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

Monday, November 6th, 2000 - 8:00 a.m.

Hyatt Regency, Tampa, FL

1. MEETING CALLED TO ORDER

Jim Carlo called the meeting to order at 8:00 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 |
| Tony Jeffree | - 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 |
| 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 RPRSG – Resilient Packet Ring Study Group |
| Vic Hayes | - Regulatory Ombudsman |
| Pat Thaler | - Chair, IEEE P802.12 – DPAM Working Group (in hibernation) |

The meeting was attended by approximately 10 IEEE 802 Working Group members and several guests including Denise Scozzafava.

## 2. APPROVE OR MODIFY AGENDA

### Motion to approve agenda

### Nikolich/Love

### 11/0/0 Approved at 8:05 am

**AGENDA - IEEE 802 LMSC EXECUTIVE COMMITTEE MEETING**

**Monday, November 6 , 2000 - 8:00 a.m.**

**Hyatt Regency Tampa, FL**

| | | | | | | |
|---|---|---|---|---|---|---|
| **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** | **08:10 AM** |
| | **Category (* = consent agenda)** | | | | | |
| **5.00** | **ME** | **802.5v to RevCom** | **-** | **LOVE** | **5** | **08:20 AM** |
| **5.01** | **ME** | **802.11d to Sponsor Ballot** | **-** | **KERRY** | **5** | **08:25 AM** |
| **5.02** | **ME** | **OID Root Identifier** | **-** | **JEFFREE** | **5** | **08:30 AM** |
| **5.03** | **ME** | **SA Balloting Center and Electronic Balloting** | **-** | **CARLO** | **5** | **08:35 AM** |
| **5.04** | **ME** | | **-** | | **0** | **08:40 AM** |
| **5.05** | **MI** | **Rules Ballot Results** | **-** | **NIKOLICH** | **5** | **08:40 AM** |
| **5.06** | **MI** | **Projectors Not Cookies** | **-** | **THOMPSON** | **1** | **08:45 AM** |

| | | | | | | |
|---|---|---|---|---|---|---|
| **5.07** | **MI** | **More Projectors** | **-** | **RIGSBEE** | **3** | **08:46 AM** |
| **5.08** | **MI** | **More Cookies** | **-** | **MONSTER** | **1** | **08:49 AM** |
| **5.09** | **DT** | **802 Standards Distribution Program** | **-** | **FRAZIER** | **6** | **08:50 AM** |
| **5.10** | **DT** | **stds-802-sec reflector membership** | **-** | **FRAZIER** | **2** | **08:56 AM** |
| **5.11** | **DT** | **Networking 802 Meetings** | **-** | **NIKOLICH** | **7** | **08:58 AM** |
| **5.12** | **DT** | **Database Update Status & Web Registration** | **-** | **RIGSBEE** | **5** | **09:05 AM** |
| **5.13** | **DT** | **802 Hosted Interim Meetings** | **-** | **RIGSBEE** | **5** | **09:10 AM** |
| **5.14** | | **BREAK** | **-** | | **10** | **09:15 AM** |
| **5.15** | **II** | **RPRSG ECSG Report** | **-** | **TAKEFMAN** | **10** | **09:25 AM** |
| **5.16** | **II** | **802.11a Spectrum Managed PAR** | **-** | **KERRY** | **8** | **09:35 AM** |
| **5.17** | **II** | **802.15.? Low Rate PAR** | **-** | **HEILE** | **7** | **09:43 AM** |
| **5.18** | **II** | **802.16.? PAR Modifications** | **-** | **MARKS** | **5** | **09:50 AM** |
| **5.19** | **II** | **802.16.? WirelessHUMAN PAR** | **-** | **MARKS** | **10** | **09:55 AM** |
| **5.20** | **II** | **802.3 CFI - Ethernet in the Last Mile** | **-** | **FRAZIER** | **5** | **10:05 AM** |
| **5.21** | **II** | **Y2K+1 CDROM** | **-** | **FRAZIER** | **2** | **10:10 AM** |
| **5.22** | **II** | **Administrative Withdrawal of 802.12, .12c & .12d** | **-** | **THALER** | **3** | **10:12 AM** |
| **5.22a** | **II** | **802 Chair Summary** | **-** | **CARLO** | **5** | **10:15 AM** |
| **5.23** | **II** | **Early Warning for 3/01 Hilton Head Meeting** | **-** | **RIGSBEE** | **5** | **10:20 AM** |
| **5.24** | **II** | **Meeting Fee Waivers** | **-** | **CARLO** | **5** | **10:25 AM** |
| **5.25** | **DT** | **Eliminate Paper at Tutorials** | | **HEILE** | **5** | **10:30 AM** |
| | | **ADJOURN** | | | | **10:30 AM** |

**ME - Motion, External** **MI - Motion, Internal**

**DT- Discussion Topic** **II - Information Item**

**3.00 Approve minutes of previous meeting**

**Approved at 8:05 as part of consent agenda**

**4.00 Treasurer's Report – Grow**

**(see file montreasrep.pdf)**

Record attendance, record income, and record expenses at the last meeting.

Net change in operating reserve of minus $16,391. Haven't accounted for new projectors and a few other significant items.

5.00 802.5v to RevCom – Love

Love has no personal interest in Token Ring standard. Has asked Madge to fund cost of sending 802.5v to RevCom.

Carlo: What is 802.5v? Love: Gigabit Token Ring.

Carlo: What was the sponsor ballot vote? Love: 42/3/2. Haven't received communication from negative balloters stating that their votes can be converted. Love: Trying to see if WG members are interested in moving forward.

Frazier/Thompson: You don't have a choice as to whether to submit. SA rules say that you must submit to RevCom once 75% consensus has been achieved.

Carlo: Note worried at $100 expense. Worried about whether 802.5v has passed sponsor ballot. Asks Love to review sponsor ballot results at Thursday meeting.

# IEEE Project 802
## Statement of Operations
## July 2000 Meeting

| | | | | | | |
|---|---|---|---|---|---|---|
| *open* | **9 July Operating Reserve** | | | **75,287** | | |
| **March 2000 Meeting Income:** | | | | ***Actual*** | *Budget* | |
| **294** | **Registrations@** | **$300** | **88,200** | | | |
| **557** | **Registrations@** | **$250** | **139,250** | | | |
| | **Registrations@** | **$100** | **0** | | | |
| ***Subtotal*** | | | **227,450** | **227,450** | 182,000 | |
| **Deadbeat Registrations** | | | | **900** | 0 | |
| **Bank Interest** | | | | **426** | 200 | |
| **Other** | | | | **1,250** | 400 | |
| *plus* | **TOTAL Income** | | | **230,026** | 182,600 | |
| **March 2000 Meeting Expenses:** | | | | ***Actual*** | *Budget* | |
| **Audio Visual Rentals** | | | | **4,914** | 5,000 | |
| **Bank Charges** | | | | **0** | 25 | |
| **Copying** | | | | **2,925** | 9,100 | ** |
| **Credit Card Discounts** | | | | **5,945** | 5,096 | * |
| **International Program Fee** | | | | **22,200** | 22,200 | * |
| **Meeting Administration** | | | | **48,777** | 44,300 | * |
| **Phone & Electrical** | | | | **1,697** | 1,500 | |
| **Refreshments** | | | | **48,112** | 26,600 | |
| **Shipping** | | | | **1,048** | 3,500 | |
| **Social** | | | | **42,326** | 21,000 | |
| **Supplies** | | | | **0** | 100 | |
| **Other** | | | | **3,170** | 1,500 | |
| *minus* | **TOTAL Meeting Expense** | | | **181,115** | 139,921 | |
| *minus* | **Escrow for Free Standards** | | | **63,825** | 30,300 | |
| *minus* | **Equipment Expense** | | | **1,477** | 5,000 | ** |
| *equals* | **Jul 2000 Operating Reserve** | | | **58,896** | 0 | |
| | **Net Change in Operating Reserve** | | | **(16,391)** | 7,379 | ** |

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

** Copier not yet invoiced (est.$6000), four LCD projectors not paid for (est. $15000)

**5.01 802.11d to sponsor ballot – Kerry**

**(see file dot11dmonsec.pdf)**

**Move to forward 802.11d to sponsor ballot**

**Kerry/Hayes**

**Approved 11/0/0 at 8:20 am**

**5.02 OID Root Identifier – Jeffree**

Jeffree recaps email he distributed on the subject of OID arcs. Dot1 needs to get another OID arc, and is putting together a scheme which is extensible for all of 802.

Thompson points out that 802.3 already did this for ISO-ization of dot3 stds. Says that this could be re-used, even with multiple root entries.

Jeffree suggests that this might not work for non-ISO-ized 802 standards.

Thompson points out that the arc with the 8802 root is already assigned.

Carlo asks Jeffree/Thompson/Hal Keen to discuss.

Agenda:___5.01____
Date: 6 November 2000
Time:_08:20___

# IEEE 802 LMSC RESOLUTION

Motion By: __Kerry_____ Seconded By: _Hayes____

Move to forward 802.11d supplement to IEEE sponsor ballot.

After recirculation the final cumulative vote tally is

Approve: 90
Do not approve: 0
Abstain: 0

Approve _11____ Do Not Approve___0__ Abstain _____0__

**5.03 Balloting Center and Electronic Balloting – Carlo**

**(see file carlo.pdf pp 2-3)**

Carlo asks Denise Scozzafava to recap current statistics for 802 sponsor ballots. Scozzafava presents status.

Carlo presents IEEE-SA balloting survey.

Thompson questions balloting center's claim that they provide "excellent service".

Carlo appoints Thompson/Kerry/Frazier to draft 802 position statement in response to survey. Group will meet at 9:00 am Wednesday.

5.04 Empty agenda item

# IEEE-SA Balloting Survey

- A motion was unanimously approved at the 21 September IEEE-SA Standards Board meeting to address two important issues regarding balloting. The motion that was approved would:
- 1) encourage all IEEE balloting groups to utilize the IEEE balloting center, and
- 2) move toward the exclusive use of electronic balloting
- To date, there have been more than 30 successful electronic ballots conducted by the IEEE balloting center. The service provided is convenient, reliable and valid, and saves both time and money.
- Invitations to ballot are still done by mail, and this step will be the next piece of the process to be "electronicized".
- Today, approximately 99% of all ballots conducted are administered by the IEEE balloting center. Based upon the IEEE Balloting Center's excellent service and their commitment to expediency, the IEEE balloting staff would like ALL balloting groups to come under the IEEE balloting center umbrella.

# Response from 802 on Ballot Survey

- The invitations to ballot should be sent only by the means by which the ballot will be conducted
- The balloting center should stop using paper based systems for communication with its customers
- IEEE-SA should not MANDATE that all Sponsor Ballots be conducted through the balloting service:
  - IEEE 802 does support encouragement for all groups to use the IEEE Ballot center.
  - There may be circumstances where a different ballot approach is appropriate.
- Codify in writing procedures for Electronic Balloting, in particular define all critical path dependencies external to the balloting service.
  - Check list for submitters
  - Check list for IEEE-SA staff
- The IEEE-SA balloting service should set up metrics on their performance and report these metrics at the quarterly standards board meeting
  - Turn-around time (recommend a 24-hour goal) for ballot service processes (e.g., time from sponsor approval to invitation, time from balloting closing to reporting of results )
  - Number of ballots conducted, and other statistics.

**5.05 Rules Ballot Results – Nikolich**

Nikolich recaps results of letter ballot on the three proposed rules changes. After initial ballot, Scope passed, Proc 3 and Proc 10 changes failed. Held comment resolution meeting last night, believes that there are now enough positive votes to get approval on Scope and Proc 3. Still need to resolve comments on Proc 10. Will hold another meeting at 10:00 am on Wednesday.

Two new rule changes being proposed. One from Bill Quackenbush concerning ambiguity on definition of "membership". Roger Marks has asked for a change to procedure 1 "use of funds" to explicitly allow use of funds for standards distribution.

Carlo thanks Nikolich for doing the thankless job of shepherding the rules changes.

**5.06 Projectors Not Cookies – Thompson**

Our job is standards development, not refreshments. We spend too much time talking about cookies and brownies. We should not fuss about cookies.

Carlo notes that he would rather have another Indian beer than talk about cookies anymore.

**5.07 More Projectors – Rigsbee**

Presents motion to buy the more projectors:

Motion:

**To invest savings from Hyatt-hosted social at Tampa to purchase 3 more projectors for use at future meeting. (1-large + 2 small) + cases. Estimated cost: $14K**

**Rigsbee/Frazier**

Carlo asks WG chairs how many projectors we currently are using. Kerry, Heile, Thompson, Marks answer 5. Takefman answers 2.

Thompson asks about ongoing costs, such as storage, shipping, insurance, maintenance. Grow and Rigsbee agree to put together a cost estimate for Thursday.

Thaler observes that we are accumulating a lot of capital equipment. Perhaps we could pay for shipping for projectors brought from volunteers

Frazier seconds motion

**9/0/2 Approved at 8:45 am.**

**5.08 More Cookies – Monster**

**YUM! Cookies Good!**

**5.09 Standards Distribution Program – Frazier**

Frazier recaps current status of standards distribution program. Believes that current proposal is doomed.

Asks for meeting on Wednesday to move the program forward. Meeting set for 11:00 am Wednesday.

Thompson states that it seems to be worthwhile to continue to pursue this. We are continuing to collect $75 a head.

Carlo says that we must drive this program to a conclusion or stop collecting the bucks.

**5.10 stds-802-sec reflector membership – Frazier**

Recaps email exchange. Thompson/Carlo suggests that we need a one sentence policy which says that “stds-802-sec” reflector membership must be sponsored by an SEC member. This will be added to the chair’s guidelines.

**5.11 Networking 802 meetings – Nikolich**

Nikolich presents overview of wireless networking services provided for this meeting.

**5.12 Database update status and web registration – Rigsbee**

Rigsbee recaps web registration process.

Frazier suggests that we need to hire a consultant to develop database. Will come back with “NTE” authorization on Thursday.

**5.13 802 Hosted Interim meetings – Rigsbee**

**(see file meetingproposal.pdf)**

Rigsbee recaps 802 Interim Meeting proposal. Distributes handout. Shows form of a poll that he would like each WG chair to conduct. Presents several possible dates for interim meetings in 2001 and 2002. Frazier observes that Sept 2001 dates conflict with standards board. Kerry states that companies should be allowed to host meetings, and that competitive bids should be sought for the meeting services for these interims.

**5.14 Break**

# 802 Interim Meeting Proposal

## Basic Characteristics:

- **Meeting is an IEEE 802 sponsored event at 1 hotel during midway week**
- **Will utilize 802 Web Registration for fee & attendee data collection**
- **Services & Support will be equivalent to those of 802 Plenary**
  - **Copying, AV equipment & printers, coffee/soda breaks, etc.**
- **Host Companies not required – can be used for extras when available**
  - **Lunches, Social, Tours, Entertainment, etc.**
- **Hotel Agreements will be as per standard 802 Guidelines**
- **No Plenary or SEC meetings – Just WG sessions**
- **Meeting space available to WGs from Monday AM thru Friday PM**
- **Agendas will be set as for plenary (30-day advance deadline, post-adjustments will be accommodated as possible, no guarantees)**

## Pros:

- **All the facilities and repeatability of the 802 Plenary meetings**
- **Professional staff providing all arrangements and services**
- **Best-Buy deals because of economies of scale**
- **All meeting information will be posted on 802 Website**
- **No hassle commitment from meeting hosts per budget amount**

## Cons:

- **Everyone must agree on same week and hotel**
- **Hosts can't always choose their venue**
- **WG's must commit to participate at prior plenary**

## Start Dates: May 14-18, Sept 10-14, 2001, Jan '02 ???

**Need commitment at least one plenary in advance for start-up lead-time.**

# 802 Interim Meeting Proposal

__ ~ __

## _____ WG Poll to Determine Preferences:

1. **Do we really want to do this on an ongoing basis ???**

   **Yes: _____** **No: _____**

2. **When would be the best time for WG to join 802-hosted Interim ??? (vote for one):**

   **May 14-18, 2001:** **# _____**

   **Sept 10-14, 2001:** **# _____**

   **Jan 14-18, 2002:** **# _____**

   **Never:** **# _____**

### 5.15 RPRSG ECSG Report – Takefman

**(see file rprmonsec.pdf)**

Held interim SG meeting. Healthy increase in attendance. Distributed draft PAR and 5 Criteria over 30 days ago. Lot's of interest from new companies. This week, will continue work on SG objectives. Have heard no feedback from other dot groups yet. Plan to ask for PAR approval at Thursday evening SEC meeting.

# RPRSG Status Report
# Nov 5, 2000 SEC Meeting


## Mike Takefman

Chair of RPRSG

tak@cisco.com


http://www.ieee802.org/rprsg

stds-802-rprsg@majordomo.ieee.org

# RPRSG Interim Meeting

- August 28/29, 2000 San Jose
- 40 attendees representing 23 organizations
- 13 presentations
- Approved PAR and 5 Criteria Documents to be forwarded to SEC for approval in November
- Reflector membership growing

# Plans for this week

- 1 day of new material to be presented
- continue discussion / drafting of RPRWG objectives, scope
- await comments / questions from other dot groups and respond
- request SEC to approve PAR and 5 Criteria
- working group operations
- schedule first RPRWG interim

**5.16 802.11a Spectrum Managed PAR - Kerry**

Kerry recaps PAR (802.11h, an amendment to 802.11a.) Kerry introduces Carl Temme, chair for 802.11h. On NesCom agenda for December.

**5.17 802.15.4 Low Rate PAR Heile**

This PAR "rounds out" the WPAN space. PAR was distributed with required 30 day notice. Expects to ask for PAR approval Thursday night. On NesCom agenda for December. Carlo asks if this project operates at 2.4 GHz. Heile states that it is in unlicensed spectrum. Could be 2.4 GHz, could be lower.

**5.18 802.16.? PAR modifications – Marks**

Having problems with PAR numbering. Would like to do an amendment to their PARs to renumber. Also want to reflect common MAC. Presents alternatives for numbering.

**5.19 802.16 WirelessHUMAN PAR – Marks**

Interaction with dot11 because of overlapping spectrum. Will be holding a discussion session Monday night (tonight) during tutorial slot. Trying to work with dot11 to resolve issues. Numbering will change to 802.16b.

**5.20802.3 Ethernet in the Last Mile CFI – Frazier**

Call for interest meeting will be held Tuesday night, 6:30 to 9:30 pm. Every one is invited to attend.

**5.21Y2K+1 CDROM – Frazier**

Will be distributed starting 1:00 pm Wednesday afternoon. Need voting member lists to Buzz in hardcopy by Tuesday at 5:00 pm

**5.22Administrative withdraw of 802.12, 802.12c and 802.12d.**

Thaler says that 802.12 is happy with withdrawal.

Frazier suggests that once 802.12 is withdrawn, SEC should vote to disband WG.

Thompson offers motion that:

**No withdrawn standards will be included in future 802 CDROMs.**

**Thompson/Grow**

Thaler notes that 802.8 is available in draft form, with no indication that it is dead.

Carlo: need to clean this up.

**Approved: 9/1/1**

**5.22a IEEE 802 Chair Summary – Carlo**

IEEE 802 passed IEEE audit. Thanks for diligent efforts from Grow, Thaler, et al.

Many discussions with IEEE-SA on IEEE-ISTO issues.

802 process issues –chair view

- appointed members on SEC = WG chair members

# IEEE 802 Chair Summary

- IEEE 802 Passed IEEE Audit. Only issue is the eventual movement to consolidated checking account.
- Take no action and allow 802.12 Demand Priority Standards to be administratively withdrawn at the Dec-2000 Standards Board meeting.
- Many discussions with IEEE-SA on IEEE-ISTO issues. Actions regarding terminology in progress. Update from Susan Tatiner (Tuesday).

# 802 Process Issues - Chair View

- Appointed voters exceeds WG chair Voters on SEC?
  - Five appointed members (five active WG chair members)
- Interim Meetings Sponsored through IEEE 802?
  - Large Interim meetings sponsorship difficult
- Should 802 organize into Wireline & Wireless?
  - Focussed technology areas
  - Loss in common efficiency

# Meeting Fee Waivers - Nov2000

- The following fees have been waived for Nov2000 meeting by the chair.

- Denise Scazzafava - IEEE Staff - 802 Liaison
- Susan Tatiner - IEEE Staff - Publications
- Jerry Walker? - IEEE Staff

- Interim meetings sponsored by 802

- Should 802 organize into wireline and wireless.

**5.23 Early warning on 3/01 Hilton Head meeting – Rigsbee**

Advised by management of Hyatt Regency Hilton Head that management company may change just prior to March 01 meeting, becoming a Marriot. (EGADS!). Rigsbee believes that GM and most of the staff will stay on after transition, impact should be minimal. Rigsbee is a little concerned, will keep 802 posted. Final decision not expected until December. Warning notice on Meeting Announcement that is being distributed at this meeting. Rigsbee suggests that people make reservations directly with hotel, rather than through Hyatt 800 number.

**5.24 Meeting fee waivers – Carlo**

Denise Scozzafava – IEEE

Susan Tatiner – IEEE

Jerry Walker – IEEE (not in attendance at the plenary this week)

**5.25 Eliminate paper at tutorial - Heile**

Wants to change chair guidelines to eliminate requirement for paper copies.

Heile offers motion:

**To allow electronic distribution of tutorial materials vs paper copies if available 7 days ahead of the meeting.**

**Heile/Kerry**

Thompson asks to table. Seconded by Rigsbee. **Tabled without objection.**

**5.26 More about Tutorials – Marks**

Tutorial situation is unsatisfactory. Objecting to inclusion of last minute tutorials.

**Summary of SEC Chair's meetings for the week:**

**(see file carlo.ppt pg 1)**

# SEC Chair's Meetings

| TIME | Purpose | Who | Location |
|---|---|---|---|
| MON | | | |
| 5:00 | | | |
| | | | |
| TUES | | | |
| 8:00 | Regulatory Meeting | Hayes | Esplanade3 |
| 10:00 | Computer Society SAB | Carlo | BDR |
| 1:00 | Steinmetz Award Call | Carlo | BDR |
| 2:00 | | | |
| 3:00 | | | |
| WED | | | |
| 9:00 | Ballot Survey Response | Thompson | |
| 10:00 | Rules Meeting | Nikolich | |
| 11:00 | Standards Distribution Program | Frazier | |
| 1:00 | Joint 802.11/802.15 | | |
| 2:00 | | | |
| 3:00 | | | |
| 5:00 | | | |

# AGENDA & MINUTES (Unconfirmed) - IEEE 802 Monday Opening Plenary Meeting

Monday, November 6th, 2000 - 11:00 a.m.

Hyatt Regency, Tampa, FL

## 1. MEETING CALLED TO ORDER

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

**11:00 Welcome and Review on SEC Meeting – Carlo**

(see file carlo.pdf pp 7-15)

Carlo recaps organization of IEEE 802, relationship to IEEE SA, Patent Policy. Notes that two working groups (dot8 and dot14) have been disbanded. Those groups never produced a standard.

Carlo reviews the agenda for the Monday morning SEC meeting.

# IEEE802 Monday Plenary Agenda

| | | |
|---|---|---|
| • 11:00 | Welcome and Review of SEC Meeting | Carlo |
| • 11:07 | IEEE Standards Availability / CD ROM | Frazier |
| • 11.12 | Voting Rules and IEEE 802 Operating Rules | Nikolich |
| • 11:15 | Treasurer's Report | Grow |
| • 11:20 | Regulatory Ombudsman | Hayes |
| • 11:25 | IEEE Project Editors Status Report | Scozzafava |
| • 11:30 | 802.1 Management/VLANs | Jeffree |
| • 11:34 | 802.3 CSMA/CD | Thompson |
| • 11:39 | 802.11 Wireless | Kerry |
| • 11:44 | 802.15 WPAN | Heile |
| • 11:49 | 802.16 BWA | Marks |
| • 11:54 | Exec SG - Resilient Packet Ring (PRSG) | Takefman |
| • 11:58 | Tutorials, Meeting Arrangements | Rigsbee |
| • 12:00 | ADJOURN | |

**http://www.ieee802.org**

# IEEE 802 ORGANIZATION

## SPONSOR EXECUTIVE COMMITTEE (SEC)

**CHAIR**
**Jim Carlo**

### WORKING GROUP CHAIRS

**802.1**
**BRIDGING/ARCH**
**Tony Jeffree**

**802.3**
**CSMA/CD**
**Geoff Thompson**

**802.17****
**ResPackRing**
**Mike Takefman**

**802.11**
**WLAN**
**Stuart J. Kerry**

**802.15**
**WPAN**
**Bob Heile**

**802.16**
**BWA**
**Roger Marks**

### APPOINTED OFFICERS

**VICE CHAIR**
**Paul Nikolich**

**RECORDING SEC**
**Howard Frazier**

**EXECUTIVE SEC**
**Buzz Rigsbee**

**TREASURER**
**Bob Grow**

**REGULATORY**
**Vic Hayes**

** Effective after PAR approval by StdBd(7Dec/2000)

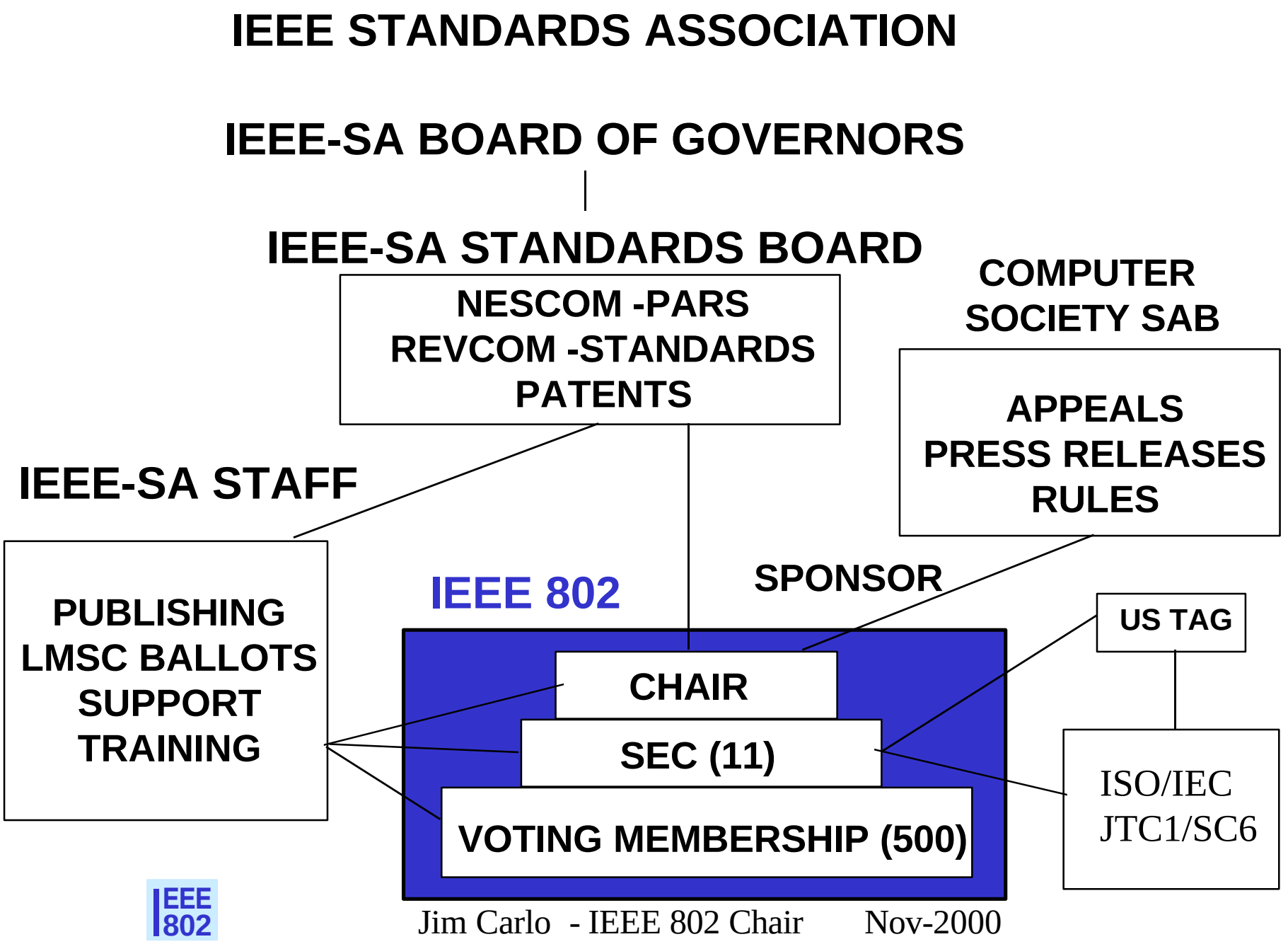
## HIBERNATION

802.2 LLC (Dave Carlson)
802.4 Token Bus (Paul Eastman)
802.7 Broadband TAG (P Nikolich)
802.10 Security (Ken Alonge)
802.5 Token Ring (Bob Love*)
802.6 DQDB (Jim Mollenauer)
802.9 ISLAN (D. Vaman)
802.12 Demand Priority (Pat Thaler)

* SEC Voting Member until Mar2001

## DISBANDED

802.8 Fiber Optic TAG (C. Benson)
802.14 CATV (Robert Russell)


IEEE STANDARDS ASSOCIATION
IEEE-SA BOARD OF GOVERNORS
IEEE-SA STANDARDS BOARD
NESCOM -PARS
REVCOM -STANDARDS
PATENTS
COMPUTER
SOCIETY SAB
APPEALS
PRESS RELEASES
RULES
IEEE-SA STAFF
PUBLISHING
LMSC BALLOTS
SUPPORT
TRAINING
IEEE 802
SPONSOR
US TAG
CHAIR
SEC (11)
VOTING MEMBERSHIP (500)
ISO/IEC
JTC1/SC6
IEEE 802
Jim Carlo - IEEE 802 Chair Nov-2000

# Jim Carlo - IEEE 802 Chair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- Texas Instruments, Dallas, TX


- Goals for IEEE 802 - 2000
  - Enable IEEE802 to develop consensus standards that benefits the World Wide Networked Society.
  - Maintain the imperative principals of due process, consensus, openness, balance and rights of appeal.
  - Electronic distribution of standards.

# Patents -IEEE-SA Standards Board Bylaws (Oct 1999)

**6. Patents**

IEEE standards may include the known use of patent(s), including patent applications, if there is technical justification in the opinion of the standards-developing committee and provided the IEEE receives assurance from the patent holder that it will license applicants under reasonable terms and conditions for the purpose of implementing the standard. This assurance shall be provided without coercion and prior to approval of the standard (or reaffirmation when a patent becomes known after initial approval of the standard). This assurance shall be a letter that is in the form of either

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

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

# Patents - IEEE-SA Standards Board Operations Manual (Jan 2000)

## 6.3 Patents

The patent policy is set forth in clause 6 of the *IEEE-SA Standards Board Bylaw*s. Patent holders shall submit letters of assurance to the IEEE Standards Department (to the attention of the Staff Administrator, Intellectual Property Rights) before the time of IEEE-SA Standards Board review for approval. In the event that a patent may apply to a standard and a letter of assurance cannot be obtained, the working group shall refer this matter to the Patents Administrator in the IEEE Standards Department. Unless the letter of assurance is received from an individual within the issuing organization who has clear authority for intellectual property and/or legal matters, the IEEE Standards Department (Administrator, Intellectual Property) shall send a certified letter, return receipt requested, to the General Counsel of the issuing organization to confirm receipt of the letter of assurance and to ensure that the letter of assurance is factually correct and was submitted by an appropriate individual within the issuing organization. No response to this letter, other than the return receipt, is required. The IEEE will provide contact information about the patent holder upon request.

# Patents - IEEE-SA Standards Board Operations Manual (Jan 2000)

**6.3.1 Public notice**

The following notice shall appear when the IEEE receives assurance from a known patent holder prior to the time of publication that a license will be made available to all applicants either without compensation or under reasonable rates, terms, and conditions that are demonstrably free of any unfair discrimination.

"Attention is called to the possibility that implementation of this standard may require use of subject matter covered by patent rights. By publication of this standard, no position is taken with respect to the existence or validity of any patent rights in connection therewith. The IEEE shall not be responsible for identifying patents for which a license may be required by an IEEE standard or for conducting inquiries into the legal validity or scope of those patents that are brought to its attention. A patent holder has filed a statement of assurance that it will grant licenses under these rights without compensation or under reasonable rates and nondiscriminatory, reasonable terms and conditions to all applicants desiring to obtain such licenses. The IEEE makes no representation as to the reasonableness of rates and/or terms and conditions of the license agreements offered by patent holders. Further information may be obtained from the IEEE Standards Department. "

If the IEEE has not received letters of assurance prior to the time of publication, the following notice shall appear:

"Attention is called to the possibility that implementation of this standard may require use of subject matter covered by patent rights. By publication of this standard, no position is taken with respect to the existence or validity of any patent rights in connection therewith. The IEEE shall not be responsible for identifying patents for which a license may be required by an IEEE standard or for conducting inquiries into the legal validity or scope of those patents that are brought to its attention."

### 6.3.2 Submittal

Through the working group, the Sponsor chair shall request that known patent holders submit a statement either that the patent does not apply to the standard or that licenses will be made available without compensation or under reasonable rates, terms, and conditions. This assurance shall be obtained without coercion and submitted to the IEEE at the earliest practical time prior to the approval of an IEEE standard.

The IEEE encourages early disclosure to the working group of patent information that might be relevant to the standard. While standards may include the known use of patents if there is technical justification, the working group should not attempt to determine whether or not a patent applies. The working group shall accept the view of the patent holder.

### 6.3.3 Disclaimer

The IEEE shall not be responsible for identifying all patents for which a license may be required by an IEEE standard or for conducting inquiries into the legal validity or scope of those patents that are brought to its attention.

# 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.

**11:07 802 Y2K+1 CDROM – Frazier**

Frazier announces availability of the Y2K+1 edition of the 802 standards CDROM. CDs will be distributed starting Wednesday afternoon at 1:00 pm, to voting members of working groups.

Frazier announces that "standards for free" program is still in development.

**11:12 Voting Rules and Operating Rules. – Nikolich**

Paul tells people where to find the rules.

**11:15 Treasurer's Report – Grow**

(see file montreasrep.pdf)

Grow presents treasurer's report. Record attendance and income, record expenses. Major accrual for free distribution of standards. Xerox still has to invoice us for the copier used at the July meeting. Haven't accounted for recently approved expenditure for additional projects.

Carlo notes that we recently passed an IEEE audit, thanks to Grow's diligent efforts.

# IEEE Project 802
## Statement of Operations
## July 2000 Meeting

| | | | | | | |
|---|---|---|---|---|---|---|
| *open* | **9 July Operating Reserve** | | | **75,287** | | |
| **March 2000 Meeting Income:** | | | | ***Actual*** | *Budget* | |
| **294** | **Registrations@** | **$300** | **88,200** | | | |
| **557** | **Registrations@** | **$250** | **139,250** | | | |
| | **Registrations@** | **$100** | **0** | | | |
| ***Subtotal*** | | | **227,450** | **227,450** | 182,000 | |
| **Deadbeat Registrations** | | | | **900** | 0 | |
| **Bank Interest** | | | | **426** | 200 | |
| **Other** | | | | **1,250** | 400 | |
| *plus* | **TOTAL Income** | | | **230,026** | 182,600 | |
| **March 2000 Meeting Expenses:** | | | | ***Actual*** | *Budget* | |
| **Audio Visual Rentals** | | | | **4,914** | 5,000 | |
| **Bank Charges** | | | | **0** | 25 | |
| **Copying** | | | | **2,925** | 9,100 | ** |
| **Credit Card Discounts** | | | | **5,945** | 5,096 | * |
| **International Program Fee** | | | | **22,200** | 22,200 | * |
| **Meeting Administration** | | | | **48,777** | 44,300 | * |
| **Phone & Electrical** | | | | **1,697** | 1,500 | |
| **Refreshments** | | | | **48,112** | 26,600 | |
| **Shipping** | | | | **1,048** | 3,500 | |
| **Social** | | | | **42,326** | 21,000 | |
| **Supplies** | | | | **0** | 100 | |
| **Other** | | | | **3,170** | 1,500 | |
| *minus* | **TOTAL Meeting Expense** | | | **181,115** | 139,921 | |
| *minus* | **Escrow for Free Standards** | | | **63,825** | 30,300 | |
| *minus* | **Equipment Expense** | | | **1,477** | 5,000 | ** |
| *equals* | **Jul 2000 Operating Reserve** | | | **58,896** | 0 | |
| | **Net Change in Operating Reserve** | | | **(16,391)** | 7,379 | ** |

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

** Copier not yet invoiced (est.$6000), four LCD projectors not paid for (est. $15000)

**11:20 Regulatory Ombudsman – Hayes**

(see file mon_regulatory.pdf - file missing)

Hayes presents two slides. Very quickly.

Bottom line: Mayday! We need to become active in ITU-R to get the RF band we need.

**11:25 IEEE Project Editors Status report – Scozzafava**

**11:30 802.1 Management/VLANS – Jeffree**

(see file dot1monplen.pdf – file missing)

**11:34 CSMA/CD – Thompson**

(see file dot3monplen.pdf)

Carlo asks Frazier to provide a brief introduction to the 802.3 Call for Interest meeting on Ethernet in the Last Mile.

(see file dot3cfimonplen.pdf)

# 802.3 CSMA/CD Working Group Status

- Major Activities:
  - P802.3ae10 Gigabit Ethernet TF
    In the middle of tech. work, generating draft
  - P802.3af DTE Power via MDI
    In the middle of tech. work
  - P1802.3Rev., Conformance Test
    Sponsor Ballot closing 11/22
  - P802.3ag-REV Maint #6
    Out for WG ballot, closes (hopefully) this wk
  - Call for Interest: Ethernet in the last mile
  - Liaison reports
  - Ad Hocs

# 802.3 Standard Status

- **Published (PDF)**
  - **IEEE Std. 802.3 2000 Edition (10/16/2000)**
    **Paper is at the printer, 1500+ pages**
    **Will be included in new CD-ROM**
    **(Hope for ISO Edition by Year End)**
- **Now Obsolete:**
  - **IEEE Std. 802.3 1998 Edition**
  - **IEEE Std. 802.3ac-1998 VLAN Tag Supplement**
  - **IEEE Std. 802.3ab-1999 1000BASE-T Supp.**
  - **IEEE Std. 802.3ad-2000 Link Aggregation Amend't**

# 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)
- 802.3ae 10 Gig E'net:Jonathan Thatcher (jonathan@worldwidepackets.com)
- DTE Power via MDI: Steve Carlson (scarlson@esta.org)
- CFI E'net in Last Mi: Howard Frazier (millardo@dominetsystems.com)

- 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

  STARTING at 1:00 PM

# Ethernet in the Last Mile

## Call for Interest

## Agenda and General Information

**IEEE P802.3 CSMA/CD Working Group**

**Hyatt Regency Tampa, FL**

**7-November-2000**

# Objectives for this meeting

- Stimulate interest and discussion
- Identify a subject for study
- Gauge the level of interest in the subject
- If sufficient interest, ask for a study group

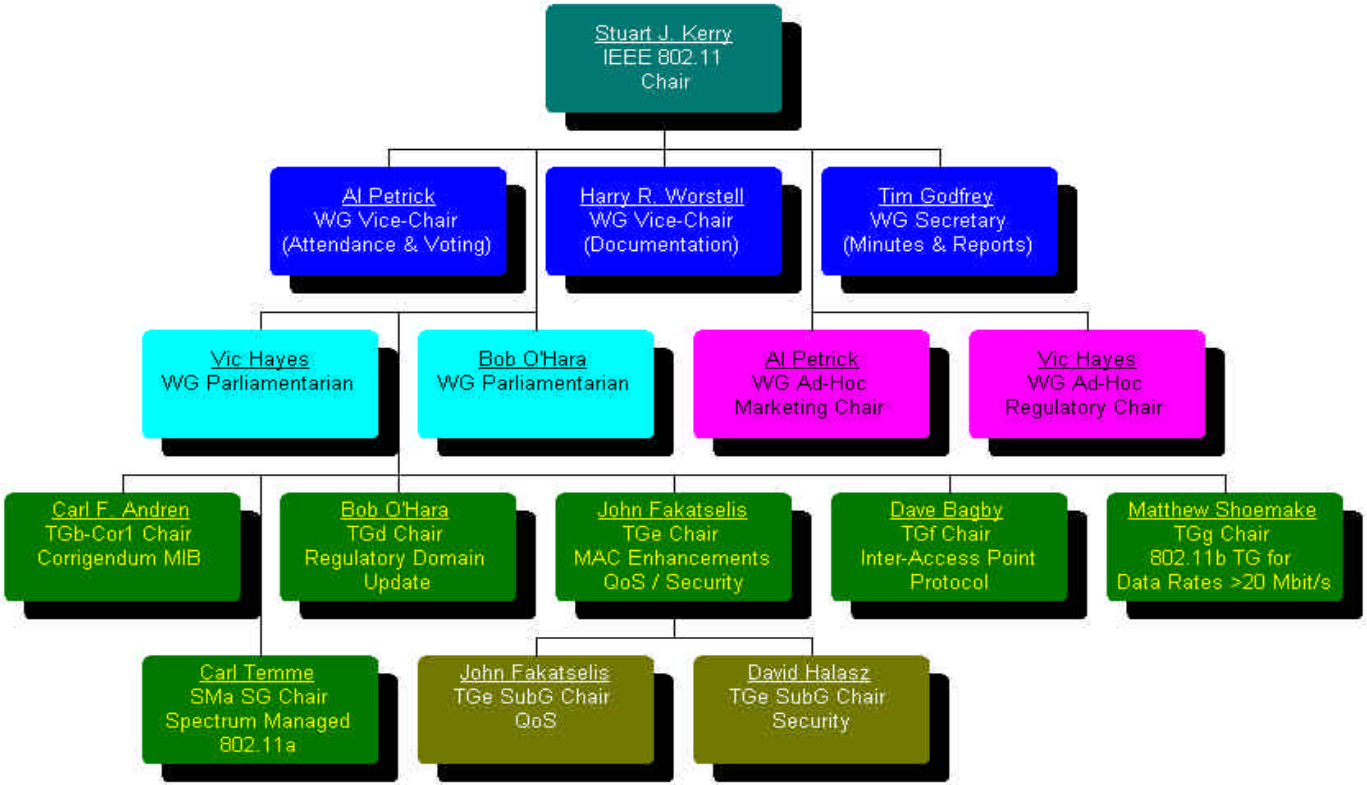
# Presentations

| | | | |
|---|---|---|---|
| 15 | Why Here, Why Now? | Howard Frazier | DomiNet Systems |
| 10 | Interest in… | Bruce Tolley | Cisco |
| 15 | Physical Layer Options | Sailesh Rao | Intel |
| 15 | Options and Opinions | John Wolcott | World Wide Packets |
| 15 | Ethernet in the Last Mile | Darrell Furlong | Aura Networks |
| 15 | Ethernet PON | Gerry Pesavento | Alloptic |
| 15 | Topology Considerations | Chris Diminico | CDT Mohawk |
| 15 | Ethernet in the Last Mile | Steve Carlson | HSP Design |
| 15 | The need for… | Mike Bennet | Yipes |

**11:39 802.11 Wireless – Kerry**

(see file dot11monplen.pdf)

## IEEE P802.11 Standards Working Group for Wireless Local Area Networks (WLANs)



IEEE P802.11
WIRELESS LOCAL AREA NETWORKS
(WLANs) STANDARDS
Ad-Hoc
Marketing
Ad-Hoc
Regulatory
MAC
Layer
802.11
MAC
802.11e / TGe
MAC Enhancements
802.11e / TGe SubG
Qos
802.11e / TGe SubG
Security
802.11f / TGf
Inter-Access Point Protocol
PHY
Layer
Infra-Red
(IR)
802.11 IR
1 / 2 Mbit/s
2.4 GHz (FHSS)
Frequency Hopping Spread Spectrum
802.11 FHSS
1 / 2 Mbit/s
2.4 GHz (DSSS)
Direct Sequence Spread Spectrum
802.11 DSSS
1 / 2 Mbit/s
802.11b / TGb
High Data Rate Extension
5.5/11 Mbit/s
802.11b-cor1 / TGb-cor1
Corrigendum MIB
802.11g / TGg
Data Rates >20 Mbit/s
5 GHz (OFDM)
Orthogonal Frequency Division Multiplexing
802.11a / TGa
High Data Rate Extension
6/12/24 Mbit/s
Optional 9/18/36/54 Mbit/s
SMa SG
Spectrum Managed
802.11a
802.11d / TGd
Regulatory Domain Update

**11:44 802.15 WPAN – Heile**

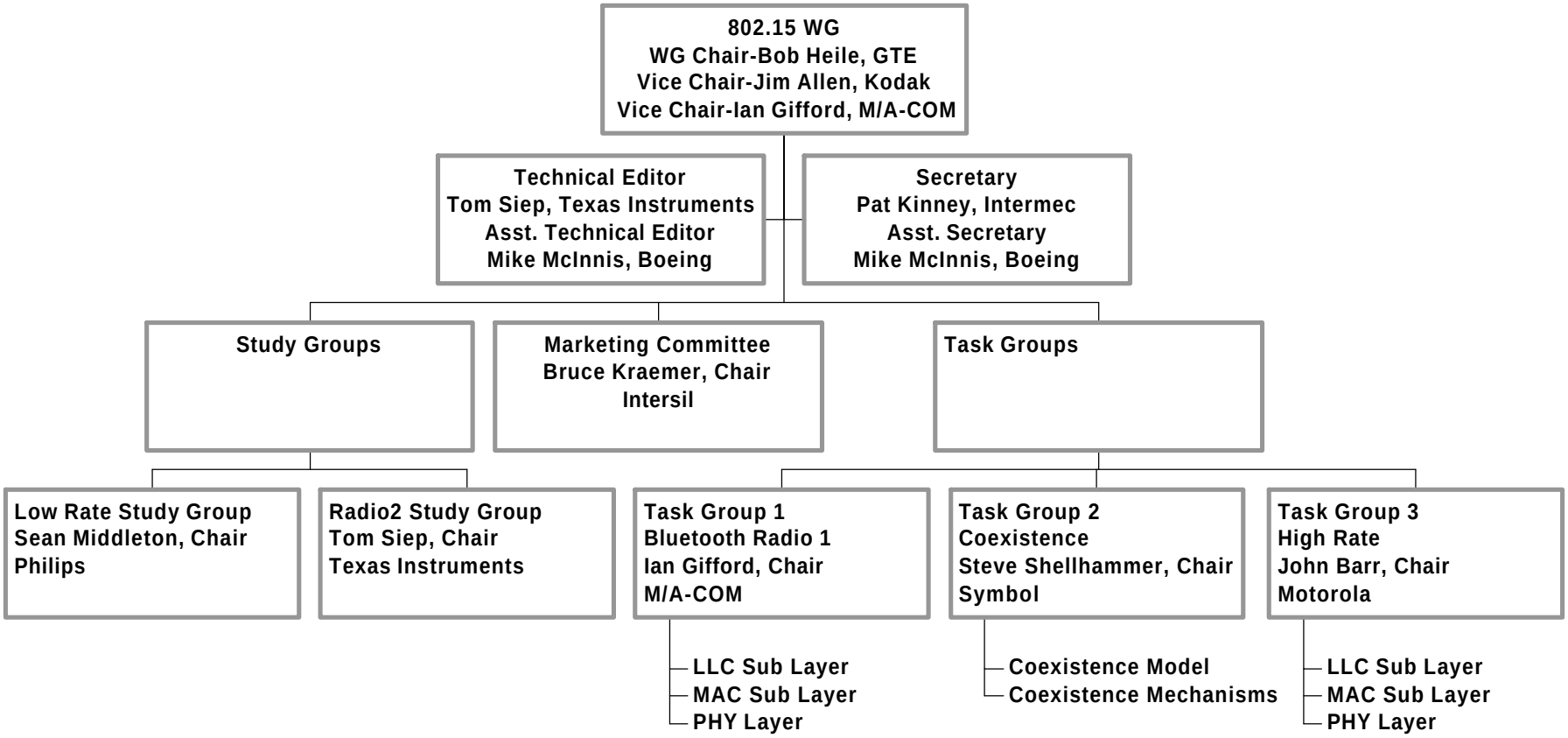
(see file dot15monplen.pdf)

# 9th Session of meetings of the IEEE 802.15 Working Group for Wireless Personal Area Networks

November 6-10, 2000

**Hyatt Regency Tampa**
**2 Tampa City Center**
**Tampa, FL 33602**

# 802.15 Functional Organization Chart



# Summary of Major 802.15 Activities since July2000

- TG1 continues comment resolution and convergence with Bluetooth spec v1.1.
- TG2 Conducting CFP for Coexistence Mechanisms
- TG3 is Poised to pick one MAC and one PHY from a field of 4 MACs and 8 PHYs
- Low Rate SG has submitted a Draft PAR to 802 for review and approval.

# Objectives of the Tampa Meeting November 6-10, 2000

**WG:**

**1. Determine Positions on Wireless HUMAN PAR, SMa PAR, and RSR PAR**

**2. Secure Approval for Low Rate WPAN PAR**

**TG1:**

**1. WG MOTION 6Nov00: TO FINALIZE APPROVAL OF LB3 RESOLUTIONS -00/159r15**

**2. COMPLETE PRODUCTION AND/OR REVIEW IEEE Std 802.15.1-[2001] Draft 0.8**

**3. DETERMINE WHAT FORM OF LETTER BALLOT IS APPROPRIATE FOR DRAFT RE-CIRCULATION, IF V1.1 CHANGES ARE MINOR OR RECONSIDERATION, IF V1.1 CHANGES ARE MAJOR**

**4. INITIATE WG LETTER BALLOT PROCESS**

**5. INITIATE SPONSOR BALLOT POOL INVIATION PROCESS**

**6. PROVIDE PROJECT PLANNING UPDATE -00/xxxr0**

**7. PROVIDE SESSION #10/MONTEREY OBJECTIVES**

# Objectives of the Tampa Meeting November 6-10, 2000

**TG2:**

1. **LIAISON REPORT FROM THE BLUETOOTH SIG COEXISTENCE WORKING GROUP**
2. **VOTE ON A PROCEDURE FOR SELECTION OF A COEXISTENCE MECHANISM**
3. **COMPLETE OUTLINE OF THE TG2 RECOMMENDED PRACTICE**
4. **CONTINUE WORK ON THE COEXISTENCE MODEL**
5. **COEXISTENCE MODEL PRESENTATIONS**
6. **COEXISTENCE MECHANISM PRESENTATIONS**

# Objectives of the Tampa Meeting November 6-10, 2000

**TG3**

**1- Summarize Conference Call results & Straw vote on acceptance of work**

**2- Summary presentations (if necessary)**

**3- Vote to Reduce to one MAC/PHY**

**4- Organize the writing of the Draft Standard**

**5- Review interfaces between MAC/PHY etc.**

**6- Review and Analyze Call for Patents**

**7- Review the BSIG / IEEE contract status**

# Objectives of the Tampa Meeting November 6-10, 2000

**R2SG:**

**1. REPORTS TO WG & MC, UPDATING THE MEMBERSHIP ON BT Radio2 WG**

**2. PREPARE LIAISON TO BSIG, PROVIDING AN UPDATE TO THE BT Radio2 WG ON THE IEEE 802.15 WG. INCLUDE MARKET POSITIONING CHARTS AND COLLATERAL FOR JOINT REVIEW TO DIFFERENTIATE THE ONGOING WORK IN IEEE AS WELL DIFFERENTIATE THE IEEE WORK TO THE BS IG.**

**3. SOLICIT AND RECEIVE CONTRIBUTIONS TO ASSIST THE SG MAKE THEIR PENDING RECOMMENDATIONS**

**4. DISCUSS EXISTING PROJECTS AS WELL AS PAR AND FIVE CRITERIA SCENARIOS AS WELL AS END OF LIFE (EOL) FOR SG IN NOV00**

**5. WG MOTION TO EXTEND THE STUDY GROUP FROM NOV00 TO MAR01**

**6. IDENTIFY JAN01 OBJECTIVES & GRAPHIC/TIMESLOTS**

# Objectives of the Tampa Meeting
# November 6-10, 2000

**LRSG:**

1. **SUMMARIZE CONFERENCE CALL RESULTS**
2. **REVIEW PAR AND 5 CRITERIA**
3. **MAKE LAST MINUTE UPDATES TO PAR AND 5 CRITERIA BASED ON COMMENTS**
4. **SECURE PAR AND 5 CRITERIA APPROVAL WITH 802**

**Tutorial Tonite at 6:30pm**

# Logistics-Meeting Graphic

| SUNDAY | MONDAY | | | TUESDAY | | | | WEDNESDAY | | | | THURSDAY | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Advisory Committee (10) | | | | | | | | | | | Advisory Committee (10) | | |
| | TG1 Ad Hoc (12) | TG3 Ad Hoc (120) | ExCom | TG1 (12) | TG3 (120) | | Regu-latory Hayes | TG1 (12) | LRSG (20) | TG3 (120) | | TG1 (12) | R2SG (30) | TG2 (120) |
| | Break | | | Break | | | | Break | | | | Break | | |
| | R2SG ad hoc (20) | TG3 Ad Hoc (120) | 802 Opening Plenary | TG1 (12) | TG3 (120) | MC (40) | LRSG (20) | TG1 (12) | LRSG (20) | TG2 small venue (20) | TG3 (120) | TG1 (12) | LRSG (20) | TG3 (120) |
| | Lunch | | | Lunch | | | | Lunch | | | | Lunch | | |
| TG3 Ad Hoc (40) | 802.15 WG Opening (150) | | | TG1 (12) | TG2 (120) | | LRSG (20) | 802.11/ 802.15 Joint Meeting (300) | | | | TG1 (12) | TG3 (120) | |
| | Break | | | Break | | | | Break | | | | Break | | |
| | TG3 (120) | | | TG1 (12) | TG3 (120) | TG2 small venue (20) | LRSG (20) | 802.15 WG (150) | | | | 802.15 WG Closing (150) | | |
| | | | | | | | | TG1 (12) | TG2 small venue (20) | TG3 (120) | | TG1 (12) | TG3 (120) | |
| | Dinner | | | Dinner | | | | Break | | | | Dinner | | |
| TG1 ad hoc(12) | TG1 (12) | TG3 (120) | Tut1 / Tut2 | TG1 (12) | TG3 (120) | | Tut3 / Tut4 | Social | | | | TG1 ad hoc (12) | TG3 ad hoc (40) | ExCom |

-Bluetooth TG2=Task Group 2-Coexistence TG3=Task Group 3-High Rate

y Group LRSG=Low Rate Study Group MC=Marketing Committee

**11:49 802.16 BWA – Marks**

(see file dot16monplen.pdf)

# IEEE 802.16
# Working Group on
# Broadband Wireless Access
# (BWA)

**Roger Marks**

6 November 2000

802 Plenary Meeting

# 802.16 Web Site

**http://ieee802.org/16**

> 430,000 web files served in September

# 802.16 Officers

- Chair: Roger Marks
- Vice Chair: [open]
- Secretary: Scott Marin

# 802.16 Session #9

- 11-15 September 2000
- Denver, CO
  - With RAWCON2000
    - IEEE Radio & Wireless Conference
- 147 people
- Full report on web

# 802.16.1

- Air Interface for Fixed Broadband Wireless Access Systems
  - 10-66 GHz
- Task Group Review
  - >20,000 downloads
  - 315 comments resolved at Sess. #9
- Working Group Review
  - ~600 comments to resolve
- Goal: initiate WG Letter Ballot

# 802.16.2

- Coexistence of Broadband Wireless Access Systems
- Chair: Andy McGregor
- Goal: initiate WG Letter Ballot

# 802.16.3

- **Broadband Wireless Access Systems in Licensed Bands from 2 to 11 GHz**
- **Chair: Brian Kiernan**
- **Requested PHY Proposals**
  - **~20 submissions to consider this week**

# Single 802.16 MAC

- At Session #9, made WG decision for a common 802.16 MAC
- Considering PAR changes to clarify names, titles, and relationships

# WirelessHUMAN™ Study Group

- **Wireless High-Speed Unlicensed Metropolitan Area Networks**
- **Chair: Durga Satapathy**

- **Coordinating with 802.11 and 802.15**

- **Discussion Session**
  - **Monday, 8:00-9:30 pm (tonight)**

**11:54 Exec SG – RPR – Takefman**

(see file rprmonplen.pdf)

# RPRSG Status Report
# Nov 5, 2000 Plenary Meeting


## Mike Takefman

Chair of RPRSG

tak@cisco.com


http://www.ieee802.org/rprsg

stds-802-rprsg@majordomo.ieee.org

# Resilient Packet Ring Study Group

- Dual media LAN/MAN/WAN shared access rings scalable to multiple gigabits
- http://www.ieee802.org/rprsg
- stds-802-rprsg@majordomo.ieee.org
- RPRSG ECSG created at March 2000 Plenary

# RPRSG Interim Meeting

- August 28/29, 2000 San Jose
- 40 attendees representing 23 organizations
- 13 presentations
- Approved PAR and 5 Criteria Documents to be forwarded to SEC for approval in November
- Reflector membership growing

# Plans for this week

- Presentation and discussions scheduled on Mon/Tues/Wed
- Room available Thurs
- 6 new presentations
- Respond to PAR/5 Criteria questions
- discuss working group operations

**11:58 Tutorials, Meeting Arrangements**

Rigsbee mentions that meeting venue for March 2001 may change hands from being Hyatt to Marriot.

**12:00 Adjourn**

The meeting was adjourned at 12:00pm.

Respectfully Submitted,
Howard Frazier
Recording Secretary