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

Monday, March 6, 2000 - 8:00 a.m.

Hyatt Regency, Albuquerque, NM

1. MEETING CALLED TO ORDER

5   Jim Carlo called the meeting to order at 8:06 am. Members in attendance were:

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

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The meeting was attended by approximately 18 IEEE 802 Working Group members, and several guests including Denise Pribula.

2. APPROVE OR MODIFY AGENDA

DRAFT AGENDA - IEEE 802 LMSC EXECUTIVE COMMITTEE MEETING
Monday March 6, 2000 - 8:00 a.m.
Hyatt Regency Hotel, Albuquerque, NM

1.00		MEETING CALLED TO ORDER	-	Carlo	1	08:00 AM
2.00		APPROVE OR MODIFY AGENDA	-	Carlo	4	08:01 AM
3.00		APPROVE / MODIFY MINUTES OF PREVIOUS MEETING	-	Carlo	5	08:05 AM
4.00		TREASURER'S REPORT	-	Grow	10	08:05 AM
		Category (* = consent agenda)				
5.00	ME	P802.3ad to RevCom	-	Thompson	5	08:15 AM
5.01	ME	P802.5z to LMSC Ballot	-	Love	10	08:20 AM
5.02	ME	P802.1x Port Based Network Access Control PAR	-	Lidinsky	5	08:30 AM
5.03	ME	P802.11e MAC Enhancements PAR	-	Hayes	5	08:35 AM
5.04	ME	P802.11f Multi-Vendor Access Point Interoperability PAR	-	Hayes	5	08:40 AM
5.05	ME	P802.15.3 High Rate MAC and PHY PAR	-	Heile	5	08:45 AM
5.06	ME	P802.16.3 Air Interface for sub 11 GHz operation PAR	-	Marks	5	08:50 AM
5.07	ME		-		5	08:55 AM
5.08	MI	SEC Nominations and Elections	-	Carlo	5	09:00 AM
5.09		Break	-		5	09:05 AM
5.10	DT	IEEE-SA BoG Action re: JTC 1 TAG Finance	-	Carlo	5	09:10 AM
5.11	DT	IEEE Press Release Process	-	Carlo	5	09:15 AM
5.12	DT	Tutorial Scheduling and Guidelines	-	Carlo	5	09:20 AM

5.13	**DT**	**Rules Change Ballot Results**	-	**Nikolich**	**5**	**09:25 AM**
5.14	**DT**	**CS SAB Meeting**	-	**Grow**	**5**	**09:30 AM**
5.15	**DT**	**IEEE Meeting Guidelines Audit**	-	**Grow**	**5**	**09:35 AM**
5.16	**DT**	**EUI-64 RAC Policy**	-	**Carlo**	**5**	**09:40 AM**
5.17	**DT**	**Is there a continuing need for the Friday Plenary?**	-	**Frazier**	**5**	**09:45 AM**
5.18	**II**	**IEEE-SA Standards Board Actions From January, 2000**	-	**Frazier**	**5**	**09:50 AM**
5.19	**II**	**SRP Call for Interest Meeting**	-	**Frazier**	**5**	**09:55 AM**
5.20	**II**	**Powerline Networking Development**	-	**Carlo**	**5**	**10:00 AM**
5.21	**II**	**Fee Waivers for March 2000 IEEE 802 meeting**	-	**Carlo**	**5**	**10:05 AM**
5.22	**II**	**20th Anniversary Celebration Events**	-	**Carlo**	**10**	**10:10 AM**
5.23	**II**	**802.14 Update**	-	**Russell**	**5**	**10:20 AM**
5.24	**II**	**802.5 Update**	-	**Love**	**5**	**10:25 AM**
5.25	**II**	**Tutorial and Social Schedule**	-	**Rigsbee**	**5**	**10:30 AM**

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

Add item 5.17a Endorsement of Jim Carlo for IEEE Fellow

Approve agenda as modified

Hayes/Love 11/0/0

5   **3.0 Approve minutes of November meeting**

Grow/Lidinsky 9/0/2

4.0 Treasurer's Report

See file montreasrep.pdf

Bob Grow reported on expenditures and budget. Temporary positive imbalance in budget expected as a result in the termination
10   of IPF payments. Equipment expenses for November, 1999 were ~$22K.

IEEE Project 802
Statement of Operations
Nov 1999 Meeting

open	7 Nov 1999 Operating Reserve			66,296	

Nov 1999 Meeting Income:				**Actual**	*Budget*
151 Registrations @	$300		45,300		
321 Registrations @	$250		80,250		
Registrations @	$100		0		
Subtotal			**125,550**	**125,550**	112,625
Deadbeat Registrations				**600**	0
Bank Interest				**213**	200
Other				**475**	0

plus	TOTAL Income			126,838	112,825

Nov 1999 Meeting Expenses:	**Actual**	*Budget*	
Audio Visual Rentals	**6,863**	6,000	
Bank Charges	**1**	25	
Copying	**4,818**	6,390	
Credit Card Discounts	**3,364**	3,277	*
International Program Fee	**22,200**	38,300	*
Meeting Administration	**36,547**	32,166	*
Phone & Electrical	**986**	900	
Refreshments	**25,626**	16,188	
Shipping	**4,025**	4,500	
Social	**23,411**	15,000	
Supplies	**5**	0	
Other	**2,806**	0	

minus	TOTAL Meeting Expense	130,652	122,746

minus	Equipment Expense	22,482	21,000

equals	Mar 2000 Operating Reserve	40,000	

	Net Change in Operating Reserve	(26,296)	(30,921)

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

5.00 P802.3ad to RevCom – Thompson

Steve Haddock chair of 802.3ad reported on recirculation results of 802.3ad. All comments from LMSC ballot were resolved. 100% approval as a result of recirc. 802.3ad was pre-submitted to RevCom for consideration at March Standards Board meeting.

5 **5.01 P802.5z to LMSC Ballot – Love**

10 voting members of 802.5, 4 voted to approve submission to Sponsor Ballot, 3 abstained, 0 disapproved.

Will bring motion to Thursday SEC meeting to decide whether 802.5z should go to LMSC ballot. In the meantime, will hold an SEC business meeting to discuss criteria for progressing a draft in a WG with such a small constituency, and then apply that criteria to 802.5z.

10 **5.02 802.1x Port Based Network Access Control PAR – Lidinsky**

802.1x is on NesCom March agenda. Copy will be in SEC mailboxes by tomorrow morning. Minor changes from what SEC has seen before. Changed from a Supplement to a stand-alone standard.

Thompson asks that 802.1x PAR be available today.

5.03 P802.11e MAC Enhancements PAR – Hayes

15 New PAR - A supplement to add classes of service and QoS and security. Is on NesCom agenda.

5.04 P802.11f Multi-Vendor Access Point Interoperability PAR – Hayes

New PAR – A Recommended Practice.

Carlo reminds group that comments on new PARs are due by Tuesday at 5:00 pm.

5.05 P802.15.3 High Rate MAC and PHY PAR – Heile

20 New PAR -Very active study group. Lots of meetings. Presubmitted PAR to NesCom.

Carlo asks how we are going to make sure that dot11 and dot15 review eachother's PARs? Suggest that when PARs are discussed at respective meetings, that at least one member of the other WG is in attendance.

5.06 P802.16.3 Air Interface for sub 11 GHz operation PAR – Marks

New PAR – The study group voted 47-0-1 in January to forward this PAR. Expecting comments from dot11 and dot15.

25 Paul Nikolich reviews process steps for new PARs.

5.07 Empty Agenda Item

5.08 SEC Nominations and Elections – Carlo

Jim Carlo announces his candidacy for LMSC chair. No other candidates have come forward. End of the Monday plenary
30 meeting will be the cutoff for people to declare candidacy. Lidinsky (802.1) and Hayes (802.11) are not eligible for re-election to the chairmanship of their respective working groups due to term limits.

5.09 Break

March 2000 Elections

- **A) LAN MAN Standards Committee Chair**

  – The Chair is elected by the Executive Committee and confirmed by the Standards Activities Board. The LMSC Chair is also the Chair of the Executive Committee.

- **B) Executive Officers**

  – The Vice Chair, the Executive Secretary, the Recording Secretary, the LMSC Treasurer and ex-officio members of the LMSC Executive Committee. These positions are appointed by the LMSC Chair and confirmed by the Executive Committee.

- **C) Working Group Chairs**

  – LMSC Working Group Chairs and Vice Chairs shall be elected by the Working Group and confirmed by the LMSC Executive Committee. Terms shall end at the end of the first Plenary session of the next even numbered year.

  – An individual who has served as Chair or Vice Chair of a given Working Group for a total of more than eight years in that office may not be elected to that office again. Applies to Bill Lidinsky (1980) and Vic Hayes (1990)

March 2000 Elections Working Group Chairs

- Each active working group should conduct an election for WG Chair at this meeting. Election process dependent on Working Group.

- At Thursday SEC meeting, each WG chair should bring forward election results for chair (Best practice should at least include the final tally on the number of voters who supported the chair). The SEC then has the responsibility to affirm this election on Thursday. New chairs will take office at the end of the Friday Plenary meeting.

- SEC should also be informed of other officers in the WG at the Thursday SEC meeting.

IEEE 802

Jim Carlo - IEEE 802 Chair   Mar-2000

IEEE 802 Chair Election

- ITEM 5.08
- Nominations for IEEE 802 Chair (Mar00-Mar02)

- Jim Carlo (IEEE 802 chair since July-1996)
- _____

- Approve:____

SEC Motion 6Mar2000

- ITEM 5.08
- Moved: _____
- Seconded: _____

- Move to affirm the following SEC officers appointed by the chair (Mar00-Mar02):
- Paul Nicolich   -   Vice Chair
- Buzz Rigsbee   -   Executive Secretary
- Howard Frazier   -   Recording Secretary
- Bob Grow   -   Treasurer

- Approve:____ Do Not Approve:_____   Abstain:____

SEC Motion 6Mar2000

- ITEM 5.08
- Moved: _____
- Seconded: _____

Move to affirm Vic Hayes as Ex-Officio voting member of the SEC (Mar00-Mar02) responsible for:

a) Develop and implement a process for submitting letters to government agencies on behalf of 802.

b) Develop a process for submitting positions to the ITU-T and ITU-R and determine how to best represent the IEEE 802 at these activities.

c) Tune-up IEEE 802 liaison strategies.

Approve:____ Do Not Approve:____   Abstain:____

IEEE 802

Jim Carlo - IEEE 802 Chair   Mar-2000

5.10 IEEE SA BoG action re: JTC1 TAG Finance – Carlo

See file (carlo.pdf)

JTC1 Finance

- JTC1 US TAG was informed of decision by IEEE 802 to eliminate collection of IPF fee based on motion at the Nov99 meeting.
  - Precipitated re-look at entire JTC1TAG funding structure
  - Statement from JTC1US TAG to end support for JTC1/SC6 issued in Mar2000 (one year notice - so support will end Mar2001)
  - IEEE-SA BOG have agreed to pick up Nov2000 fee of up to $27K

- JTC1/SC6 - Next meeting in Prague week of 4June00
  - Could be final meeting or one more next year (April)

- Options for IEEE 802 for Internationalization
  - Still Fast Tract into JTC1 (which subcommittee will handle?)
  - Have standard referenced by ITU.

IEEE 802

Jim Carlo - IEEE 802 Chair   Mar-2000

5.11 IEEE Press Release Process – Carlo

See file (carlo.pdf)

Press Release Processes

- This process applies to Press Releases issued by the IEEE-SA or IEEE Societies. It does not apply to any other press releases, articles in journals, Standards Bearer, or other publication.

- In most cases, IEEE press releases do not have the broad market base in the networking industry, but serve to inform other IEEE standards groups of an activity.

- 3.1 Function of the SEC
  h) Handle press releases and other external organization matters.

- Process:

- Press release drafts and should be approved by the SEC (Email Ballot). The WG should normally also approve a press release, although in some cases this cannot be done timely and SEC decision will prevail.

IEEE 802

Jim Carlo - IEEE 802 Chair   Mar-2000

5.12 Tutorial Scheduling and Guidelines – Carlo

Marks requests that completed tutorial request forms be posted to the SEC reflector for a week for comment before tutorial slot is granted. Thompson says that he doesn't want to be seconded guessed.

2.5 Chair's Tutorial Guidelines

This guideline outlines 'acceptable practices' for Tutorial presenters.

1) Content of Tutorials should be:
- - Technology oriented, informative, concise, and well illustrated.
- - Reflect general needs and technology for standards and recommended practices.
- - Reflect business/economic drivers for possible standardization.
- - Present multiple viewpoints and speakers where appropriate

2) Purpose of Tutorials should:
- - Explore possible new directions for 802 efforts
- - Summarize ongoing major work of Study Group or WG or TAG.
- - Describe basic 802 or other standards process.

3) Mechanics of Tutorials:
- - Hosted by SEC member or Study Group Chair.
- - Have enough hand-outs available at back of room.
- - Announced at Plenary Meeting with short Abstract.
- - Announced in meeting registration packets.
- - Announced to SEC reflector before meeting.
- - Scheduled through Conference Organizer/SEC Executive Secretary
- -Conflicts resolved by Executive Secretary and SEC chair based on most importance to 802.
- - Scheduled Monday or Tuesday (6:30 - 8:00, 8:00 - 9:30)

4) IEEE 802 Tutorials should NOT be:
- - Product announcements
- - Company announcements
- - Products looking to be "Standardized"

IEEE 802   Jim Carlo - IEEE 802 Chair   Mar-2000

5.13 Rules Change Ballot Results – Nikokich

Had meeting Sunday night.

5.14 CS SAB Meeting - Grow

5   Bob Grow and Gary Robinson attended the CS SAB meeting. The CS SAB is alive and well. Lots of discussion about awards.

5.15 IEEE Meeting Guidelines Audit – Grow

Carlo reminds group that he, Frazier, and Thompson will be in Piscataway in three weeks. Will hold conference call with Bob Grow.

10   Robinson is working to get the budget surplus limit raised for the LMSC.

We have never had a financial audit.

5.16 EUI-64 RAC Policy – Carlo

Had an ad-hoc meeting concerning the RAC last night at 6:00. Carlo will distribute a few bullets reflecting 802's issues, concerns, or desires regarding EUI-64. Have
15   a small meeting on Wednesday to discuss.

IEEE Meeting Guidelines / 802 - A

Guideline 1. Make sure that meetings have the sole purpose of developing IEEE standards. IEEE 802 meetings have the purpose of developing IEEE standards, developing PARs for development of standards and responding to liaisons from other parties.

Guideline 2. If you want to collaborate with another organization, ask for help. There are a number of consortiums related to our projects and the SEC monitors closely any meeting collaboration.

Guideline 3. Put "IEEE" in the name of the meeting. Meeting notices contain the words "IEEE". Where possible (not in text files or normal announcements) the IEEE Logo is utilized, provided that this does not imply approval by the IEEE on liaison statements. In these cases, the IEEE Logo is not utilized.

Guideline 4. Operate meetings on a "break-even" basis. Meetings are on a "break-even" basis over the long term. Specific meetings may result in surpluses or deficits based on meeting arrangements. A yearly budget is maintained to ensure "break even" over several meetings.

Guideline 5. Don't plan to collect money unless you are prepared to deal with the taxes. Meeting fees are collected solely for the purpose of meeting meeting expenses and paying the IPF fee. This fee will be discontinued in 2000.

IEEE 802

Jim Carlo - IEEE 802 Chair   Mar-2000

IEEE Meeting Guidelines / 802 - B

Guideline 6. Provide proper signature authority on meeting bank accounts.

The IEEE 802 bank account includes the words "IEEE". Signatory authority is vested in the Treasurer (Bob Grow), and Executive Secretary (Buzz Rigsbee). IEEE 802 will add signatory to IEEE-SA Managing Director (Judy Gorman). This will substitute with the Computer Society request to have signature authority.

ACTION: IEEE 802 establish signature authority to Judy Gorman.

Guideline 7. If your meeting budget exceeds $25,000, ask for help.

IEEE 802 meeting budget exceeds $25,000. We have been successfully running meetings for many years with the meeting budget exceeding $25,000, and plan to continue operations in the manner that have made IEEE 802 so successful. We believe the appropriate oversight of our operations is through audits. We are currently working with IEEE-SA to obtain an audit of IEEE 802 finances in line with IEEE P&P10.

ACTION: Conduct financial audit by IEEE on IEEE 802. Bob Grow to coordinate.

Guideline 8. Submit any contracts for review.

IEEE 802 currently has an agreement with Face to Face Events to handle meeting arrangements. This agreement was based on competitive bids for services and is renewable yearly. We attempt to select meeting sites that balance the travel burden of our geographically dispersed participants. Separate contracts with hotels are negotiated through competitive bidding by the Executive Secretary (Buzz Rigsbee).

ACTION: Provide contracts to IEEE-SA with hotels for the annual audit. These contracts are competitive and not available for distribution.

IEEE 802

Jim Carlo - IEEE 802 Chair   Mar-2000

IEEE Meeting Guidelines / 802 -C

Guideline 9. Conduct the meeting openly. IEEE 802 meetings comply.

Guideline 10. Refrain from discussions violating anti-trust laws.
IEEE 802 meetings comply with this guideline. The IEEE-SA Patent policy is announced at each meeting.

Guideline 11. Avoid job recruiting. IEEE 802 meetings comply.

Guideline 12. Notify participants of recording.
IEEE 802 meetings need to comply with this guideline. Most meetings are recorded on tape, and all participants are aware of this fact.
ACTION: Make announcement at Plenary Meeting regarding possibility of recording at IEEE 802 meetings. CARLO to Announce.

Guideline 13. Avoid encouraging the press.
IEEE 802 meetings comply with this guideline. The press cannot be restricted from attending, but they must pay the meeting fee like all other attendees.

Guideline 14. Avoid sales exhibits.
IEEE 802 meetings comply with this guideline. The only literature at a meeting is provided by the IEEE-SA Standards Department for membership in IEEE, IEEE-SA and sale of standards.

EUI-64 Mandatory

- The IEEE Registration Authority Committee (RAC) has been dealing with the issue of the possible over-load of the unique 48-bit address space (EUI-48) for the various standards and products being considered for design today.

- The goal is to maintain the integrity of a world-wide unique address for all product instantiations. Because of the high potential use rate, the RAC believes that all new designs which use a specific world-wide unique address SHALL use the 64-bit address space (EUI-64) and those applications which are currently on a path to use up all the address space currently using the 48-bit address SHALL migrate to the 64-bit space.

- "Given the possibility of consuming all the EUI-48 identifiers, the IEEE/RAC places restrictions on their use. For new standards, EUI-48 identifiers are restricted to use in low volume applications, such as the identification of software interface standards or hardware model numbers. Other new applications (including those that identify distinct hardware instances) shall not use an EUI-48 identifier; they should use the extended EUI-64 or other identifiers."

IEEE
802   Jim Carlo - IEEE 802 Chair   Mar-2000

5.17 Is there a continuing need for the Friday Plenary – Frazier

Frazier will produce a survey slide for WG chairs to conduct in their
meetings to determine the will of the membership.

5.17a Endorsement of Jim Carlo for IEEE Fellow – Nikolich

5   Roger Marks has nominated Jim Carlo for IEEE Fellow and has sought an endorsement letter from IEEE 802.
Very detailed nomination form. Requires references from 5 or more IEEE Fellows an optional endorsements
from organizations. No objection to sending a letter of endorsement.

5.18 IEEE-SA Standards Board Actions from January, 2000 – Frazier

See file frazier.ppt

10   Note that RevCom will be moving toward an electronic submittal process this year. May
conduct pilot program for June RevCom meeting. WG chairs who anticipate making a
submittal for June RevCom meeting should contact Howard Frazier.

5.19 SRP Call for Interest Meeting – Frazier

Introduce Mike Takefman, who will moderate tutorial and call for interest meeting.

Is there a Continuing Need for the Friday Plenary?

- Very Low Attendance
- Entirely a recap of week and Thursday evening SEC
- Can be replaced with Web Posting

Proposal

- SEC members deliver closing Plenary materials to Recording Sec'y by 8:00 am Friday morning

- If 8:00 am deadline is met, SEC members don't have to show up at closing plenary

- Materials will be posted on ieee802.org by the following Friday

- No closing Plenary in July

IEEE-SA Standards Board Actions from January, 2000

- New Standards Board Chair - Don Heirman

- New RevCom Chair - Jim Moore

- New NesCom Chair - Lowell Johnson

- New PatCom Chair - Gerry Peterson

RevCom and NesCom actions

- 802.5t met conditional approval criteria (Patent letters)
- 802.9-1994 up for administrative withdrawal
- Numerous CS standards in peril of administrative withdrawal
- Due to poor communication between IEEE Standards and CS
- Temporary reprieve until March

SRP Call for Interest

- Tutorial on Spatial Reuse Protocol Tuesday at 8:00 pm

- Call for Interest Meeting Wednesday 1:00 pm to 5:00 pm

- May request formation of an ECSG at Thursday SEC meeting

- Mike Takefman will moderate tutorial and meeting

5.20 Powerline Networking Development – Carlo

5.21 Fee Waivers for March 2000 IEEE 802 meeting – Carlo

5   see file carlo.ppt

Andrea Nascimbene – ETSI BRAN liaison representative will get the fee waiver, not Philip Whitehead as shown on Carlo's slide.

Hayes objects to liaison representatives being given a free ride. Lidinsky agrees, Love agrees, Rigsbee agrees.

Marks notes that guidelines say that liaison activities are legitimate reasons for fee waivers.

The fee waiver guidelines may need to be revisited.

Meeting Fee Waivers - Mar2000

- The following fees have been waived for Mar2000 meeting by the chair. Please note in the future to send fee waivers to me for approval not to Dawn or Buzz. I did reject one fee waiver.

- Don Loughry - 20th year celebration, Chair of IEEE SA-BOG
- Maris Graube - 20th year celebration invitation
- Philip Whitehead - ETSI-BRAN Liaison Representative
- Tony Tamalunas   - from Walt Disney Imagineering - Tutorial
- Ken Wagner - from Walt Disney Imagineering - Tutorial
- Denise Pribula - IEEE Staff

5.22 20th Anniversary Celebration Events – Carlo

Need to clear out the ballroom by Wednesday at 5:00 pm.
Carlo introduces John Montague, former treasurer and vice-chair of 802.
5   Carlo introduces Vaman, past chair of 802.9 and Pat Thaler, past chair of 802.3, 802.12, and treasurer of 802.

5.23 802.14 Update – Russell

Withdrawal of 802.14 PARs. Motion to disband 802.14 and archive all of the material.

Action Item: Frazier volunteers to create archive page if someone from 802.14 can create a "tarball" of the existing content.

5.24 802.5 Update – Love

10   see file item524.ppt.

802.5 Update

- 802.5z (trunking) through Working Group Ballot
- 802.5v (gigabit) passed 1st round LMSC Sponsor Ballot. Comment Resolution this Mtg.
- 802.5w (corrigenda) Approved at sponsor ballot. Submitted to Revcom for March approval
- 802.5t (high Speed TR) Approved by Revcom
- 802.5x (virtual bridged LANs) PAR to be withdrawn
- Expect 4 members at this meeting
- Reflector Opened to all interested parties
- Discussing hibernation at this meeting

5.25 Tutorial and Social Schedule Rigsbee

Please be careful with the LCD projectors. Let the bulb cool down before pulling the plug.

5.26 SEC business meeting schedule

5   **All meetings in Boardroom**

Standards availability meeting Tuesday 3:00 pm

Tutorial and Fee Waiver Guidelines meeting Tuesday 4:00 pm

Rules meeting Wednesday 1:00 pm.

EUI-64 meeting Wednesday 2:00 pm

10   Paul and Jim will come in to visit 802.5 this afternoon

Progression of 802.5 projects Wednesday 3:00 pm

The meeting was adjourned at 10:29 pm.

SEC Chair's Meetings

TIME	Purpose	Who	Location
MON			
3:00	802.5 Discussion	Carlo/Love	EnchantE
TUES			
9:00			
10:00			
3:00	Standards Availability from IEEE	Carlo	BDR
4:00	Tutorials, Fee Guidelines	Carlo	BDR
WED			
9:00	WG 802.1 Plenary	Lidinisky	Sage 1
1:00	Operating Rules	Nikolich	BDR
2:00	EUI-64 Update	Carlo/Thompson	BDR
3:00	802.5 Size. WG Size	Carlo/Love	BDR
4:00			

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

Monday, March 6, 2000 - 11:00 a.m.

Hyatt Regency, Albuquerque, NM

1. MEETING CALLED TO ORDER

5 Jim Carlo called the meeting to order at 11:00 am.

11:00 Welcome and review of SEC meeting – Carlo

11:05 CDROM Distribution – Frazier

Wednesday afternoon for new voting members, and voting members who didn't get one in Hawaii.

10 **11:08 Voting Rules and IEEE 802 Operating Rules – Nikolich**

11:10 Treasurer's Report – Grow

Hawaii was a great meeting. Not as expensive as the report might lead you to believe, since ~$22K was spent on equipment (projectors) subsequent to the meeting, but which shows up as an expense incurred in November.

See file montreasrep.pdf

IEEE802 Monday Plenary Agenda

- 11:00   Welcome and Review of SEC Meeting   Carlo
- 11:05   CD ROM Distribution   Frazier
- 11.08   Voting Rules and IEEE 802 Operating Rules   Nikolich
- 11:10   Treasurer's Report   Grow
- 11:15   IEEE Project Editors Status Report   Pribula
- 11:18   Tutorial Announcements
- 11:20   802.1 Management/VLANs   Lidinsky
- 11:25   802.3 CSMA/CD   Thompson
- 11:30   802.5 Token Ring   Love
- 11:35   802.8 Fiber Optic TAG   Benson
- 11:38   802.11 Wireless   Hayes
- 11:43   802.14 CATV Modem   Russell
- 11:45   802.15 WPAN   Heile
- 11:50   802.16 BWA   Marks
- 11:55   Tutorials, Meeting Arrangements   Rigsbee
- 12:00   ADJOURN

http://www.ieee802.org

IEEE 802 WG Voting Rules

5.1.3 Membership
All persons participating in the initial meeting of the Working Group become voting members of the Working Group. Thereafter, voting membership in a Working Group is established by participating in the meetings of the Working Group at two out of the last four Plenary sessions, and (optionally) a letter of intent to the Chair of the Working Group. Membership starts at the third Plenary session. One duly constituted interim Working Group or task group meeting may be substituted for the Working Group meetings at one of the two Plenary sessions (See 5.1.3.5 Meetings and Participation).

Members of the Working Group who have not achieved voting status are known as observers. Liaison members are those designated individuals who provide liaison with other working groups or standards bodies.

ITU Process for IEEE 802

- Any document specifically designed for transmission as a Company or Country position that is supported by an IEEE Working Group or IEEE Task Force should have the following footnote (modify to the correct Task Force number and name) :

- **This document represents the technical position of the IEEE 802.3 CSMA/CD Working Group by a vote of 24-Approve, 10-Disapprove and 4-Abstain.**

- In order to use the statement above:

- Working Group or Task Force shall approve the document.

- SEC must vote to approve.

- In dire circumstances, the SEC chair will approve letters where delays would be destructive to the standards process.

IEEE 802

Jim Carlo - IEEE 802 Chair   Mar-2000

ITU Process for IEEE 802

- Any informal memos or letters sent from a Working Group Chair to an ITU Rapporteur as an administrative liaison comment can be directly from the Chair of the Working Group to the Rapporteur.

- Process:
- The SEC Chair approves and is copied within the letter or email.
- SEC is copied on the letter via a separate EMAIL.

Feedback from Bob Pritchard

- Draft per se looks good to me. I'm glad you were able to accommodate the earlier 1999/2000 forecast and not cause an operating problem for 2000 (I'm assuming that 802 has previously contributed $72K in 1999) as well as to address the longer term issue by suggesting dialog at your March 2000 meeting.In view of what's been going on in other committees, I believe this should give the JTC1 TAG Finance Committee time to rethink the IPF.

- Keep up the good work, and let me know how you want to handle this issue.

- Strictly speaking, I believe you should inform IEEE staff and that they, i.e., I, would present the 802 action to the JTC1 TAG. Alternatively, since JTC1 TAG is already aware of possible 802 action, a parallel approach would be ok.

- Rgds, Bob Pritchard (JTC1/SC6/WG1&3 TAG Administrator.

IEEE 802 WEB PAGES

- IEEE 802 WEB Pages Now On-Line and Operational
- Responsibilities as as follows:
  - Howard Frazier - Main WEB page
  - Paul Nikolich - Operating Rules and 802 Documents
  - Buzz Rigsbee - LMSC Plenary Meetings
  - 802.1 Sundar Subramaniam
  - 802.3 David Law
  - 802.5 Neil Jarvis/John Messenger
  - 802.10 Richard McAllister
  - 802.11 Vic Hayes
  - 802.14 Robert Russell
  - Denise Pribula - IEEE page pointers

- *5.3 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:

- 1. An Executive Committee Study Group (ECSG) is initiated by vote of the Executive Committee and the ECSG Chair is appointed and approved by the Executive Committee. The ECSG Chair has the same responsibilities as a Working Group Chair as specified in 5.1.4.1 but does not have Executive Committee voting rights.

- 2. A Working Group Study Group (WGSG) is initiated by vote of the Working Group or TAG and approved by the Executive Committee. The WGSG Chair is appointed and approved by the Working Group or TAG.

- The Study Group shall have a defined task with specific output and a specific time frame established within which they are allowed to study the subject. It is expected that the work effort to develop a PAR will originate in a ECSG or WGSG. A Study Group shall report its recommendations, shall have a limited lifetime, and is chartered meeting-to-meeting. After the Study Group recommendation(s) has 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 Working Group or TAG, or to establish a new Working Group or TAG to carry out work items recommended by a Working Group shall be made by the Executive Committee with due consideration of advice from the Study Group.

IEEE Project 802
Statement of Operations
Nov 1999 Meeting

				Actual	Budget
open	**7 Nov 1999 Operating Reserve**			**66,296**	

Nov 1999 Meeting Income:

				Actual	Budget
151	**Registrations @**	**$300**	**45,300**		
321	**Registrations @**	**$250**	**80,250**		
	Registrations @	**$100**	**0**		
Subtotal			**125,550**	**125,550**	112,625
Deadbeat Registrations				**600**	0
Bank Interest				**213**	200
Other				**475**	0

				Actual	Budget
plus	**TOTAL Income**			**126,838**	112,825

Nov 1999 Meeting Expenses:

	Actual	Budget	
Audio Visual Rentals	**6,863**	6,000	
Bank Charges	**1**	25	
Copying	**4,818**	6,390	
Credit Card Discounts	**3,364**	3,277	*
International Program Fee	**22,200**	38,300	*
Meeting Administration	**36,547**	32,166	*
Phone & Electrical	**986**	900	
Refreshments	**25,626**	16,188	
Shipping	**4,025**	4,500	
Social	**23,411**	15,000	
Supplies	**5**	0	
Other	**2,806**	0	

minus	**TOTAL Meeting Expense**	**130,652**	122,746
minus	**Equipment Expense**	**22,482**	21,000
equals	**Mar 2000 Operating Reserve**	**40,000**	
	Net Change in Operating Reserve	**(26,296)**	(30,921)

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

RMG -- 6 Mar 2000

11:15 IEEE Project Editors' Status Report – Pribula

11:18 Tutorial Announcements

Disney Imagineering, SRP, Wireless Tutorials announced.

5 **11:20 802.1 Management/VLANs – Lidinsky**

There will be a technical plenary meeting this week to discuss 802.11 and 802.1x.

Jim Carlo requests a show of appreciation for Bill Lidinsky's work on 802.1, which is met with resounding applause. Bill will not be able to seek re-election as the chair of 802.1 due to term limits.

10 **11:25 802.3 CSMA/CD – Thompson**

see file dot3monplen.ppt

802.1

Areas of Activity

Internetworking, architecture, network management, …

Current Activities

802: Overview and Architecture

802.1s - Multiple Spanning Trees

802.1t - 802.1D maintenance

802.1u - 802.1Q maintenance

802.1v - VLAN Classification by Protocol and Port

802.1w - Rapid Reconfiguration

802.1x - Port-based Network Access Control

802.1

Other

Liaison to other standards organizations

Other issues broadly effecting all of 802

Technical Plenary - Wednesday mornings

This week

Full 802.1 Working Group plenary session

Monday: 1:00pm - 5:30pm; Thursday: 1pm - 5pm

802.1 Task Group and editing sessions

Tuesday all day; Wed all day (afternoon); Thursday morning

Agendas defined this afternoon in 802.1 plenary

802.1 Technical Plenary Wednesday

802.11 & 802.1x

802.3 CSMA/CD Working Group Status

- ## Major Activities:
  - P802.3ad/Link Aggregation TF Completed Sponsor Ballot
  - P802.3ae10 Gigabit Ethernet TF PAR App'd, Proceed w/ tech. work
  - P802.3af DTE Power via MDI PAR App'd, Proceed w/ tech. work
  - Std. 1802.3Rev., Conformance Test PAR App'd, Draft avail for preview
  - Liaison reports
  - Chair election/reaffirmation

802.3 CSMA/CD Working Group Officers

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

- 802.3 CSMA/CD Web site
- Information is always available on our web site:
  http://grouper.ieee.org/groups/802/3/index.html
- WE WILL MEET IN THIS ROOM

  START at 1:00 PM

11:30 802.5 Token Ring – Love

see file dot5monplen.ppt

802.5: Token Ring Working Group

Opening Plenary Presentation

Albuquerque, NM

March 00

Committee Chair: Robert D. Love

(rdlove@us.ibm.com)

802.5 Albuquerque Meeting:

- Resolution of comments against sponsor ballot of Gigabit Token Ring (802.5v)

- Forwarding Link Aggregation draft (802.5z) to sponsor level ballot

- Review of project status and future planning including hibernation

- Chair election/reaffirmation

- Mtg. Location: Enchantment E @1:00pm

802.5 Officers

- Chair
  - Robert D. Love (rdlove@us.ibm.com)
- Vice-chair
  - John Messenger (John.Messenger@8025.org)
- Recording Secretary
  - Simon Harrison (Simon.Harrison@madge.com)

E-Mail and WWW

- ## 802.5 E-Mail Reflector
  - *stds-802-5@mail.ieee.org for messages*
  - *majordomo@majordomo.ieee.org for subscription*
    - *subscribe stds-802-5 <your e-mail address>*
    - *unsubscribe stds-802-5 <your e-mail address>*

- ## 802.5 Web Site
  - *http://grouper.ieee.org/groups/802/5/*
    which links to
  - *http://www.8025.org/*

11:35 802.8 Fiber Optic TAG – Benson

No report – No Benson. Carlo states that 802.8 is in a (hopefully) final recirc.

11:38 802.11 Wireless – Hayes

5   Awards for 802.11a and 802.11b.

See file dot11monplen.ppt

Jim Carlo requests a show of appreciation for Vic Hayes's work on 802.11, which is met with resounding applause. Vic will not be able to seek re-election as the chair of 802.11 due to term limits.

IEEE P802.11, Wireless LANs

- **Recently attending:**
- **Dave Bagby**
- **Don Johnson**
- **Chan Rypinski**
- **Bob Heile**
- **Bruce Tuch**
- **Vic Hayes**

IEEE P802.11, Wireless LANs

TGc Chair: Victoria Poncini   Chair: Vic Hayes

Co-Vice-Chair: Al Petrick

Tga Chair: Naftali Chayat

SG Chair: John Fakatselis

Vice-Chair: Stuart Kerry

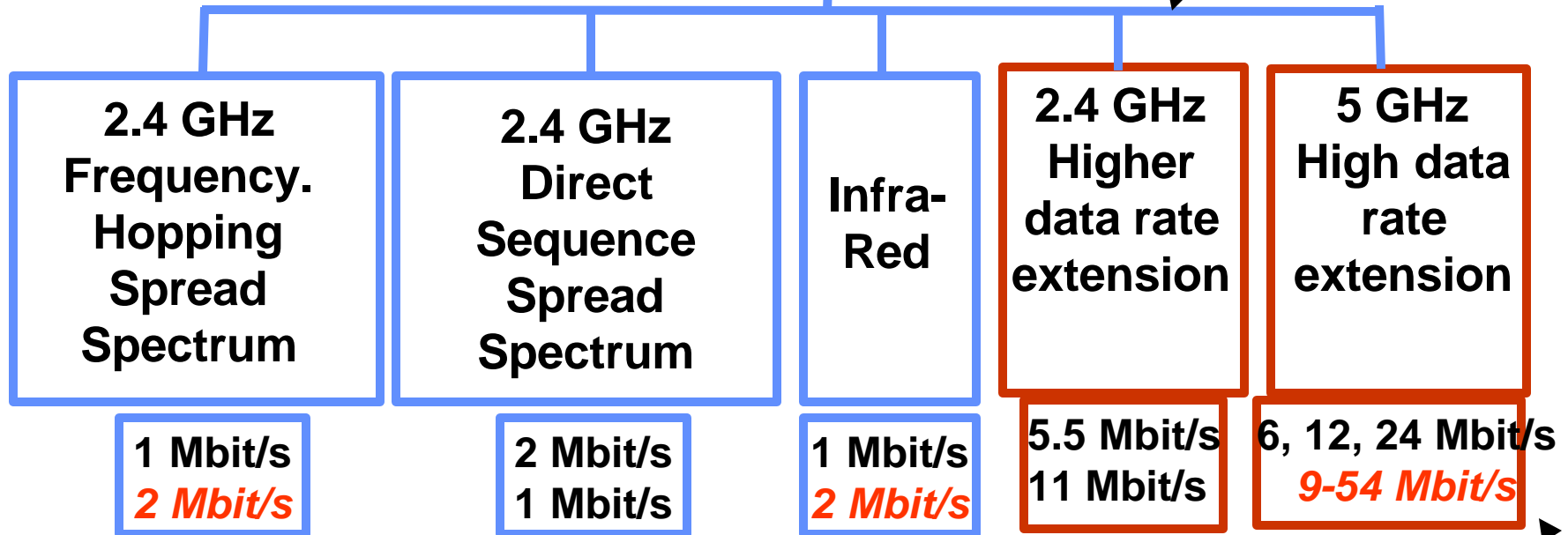TGd Chair: Bob O'Hara   Secretary: Dave Skellern

3

IEEE P802.11, Wireless LANs

ISO/IEC 8802-11:1999

IEEE Std 802.11-1999

IEEE Std 802.11b-1999

MAC

2.4 GHz Frequency. Hopping Spread Spectrum	2.4 GHz Direct Sequence Spread Spectrum	Infra-Red	2.4 GHz Higher data rate extension	5 GHz High data rate extension
1 Mbit/s *2 Mbit/s*	2 Mbit/s 1 Mbit/s	1 Mbit/s *2 Mbit/s*	5.5 Mbit/s 11 Mbit/s	6, 12, 24 Mbit/s *9-54 Mbit/s*

Legend: italic (and red) = optional

IEEE Std 802.11a-1999

4

IEEE P802.11, Wireless LANs

IEEE P   LANs

1999
IEEE Development Team
IEEE 802.11 High Rate Standard Wireless
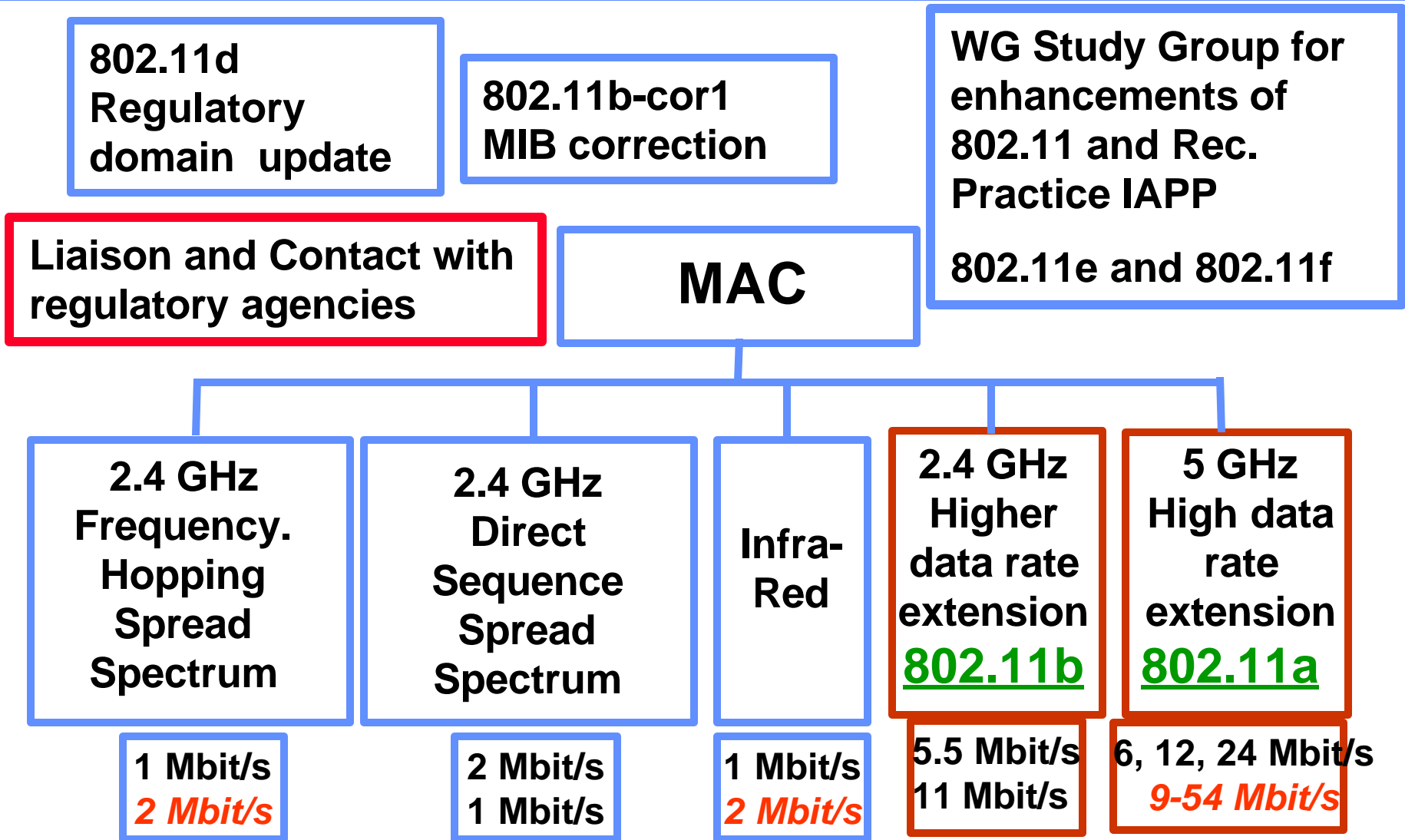LAN & Wireless Ethernet Compatibility Alliance
IEEE
Network Standards Category

IEEE P802.11, Wireless LANs

IEEE 802.11a-1999 and 802.11b-1999

- Both were sent to the printer
- Are available as PDF file
- People on the roster should receive shortly their copy through the mail

IEEE P802.11, Wireless LANs

802.11d Regulatory domain update

802.11b-cor1 MIB correction

WG Study Group for enhancements of 802.11 and Rec. Practice IAPP

802.11e and 802.11f

Liaison and Contact with regulatory agencies

MAC

2.4 GHz Frequency. Hopping Spread Spectrum

2.4 GHz Direct Sequence Spread Spectrum

Infra-Red

2.4 GHz Higher data rate extension 802.11b

5 GHz High data rate extension 802.11a

1 Mbit/s
2 Mbit/s

2 Mbit/s
1 Mbit/s

1 Mbit/s
2 Mbit/s

5.5 Mbit/s
11 Mbit/s

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

Legend: italic (and red) = optional

8

IEEE P802.11, Wireless LANs

Status of 802.11d

- **Working Group Letter Ballot resulted in 84 % approval**
  - 56 approve, 10 disapprove, 1 abstention (expertise)
  - Resolved all comments at the interim meeting
  - related editing work could not be completed
  - plan to complete at this meeting and send to WG recirculation
  - Sponsor Ballot Group to be established

9

IEEE P802.11, Wireless LANs

Status of 802.11b-cor1

- **PAR was approved by standards Board**

- **Working Group Ballot completed with 100 % approval**
    - 76 approve, 0 disapprove, 0 abstentions

- **Sponsor Ballot Group to be approved this week**

- **New issue reported**

- **to be discussed this week**

- **Plan to be made this week**

IEEE P802.11, Wireless LANs

Study Group results

- **Proposed PAR for a Supplement to IEEE Std. 802.11**
  - Enhancement of QoS and CoS metrics,
  - Enhanced Security mechanisms for supporting long keys, key negotiation & distribution and enhancements to the authenication
  - On the SEC agenda as P802.11e
  - Proposed PAR for a Recommended Practice
  - for Multi-Vendor Access Point Interoperability via Inter-Access Point Protocol across Distribution Systems supporting IEEE P802.11 operation.
  - On the SEC agenda as P802.11f

IEEE P802.11, Wireless LANs

Interim Meeting

- **Held at Tel Aviv, Israel**

- **January 6-10, hosted by Breezecom, ~63 attendees**

- **Collocated with 802.15 meeting**

- **802.11 network deployed for both 802.11 and 802.15**

- **Included a 33 kbit/s Internet Link!**

- **Enjoyed exposure to tradition (old town of Jaffa, Bethlehem, Jeruzalem)**

12

IEEE P802.11, Wireless LANs

Achievements Tel Aviv

- **802.11d addressed comments from WG Ballot (84 %)**

- **802.11b-cor1 addressed comments (100 %)**

- **Study Group submitted call for proposals**

- **Regulatory work**
  - Addressed concerns expressed in South Korea because of a licensed service being regulated just below the band
  - Response from inquiry showed n action was required

IEEE P802.11, Wireless LANs

Other Regulatory issues

- **IEEE LMSC response to the Consultation document of the UK RadioCommunications agency was filed**

- **to allow for competition in the 5 GHz band**

IEEE P802.11, Wireless LANs

Objectives for this meeting

- process TGd **recirculation ballot results**

- work on 802.11b-cor and submit to Sponsor Ballot

- submit PARs Enh. MAC and IAPP to ExCom, other PARs where necessary

- find (new) / elect officers

- Send letters to liaison groups and to regulatory agencies as needed

15

IEEE P802.11, Wireless LANs

		Monday	Tuesday		Wednesday		Thursday		Friday
		Large Room	Room 1	Large Room	Room 1	Large Room	Room 1	Large Room	
08:30 - 10:00				SG enh	Regula	SG PARs	Regula	SG enh	
	ExCom					Tech Plen on 802.1x			802
10:30 - 12:00			Regula	SG IA	Regula	TGd/b-cor	Regula	TGd	
	802								
13:00 - 15:00		Full WG	Regula	SG IA		.11/.15		Full WG	
15:30 - 17:30		TGd	Regula	TGd		Full WG			
18:30 - 20:00	Tutorial WB RF			Tutorial Disney		Social		ExCom	
19:00 - 24:00									

IEEE P802.11, Wireless LANs

LCD Projectors

- **NEVER PULL THE POWER PLUG BEFORE THE LAMP HAS COOLED DOWN!**

- **I.e >30 seconds from off button**

17

11:43 801.14 CATV Modem – Russell

Completed work in July, 1999. Industry preferred a different forum and process.

In November, voted to withdraw 802.14 and 802.14a PARs. Archive will be
posted on www.ieee802.org. One last meeting this week, Tuesday. Must decide whether
to seek new work, or disband.

Paul Nikolich requests a show of appreciation for Robert Russell's work on 802.14,
which is met with resounding applause.

11:45 802.15 WPAN – Heile

see file dot15monplen.ppt

11:50 802.16 BBWA – Marks

see file dot16monplen.ppt

802.16 Status Report

- Broadband Wireless Access Working Group
- Large and growing interest and attendance
  - November 1999: 107 sign-ins, 90 "participants"
  - January 2000: 118 sign-ins, 92 "participants"
- This meeting:
  - 802.16.1
  - 802.16.2
  - "Sub10" Study Group
  - Visitors
    - Andrea Nascimbene: ETSI BRAN HIPERACCESS
    - Tetsuya Shirouzu: Association of Radio Industries and Businesses (ARIB)

802.16.1

- "Air Interface for Fixed Broadband Wireless Access Systems" {10-66 GHz}
- November 1999
  - 19 PHY Proposals
  - 15 MAC Proposals
- January 2000
  - 3 PHY Proposals (2 consolidated)
  - 2 MAC Proposals (2 consolidated)
- March 2000
  - 2 PHY/MAC Proposals
- Selection set for May2000

802.16.2

- "Coexistence of Broadband Wireless Access Systems"

- Intend to request Working Group Letter Ballot to begin after this meeting

802.16 PAR Request

- 802.16.3: "Air Interface for Fixed Broadband Wireless Access Systems Operating Below 11 GHz"
- Drafted by 802.16's "Sub10" Study Group
  - chartered by the 802 SEC on 11 November 1999 "to investigate establishing air interface specifications for fixed point to multi-point Broadband Wireless Access systems operating in frequency bands below 10 GHz"
  - Brian Kiernan, Chair
  - Met 10-11 January 2000 during 802.16 Session #5
  - 101 people from 72 companies attended
  - approved PAR by vote of 47-0-1
  - 802.16 approved submission of PAR by a vote of 18-1

Plans

- **Study Group Meetings:**
  - **Tuesday (day time)**
  - **Tuesday evening (without 802.16 conflicts)**
  - **Wednesday**

- 802.16 Plenary to consider PAR
  - Wednesday, 3:30-5:00 pm

- **Study Group Meets again:**
  - **Thursday a.m. to consider Functional Requirements**

12:00 Tutorials, Social, Meeting Arrangements – Rigsbee

Meeting Adjourned 12:00 noon.

Respectfully Submitted,
5   Howard Frazier
Recording Secretary