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

Monday, March 11, 2002 - 8:00 a.m.

Hyatt Regency – St. Louis, MO.

1. MEETING CALLED TO ORDER

Paul Nikolich called the meeting to order at 8:05 am. Members in attendance were:

- Paul Nikolich - Chair, IEEE 802 LAN / MAN Standards Committee
- Buzz Rigsbee - Executive Secretary, IEEE 802 LAN / MAN Standards Committee
- Bob O’Hara - 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 802.17 – Resilient Packet Ring Working Group
- Vic Hayes - Regulatory Ombudsman
- Jim Lansford - Chair Coexistence Study Group

The meeting was attended by approximately 10 IEEE 802 Working Group members and several IEEE Staff.

2.00 APPROVE OR MODIFY AGENDA

DRAFT AGENDA (R4) - IEEE 802 LMSC EXECUTIVE COMMITTEE MEETING

Monday, March 11, 2002 - 8:00 a.m.

Hyatt Regency, St. Louis, Missouri

1.00 MEETING CALLED TO ORDER - Nikolich 08:00 AM
2.00 APPROVE OR MODIFY AGENDA - Nikolich 08:01 AM
3.00 * APPROVE / MODIFY MINUTES OF PREVIOUS MEETING - Nikolich 08:05 AM
4.00 TREASURER'S REPORT - Grow 08:10 AM

Category (* = consent agenda)

5.00 DT Schedule for week and Friday Plenary (1pm - 5pm) - Nikolich 08:20 AM
5.01 II Tutorials - Nikolich 08:25 AM
5.02 II LMSC Chair Status, SEC elections & appointments - Nikolich 08:30 AM
5.03 II - 08:40 AM
5.04 II Standards Board actions - Nikolich 08:40 AM
5.05 II Meeting fee waiver - Nikolich 08:45 AM
5.06 II Awards - Nikolich 08:47 AM
5.07 MI Collocate SEC and Standards BOG meetings in July 2002 - Nikolich 08:49 AM
5.08 MI Approval of LCD projector purchase - Rigsbee 08:54 AM
5.09 DT - 08:59 AM
5.10 DT GET802 program update - Walker 08:59 AM
5.11 DT IEEE PR - recommendations for improvement - Staff 09:04 AM
5.12 DT Drafts for Sale update - Staff 09:09 AM
Motion to approve agenda

Move/Second: Heile/

7/0/1 Approved at 8:08 am

3.00 Approve minutes of previous meeting

Approved at 8:08 as part of consent agenda

4.00 Treasurer’s Report – Grow

There is a small problem with the reconciliation of the November meeting. There is $400 too much (registration income) in the checking account, as compared to what the registration report indicates. Bob is working with F2F to understand and correct this. For the first time since becoming treasurer, our operating reserve now meets the requirements of Procedure 1 (75% of the amount to run a meeting). About to drop the Xerox invoice for November 99 from the contingent liabilities. The budget shows that the operating reserve decreases continuously, until it reaches approximately $50k at the end of 2003. We should look at controlling expenses or increasing the meeting fee to compensate.

The audit fee is approximately $5-6k. Bob has treated this as a non-extraordinary expense. He asked whether there is any objection by the SEC to consider it to be a normal and customary expense. Geoff suggests that we create a list of these normal and customary expenses that do not need SEC approval. Bob will create a proposed list by Thursday.


5.13 DT IEEE Trademark policy - Walker 10 09:14 AM
5.14 DT IEEE Certification Initiative - Walker 10 09:24 AM
5.15 DT RAC Update - Jeffree 5 09:34 AM
5.16 DT Meeting planner RFP update - Rigsbee 5 09:39 AM
5.17 DT 802.11 interim meeting issues: quorum - O’Hara 10 09:44 AM
5.18 DT - 0 09:54 AM
5.19 II 802.16a to sponsor ballot (conditional) - Marks 2 09:54 AM
5.20 II 802.16c PAR to NESCOM - Marks 2 09:56 AM
5.21 II 802.16 tutorial on gigabit by radio - Marks 2 09:58 AM
5.22 II 802.15.3 Alternate PHY SG update - Heile 2 10:00 AM
5.23 II Rules Changes - closing plenary - Nikolich 2 10:02 AM
5.24 II Rules Changes - 2nd vice chair - Nikolich 2 10:04 AM
5.25 II Rules Changes - standing committees - Hayes 2 10:06 AM
5.26 II Rules Changes - additional criteria: coexistence - Hayes 2 10:08 AM
5.27 II Rules Changes - interim plenary quorum - Nikolich 2 10:10 AM
5.28 II Rules Changes - addition of email ballot process for WGs - Nikolich 2 10:12 AM
6.00 PL IEEE 802 PLENARY MEETING STARTS - Nikolich 60 11:00 AM
6.01 PL IEEE 802 PLENARY MEETING ENDS - Nikolich 12:00 PM

ME - Motion, External MI - Motion, Internal
DT- Discussion Topic II - Information Item
IEEE Project 802  
Statement of Operations  
November 2001 Meeting

<table>
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<tr>
<th>November 2001 Meeting Income:</th>
<th>Actual</th>
<th>Budget</th>
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<tbody>
<tr>
<td>179 Registrations@ $300</td>
<td>53,700</td>
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<tr>
<td>757 Registrations@ $250</td>
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<th>Budget</th>
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<td>Credit Card Discount</td>
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<td>Get IEEE 802</td>
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<td>Refreshments</td>
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<td>Social</td>
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<td>36,000</td>
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**NET Meeting Income/Expense**  
(5,798)  
2,095

Expenses from prior meetings  
300

Expenses prepaid for current meeting  
9,200

10 March 2002 Operating Reserve  
148,065

* Actual charges are based on registration, budget is based on registration forecast.
** Reserve is sufficient for contingent liabilities of ~$9,000.
# LMSC Budget

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<th>March</th>
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<th>March</th>
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<th>Nov</th>
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<td>Phone &amp; Electrical</td>
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<tr>
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<th>Net to Operating Reserve</th>
<th>Opening Reserve</th>
<th>Projected Closing Reserve</th>
<th>Projected Closing Cash</th>
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<td>2001</td>
<td>(70,758)</td>
<td>23,696</td>
<td>153,853</td>
<td>119,746</td>
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<td>2002</td>
<td>(5,798)</td>
<td>(52,860)</td>
<td>(17,465)</td>
<td>(10,045)</td>
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<td>2003</td>
<td>(35,026)</td>
<td>(63,345)</td>
<td>(10,135)</td>
<td>(10,408)</td>
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</tbody>
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*Page 1*
Moved: To set the time of the March 2002 closing SEC meeting to be Friday from 1pm to 6pm
Moved: Tony/Bob O
Passes: 8/0/1

Moved: To set the time of the July 2002 closing SEC meeting to be Friday from 8am to 1pm
Moved: Roger/Geoff

The reason to move away from Thursday night was to give the working groups more time to work. This does not accommodate this need. There are 300-400 attendees that have expressed a desire to work on Friday. There has been discussion that the SEC week start earlier, to give the WGs the time they need.

Move to amend: strike “8am-1pm” to “1pm-5pm”
Moved: Bob O/Buzz
Passes: 6/2/2

Vote on main motion as amended: 7/2/1 passes

Full slate of tutorials
Tutorials

• Monday 6:30-8:30PM
  – High Speed Mobile Wireless Data
    • Potential ECSG request at Friday SEC meeting

• Monday 8:30-10PM
  – Dedicated Short Range Communications

• Tuesday 6:30-8PM
  – Gigabit Millimeter Wave Radio

• Tuesday 8-9:30PM
  – Ultra wide band communications
Paul was approved by the Computer Society through the end of this meeting. Everyone is up for reelection at this meeting.

Paul is nominated for LMSC chair by Bob Heile (seconded by Tony)

Paul proposes that there be a second vice chair, because of the increasing work load of the LMSC. Bob G asks why there is still a regulatory ombudsman when there is a “wireless” vice chair. Paul said that the two vice chairs are not “wired” and “wireless”, but internal and external focused. Discussion at the rules meeting indicates that the ombudsman position is likely to be replaced by a TAG. Geoff points out that the chair may appoint as many positions as he desires. But the rules must be changed to grant them voting rights on the SEC.

Paul points out that he would like to keep the 2nd vice chair as a non-voting position until the rules are changed to enfranchise this position. The 2nd vice chair position would not continue if such a rules change were not approved.
SEC Election Process

• SEC re-affirmation process

  • Current Working Group Chairs should announce to their Working Groups that normal two-year elections are being held per the operating rules, inform the Working Group if they wish to be considered as a candidate for re-election and solicit new candidates.

  • A formal election within the Working Group should occur during the plenary week and a statement on the Working Groups selection for Chair and Vice Chair(s) be reported to the SEC at their plenary closing meeting upon which they must be confirmed by the SEC.

  • The newly elected/affirmed occupants of positions will formally take responsibility at the end of the March plenary session.

  • Each Working Group should also elect a Vice Chair or Vice Chair(s). A Working Group may have more than one Vice Chair, if circumstances warrant and to provide more leadership candidates.

  • If there are additional candidates for IEEE 802 LMSC Chair they should notify Bob O'Hara, the recording secretary by Monday morning, March 11, in order that the process proceed smoothly in an open manner.
SEC Election Process

Elected/appointed officers to remain in office until Mar-2004

- All WG Chairs are elected/reaffirmed in Mar-2002 by their WGs
  - 802.1, 802.3, 802.11, 802.15, 802.16, 802.17 (6 positions)

- SEC Chair (elected) and appointees (affirmed) by the SEC
  - Elected Nominee: Chair-Paul Nikolich,
  - Appointed Nominees: 1st Vice Chair-Geoff Thompson, 2nd Vice Chair-Mat Sherman, Exec Secy-Buzz Rigsbee, Recording Secy-Bob O’Hara, Treasurer-Bill Quackenbush, Regulatory Ombudsman-Carl Stevenson (6 positions)

- Elected/affirmed SEC members assume offices at the close of the March 2002 Plenary Session
5.03 II  -  0  08:40 AM

5.04 II Standards Board actions  -  Nikolich  5  08:40 AM

802.16 approved, 802.15.1 recirculation recommended. P802a PAR approved, P802.16a revised PAR approved. P802.1s PAR extension approved. 802.4-1990 (1995), 802.4h-1997 standards withdrawn.

5.05 II Meeting fee waiver  -  Nikolich  2  08:45 AM

Jerry Walker, Jennifer Longman, Angela Ortiz fee waived.

5.06 II Awards  -  Nikolich  2  08:47 AM
Awards

• Certificates of Appreciation.
  • 802.11b-1999/Cor 1-2001: Bob O'Hara

• Plaques
  • 802.5v: John Messenger, Simor Harrison, Andy Fierman, Karl Reinke, Neil Jarvis, Richard Knight
  • 802.11b corrigendum: Stuart Kerry, Carl Anderson, Victoria Poncini
  • 802.11d: Stuart Kerry, Bob O’Hara
  • 1802.3: Geoff Thompson, David Law
  • 802-2001: Bill Lidinsky, Alan Chambers
Some of the matters LMSC has vital concern with were discussed in closed session. There was concern expressed that there is no need to have a meeting co-located with the BoG, if they are not going to have a commitment to openness. Geoff to draft a letter indicating our desires for an open meeting with the BoG.
Co-location of 802 with BoG

• BoG has approached IEEE 802
  – Wish to co-locate the July BoG meeting with July 2002 IEEE 802 plenary
  – BoG meetings to take place Fri & Sat
  – Suggestion that IEEE 802 SEC meet with BoG at the end of the Plenary Session Friday afternoon
  – To be followed by an 802/BoG social event
5.08 MI  Approval of LCD projector purchase  -  Rigsbee  5  08:54 AM

Moved: Approve the purchase of 1 large and 2 small projector to support our current meeting requirements. Expenditure totals $10,950.
Moved: Buzz/Bob G

There is concern expressed about approving capital expenditures after the fact.

Vote: 6/1/1 passes

5.09 DT  -  0  08:59 AM

5.10 DT  GET802 program update  -  Walker  5  08:59 AM
Get IEEE 802™ Update 3

IEEE Standards Association
Jerry Walker, Director
IEEE 802 SEC
11 March 2002
St. Louis, Mo
Get IEEE 802™ Update 3

Background

- IEEE-SA moving from sale of product to fee-for-services business model
- SDOs, trade associations, and consortia making products available “for free”
  - supported by membership fees
- IEEE 802® Standards Committee in competition with industry groups, e.g., IETF, ETSI
  - purchasers/users demanding similar treatment
  - low or no-cost access to standards
  - cost of standards prohibitive for start-up businesses
IEEE-SA Board of Governors Resolution

The IEEE-SA BOG formally endorses staff attempts to gain increased industry support for standards delivery through a selective and well-crafted solicitation of corporate sponsorship for the public availability of IEEE 802® standards for three years as a test case for a new business model that could be fully implemented.

- Gain increased industry support for IEEE-SA standards delivery
- Another test case for the future IEEE-SA business model

11/00
Get IEEE 802™ Update 3

IEEE 802®/IEEE-ESA Partnership Formed

- 3-year pilot program
  - Public availability of individual IEEE 802® Standards
  - PDF format only
  - IEEE 802® contributes $75/person/meeting since July 2000
  - Individual PDFs available 6 months after publication
  - IEEE-ESA developing corporate solicitation
  - Program labeled: “Sponsored by Industry”
  - Annual review for viability

3/01
Get IEEE 802™ Update 3

Activity (as of 31 Jan 02)

- Over 150,000 hits monthly
- Over 600,000 downloads
  - Peaked third week (30,055)
  - 17,000 weekly
- California leading
  - Japan, China, Germany, Taiwan, India follow
- Most popular standards
  - 802.3, 802 (Base), 802.11, .11a, .11b
Get IEEE 802™ Update 3

Financial Status (as of 31 Jan 02)

- **Revenue** (via Sponsorship)
  - IEEE 802® Plenary - $362K
  - Individual contributions - $2K
  - Letter of Intent - $5K
  - Print down 40%
  - PDF down 32%
  - Pre-May 15 revenues kept these from being lower leading to need to change program
Business Strategy

- **Customer Relations/Retention**
  - Enhanced Online Subscription value

- **Aggressive sponsorship pursuit**
  - Economic climate or not
  - Began January 2002
  - c.$500,000 required for program continuance

- **Attract and retain customers**
  - Use web site to promote IEEE, IEEE-SA, IEEE 802®
    - Plenary and new standards, drafts and products
  - Identify ways to keep customers from delaying or deferring purchases
Solicitation

- Over 800 letters mailed
- Over 70 contacts made
  - Represents 44 corporations
- 12 “Declines”
  - Budget, no interest, already participating
- Online subscribers positive to expanded availability
- Many still considering
Get IEEE 802™ Update 3

Recommendations

- Continue solicitation through 30 June 2002
  - Includes telephone follow up
- Extend PDF availability to twelve (12) months after publication
- Decide future based on feedback
  - Full support – continue as initially defined
  - Positive but delayed support – continue (revised)
  - Negative or less than needed – terminate
IEEE-SA BOG Continues Program

**Motion:**

- Continue the pilot Get IEEE 802™ program through 30 June 2002 but effective 1 March 2002 revise the terms for PDF availability from six months to twelve months until such time as the pilot is fully supported by industry or terminated.
Going Forward

- How can IEEE 802® plenary help the solicitations?
A request was made that the SEC be shown the real numbers to support the statements made that the 802 contributions do not cover the loss of document sales. Jerry states there is a serious situation going into 2002 with shortfall of revenue from document sales. A meeting will be scheduled this week to discuss this issue.

A point was raised that there might be some small fee ($5) charged for a download before general free distribution. Given the number of downloads, this would generate significant revenue. Jerry points out that this would cost $30 to collect.

Geoff asked if IEEE has unilaterally changed the agreement prior to the end of the one year review period. The answer was “yes”.

Moved: In view of the BoG’s unilateral decision and implementation, well before the annual review date, to change the “paid” period for the GET802 program from 6 months to 12 months, the 802 SEC is no longer prepared to provide financial to this program. As of the start of the March 802 plenary, the 802 treasurer is instructed to cease our financial support for the program.
Moved: Tony/Geoff
Vote: 10/0/0 passes.

A meeting to discuss the program is set for 1pm Tuesday.

5.11 DT IEEE PR - recommendations for improvement - Staff 5 09:04 AM

Angela Ortiz presented the information on this program. First concern is to find a single person to serve as a contact person between the PR department and the 802 chairs. It is important that this person be technical and have knowledge of the impact of standards on the market. PR needs to coordinate more with the WG chairs on the issues that will come out of the meetings. The PR group needs 2 weeks notice to write up article and get them back to the WGs for review and approval. Angela asks that Bob O’Hara forward any notes on issues from the WGs to Karen McCabe.

Paul asks that Angela come to the Friday meeting with a more formal proposal for how 802 will interface with the PR group.

5.12 DT Drafts for Sale update - Staff 5 09:09 AM

Angela Ortiz reports that the challenges and issues IEEE has searching for products are out of their hands. She agrees that this is an unacceptable situation. It has been forwarded to the IEEE senior management. There may be a communication problem in customer service differentiating the IEEE standards, drafts, and GET802 program. Paul asks that Roger participate in these discussion and be the SEC point of contact for these issues.

5.13 DT IEEE Trademark policy - Walker 10 09:14 AM
Today's Update

- Background
- Actions
- Results
- Recommendations
Certification Project

Scope

- ...To produce requirements document(s) that can be used to establish, operate and maintain certification schemes...
  - for internal guidance
  - as basis for RFPs/RFQs
  - to educate or promote
  - To address multiple types of programs
We are a professional cable manufacturer, and now, we are devoting to make communication cables as IEEE, USB, Cat.5, and DVI cables.

We want to print on our cable, such content as "IEEE-1284" or "IEEE-1394". Although we are sure this cable can meet IEEE performance, we are not sure if any authorization from IEEE is needed. If necessary, please would you advise us how to achieve this authorization?
IEEE Standards in the news

Unplug at Your Own Risk
Networks may be more vulnerable to security threats than you ever imagined

BY ANNA DORFMAN

At July's Def Con 9 gathering in Las Vegas, internet security experts stepped forward to voice concerns about the vulnerability of current wireless networks. As a whole, the group agreed that the Wired Equivalency Protocol (WEP), the default 40-bit encryption scheme built into 802.11 standard wireless local area networks (LANs), to provide the same security capability found in Wired networks, was woefully inadequate; attendees had found that its password systems could be hacked into in less than 30 seconds.

"Wireless networks are being more widely deployed, especially when a small one today can be installed for a few hundred dollars," said lead author of the study. "The advantage is that people don't have to run cables around walls, assign specific connections to people," explains Dr. Ian Goldberg, a leading cryptographer and chief scientist at Zero-Knowledge Systems, a seller of privacy and security technologies.

Wireless technology enables business-on-the-fly

by Amy Zuckerman

A new Internet standard is about to be rolled out that will bind the Internet with the pass-through toll and highway clearance industry. Technology that marries intelligent transportation systems (ITS) and the web is close to reality after an Aug. 24 vote by the American Society for Testing Materials (ASTM) to back a national standard for dedicated short-range communication.

The new standard will not only provide national interoperability for and Electronic Engineers (IEEE) standard 802.11a, which is already being used to create private networks. The ASTM committee has slightly altered this standard and created 802.11a/RA (road access).

802.11a/RA allows for easy convergence with the Internet. According to Armstrong, it has a transmission range of 3,000 feet (one mile) and...
Branding and product liability concerns
Misuse of intellectual property

Wi-Fi certification helps wireless LANs come of age

By Wireless Networking . Phil Belanger
Network World, 03/21/00

The wireless LAN market has come a long way in recent years and is poised for even greater growth. A study, "Wireless LANs: Market Demand and Opportunity Assessment," released May by The Philips Group's Infotech Division, predicts the market growth will reach $12.3 billion by 2001.
What are we doing?


IEEE Power Engineering Society

Sponsored by the Transmission and Distribution Committee

The IEEE and its designees are the sole entities that may authorize the use of IEEE-owned certification marks and/or trademarks to indicate compliance with the materials set forth herein.
Trademark Policy Rationale

- IEEE name and its marks are its most valuable assets.
  - Failure to ensure they are properly used confuses the marketplace and may cause the marks to fall into the public domain
  - Currently, the marketplace is replete with inappropriate uses of IEEE name and mark.

- Trademark Usage and Conformance Statement Policy
  - approved by IEEE-SA Board of Governors and currently being inserted in every newly published standard.
...It is not permissible to use the standard number alone or with "IEEE" to indicate conformance or compliance with the associated standard. The user of the Standard should contact the Manager, Standards Licensing and Contracts, Standards Activities department, for information concerning issues regarding indicating product compliance with an IEEE Standard. To represent that a product has been designed to meet an IEEE standard, it is permissible to state that "the product has been engineered, designed or manufactured to meet the requirements of "IEEE Std xxxx—200xTM." However, its not permissible to state or refer to a product as "xxxx compliant," "xxxx certified," "IEEE xxxx conformant," "IEEE xxxx certified,"or the like, unless the user has obtained a license from the IEEE Standards Activities Department.
Q1) Why do I need to use the ™ or ® when using IEEE trademarks?

Many people are not aware that the number designations associated with our standards products, such as 1512, 488, etc. are considered trademarks of the IEEE. Given that these marks have what is called ‘secondary meaning’ and are associated with a specific product, they are considered trademarks. Some of these marks, e.g. POSIX® and 802® are officially registered with the U.S. Patent and Trademark Office. Federal, state and common law requires that trademark owners ensure that their marks are properly used or, they risk losing the secondary meaning behind the mark, causing the mark to fall within the public domain.
Trademark Usage/Conformance Statement Policy

- Q2: Why is it necessary to use the trademark symbols in every mention within a standard?

- A. The IEEE decided to use the symbols in every instance within a standard due to the fact that users quite often excerpt portions of standards. If we did not use the symbols in every instance, we could not be sure that our marks would be recognized as IEEE trademarks when excerpted.
Trademark Usage/Conformance Statement Policy

- Q3: Why do I need to obtain permission to use IEEE trademarks in a statement where I am claiming a product conforms/complies with an IEEE standard?

- A. Being that trademarks are directly associated with the trademark owner, the unregulated use of IEEE trademarks in compliance statements may cause the IEEE to open itself up to legal liability, should a product that claims conformance/compliance be, in fact, out of conformance/compliance with the standard. Therefore, the IEEE must carefully regulate who is using their name and/or marks to make such claims in the marketplace.
Trademark Usage/Conformance Statement Policy

- Q4: Does the IEEE have a program wherein product manufacturers may obtain permission to make such conformance/compliance statements?
  
  A. Not at present. However, the IEEE is diligently working to establish such a program.

- Q5: Is this new Trademark Usage/Conformance Statement policy valid for all IEEE standards or, are just a few standards going to be effected?
  
  A. The IEEE Standards Board of Governors recently approved the policy for all IEEE standards. The policy shall be included within the front matter of all future IEEE standards.
Trademark Usage/Conformance Statement Policy

- Who do I contact to ask questions, make comments regarding the implementation of this new policy?

- A. You may call the Manager, Standards Licensing and Contracts, Standards Activities Department at (732) 562-3804 or, via email at c.stanziola@ieee.org.
A question was raised as to the removal of a statement from the IEEE-SA web site concerning the use of draft standards to build equipment or claim conformance. Jerry had no information on this item.

A point was made that the new statement in the front matter is in opposition to the PICS in the standards.

Paul set a meeting from 2-3pm to discuss this issue in detail. Stuart will be the lead.

5.14 DT IEEE Certification Initiative - Walker 10 09:24 AM
Certification Project

Current Programs

- IEEE POSIX®
- SyncML
Certification Project

Team

- Ben Johnson - Champion
- Jerry Walker - Leader (Business Development)
- Anita Ricketts - Operational issues (IEEE POSIX)
- Claudio Stanziola - Marks, IPR, Licensing, Liability, and Tax status issues
- Peter Lefkin - IEEE-ISTO
- Yvette Ho Sang - Publishing interface
- Jane Pink - NCC (consultant)
Certification Project

Timeframe and Deliverables

- 15 August 2001 to 15 February 2002
  - Statement of Work
  - Request for Quotation
  - Independent Contractor Agreement
  - Project Initiation Document
  - Certification Program Types
  - Standards Inventory
  - Market Research Report
  - Requirements Document
Certification Project

Results

- General
  - Market research findings
  - Standards Inventory

- Specific
  - Types of Certification Programs
  - Pre-assessment questionnaire
  - Tasks per program type
  - Costs per program type
  - Estimates per program type
  - Business Models per program type
Certification Project

Market Research Demographics

- 43 contacts by mail/telephone
- 26 Nov 01 thru 3 Dec 01
- 30 US, 12 Europe
- IT and Telecom sectors
  - LMAN, VHDL, HLA, SWE, etc
- IEEE-SA staff and leadership
## Market Research Findings

<table>
<thead>
<tr>
<th>Survey Question</th>
<th>N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Use IEEE in company literature</td>
<td>19</td>
</tr>
<tr>
<td>Value use of IEEE name</td>
<td>19</td>
</tr>
<tr>
<td>Perceive Misuse of IEEE name</td>
<td>18</td>
</tr>
<tr>
<td>Support certification program</td>
<td>20</td>
</tr>
<tr>
<td>Would use certification program</td>
<td>12</td>
</tr>
<tr>
<td>Interested in independent test suite</td>
<td>21</td>
</tr>
<tr>
<td>Support IEEE as Certification Authority</td>
<td>23</td>
</tr>
<tr>
<td>Want mark and test report</td>
<td>16</td>
</tr>
<tr>
<td>See IEEE role as problematic</td>
<td>25%</td>
</tr>
</tbody>
</table>

---

N = Total respondents for each question.
Certification Project

**Standards Inventory**

- Most (800) of our standards contain language requiring “compliance”, “conformance”, or compatibility with the standard
- Use of the language is inconsistent
- IT and telecom standards include Implementation Conformance Statements
- Indicates needs for guidance in proper use and interpretation of terms in standards.
Certification Project

Preferred Program Types

- **Group Interoperability (IOP) Test**
  - Third party certification based on independent tests and group test events where vendors demonstrate IOP

- **Reference Interoperability (IOP) Test**
  - Vendor self test thru use of reference pool products or servers under the control of the Certification Authority

- **Vendors Self-test**
  - Vendor self test and submittal to Certification Authority
Certification Project

Pre-Assessment Questionnaire

- To assist in deciding on form and needs of a specific program
- To assist in responding to inquiries for “conforming to IEEE standards”
- To define the parameters and business model for a specific program
Certification Project

Recommendations

- Put in place an joint oversight committee
- Agreement between ISTO and SA to address professional services and licensing IEEE marks
- Send out communication to address concerns
- Develop Business Plans for each program
- Develop Guidelines for terms use by WGs
- Expand research to other technologies
Certification Project

Summary

There is a role for IEEE!
Certification Project

- Any Questions?
- Discussion
A request was made to get additional information on the plans for certification programs, beyond what is in the presentation.

Meeting from 3-4pm Tuesday to discuss this in more detail.

5.15 DT RAC Update - Jeffree 5 09:34 AM

802 representatives are Geoff and Mick Seman.

5.16 DT Meeting planner RFP update - Rigsbee 5 09:39 AM

The current statement of work is out of date and needs major overhaul. Buzz and Dawn will work on this and present it to the SEC before the next plenary.

The current contract expires after this meeting. There is a provision in for automatic renewal for a year, if no action is taken by the SEC.

Meeting Wednesday at 10am to discuss the statement of work.

5.17 DT 802.11 interim meeting issues: quorum - O'Hara 10 09:44 AM

An appeal of the process followed by 802.11 at their January interim meeting was presented. Discussion of the process of the 802.11 WG at their January 2002 meeting followed.

Moved: That SEC uphold and affirm the validity of the appeal to the 802.11 process by Bob O'Hara. The process was not in accordance with the 802 procedures. The remedy dictated is: The remedy is that the results of the flawed process shall be subject to approval by the 802.11 working group in session at the March 2002 Plenary as a technical vote.

Moved: Geoff/Tony

Vote: 7/2/1 passes.

5.18 DT - 0 09:54 AM

5.19 II 802.16a to sponsor ballot (conditional) - Marks 2 09:54 AM

5.20 II 802.16c PAR to NESCOM - Marks 2 09:56 AM

5.21 II 802.16 tutorial on gigabit by radio - Marks 2 09:58 AM

5.22 II 802.15.3 Alternate PHY SG update - Heile 2 10:00 AM
IEEE P802.15
Wireless Personal Area Networks

Project
IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs)

Title
AltPHY Study Group Opening Report March 02

Date Submitted
11 March 2002

Source
[Rick Roberts]
[XtremeSpectrum, Inc.]
[8133 Leesburg Pike, Suite 700]
Vienna, Va. 22182
Voice: [ 703.269.3043 ]
Fax: [ 703.749.0248 ]
E-mail: rroberts@xtremespectrum.com

Re:

Abstract

Purpose

Notice
This document has been prepared to assist the IEEE P802.15. It is offered as a basis for discussion and is not binding on the contributing individual(s) or organization(s). The material in this document is subject to change in form and content after further study. The contributor(s) reserve(s) the right to add, amend or withdraw material contained herein.

Release
The contributor acknowledges and accepts that this contribution becomes the property of IEEE and may be made publicly available by P802.15.
IEEE802.15.SG3a Opening Report

1. 802.15.SG3a met for two sessions at the Dallas interim.

2. The total attendance between the two sessions was 36 different persons.

3. Heard 3 application proposals:
   • Doc 02047r0, Mary DuVal, TI
   • Doc 02031r0, Pierre Gandolfo, XtremeSpectrum
   • Doc 02043r0, Masa Akahane, Sony

4. 802.15.SG3 will be meeting for 6 sessions at the St. Louis Plenary.

5. We will be hearing 5 application proposals:
   • Doc 02xxxxr0, Jay Bain, Time Domain
   • Doc 02119r0, Gadi Shor, Wisair/Philips
   • Doc 02xxxxr0, Jim Allen, Kodak
   • Doc 02139r0, Chuck Brabenac, Intel
   • Doc 02xxxxr0, Jason Ellis, Atomic General
6. Documents to be initiated (started) during St. Louis Plenary
   • Application Summary Report
   • PAR & 5C
   • Requirements
   • Selection Criteria

7. Score card so far against 5C …

   1. *Broad Market Potential*
      • Industry participation (8 Application Presentations)

   2. *Compatibility*
      • Supplemental PHY to 802.15.3
      • RF coexistence - TBD (but required)

   3. *Distinct Identity*
      • Application Presentations posturing higher data rates than any current 802 PHY

   4. *Technical Feasibility*
      • TBD

   5. *Economical Feasibility*
      • TBD
The following changes are proposed to the operating rules with respect to opening and closing meeting times.
March 2002 Plenary Session  
LMSC Rules Meeting Sunday March 10, 2002 7-8PM

Author: Paul Nikolich Date: March 10, 2002
Revision: 1

Purpose: Rules Change recommendation to set the times of the opening and closing SEC meetings at plenary sessions

Rationale: At the March 2001 Plenary Session Howard Frazier proposed making the times of the opening and closing SEC meetings during plenary sessions ‘flexible’ with respect to absolute start times. He proposed a rules change (shown on the page two) which Paul Nikolich was to have initiated. The rules change process was never started, resulting in the closing SEC meeting times being set in an ad-hoc manner (March, Fri 8-12PM; July, Fri 3-7PM; November, Fri 3-7PM; March 02, Friday 1-6PM tentatively)

This rules change sets specific opening and closing meeting times. I will ask for input on these changes this week, make appropriate modifications, then make a motion for a rules change ballot at the Friday SEC meeting.

RULES CHANGE TEXT:

5.1.5.2.3 Executive Committee Representation
The chair of a hibernating Working Group may retain voting rights on the LMSC Executive Committee for three LMSC Plenary meetings after the WG has hibernated:
 a) if the hibernating WG chair was the active WG chair when the WG hibernated, and
 b) if the hibernating WG chair maintains attendance as per Retention (5.1.3.2) with attendance at both the Monday and Friday Executive meeting required for Plenary meeting attendance.

Procedure 5: Procedure for limiting the length of the IEEE LMSC Executive Committee meetings

7. The Monday Executive Committee meeting shall start at 8AM and shall end no later than 10:30AM on Monday morning and the Friday Executive Committee meeting shall start at 1PM and shall end no later than 5PM during the Plenary session.
Background from the SEC meeting minutes:

FROM THE March 2001 Monday SEC meeting (Hilton Head)

5.14 Move the Closing SEC meeting to Friday - Frazier
   Frazier presents proposed text of rules change.

5.1.5.2.3 Executive Committee Representation
   The chair of a hibernating Working Group may retain voting rights on the LMSC
   Executive Committee for three LMSC Plenary meetings after the WG has hibernated:
   a) if the hibernating WG chair was the active WG chair when the WG hibernated, and
   b) if the hibernating WG chair maintains attendance as per Retention
   (5.1.3.2) with attendance at both the <<DELETE<Monday>> opening and
   <<DELETE<Thursday>> closing Executive meeting required for Plenary meeting
   attendance.

Procedure 5
PROCEDURE FOR LIMITING THE LENGTH OF THE IEEE LMSC EXECUTIVE
COMMITTEE MEETINGS

7.<<DELETE<The Monday morning and Thursday evening Executive Committee
   meetings during the Plenary session shall end no later than 10:30AM on Monday
   morning and at midnight on Thursday evening.>>> The opening Executive Committee
   meeting shall have a duration of no greater than 2.5 hours. The closing Executive
   Committee meeting shall have a duration of no greater than 5 hours.

Carlo entertains motion to Move closing SEC meeting to Friday from 8:00am to 1:00 pm
   effective at the July, 2001 meeting, and initiate rules change to effect this change.
   Frazier/Jeffree
   Grow says that having been a voting member in dot3, dot5, dot6, dot11, he observes that
   every WG needs more task force meeting time.
   Marks passes on comment from his WG members who feel that it would be more
difficult to attend closing SEC meeting if it was held on Friday morning.
   Rigsbee speaks in support of motion It would give the meeting planning staff and the
   Exec Sec'y more time to prepare financial data.
   9/1/0 Approved

FROM THE March 2001 Friday meeting (Hilton Head)

4.29 II July Closing SEC meeting - Carlo
   Move the SEC meeting to 4-8pm on Friday in July.
   Marks/Hayes 9/2/0

FROM THE July 2001 Monday 8-10:30AM meeting (Portland) MINUTES

5.00 II Meeting Week Schedule - IEEE 802 - CARLO
   Friday SEC meeting moved to 3-7pm. Paul asks for input on rules change to set closing
   SEC meeting time.
   5.01 MI SEC Friday Meeting Time - CARLO
   Friday SEC meeting is 3-7pm.
4.18 MI November Closing SEC Meeting - Carlo 5 06:08 PM
Discussion: We will need a Sunday meeting for the rules change issue. Suggestion is to have a meeting from 1-5pm.
Comment: Surprised at how badly this meeting has gone. Doubt that moving the meeting to 1pm will make it any better. Suggestion: 3-7 (x2), 8am - noon.
Comment: if the SEC meeting is on Friday morning, this means that SEC committee meetings could be held Thursday evening.
Poll: 8-12: 5, 3-7:3, 1-5:0
Meeting time will be: 3pm to 7pm, since WGs are already planning on using the mornings for meetings.

5.00 DT Schedule for week and Friday Plenary (3pm - 7pm) - Carlo 5 08:20 AM
The following additional changes to the operating rules are proposed.
Other Rules Changes

- 2\textsuperscript{nd} Vice Chair
- Quorum at interim meetings
- WG email ballot process
- Others (per Bob Grow’s list)

- **Action:** assign preparation of above the rules changes to SEC members for rules change ballot request at Friday SEC meeting
Rules change for Wireless PARs

- Call for comments on WG reflectors (except .17) resulted in feedback from 7 persons
- Request to extent the requirement for addressing regulatory conformance to wired PARs
- Ballot result 2-6-0, 3 not voting
- Rules change meeting
  - Agreed with the change to make regulatory conformance for all PARs
  - Agreed to re-study the co-existence point and consider moving it to “Compatibility”
Rules change for SEC Standing Committee

- Call for comments on WG reflectors (except .17) resulted in feedback by 3 persons
- Mostly editorial, one on content
- Ballot result 2-4-2, 3 not voting
- Rules change meeting discussed the matter and agreed to discontinue the SEC SC proposal and to use a TAG for resolving the Regulatory work
- Regulatory group to study the details and come back with a resolution on Friday
| 5.25 | II | Rules Changes - standing committees | - Hayes | 2 | 10:06 AM |
| 5.26 | II | Rules Changes - additional criteria: coexistence | - Hayes | 2 | 10:08 AM |

The SEC meeting adjourned at 10:33am.

ADJOURN SEC MEETING | - Nikolich | 10:30 AM |

6.00 PL | IEEE 802 PLENARY MEETING STARTS | - Nikolich | 60 | 11:00 AM |

10 1. MEETING CALLED TO ORDER

Paul Nikolich called the meeting to order at 11:10 am.

11:00 Welcome and Review of SEC Meeting – Nikolich
IEEE802 Monday Plenary Agenda

- 11:00 Welcome and Review of SEC Meeting  
  Nikolich
- 11:07 Sponsor Executive Committee Election Process  
  Nikolich
- 11:12 Voting Rules and IEEE 802 Operating Rules  
  Nikolich
- 11:15 Treasurer’s Report  
  Grow
- 11:20 IEEE Project Editors Status Report  
  IEEE Staff
- 11:24 802.1 Architecture & Interworking  
  Jeffree
- 11:29 802.3 CSMA/CD (Ethernet)  
  Thompson
- 11:34 802.11 WLAN (Wireless Local Area Network)  
  Kerry
- 11:41 Regulatory Ombudsman  
  Hayes
- 11:44 802.15 WPAN (Wireless Personal Area Network)  
  Heile
- 11:48 802.16 BWA (Broadband Wireless Access)  
  Marks
- 11:53 802.17 RPR (Resilient Packet Ring)  
  Takefman
- 11:55 Tutorials  
  Nikolich
- 11:58 Meeting Arrangements  
  Rigsbee
- 12:00 ADJOURN

www.ieee802.org  
SEC Meeting: 1-6pm, Friday
IEEE 802 ORGANIZATION

SPONSOR EXECUTIVE COMMITTEE (SEC)

WORKING GROUP CHAIRS

| 802.1 | 802.3 | 802.17 |
| BRIDGING/ARCH | CSMA/CD | ResPackRing |
| Tony Jeffree | Geoff Thompson | Mike Takefman |

| 802.11 | 802.15 | 802.16 |
| WLAN | WPAN | BWA |
| Stuart J. Kerry | Bob Heile | Roger Marks |

CHAIR
Paul Nikolich

APPOINTED OFFICERS

| VICE CHAIR | RECORDING SEC | EXECUTIVE SEC | TREASURER |
| Paul Nikolich | Bob O’Hara | Buzz Rigsbee | Bob Grow |

WORKING GROUPS

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 (P. Thaler)

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

REGULATORY
Vic Hayes
SEC Friday Meeting
1:00 – 6:00pm

No Thursday Midnight Meeting
Paul Nikolich - IEEE 802 Chair

- EMAIL: p.nikolich@ieee.org
- Phone: 857.205.0050 (Cellular)
- Fax: 781.334.2255
- Independent consultant in technology and new ventures working with YAS Broadband Ventures, LLC. in North Andover MA

- Goals for IEEE 802 – 2002-2004
  - Encourage the development of new standards work
  - Maintain IEEE802’s outstanding track record of developing data communications standards that benefit society.
  - Ensure the imperative principals of due process, consensus, openness, balance and rights of appeal are implemented.
  - Increase the efficiency of the standards development process
SEC Election Process

- SEC re-affirmation process
  - Current Working Group Chairs should announce to their Working Groups that normal two-year elections are being held per the operating rules, inform the Working Group if they wish to be considered as a candidate for re-election and solicit new candidates.
  - A formal election within the Working Group should occur during the plenary week and a statement on the Working Groups selection for Chair and Vice Chair(s) be reported to the SEC at their plenary closing meeting upon which they must be confirmed by the SEC.
  - The newly elected/affirmed occupants of positions will formally take responsibility at the end of the March plenary session.
  - Each Working Group should also elect a Vice Chair or Vice Chair(s). A Working Group may have more than one Vice Chair, if circumstances warrant and to provide more leadership candidates.
  - If there are additional candidates for IEEE 802 LMSC Chair they should notify Bob O'Hara, the recording secretary by Monday morning, March 11, in order that the process proceed smoothly in an open manner.
SEC Election Process

Elected/appointed officers to remain in office until Mar-2004

- All WG Chairs are elected/reaffirmed in Mar-2002
  - 802.1, 802.3, 802.11, 802.15, 802.16, 802.17 (6 positions)

- SEC Chair and appointees elected/reaffirmed
  - Elected Nominee: Chair-Paul Nikolich,
  - Appointed Nominees: 1st Vice Chair-Geoff Thompson, 2nd Vice Chair-Mat Sherman, Exec Secy-Buzz Rigsbee, Recording Secy-Bob O’Hara, Treasurer-Bill Quackenbush, Regulatory Ombudsman-Carl Stevenson (6 positions)

- New SEC members assume offices at the close of the March 2002 Plenary Session
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
6.3 Patents

The patent policy is set forth in clause 6 of the *IEEE-SA Standards Board Bylaws*. 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.
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.
Tutorials

• Monday 6:30-8:30PM
  – High Speed Mobile Wireless Data
    • Potential ECSG request at Friday SEC meeting

• Monday 8:30-10PM
  – Dedicated Short Range Communications

• Tuesday 6:30-8PM
  – Gigabit Millimeter Wave Radio

• Tuesday 8-9:30PM
  – Ultra wide band communications
2. SEC Election Process

Paul described the biennial SEC election process. He described that each of the working groups must elect a chair at this meeting. He identified the appointees he will appoint, if he is elected to be the SEC chair.

Paul Nikolich was nominated for chair at this morning’s SEC meeting. He described his goals for 802.

Paul passes the thanks of himself and all of 802 for Jim’s participation and chairmanship.

3. Voting Rules and IEEE 802 Operating Rules

4. Treasurer’s Report
# IEEE Project 802

## Statement of Operations

### November 2001 Meeting

<table>
<thead>
<tr>
<th>November 2001 Meeting Income:</th>
<th>Actual</th>
<th>Budget</th>
</tr>
</thead>
<tbody>
<tr>
<td>179 Registrations@ $300</td>
<td>53,700</td>
<td></td>
</tr>
<tr>
<td>757 Registrations@ $250</td>
<td>189,250</td>
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<tr>
<td>Registrations@ $100</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>10 Cancellations@ $50</td>
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<td></td>
</tr>
<tr>
<td><strong>Subtotal</strong></td>
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<td>234,000</td>
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<tr>
<td>Deadbeat Registrations</td>
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<tr>
<td>Bank Interest</td>
<td>171</td>
<td>150</td>
</tr>
<tr>
<td><strong>Other</strong></td>
<td></td>
<td>375</td>
</tr>
<tr>
<td><strong>TOTAL Income</strong></td>
<td>243,921</td>
<td>234,525</td>
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<table>
<thead>
<tr>
<th>November 2001 Meeting Expenses:</th>
<th>Actual</th>
<th>Budget</th>
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</thead>
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<tr>
<td>Audio Visual Rentals</td>
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<td>Bank Charges</td>
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<td>30</td>
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<td>Copying</td>
<td>5,201</td>
<td>7,200  **</td>
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<td>Credit Card Discount</td>
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<td>Equipment Expense</td>
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<td>Get IEEE 802</td>
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<tr>
<td>Meeting Administration</td>
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<tr>
<td>Phone &amp; Electrical</td>
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<tr>
<td>Refreshments</td>
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<td>Shipping</td>
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<tr>
<td>Supplies</td>
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<td>0</td>
</tr>
<tr>
<td><strong>Other</strong></td>
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<tr>
<td><strong>TOTAL Meeting Expense</strong></td>
<td>249,719</td>
<td>232,430</td>
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</table>

**NET Meeting Income/Expense**  (5,798)  2,095

**Expenses from prior meetings**  300

**Expenses prepaid for current meeting**  9,200

**10 March 2002 Operating Reserve**  148,065

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

** Reserve is sufficient for contingent liabilities of ~$9,000.
# LMSC Budget

### 2001

<table>
<thead>
<tr>
<th>City</th>
<th>March Actual</th>
<th>June Actual</th>
<th>November Actual</th>
<th>St. Louis Budget</th>
<th>Vancouver Budget</th>
<th>Kauai Budget</th>
</tr>
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<tbody>
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<td>Hilton Head</td>
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<td>Austin</td>
<td>300</td>
<td>300</td>
<td>300</td>
<td>300</td>
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<td>255</td>
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<td><strong>249,921</strong></td>
<td><strong>229,650</strong></td>
<td><strong>216,900</strong></td>
<td><strong>210,525</strong></td>
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### 2002

<table>
<thead>
<tr>
<th>City</th>
<th>March Actual</th>
<th>June Actual</th>
<th>November Actual</th>
<th>St. Louis Budget</th>
<th>Vancouver Budget</th>
<th>Kauai Budget</th>
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</thead>
<tbody>
<tr>
<td>Hilton Head</td>
<td>10,482</td>
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<td>3</td>
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<td>Austin</td>
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<td>10,000</td>
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<td>4,139</td>
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<td>2,000</td>
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<td><strong>Refreshments</strong></td>
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<td><strong>TOTAL Meeting Expense</strong></td>
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<td><strong>249,719</strong></td>
<td><strong>247,115</strong></td>
<td><strong>227,754</strong></td>
<td><strong>245,551</strong></td>
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</table>

### 2003

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<tr>
<th>City</th>
<th>March Actual</th>
<th>June Actual</th>
<th>November Actual</th>
<th>St. Louis Budget</th>
<th>Vancouver Budget</th>
<th>Kauai Budget</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hilton Head</td>
<td>81,418</td>
<td>131,034</td>
<td>153,853</td>
<td>148,065</td>
<td>130,600</td>
<td>119,746</td>
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<tr>
<td>Portland</td>
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<td>130,600</td>
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<td>72,676</td>
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<td><strong>74,676</strong></td>
<td><strong>61,561</strong></td>
<td><strong>74,676</strong></td>
<td><strong>61,561</strong></td>
<td><strong>51,153</strong></td>
</tr>
</tbody>
</table>

### NET to Operating Reserve

<table>
<thead>
<tr>
<th>Opening Reserve</th>
<th>Projected Closing Reserve</th>
<th>Projected Closing Cash</th>
</tr>
</thead>
<tbody>
<tr>
<td>81,418</td>
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<td>541</td>
</tr>
<tr>
<td>131,034</td>
<td>154,730</td>
<td>152,730</td>
</tr>
<tr>
<td>153,853</td>
<td>148,055</td>
<td>146,055</td>
</tr>
</tbody>
</table>
5. IEEE Project Editor's Status Report

Paul introduces Jennifer Longman (802 project editor).

Four documents published since the November meeting: 802.11b-1999COR1, 802.5v, 802-2001, 802.3-2002

802.16 to be published in March. 802.15.1 is on the REVCOM agenda.
6. 802.1 Architecture and Interworking

Awards presented to Bill Lidinsky and Alan Chambers.
802.1 – Activities & status

Tony Jeffree, 802.1 WG Chair
11th March 2001
Areas of work

- 802 Architecture
- Interworking between 802 technologies
  - “Technical Plenary” if needed
- MAC Bridging
  - “traditional” bridging
  - VLAN bridging
- LAN management
- Website: http://www.ieee802.org/1/
Status of current projects - (1)

- Standard 802 revision (Overview & Architecture)
  - Approved by June RevCom
  - Now published, following BoG decision on compliance issues (removed Clause 5)
Status of current projects - (2)

- P802.1s - Multiple Spanning Tree support in VLANs
  - Draft 11.2 circulated to WG – protocol & BPDU format now fully specified
  - Looking to issue WG ballot before July
Status of current projects - (3)

- P802.1y – Maintenance items for 802.1D (including t, w)
  - Some bug fixes related to 802.1w
- P802.1z – Maintenance items for 802.1Q (including v)
  - Nothing so far identified
- P802.1aa – Maintenance items for 802.1X
  - Various proposed changes resulting from implementation experience
    - Recent paper re 802.1X/802.11 issues – will work that with .11 this week
Status of current projects - (4)

- PAR for “Playpen Ethertypes” has been approved – initial draft generated
- Looking at new work related to link layer discovery
Meetings this week:

- Mon PM: Plenary plus X/Dot 11 issue
- Tues: Task group sessions (times TBA)
- Weds AM: Technical plenary
  - 802.3 EFM & 802.17 Bridging issues
  - X/Dot 11 issues
- Weds PM: Task group sessions (times TBA)
- Thurs AM: Closing plenary
- Meeting room is “Wabash Cannonball”
7. 802.3 CSMA/CD (Ethernet)

Award to Geoff Thompson and David Law for publication of 1802.3. Also Geoff Thompson and David Law for publication of 802.3-2002.
IEEE 802.3 CSMA/CD Working Group Status

• Major Activities/Approved Projects:
  • P802.3ae 10 Gigabit Ethernet TF in final stages of Sponsor Ballot
  • P802.3af DTE Power via MDI Resolving WG Ballot comments
  • P802.3ah Ethernet in the First Mile Choosing core proposals this week
IEEE 802.3 CSMA/CD Working Group Status

• Other Activities:

  • P1802.3Rev., 10BASE-T Conformance Test Approved / Published
  • P802.3ag Maint #6 (Revision) Approved / Published March 8 in 3 Volumes as IEEE Std. 802.3 – 2002
  • P802.3aj Maint #7 (PAR app’d for NESCOM)
  • Liaison reports
  • Ad Hoc: Cable Discharge ?
  • Call for Interest : 100BASE-X on 2 SM fibers
IEEE Std. 802.3 Status

• Published (PDF, Paper is on the way)
  • IEEE Std. 802.3 - 2002

NOTAvailable at no charge from “IEEE Download 802”
  http://standards.ieee.org/getieee802/802.3.html

• Now Obsolete:
  • IEEE Std. 802.3 2000 Edition
802.3 CSMA/CD Working Group
Officers

• 802.3 Chair (for now): Geoff Thompson (thompson@ieee.org)

• 802.3 Vice Chair: David Law (David_Law@3Com.com)

• 802.3 Secretary: Bob Grow (bob.grow@intel.com)

• 802.3ae 10 Gig E’net: Jonathan Thatcher (jonathan@worldwidepackets.com)

• 802.3af DTE Power via MDI: Steve Carlson (scarlson@esta.org)

• 802.3ah Ethernet in First Mile: Howard Frazier (millardo@dominetsystems.com)
• 802.3 & SUB-GROUPS WILL MEET IN THIS HOTEL

• PLENARY STARTS at 1:00 PM in the REGENCY BALLROOM (Not this room!)

• Closing Plenary: Thurs, 1 - ~5:00

• 802.3 CSMA/CD Web site

• Information is always available on our web site:
  
  http://www.ieee802.org/3/index.html
8. 802.5 Token Ring

Award to Reinke, Jarvis, Messenger, Fierman Simon Harrison, Richard Knight for publication of 802.5v

9. 802.11 WLAN (Wireless Local Area Network)

Award to Stuart Kerry for publication of 802.11b-COR1 and 802.11d. Also to Bob O’Hara, Ken Clements, Arnoud Zwemmer, Johnny Zweig, Darwin Engwer, Chris Zegelin for the publication of 802.11d. Also to Victoria Poncini and Carl Andren and Bob O’Hara for publication of 802.11b-COR1.
Get file from Stuart
10. Regulatory Ombudsman
Opening report Radio Regulations to Radio Working Groups
March 2002 meeting

Regulatory Ombudsman (Vic Hayes)

http://ieee802.org/Regulatory/
\venus2\RREG  2002_March
Since November 2002 meeting

- Letter sent to the Minister of the MII (Information Industry) of the People’s Republic of China
  - May have arrived too late for his visit to the US
  - Plan was to inform the FCC to discuss the issue at the visit of the MII Minister to the US
  - Industry Canada is also active in the lobby
  - Held 2 tele-conferences in February to make a presentation outline
  - WECA visited MII officials on March 8
    - First experiment with “open spectrum”
    - There is flexibility in the regulation
    - They need information about interference danger in densely populated areas in other countries
    - They are studying the 5 GHz agenda items of WRC-03
Since November meeting (2)

- Sent a letter to the US JRG 8A-9B to complete the PDNR on DFS with characteristics of IEEE 802 standard
  - Approved to go to National Committee

- Sent a liaison to ETSI-BRAN with a new DFS
  - Further work on making the functions implementation independent
Since November meeting (3)

- Rules change procedure for
  - An SEC level Standing Committee
  - Additional requirement for wireless PARs
- Have asked for comments through the .1, .3, .11, .15 and .16 reflectors
- Held SEC e-mail ballot
- Resolution meeting held Sunday evening
External events: WECA 5 GHz

• On January 15, WECA filed a Petition for Rulemaking of the Wireless Ethernet Compatibility Alliance To Permit Unlicensed National Information Infrastructure Devices To Operate in the 5.470-5.725 GHz Band

• Comment period closed on February 28,
  – 3 opposing (1 ham, 1 Association and the ARRL)
  – 13 supporting (1 ham, 1 individual, 10 companies and the WCA)

• Contact Vic if you want to file late supporting comments

• Reply Comment period closes on March 15
External events: US WRC-03

- IWG5 approved the Preliminary US view on agenda item 1.5, but FCC and NTIA are at an impasse
- Draft proposal on agenda item 1.5 was submitted on the last IWG5 meeting
- ARRL had some objections and it was tabled
External events: National Consultations

- France have issued consultation document for 2.45 GHz and 5 GHz issues
  - Prepared “potential responses” for our members
- UK have issued a consultation document for license issues
  - Officially closed but may have been extended
- Canada issued a consultation document for 3-30 GHz spectrum
Objectives for St Louis. MO

- Seeking SEC approval of rules changes for SEC Standing Committee Radio Regulations and for Wireless PARs
- Work on PAR rules amendment
- To prepare and submit other position statements if needed
  - e.g. Spectrum requirement 5 GHz band
  - e.g. 2.45 GHz regulations in China
  - e.g. Supportive comments on WECA petition
  - e.g. Opposing comments on Sirius petition
- To hold joint meetings with TGh, TGg and SC WNG
Meeting schedule this week (1)

- Joint meetings
  - TGh: Monday 3:30 PM - 5:30 PM
  - TGg: Thursday 1 PM – 3 PM
  - WNG SC: Thursday 6:30 – 9:30 PM

- Rules change meetings
  - Monday 6:30 PM – 9:30 PM
  - Tuesday 8:00 AM – 10 AM
  - Thursday 8 AM – 10 AM
Meeting schedule this week (2)

• Regulatory matters (5 GHz and 2.4 GHz)
  – Monday 3:30 PM – 5:30 PM (joint with TGh)
  – Tuesday 3:30 PM – 6:30 PM
  – Wednesday 3:30 PM – 5:30 PM
  – Thursday 8 AM – 10 AM, 1:00 PM – 3:00 PM

• Addition meetings scheduled in between those mentioned
Potential output documents

• Revised proposals to the Rules changes
• Submissions to US WRC-03
• Response to IC consultation
11. 802.15 WPAN (Wireless Personal Area Network)
17th Session of meetings of the IEEE 802.15 Working Group for Wireless Personal Area Networks

March 11-15, 2002

Hyatt Regency Union Station
St. Louis, MO
802.15 Functional Organization Chart

802.15 WG
WG Chair-Bob Heile
Vice Chair-Jim Allen, Appairent
Vice Chair-Ian Gifford, Consultant

Secretary
Pat Kinney, Invensys
Asst. Secretary
Mike McInnis, Boeing

Study Groups

Study Group 3a
15.3 Alternate Phy
Rick Roberts, Chair
Xtreme Spectrum

Publicity Committee
Jim Meyer, Chair
Time Domain

Task Groups

Task Group 1
Bluetooth Radio 1
Ian Gifford, Chair
Consultant

Task Group 2
Coexistence
Steve Shellhammer, Chair
Symbol

Task Group 3
High Rate
John Barr, Chair
Motorola

Task Group 4
Low Rate
Bob Heile, Chair
Appairent

--- LLC Sub Layer
--- MAC Sub Layer
--- PHY Layer

--- Coexistence Model
--- Coexistence Mechanisms

--- LLC Sub Layer
--- MAC Sub Layer
--- PHY Layer

--- LLC Sub Layer
--- MAC Sub Layer
--- PHY Layer
Archive, Mailing List, URLs

- Web Page: http://www.ieee802.org/15/
- General Mailing List: stds-802-wpan@ieee.org
- Voter/Nearly List: stds-802-15@ieee.org
- TG1 list: stds-802-15-1@ieee.org
- TG2 list: stds-802-15-2@ieee.org
- TG3 list: stds-802-15-3@ieee.org
- TG4 list: stds-802-15-4@ieee.org
- SG3a list: stds-802-15-sg3a@ieee.org

Lists restricted to those on the list to reduce SPAM. To send to the list you must use the exact email address on the list as the ‘from’ address. Alias addresses such as ieee.org will not work.

To add your name to IEEE mailing list please send an e-mail to alfvin@ieee.org
Objectives of the St. Louis Meeting
March 11-15, 2002

TASK GROUP 1 - Bluetooth MEETING OBJECTIVES
1. Socialize any remaining issues prior to REVCOM

TASK GROUP 2 - Coexistence MEETING OBJECTIVES
1. REVIEW AND VOTE ON DRAFT CHANGE REQUESTS
2. FINALIZE DRAFT FOR LETTER BALLOT
3. VOTE TO SEND DRAFT TO WORKING GROUP FOR LETTER BALLOT
4. PAR TITLE CHANGE TO BE VOTED ON BY EXCOM
Objectives of the St. Louis Meeting
March 11-15, 2002

TASK GROUP 3-High Rate MEETING OBJECTIVES

1. CONFERENCE CALL STATUS, INCLUDING APPROVAL OF ANY AD HOC BUSINESS
2. LETTER BALLOT COMMENT RESOLUTION
3. MANDATORY SECURITY SUITE SELECTION
4. UPDATE DRAFT AS REQUIRED
5. RE-CIRBULATE LETTER BALLOT
6. EXCOM SPONSOR BALLOT PREP (LETTER BALLOT)
Objectives of the St. Louis Meeting
March 11-15, 2002

TASK GROUP 4-Low Rate

MEETING OBJECTIVES:

1. CONFERENCE CALL STATUS, INCLUDING APPROVAL OF ANY AD HOC BUSINESS
2. COMMENT RESOLUTION ON LETTER BALLOT
3. SECURE WORKING GROUP APPROVAL TO MOVE TO RECIRCULATION
4. INITIATE SPONSOR BALLOT POOL UPDATE
5. OBJECTIVES FOR MAY MEETING
Objectives of the St. Louis Meeting
March 11-15, 2002

STUDY GROUP 3a-15.3 alt PHY, MEETING OBJECTIVES

1. HEAR APPLICATION PRESENTATIONS
   (Ref: 02023r2P802.15 CFA)

2. GENERATE A PRESENTATION SUMMARY
   (Ref: 02XXXr0P802.15)

3. WORK ON PAR & 5C (Ref: 02XXXr0P802.15)

4. START WORK ON REQUIREMENTS DOCUMENT
   (Ref: 02XXXr0P802.15)

5. START WORK ON SELECTION CRITERIA
   (Ref: 02XXXr0P802.15)
Objectives of the St. Louis Meeting
March 11-15, 2002

802.15 PC/802.11PC OBJECTIVES FOR THIS MEETING:

1. SELECT NEW CHAIRS FROM 802.11
2. Update Conference Calendar
3. ESTABLISH ONGOING AGENDA
4. Continue to Work on Joint 802.11 / 802.15 Publicity Activities
St. Louis Meeting Graphic

17th IEEE 802.15 WPAN MEETING
Hyatt Regency St. Louis
March 11th-15th, 2002

The graphic below describes the weekly session of the IEEE P802.15 WG in graphic format.

R2

07:00-07:30
07:30-08:00
08:00-08:30
08:30-09:00
09:00-09:30
09:30-10:00
10:00-10:30
10:30-11:00
11:00-11:30
11:30-12:00
12:00-13:00
13:00-13:30
13:30-14:00
14:00-14:30
14:30-15:00
15:00-15:30
15:30-16:00
16:00-16:30
16:30-17:00
17:00-17:30
17:30-18:30
18:30-19:00
19:00-19:30
19:30-20:00
20:00-20:30
20:30-21:00
21:00-21:30

802.15 AC MEETING
802.15 AC MEETING
802.15 AC MEETING

802 SEC MEETING
802 SEC MEETING

Optional Meeting Time & Network Setup

Task Group 1 - BLUETOOTH
Task Group 2 - COEXISTENCE
Task Group 3 - HIGH RATE WPAN
Task Group 4 - LOW RATE
Task Group 5 - ADVISORY COMMITTEE

802 COEX
R-REG
SG3
TUT
SEC

Task Group D (Regulatory Domain Update)
802.11 Radio Regulatory Ad-Hoc Group
IEEE / ETSI / IMTAC 5 GHz Globalization Study Group
IEEE 802 Tutorials 1, 2, 3 and 4
IEEE 802 Sponsor Executive Committee
12. 802.16 BWA (Broadband Wireless Access)
IEEE 802.16
Working Group on
Broadband Wireless Access
(BWA)

LMSC Opening Plenary
11 March 2002
Hyatt Regency St. Louis
802.16 Membership

- 158 Members
- 53 Potential Members
- 60 Observers
802.16 Officers

- Chair: Roger Marks
- Vice Chair: Brian Kiernan
- Secretary: Dean Chang
802.16 Project Structure

Air Interface (Standard)

IEEE Standard 802.16
approved 6 Dec 2001
(publication: March 2002)
MAC
10-66 GHz PHY

P802.16a
2-11 GHz PHY
MAC enhancements

WG Letter Ballot
RevCom target: August 02

Coexistence (Recommended Practice)

IEEE Standard 802.16.2
published 10 Sep 2001
(in GetIEEE802 ASAP)

10-66 GHz

P802.16.2a
2-11 GHz

PAR Approved Aug 2001
Proposed 802.16c PAR

• To amend IEEE Standard 802.16 by the addition of 10-66 GHz profiles
  – for compliance and interoperability tests

• Expect to request SEC approval on Friday
802.16 Tutorial: Gigabit Radio

“Upper Millimeter-Wave History, Technology and Applications for Gigabit Communications Services”

Wayne Pleasant
Doug Lockie
Tuesday 6:30-8 pm

Expect this to form the basis of a Friday SEC request for 802.16 Study Group
Resources

• on LAN this week:
  – 10.0.1.16
  – wirelessman16
  – mercury

• permanently:
  – http://WirelessMAN.org
13. 802.17 RPR (Resilient Packet Ring)
IEEE 802.17 Resilient Packet Ring

Meeting # 7

Michael Takefman, Chair

http://www.ieee802.org/17
stds-802-17@ieee.org
Officers of RPRWG

• Chair                  Mike Takefman
• Vice-Chair             Bob Love
• Secretary              B.J. Lee
  – Asst Secretary       Mannix O’Connor
• Web-Masters            John Hawkins
• Editor In Chief        Tom Alexander
RPRWG

• New 802 Project approved by IEEE Standards Board on Dec. 7, 2000 as IEEE 802.17 Resilient Packet Ring Working Group

• The Resilient Packet Ring Working Group will define a Resilient Packet Ring Access Protocol for use in Local, Metropolitan and Wide Area Networks for transfer of data packets at rates scalable to many gigabits per second.

• The project will use existing Physical Layer specifications and may develop new PHYs where appropriate.
802.17 Timeline
Next Interim Meeting

• May 6-9, 2002
  Crown Plaza Hotel
  Ottawa, Canada
14. Tutorials, Meeting Arrangements

Paul described the High Speed Mobile Wireless Data tutorial, that might result in a study group request at the Friday SEC meeting. He also presented the schedule for the other tutorials on Monday and Tuesday evening.

12:25 Adjourn

The meeting was adjourned at 12:25pm.

6.01 PL IEEE 802 PLENARY MEETING ENDS 12:25 PM

10 Respectfully Submitted,
Bob O’Hara
Recording Secretary