all members, and all liaisons.

c) Maintain liaison with other organizations at the direction of the EC or at the discretion of the WG Chair with the approval of the EC.

d) Ensure that any financial operations of the WG comply with the requirements of Section 7.2.6 of these P&P.

e) Speak on behalf of the WG to the EC and, in the case of a "Directed Position", vote the will of the WG in accordance with the Directed Position Procedure of this P&P (See subclause 9.1 Procedure for Establishing a Directed Position).

f) Establish WG rules beyond the WG rules set down by the EC. These rules must be written and all WG members must be aware of them.

g) Assign/unassign subtasks and task leaders (e.g., secretary, subgroup chair, etc.)

h) Determine if the WG is dominated by an organization and, if so, treat that organizations' vote as one (with the approval of the EC).

i) Manage balloting of projects (see 7.2.4.2.2).

7.2.4.4 Removal of WG Chairs or Vice Chairs

The procedures specified in subclause 7.2.2 (WG Officers) are to be followed under normal circumstances. If a WG or TAG feels it is being inappropriately led or significantly misrepresented by its Chair or a Vice Chair and is unable to resolve the issue internal to the WG or TAG, then it is the responsibility of that WG to make and pass (75% of voting members present required) a motion to that effect and so notify the EC with the recommended action and all supporting rationale in written form. The process for removal of committee Chairs, Vice Chairs, and other officers is prescribed in the SAB P&P subclause 4.8.3.1, Removal of Chairs and Vice Chairs, is included here with relative terminology (e.g., subsidiary committee) translated to LMSC terms (e.g., WG).

The EC may remove the Chair or a Vice Chair of a WG or TAG for cause.

The Chair of the EC shall give the individual subject to removal a minimum of thirty (30) days written mail notice, with proof of delivery, of a meeting of the EC at which the removal is to be decided. The individual subject to removal shall have the opportunity to confront the evidence for removal, and to argue in his or her behalf.

In the clear and documented case of gross misconduct, the Chair of the EC may suspend the Chair of a WG, with the concurrence of the IEEE Computer Society VP of Standards. A meeting or teleconference of the EC shall be convened as soon as practical, but in no case later than thirty (30) days, to review the suspension as provided for above.

7.2.4.5 Precedence of Operating Rules

If WG operation conflicts with the LMSC P&P, then the LMSC P&P shall take precedence.

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7.2.5 Deactivation of WG

If the WG has produced standards or recommended practices, the WG should be hibernated. The EC may deactivate a WG if it has not produced standards or recommended practices.

7.2.5.1 Hibernation of a WG

A WG can be hibernated at the request of the WG chair and the approval of the EC. The hibernating WG can be returned to active status by the EC.

If at least 50% of the most recent membership roster attends the plenary session where the WG is reactivated, the membership shall be comprised of that roster, and the normal rules for gaining and losing membership will apply. If less than 50% of the membership attends, the procedure for developing membership in a new WG shall be followed.

7.2.5.1.1 Core of Experts

The chair of a hibernating WG shall maintain a list of experts that are available to answer questions and provide clarification about the standards and/or recommended practices generated by the WG.

7.2.5.1.2 Inquiries/Interpretations

Inquiries and interpretations of standards and recommended practices that were generated by a hibernating WG shall be directed to the chair of the hibernating WG. The chair shall attempt to resolve the inquiry or interpretation using the core of experts, as necessary. If the chair is unable to resolve the inquiry or interpretation, the chair may petition the EC to activate the WG.

7.2.5.1.3 EC Representation

Hibernating WG Chairs become non-voting members of the EC after their WG enters hibernation. The LMSC Chair may appoint new non-voting hibernating WG chairs to replace vacancies as soon as practical, subject to confirmation by the EC at the next plenary meeting. A non-voting Hibernating WG Chair of the EC shall be recognized as a full member of the EC, having all rights and meeting privileges except the right of voting on EC motions.

7.2.5.2 Disbanding a WG

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After all standards, recommended practices, and Technical Reports for which a hibernating WG is responsible are withdrawn or transferred to another group or groups, an EC electronic ballot of 30 days minimum duration will be conducted to determine whether the hibernating WG will be disbanded.

If the EC electronic ballot on disbanding the group passes, the WG is disbanded. If the ballot fails, then the EC Chair shall determine a future date when the disbanding of the group will be reballoted.

7.2.6 WG Financial Operations

A WG may wish or need to conduct financial operations in order for it to host interim sessions for itself or one or more of its sub groups or to acquire goods and/or services that it requires for its operation.

A WG that claims any beneficial interest in or control over any funds or financial accounts whose aggregate value is $500 or more is determined to have a treasury and said to be "operating with treasury".

A WG may operate with treasury only if it requests permission and is granted permission by the LMSC EC to operate with treasury and thereafter complies with the rules of this subclause. The WG request to operate with treasury shall be supported by a motion that has been approved by the WG. The WG may, again by WG approved motion, surrender EC granted permission to operate with treasury. The LMSC EC may withdraw permission for a WG to operate with treasury for cause.

A WG sub group shall not operate with treasury.

7.2.6.1 WG Financial Operation with Treasury

The financial operations of a WG operating with treasury shall comply with the following rules.

a)   The WG shall conduct its financial operations in compliance with all IEEE, IEEE-SA, and IEEE Computer Society rules that are applicable to the financial operations of standards committees. As of January 2005, the documents containing these rules include, but are not limited to, the following:

- IEEE Policies, Sections 11 IEEE Financial Matters and 12.6 Contracts with Exclusive Rights
- IEEE Financial Operations Manual (FOM), Sections FOM.3 Asset/Liability Management and FOM.8 Contract and Purchasing Orders
- Computer Society Policies and Procedures Manual, Section 16.7.1 Checking Accounts

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b) The WG shall have a Treasurer who is responsible to the WG Chair for the operation of the WG treasury, for ensuring that the operation of the WG treasury and the WG financial accounts complies with these P&P and follows prudent financial procedures.

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c) The WG shall have an Executive Committee (WG EC) comprised of, at minimum, the WG Chair, Vice Chairs, Secretaries, and Treasurer. The WG Chair shall be the Chair of the WG EC.

d) The WG shall open and maintain a WG bank account whose title shall begin with "IEEE" followed by the numerical identity of the WG (e.g., IEEE 802.1). The LMSC Chair shall be an authorized signer for the account. The LMSC Treasurer shall be notified within 30 days of the bank, account number, account title, and authorized signers for the account when the account is opened and whenever any of these items change.

e) The WG may open and maintain one or more WG merchant accounts for the settlement of credit card transactions. The title of each merchant account shall begin with "IEEE" followed by the numerical identity of the WG (e.g., IEEE 802.1). Each WG merchant account shall be linked to the WG bank account. The LMSC Treasurer shall be notified within 30 days of each merchant account, account number, and account title when the account is opened and whenever any of these items change.

f) All funds collected and/or received by a WG shall be deposited in the WG bank account.

g) All funds retained by a WG shall be held in the WG bank account or in IEEE approved investments.

h) The WG may disburse and/or retain funds as appropriate to pay approved expenses and maintain an approved operating reserve.

i) Signature authority for any WG financial account is restricted to those IEEE, IEEE-SA, and Computer Society officers and/or staff that are required to have signature authority by IEEE, IEEE-SA, and Computer Society regulations; to LMSC officers and to the officers of the WG owning the account, with the sole exception that, at most, two other individuals may be granted signature authority for the WG bank account for the sole purpose of assisting the WG in conducting its financial operations, provided that each such individual has provided agreements, indemnity, and/or bonding satisfactory to the IEEE. The granting of signature authority to any individual other than the WG Treasurer and those required by IEEE, IEEE-SA, Computer Society, or LMSC regulations shall be by motion that is approved by the WG.

j) The WG shall prepare and maintain its own accounting and financial records.

k) The WG Treasurer shall prepare for each WG plenary session a financial report that summarizes all of the WG financial activity since the last such report. The report shall be submitted to the LMSC Treasurer before the opening of the session, shall be presented to WG membership at the opening plenary meeting of the session, and shall be included in the session minutes. The format and minimum content of the report shall be as specified by the LMSC Treasurer.

l) The WG Treasurer shall prepare and submit an audit package for each calendar year during any portion of which the WG operated with treasury, as required by IEEE regulations. The package shall contain all material required by IEEE Audit Operations for an IEEE audit and shall be submitted to the IEEE for audit or to the LMSC Chair for

1   local audit, as required by IEEE audit regulations. If the package is submitted to the
2   IEEE, a summary of the WG's financial operations for the audit year shall be submitted
3   to the LMSC Chair at the same time that the audit package is submitted to the IEEE. The
4   format and minimum content of the summary shall be as specified by the LMSC
5   Treasurer.
6 m) The maximum and minimum size of the WG operating reserve may be set by the LMSC
7   EC.
8 n) All WG expenditures require the approval of the WG EC, with the sole exception that
9   each WG EC member may be reimbursed from the WG treasury for up to $200 of WG
10   expenses incurred between WG sessions without specific approval of the WG EC.
11 o) The location, date, and fees for each interim session hosted or co-hosted by the WG
12   require the approval of the WG EC.
13 p) For each interim session hosted or co-hosted by the WG, all reasonable and appropriate
14   direct expenses for goods and/or services for the session that are provided under
15   contract(s) and/or agreement(s) that are exclusively for that interim session are approved
16   when the WG EC approves the location, date, and fees for the session.
17 q) Any contract and/or agreement to which the WG is a party, whose total value is greater
18   than $5000 and that is not for goods and/or services exclusively for a single interim
19   session hosted or co-hosted by the WG, requires the approval of the WG EC and the
20   LMSC EC before execution.
21 r) The WG shall maintain an inventory of each item of equipment that it purchases that has
22   a useful life of greater than 6 months and purchase price of greater than $50. A copy of
23   the inventory shall be provided to the LMSC Treasurer during December of each year.
24

25 *7.2.6.2 WG Financial Operation with Joint Treasury*

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27 Two or more WG(s) and/or TAG(s), with the approval of the LMSC EC, may operate with a
28 single joint treasury. WG(s) and/or TAG(s) that operate with a joint treasury shall have no other
29 treasury. The merger of separate WG/TAG treasuries into a joint treasury or the splitting of a
30 joint treasury into separate WG/TAG treasuries requires approval of the LMSC EC. Each such
31 action shall be supported by a motion from each of the involved WG(s) and/or TAG(s) that
32 requests the action and that has been approved by the WG/TAG.
33
34 The operation of a joint treasury is subject to the same rules as a WG operating with treasury
35 with the following exception: The Executive Committee over seeing the joint treasury shall be a
36 Joint Executive Committee that is the union of the Executive Committees of the WG(s)/TAG(s)
37 operating with the joint treasury. The Chair of the Joint EC shall be selected by the Joint
38 Executive Committee and shall be the Chair of one of the participating WG(s)/TAG(s).
39

40 ## 7.3 LMSC Technical Advisory Groups (TAGs)

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42 The function of a TAG is to provide assistance to WG and/or the EC. The TAGs operate under
43 the same rules as the WG, with the following exceptions:
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a)   A TAG may not write standards, but may write recommended practices and guides, and documents on specialty matters within the purview of the TAG.

b)   A TAG is established by the EC at the request of one or more WG, or at the discretion of the EC, to provide assistance within a technical topic area.

c)   The primary responsibility of a TAG is to provide assistance within its topical area as specifically requested by one or more of the WG and/or the EC.

d)   The decision to submit a draft recommended practice or draft guide to Sponsor Ballot Group voting shall be governed by the same rules as those governing the submission of a draft standard (see subclause 7.2.4.2.2 Voting by Letter Ballots).

e)   Any document that is represented as the position of a TAG must have attained approval per the voting procedures in subclause 7.2.4.2.

f)   Between plenary and interim meetings, the Chair of the TAG is empowered to schedule teleconference meetings to allow the TAG to conduct business as required, provided that the date and time of the teleconference and agenda are published on the TAG website and e-mail reflector at least 5 calendar days before the meeting.

g)   Votes on TAG documents other than recommended practices and guides may be conducted verbally during teleconference meetings if a majority of the TAG members are present.

h)   Votes on TAG documents other than recommended practices and guides may be conducted via electronic balloting. The minimum ballot period shall be 5 calendar days.

i)   A TAG shall maintain an area on the LMSC web site to post the minutes, conference announcements, submissions, drafts, and output documents.

j)   A TAG shall maintain an e-mail distribution list of its members for making the announcements of teleconferences and availability of important information on the TAG's web site pages.

7.4 Study Groups

Study groups are formed when enough interest has been identified for a particular area of study, such as a new access method or modified use of an existing access method. Two types of Study Groups are specified:

a)   An Executive Committee Study Group (ECSG) is initiated by vote of the EC and the ECSG Chair is appointed and approved by the EC. The ECSG Chair has the same responsibilities as a WG Chair as specified in subclause 7.2.4.1 but does not have EC voting rights.

b)   A Working Group Study Group (WGSG) is initiated by vote of the WG or TAG and approved by the EC. The WGSG Chair is appointed and approved by the WG or TAG.

The Study Group shall have a defined task with specific output and a specific time frame established within which it is allowed to study the subject. It is expected that the work effort to develop a PAR will originate in an ECSG or WGSG. A Study Group shall report its recommendations, shall have a limited lifetime, and is chartered session-to-session. A study group is expected to submit a PAR to the EC for consideration within two plenary sessions of

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it's initiation. After the Study Group recommendations have been accepted by the parent body, the Study Group will be disbanded no later than the end of the next plenary session.

The decision of whether to utilize an existing WG or TAG, or to establish a new WG or TAG to carry out recommended work items shall be made by the EC with due consideration of advice from the Study Group.

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7.4.1 Study Group Operation

Progress of each Study Group shall be presented at opening plenary meetings by the WG, TAG, or ECSG Chair. Study Groups may elect officers other than the Chair, if necessary, and will follow the general operating procedures for WG specified in subclauses 7.2.3.5 and 7.2.4. Because of the limited time duration of a Study Group, no letter ballots are permitted.

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7.4.2 Voting at Study Group Meetings

Any person attending a Study Group meeting may vote on all motions (including recommending approval of a PAR). A vote is carried by 75% of those present and voting "Approve" or "Disapprove."

7.5 Balloting Group

IEEE Standards Sponsor Balloting Groups are created in the IEEE Standards Association through the authorization of the LMSC Chair. Comments received during Sponsor Ballot are to be considered in a manner consistent with IEEE-SA requirements under a process and as determined by the WG.

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Comment resolution meeting leaders are reminded that members of the Balloting Group are interested parties with respect to comment resolution and shall be given the same notice for comment resolution meetings that is given to the formulating group. The WG Chair or designee shall ensure that the notification is sent to the Balloting Group.

7.5.1 Interest Categories

Interest Categories for Sponsor Ballots are determined on a per project/standard basis by the responsible subgroup.

8. LMSC SESSIONS

There is no membership requirement for attendance at an LMSC Plenary session or an interim session of an LMSC subgroup; they are open forums. However, anyone who attends any portion of a technical meeting that is part of an LMSC plenary session or an interim session of an LMSC subgroup is obligated to comply with the registration requirements for the session.

For the purposes of these P&P, a "technical meeting" is defined as, but is not limited to, any meeting of an LMSC WG, TAG, ECSG, any of their subgroups, or any call for interest at an LMSC session.

8.1 Plenary Sessions

Plenary sessions are the primary LMSC sessions. All active LMSC WGs and TAGs hold their plenary sessions during LMSC plenary sessions.

The LMSC may collect fees, usually a registration fee, from all attendees of any portion of any technical meeting that is a part of an LMSC plenary session to cover the expenses of the plenary session and the expenses of operating the LMSC.

8.1.1 LMSC PLENARY

The LMSC plenary session consists of the opening plenary meetings, EC meetings and WG meetings. The plenary session may also offer tutorial programs. If tutorials are offered on Monday, other meetings of 802 subgroups shall not be scheduled to overlap with the time of the tutorial programs. The plenary meeting is a meeting of individuals interested in local and metropolitan area network standards. The function of the plenary meetings is information dissemination:

a)   Status reports from the WG and TAG.
b)   Liaison communications to 802 as a whole from other standards organizations such as ASC X3, ECMA, etc.
c)   Reports on schedules for future Plenary and WG meetings.
d)   Announcements and general news.

The main objective of the opening plenary meeting will be to welcome new attendees and to inform the 802 membership about what is being done in the WG and ECSG. This report must include background on the relationship of the work to other Groups. It should not be a detailed statement about Standards Numbers and Progress.

At most 10 minutes should be taken by each WG for this material.

Each WG, TAG, and ECSG Chair shall provide a status report to the LMSC Recording Secretary no later than one hour after the conclusion of the closing EC meeting. This status report shall include a description of the progress made during the week, as well as plans for further work and

future meetings. The Recording Secretary shall post these status reports on the 802 web page no later than one week after the close of the plenary session.

The plenary meetings are conducted by the LMSC Chair or a designated delegate.

8.2 Interim Sessions

In addition to plenary sessions, an LMSC WG/TAG or WG/TAG sub group may hold interim sessions. An interim session may be for a single LMSC WG/TAG or WG/TAG subgroup or it may be a joint interim session for any combination of LMSC WGs, TAGs, and WG/TAG sub groups.

Interim sessions shall have as goals: 1) Reasonable notification (>30 days) in addition to any announcement given at a Plenary session, and 2) Few last minute shifts in location (<< 1 per year).

8.2.1 Interim Session Hosts

Each interim session and joint interim session shall have a Host. The Host is the entity that is responsible for the financial and logistical planning, and preparation for and execution of the session.

An interim session or joint interim session may be hosted by the LMSC, an LMSC WG or TAG operating with treasury, several LMSC WGs and/or TAGs operating with a joint treasury, or a non-LMSC entity. LMSC WGs or TAGs not authorized to operate with treasury and LMSC WG or TAG subgroups may not host an interim session.

Alternatively, an interim session or joint interim session may be co-hosted (jointly hosted) by any combination of an LMSC WG or TAG operating with treasury, several LMSC WGs and/or TAGs operating with a joint treasury, and a non-LMSC entity. Each of the entities co-hosting an interim session (Co-hosts) shall have approved a written agreement stating the responsibilities and liabilities of each Co-host and the disposition of any surplus funds before any financial commitments are made for the co-hosted session. When an interim session is co-hosted, the term Host means all of the Co-hosts as a single entity.

The Host may contract with meeting planners and/or other entities to assist it in hosting the session.

The responsibilities, authorities, and liabilities of a Host are defined in the following list.

a)   The Host is solely responsible for the finances and the logistical planning, preparation for and execution of the session.

b) The Host will consult and coordinate with the Chair(s) of the WG(s)/TAG(s) or WG/TAG sub group(s) participating in the session on the financial and logistical planning, and preparation for and execution of the session.

c) The Host is solely responsible for all contracts and agreements that are for goods and/or services exclusively for the session.

d) The Host is solely responsible for collecting the fees, if any, from attendees and for paying the session expenses including any penalties.

e) The Host is solely responsible for any session deficit and the disposition of any session surplus funds.

8.2.2 Interim Session Fees

The Host of an interim session may collect fees from all attendees of any part of any technical meeting that is part of the session. The fees, usually a registration fee, shall be used to cover the direct expenses of the session and, in some cases, may also be used to cover other WG/TAG operating expenses. The "direct expenses" of a session are those expenses, including penalties, that are incurred for goods and/or services that are completely consumed by the planning, preparation for and/or execution of the session.

If a WG operating with treasury, or several WGs and/or TAGs operating with a joint treasury, are the Host of an interim or joint interim session, any fees collected from attendees should be deposited respectively in the WG treasury or joint treasury. If several WGs operating with treasury and/or several groups of WGs/TAGS operating with joint treasury co-host a joint interim session, any fees collected from attendees should be deposited in the bank account of one of the co-hosting WGs/TAGs, as specified in the co-hosting agreement.

If a WG/TAG operating with treasury hosts or co-hosts an interim session for only itself, or several WG(s) and/or TAG(s) operating with a single joint treasury host or co-host a joint interim session for only themselves, the collected fees, if any, may also be used to cover other operating expenses of the participating WG(s)/TAG(s).

If a WG/TAG operating with treasury hosts or co-hosts a joint interim session for itself or its subgroups and organization units from other WG(s)/TAG(s), or several WG(s)/TAG(s) operating with a joint treasury host or co-host a joint interim session for themselves or their subgroups and organization units from other WG(s)/TAG(s), the collected fees, if any, may also be used to cover other operating expenses of the hosting WG(s)/TAG(s) if, and only if, the fees for the session are agreed to by the Chairs of all of the WG(s)/TAG(s) with an organization unit participating in the session. An "organization unit" of a WG/TAG is defined as the WG/TAG itself or any of its subgroups.

8.2.3 Interim Session Financial Reporting

1 A WG/TAG or WG/TAG subgroup shall prepare and submit all financial reports required by
2 IEEE, IEEE-SA, Computer Society, and LMSC regulations on any of its interim sessions for
3 which fees were collected and that did not comply with all of the following requirements:
4
5 The WG/TAG or WG/TAG subgroup was not the Host of the session.
6 The Host complied with the definition of a host in subclause 8.2.1 of these P&P.
7
8 a) Neither the WG/TAG or WG/TAG subgroup nor any of its officers had any financial
9   responsibility for the session including any deficit or penalties.

10 b) Neither the WG/TAG or WG/TAG subgroup nor any of its officers handled and/or had or
11   exercised any control over any funds either received for the session or disbursed to pay
12   the expenses of the session including penalties.

13 c) Neither the WG/TAG or WG/TAG subgroup nor any of its officers had and/or exercised
14   any decision authority over the disposition of any surplus funds from the session.

15 d) Neither the WG/TAG or WG/TAG subgroup nor any of its officers have or had any
16   control over or beneficial interest in any surplus funds from the session.

17
18 In the case of an interim session that is hosted by a single non-IEEE entity and for which fees are
19 collected, the usual financial goal is for the session to be non-deficit with a minimum surplus. A
20 recommended way of achieving this is for the Host to commit to a contribution to the session and
21 then reduce that contribution as required to minimize any session surplus. It may be most
22 convenient for the Host to not make the contribution (transfer the funds) until the size of the
23 contribution needed to meet the non-deficit minimum surplus goal is known. If there is a surplus,
24 the Host may retain it or dispose of it in any manner it chooses that does not violate item 6
25 above.
26

27 *8.3 Registration Policy*
28
29 In order for an individual to become registered for a given LMSC plenary or interim session of   **Deleted:** P
30 an LMSC subgroup, the individual must:
31
32 a) Have complied with the registration requirements for all previously attended LMSC
33   plenary sessions and interim sessions of LMSC subgroups, including payment of any   **Deleted:** P
34   required registration fees, and
35 b) Have completed a valid registration for the session in question, including payment of any
36   required registration fee.
37
38 An individual who attends any portion of a technical meeting that is part of an LMSC plenary   **Deleted:** P
39 session or an interim session of an LMSC subgroup is obligated to comply with the registration
40 requirements for that session.
41
42 An individual who attends any portion of a technical meeting that is part of an LMSC plenary   **Deleted:** P
43 session or an interim session of an LMSC subgroup but does not comply with the registration

1 requirements for that session, and further has not complied with those requirements within 60
2 days after the end of the session, including payment of any required registration fees, shall be
3 subject to the following sanctions:
4
5 i)   No participation credit will be granted for said session.
6 ii)   Any participation credit acquired before said session toward membership in any LMSC
7   group is revoked.
8 iii) Membership in any 802 group is terminated.
9 iv)   No participation credit will be granted for attendance at any subsequent LMSC session
10   until the individual has complied with the registration requirements for all previously
11   attended 802 sessions by the start of said subsequent session.
12
13 An individual who has lost membership in an LMSC group due to failure to comply with the
14 registration requirements for an LMSC plenary or interim session of an LMSC subgroup may
15 again earn membership in an LMSC group as follows:
16
17 First, comply with the registration requirements for all LMSC plenary and interim sessions
18 previously attended by the individual. An individual may not be granted membership in any
19 LMSC group until this requirement is fulfilled.
20
21 Second, acquire the participation credit required for group membership as required for an
22 individual that had never previously attended an LMSC session.
23
24 The interpretation and implementation of the registration policy for LMSC plenary sessions and
25 LMSC hosted interim sessions shall be the responsibility of the LMSC Treasurer and the LMSC
26 Executive Secretary. Unless otherwise specified in WG, TAG, or ECSG P&P, the interpretation
27 and implementation of the registration policy for interim sessions of LMSC subgroups not hosted
28 by the LMSC shall be the responsibility of the Chair and Treasurer (if any) of the LMSC
29 subgroup(s) holding the session.
30

31 **9. Vote**
32

33 *9.1 Procedure for Establishing a Directed Position*
34
35 Members of the EC have a responsibility to act in the best interest of the LMSC as a whole. WG
36 Chairs have a responsibility to represent their WG on the EC. At times these responsibilities are
37 in conflict with each other.
38
39 Decisions of a WG may be of such a nature that the WG members deem it necessary to "Direct"
40 the WG Chair to vote a specific way on EC motions related to a WG decision. When directed,
41 through the process described below, the WG Chair shall vote as mandated by the WG resolution
42 for the specified subject on any formal vote(s) in the EC. It would be anticipated that the use of a

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directed (i.e., instructed) vote is an exceptional situation and hence used infrequently, e.g., critical PAR votes, formation of new WG and Study Groups.

WG developed positions are not to be considered as automatic "Directed Positions." After a WG motion has been passed that establishes the WG's position, a separate Directed Position (75% required to pass per subclause 7.2.4.2 Voting) motion is required to make that WG Position a Directed Position. A Directed Position motion applies only to a specific, bounded, WG issue that is to be brought before the EC. Directed Position motions may not be combined, nor may any procedure be adopted that diminishes the extraordinary nature of establishing a "Directed Position."

The WG Chair, however, has the freedom to express other views in an attempt to persuade members of the EC to consider them, however, such views shall be identified as distinct from and not the formal WG Directed Position. The WG Chair is required to disclose to the WG his/her intent to offer a position contrary to a Directed Position. When presenting a Directed Position to the EC, the WG Chair is obligated to present and support the WG's Directed Position Motion with voting results, along with pros and cons behind the motion.

10. Communications

All Sponsor officers should use Sponsor letterhead if available, or email notification, when corresponding on behalf of Sponsor activities.

10.1 Formal Internal Communication

If correspondence between subcommittees (WG, task groups, task forces or other LMSC organization) involves issues or decisions (that is, non-routine matters) affecting other subcommittees, copies should be sent to all affected subcommittee chairs, and the Secretary of the lowest committee (EC, WG, etc) with authority over all affected subcommittees.

11. Interpretations

The policies of subclause 5.9 of the *IEEE-SA Standards Board Operations Manual* shall be followed. The EC is the body that will take the required Sponsor vote to approve the proposed interpretation.

12. Appeals

Appeals are achieved either using processes defined in WG/TAG P&P, or as defined in subclause 7.1.6.

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13. Parliamentary Procedures

On questions of parliamentary procedure not covered in these Procedures, Roberts Rules of Order (revised) may be used to expedite due process.

14. Position Statements for Standards

All external communications shall comply with subclause 5.1.4 of the *IEEE-SA Standards Board Operations Manual*.

14.1 Procedure for Coordination with Other Standards Bodies

These procedures apply to communications with other standards bodies or similar entities.

14.1.1 IEEE 802 communications

- Communications from the LMSC to external standards bodies shall not be released without prior approval by the EC. Such approval indicates that the communication represents the position of IEEE 802.
- All communications by IEEE 802 with external standards bodies shall be issued by the LMSC Chair and shall be copied to the EC.

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14.1.2 WG or TAG communications

- WG communications with external standards bodies that are not "Information Only" should be copied to affected members of the EC.

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- WG communications with external standards bodies shall not imply that they represent the position of IEEE or IEEE 802. They shall be issued by the WG or TAG Chair(s) and the LMSC Chair shall be included in the distribution list.

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EC members receiving incoming liaison letters from external standards bodies shall forward a copy to the LMSC Chair, and, as applicable, the relevant WG or TAG Chair.

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Informal communications shall not imply that they are a formal position of IEEE 802 or of the WG or TAG.

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14.2 Procedure for Communication with Government Bodies

These procedures apply to communications with government and intergovernmental bodies.

14.2.1 IEEE 802 Communications

- IEEE 802 communications to government bodies shall not be released without prior approval by 2/3 of the EC.
- All IEEE 802 communications to government bodies shall be issued by the LMSC Chair as the view of IEEE 802 (stated in the first paragraph of the statement). Such communications shall be copied to the EC and the IEEE-SA Standards Board Secretary and shall be posted on the IEEE 802 web site. The IEEE 802 web site shall state that all such position statements shall expire five years after issue.

14.2.2 WG or TAG Communications

- WG or TAG communications with government bodies shall not be released without prior approval by 75% of the WG or TAG. Such communications may proceed unless blocked by an EC vote. For statements not presented for review in an EC meeting, EC members shall have a review period of at least five days; if, during that time, a motion to block it is made, release of the statement will be withheld.
- WG or TAG communications shall be identified in the first paragraph as the view of only the WG or TAG and shall be issued by the WG or TAG Chair(s) and shall include the LMSC Chair in the distribution. Such statements shall not bear the IEEE, the IEEE-SA, or IEEE 802 logos.

Incoming liaison letters to EC members shall be forwarded to the LMSC Chair and, as applicable, the relevant WG or TAG Chair.

Informal communications shall not imply that they are a formal position of the IEEE 802 or of the WG or TAG.

Proposed communications that need to be issued by other IEEE entities shall be forwarded to the IEEE-SA Standards Board Secretary for further processing upon approval by the EC.

15. Standards Publicity

Any publicity issued within LMSC shall be in compliance with subclause 5.1.5 of the *IEEE-SA Standards Board Operations Manual* and with item h) of 7.1.1.

16. Use of LMSC Funds

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The purpose of the LMSC treasury is to allow the LMSC to collect and disburse funds for activities that are appropriate to the orderly development of LAN/MAN standards. Use of such funds includes:

- Payment for the expenses of conducting LMSC hosted sessions and related meetings and for other LMSC operating expenses. Such expenses include, but are not limited to, the expenses for:
    - meeting rooms
    - document reproduction
    - meeting administration
    - food and beverages
    - computer networking and Internet connectivity
    - goods and services needed for the efficient conduct of business
    - insurance
    - audits

- Reimbursement to individuals for appropriate expenses not covered by other sources, such as corporations, other IEEE organizations, etc.

The primary source of funds for the LMSC is the registration fees collected from attendees of LMSC hosted sessions.

Specific policies regarding the treasury are as follows:

a) The LMSC shall open and maintain an LMSC bank account that will be administered by the LMSC Treasurer.
b) The LMSC may open merchant accounts as required for the processing of credit card charges. Such accounts shall be administered by the LMSC Treasurer.
c) All funds received by the LMSC shall be promptly deposited in the LMSC bank account. All funds retained by the LMSC shall be held in the LMSC bank account or, if appropriate, in investments approved by the IEEE.
d) All LMSC expenditures require the approval of the EC with the sole exception that the LMSC Chair, Vice Chairs, Secretaries, Treasurer, and each WG and TAG Chair whose group is not operating with treasury, may be reimbursed from the LMSC treasury for up to $200 of appropriate expenses incurred between LMSC plenary sessions without specific approval of the EC.
e) The Treasurer will provide reports about LMSC finances to the LMSC membership at large at LMSC plenary sessions and to the EC. The Treasurer will provide additional reports and participate in audits as required by IEEE rules.
f) The LMSC Treasurer shall strive to maintain an operating reserve (uncommitted funds on hand) sufficient for paying the worst-case expenses of canceling an LMSC plenary session.

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1　g)　EC approval of the site for an LMSC hosted session constitutes authority for the
2　　　　Treasurer to pay all ordinary expenses for that session and any extraordinary expenses
3　　　　presented as part of the meeting site proposal.

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10　## 17. Procedure for PARs

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12　### 17.1 IEEE-SA Standards Board Approval

13

14　Any standards activity whose aim is to produce a Standard, Recommended Practice, or Guide
15　must submit a PAR to the IEEE-SA Standards Board within six months of beginning work.

16
17　• Refer to the IEEE-SA Working Guide for Submittal of Project Authorization Request
18　　(PAR) and PAR Form. (See http://standards.ieee.org/guides/par/index.html.)
19
20　• Add pages, as necessary, of more detailed information than is on the PAR form about the
21　　Scope, Purpose, and Coordination of the proposed project, but include summary text
22　　under Scope and Purpose.
23

24　### 17.2 LMSC Approval

25

26　Submit proposed PAR and, if applicable, responses to the five criteria per 17.5 below to the EC
27　for approval prior to sending outside of LMSC.

28
29　　Approval is contingent on inclusion of responses describing how the proposed PAR meets
30　　**the five criteria** and a work plan for the development of managed object definitions, either
31　　as part of the PAR or as a part of an additional PAR. PARs which introduce no new
32　　functionality are exempt from the requirement to provide responses to the five Criteria.
33　　Examples of such PARs are: Protocol Implementation Conformance Statements (PICS),
34　　Managed Object Conformance Statements (MOCS), PARs to correct errors and PARs to
35　　consolidate documents.
36
37　Complete PARs shall be circulated via the EC email reflector to all EC members no less than 30
38　days prior to the day of the Opening EC meeting of an LMSC plenary session.

39
40　At the discretion of the LMSC Chair, PARs for ordinary items (e.g., Maintenance PARs) and
41　PAR changes essential to the orderly conduct of business (e.g., division of existing work items or

name changes to harmonize with equivalent ISO JTC-1 work items) may be placed on the EC agenda if delivered to EC members 48 hours in advance.

Delivery may be assumed if sent by either FAX or e-mail one full working day prior to the deadline. All PARs must be accompanied by supporting documentation, which must include:

- Explanatory technical background material

- Expository remarks on the status of the development of the PAR (e.g., approved by WG, Draft pending WG approval at next meeting, etc.)

17.3 Plenary Review

In order to ensure wide consideration by the 802 members, PARs for significant new work (those that will result in a new Standard/Recommended Practice/Guide or an addition to an existing one) must pass through the following process during the plenary session week in which EC approval is sought:

The PAR must be presented in summary at the opening plenary meeting to the general 802 membership. Supporting material must be available in sufficient detail for members of other WG to understand if they have an interest in the proposed PAR (i.e., if they would like to contribute to/participate in the proposed work, or identify if there is conflict with existing or anticipated work in their current WG). It is highly recommended that a tutorial be given at a previous plenary session for major new work items.

WG, other than the proposing WG, must express concerns to the proposing WG as soon as possible and must submit written comments to the proposing WG and the EC not later than 5:00 p.m. on Tuesday.

The proposing WG must respond to commenting WG and to the EC together with a Final PAR not later than 5:00 p.m. on Wednesday. It will be assumed that insufficient coordination and/or inter WG consideration had occurred prior to the submission of the PAR if this deadline is not met, and the proposed PAR will not be considered by the EC at the closing EC meeting.

17.4 Chair responsibilities

The WG Chair shall sign the copyright acknowledgment.

The LMSC Chair shall, as Sponsor, submit the PAR to the following:

a)   Chair, CS Standards Activities Board
b)   IEEE-SA Standards Board New Standards Committee (NesCom) Administrator

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17.5 Criteria for Standards Development (Five Criteria)

17.5.1 Broad Market Potential

A standards project authorized by IEEE 802 shall have a broad market potential. Specifically, it shall have the potential for:

a)   Broad sets of applicability.
b)   Multiple vendors and numerous users.
c)   Balanced costs (LAN versus attached stations).

17.5.2 Compatibility

IEEE 802 defines a family of standards. All standards shall be in conformance with the IEEE 802.1 Architecture, Management, and Interworking documents as follows: 802. Overview and Architecture, 802.1D, 802.1Q, and parts of 802.1f. If any variances in conformance emerge, they shall be thoroughly disclosed and reviewed with 802.

Each standard in the IEEE 802 family of standards shall include a definition of managed objects that are compatible with systems management standards.

17.5.3 Distinct Identity

Each IEEE 802 standard shall have a distinct identity. To achieve this, each authorized project shall be:

a)   Substantially different from other IEEE 802 standards.
b)   One unique solution per problem (not two solutions to a problem).
c)   Easy for the document reader to select the relevant specification.

17.5.4 Technical Feasibility

For a project to be authorized, it shall be able to show its technical feasibility. At a minimum, the proposed project shall show:

a)   Demonstrated system feasibility.
b)   Proven technology, reasonable testing.

c)   Confidence in reliability.

17.5.4.1 *Coexistence of 802 wireless standards specifying devices for unlicensed operation*

- A WG proposing a wireless project is required to demonstrate coexistence through the preparation of a Coexistence Assurance (CA) document unless it is not applicable.
- The WG will create a CA document as part of the WG balloting process.
- If the WG elects not to create a CA document, it will explain to the EC the reason the CA document is not applicable.

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17.5.5 Economic Feasibility

For a project to be authorized, it shall be able to show economic feasibility (so far as can reasonably be estimated) for its intended applications. At a minimum, the proposed project shall show:

a)   Known cost factors, reliable data.
b)   Reasonable cost for performance.
c)   Consideration of installation costs.

17.5.6 Withdrawn PARs

Occasionally a PAR is withdrawn. When a PAR is to be withdrawn, the responsible WG chair in consultation with the WG shall consider whether the most current draft has content that should be archived. If so, the WG chair shall ensure the most current draft of the proposed standard is placed on the IEEE Document Distribution Service list. The WG chair shall add a cover page to the draft alerting the reader that the PAR has been withdrawn for this work, giving the specific date of the withdrawal and the rationale for the withdrawal.

The withdrawn draft shall be maintained on the IEEE Document Distribution Service list for a period of 3 years after the time of withdrawal, after which it shall be removed from the list.

18. Policy for Distribution of New IEEE LMSC Standards Publications

CD-ROMs containing all IEEE 802 standards will be distributed on an annual basis to registered attendees.

19. IEEE LMSC Draft Numbering Plan

This numbering scheme applies to all LMSC WG and TAGs.

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It covers all IEEE 802 Drafts.

The format for the document numbers will be as follows:

Either   P802.na-Di   (formal draft standards)

Or   P802.n{sc}   (all other documents & correspondence)

Where:

n =   a WG/TAG Designator (i.e. 0, 1, ...),

a =   a PAR Series Designator (i.e. _, A, B, C,...) for drafts of a document produced
        under an active PAR, and must include the {/Di} field,

i =   a Draft Revision Number for working documents produced under an active PAR.
        Digits for the number may be separated by '-' but should not use any other
        separators.

yy =   a year designator (i.e. 87, 88, 89, ...) to indicate the year in which the document
        number was assigned,

m =   a sequence number which starts at 1 at the beginning of each year and is increased
        by 1 each time a document number is assigned,

sc =   an optional subcommittee designator to be used specifically for tracking
        subcommittee submissions that are independent of the WG/TAG as a whole.
        Documents relevant to the whole WG/TAG will use the 802.n-yy/m form. The
        allowed formats for a subcommittee designator are: one letter, two letters, or one
        letter followed by one number. All other characters are specifically prohibited.

With the exception of the grandfathered 802.1 numbering scheme, IEEE 802 draft standards
documents shall follow the numbering protocols outlined in the *IEEE Standards Style Manual*.
One approved exception to these stated policies is that the numbering of draft standards
amendments that convert to a revision project shall contain the phrase "-REV" preceding the
alphabetical designation of the project.

20. Procedure for Conditional Approval to Forward a Draft Standard

This procedure is to be used when approval to forward a draft standard to LMSC letter ballot or
to RevCom is conditional on successful completion of a WG or LMSC recirculation ballot,
respectively.

Seeking conditional approval is only appropriate when ballot resolution efforts have been
substantially completed and the approval ratio is sufficient.

The conditional approval expires at the opening of the next plenary.

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Agenda Items and motions requesting conditional approval to forward when the prior ballot has closed shall be accompanied by:

- Date the ballot closed
- Vote tally including Approve, Disapprove and Abstain votes
- Comments that support the remaining disapprove votes and WG responses.
- Schedule for recirculation ballot and resolution meeting.

Where a voter has accepted some comment resolutions and rejected others, only the comments of which the voter has not accepted resolution should be presented.

When conditional forwarding to LMSC ballot has been approved, the conditions shall be met before initiating LMSC ballot. When conditional forwarding to RevCom has been approved by the EC, the submittal may be forwarded to RevCom before the conditions have been fulfilled in order to meet the submittal requirements for the next RevCom meeting. However, the submittal shall be withdrawn from the RevCom agenda if the conditions have not been met one week before the RevCom meeting.

Conditions:

a) Recirculation ballot is completed. Generally, the recirculation ballot and resolution should occur in accordance with the schedule presented at the time of conditional approval.
b) After resolution of the recirculation ballot is completed, the approval percentage is at least 75% and there are no new DISAPPROVE votes.
c) No technical changes, as determined by the WG Chair, were made as a result of the recirculation ballot.
d) No new valid DISAPPROVE comments on new issues that are not resolved to the satisfaction of the submitter from existing DISAPPROVE voters.
e) If the WG Chair determines that there is a new invalid DISAPPROVE comment or vote, the WG Chair shall promptly provide details to the EC.
f) The WG Chair shall immediately report the results of the ballot to the EC including: the date the ballot closed, vote tally and comments associated with any remaining disapproves (valid and invalid), the WG responses and the rationale for ruling any vote invalid.

21. Procedure for Coexistence Assurance

If indicated in the five criteria, the wireless WG shall produce a coexistence assurance (CA) document in the process of preparing for WG letter ballot and Sponsor ballot. The CA document shall accompany the draft on all wireless WG letter ballots.

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The CA document shall address coexistence with all relevant approved 802 wireless standards specifying devices for unlicensed operation. The WG should consider other specifications in their identified target band(s) in the CA document.

The 802.19 TAG shall have one vote in WG letter ballots that include CA documents. As part of its ballot comments, the 802.19 TAG will verify the CA methodology was applied appropriately and reported correctly.

The ballot group makes the determination on whether the coexistence necessary for the standard or amendment has been met.

A representative of the 802.19 TAG should vote in all wireless Sponsor ballots that are in the scope of the 802.19 coexistence TAG.

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Moved: To approve for distribution and executive committee ballot the P&P Revision titled "Editorial 2" as described in the document titled:

802.0-Editorial_2_-_Proposed_LMSC_P&P_Revision_Ballot_060310_r0.doc

Moved: Pat Thaler/Carl Stevenson

Passes: 15/0/0

10.09	MI	Network upgrade report & next steps	-	Rigsbee	5	05:09 PM

Network Upgrade Report

- New equipment has worked well & stably
- This will further improve for next plenary
- Our next objective is to improve security
- We want to authenticate network users using data obtained during registration
- This supports both privacy and security
- We will produce a specific proposal for EC review and approve on how, what, & $$
- Objective: availability for July - San Diego

10.10 MI   Attendance tracking report & next steps   -   Rigsbee   10   05:15 PM

Attendance Tracking Report

- IEEE-SA desires to partner & support on project
- We must provide immediate support and relief to 802.11 and 802.15 WGs who are suffering
- We will provide 3 solutions for short-term use
- We want to use authenticated network as the vehicle for long-term secure & private solution
- We will collect requirements for all WG's by June
- We will produce a specific proposal for EC review and approval on how, what, & $$
- Objective: availability for July - San Diego

An opinion was expressed that a fully functional package will be very difficult to get to, because of the quite varied ways that each of the working groups conduct their business.

10.11   MI   Future NNA venue report & next steps   -   Rigsbee   5   05:23 PM

Non-North American Venue Report

- Have been looking for Asian/Australian venue for a 2008 Interim Slot since Plenaries booked
- Have some candidates that may want to bid
- We have one solid candidate for Jan 2008
- Newly Re-opened Hilton Sydney w/ great space
- Have 3 weeks for choice: Jan 13-18, 20-25, or Jan 27-Feb 1
- We will produce specific proposals for NNA tg to review and approve on where, what, & $$
- Objective: confirmation for July - San Diego

Straw poll on desired dates:

Jan 13-18: 9
Jan 20-25: 3

10.12				-			
10.13				-			
10.14				-			
10.15				-			
10.16				-			
10.17				-			
10.18				-			
11.00		**Information Items**		-			
11.01	**II**	**Open office hours feedback**		-	**Nikolich**	**5**	**05:29 PM**

Meeting held Thursday 9MAR 5-7pm in Limestone boardroom
Attendees: Nikolich, Carlo, Mills, Kenney, Takefman, Fisher, Kipness, Vogel, Arefi, Ahmadi, McMan, Jeffry, Bar, and one or two others I don't remember

Discussion topics:
- poor coordination and communication between 802.11 and 802.21
- concern over indemnification of non-US citizens when sessions are held in non-US sites. Action-Kipness to contact Lindsay to better understand concerns. Marks indicated he has experience in the area and may be able to help out
- concerns over block-voting and dominance. Brainstormed possible solutions: one company-one vote, $50k membership fees, others. No clear solution to this difficult problem
- recommendation that EC monitor WG closely and offer help when needed before small issues become large
- concerns about groups meeting outside 802

Recommendation:
- establish an ombudsman position to handle grievances at the SA staff level.

11.02	**II**	**Feedback on Michael Lindsey's Tutorial**		-	**Nikolich**	**5**	**05:34 PM**

There are several members with frustrations about how things are being done, currently. They don't feel they have a good venue to address these frustrations. A suggestion was made to establish an IEEE ombudsman, someone from the IEEE staff that an individual could approach to address issues.

11.03	**II**	**JTC1 fast track ballot on 802.11i update**		-	**Nikolich**	**2**	**05:38 PM**

Geoff reported that the result of the ballot is in. The tally of the vote is 24-3-4. The 802.11i ballot passed.

11.04	**II**	**802.1/17 Response to ITU Liaison**		-	**Takefman**	**2**	**05:42 PM**

Mike reported on the response sent to the EC reflector.

11.05	**II**	**802.17 Update on P802.17b**		-	**Takefman**	**2**	**05:44 PM**

This is on track for a sponsor ballot.

| **11.06** | | | | - | | | |
| **11.07** | **II** | **Standards Medallion Announcement** | | - | **Marks** | **2** | **05:46 PM** |

Roger reported that the IEEE-SA Standards Medallion was awarded to Brian Kiernan.

Get quote from Roger.

| **11.08** | **II** | **Report on informal appeal resolution discussion** | - | **Nikolich** | **5** | **05:48 PM** |

Paul reported that there may be an informal resolution to the appeal that has been filed on the issuance of the initial 802.20 working group ballot in the January 2006 session.

| **11.09** | **MI** | **802.21 coexistence amendment** | - | **Rajkumar** | **5** | **05:50 PM** |

EC Motion: March 2006

- Motion: Any active MAC/PHY PAR that had a PAR date before November 2004 and reached draft form after the November 2004 shall produce a Coexistence Assurance (CA) document as part of the 5C requirement and distribute it with WG Letter Ballot and Sponsor Ballot

- Move: Ajay Rajkumar

- Second: Steve Shellhammer

- Result: Yes: No: Abstain:

- Withdrawn and would be followed on the email reflector

21-05-0592-00-0000

Moved: Any active MAC/PHY PAR that had a PAR date before November 2004 and reached draft form after the November 2004 shall produce a Coexistence Assurance (CA) document as part of the 5C requirement and distribute it with WG Letter Ballot and Sponsor Ballot

Moved: Ajay Rajkumar/Steve Shellhammer

Roger objects to the blanket application of this to PARs that were approved prior to the existence of the change to the P&P.

Geoff indicates that this motion reaches much further than the issue that was encountered earlier today.

The motion was withdrawn to continue as an email ballot.

11.10	MI	Appreciation of service of Ajay Rajkumar	-

Moved: To recognize with appreciation the contributions of Ajay Rajkumar as the Founding Chair of the IEEE 802.21 Working Group and acknowledge his service to the IEEE 802 Executive Committee from 2004 to 2006.
Moved: Roger Marks/Stuart Kerry

Passes: 14/0/0

11.11		-		
11.12		-		
ADJOURN SEC MEETING		-	Nikolich	06:00 PM

Moved: to adjourn
Moved: Tony/Carl

Passes:13/2/0

Respectfully submitted,

Bob O'Hara
Recording Secretary, 802 LMSC