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

Friday, March 15, 2002 – 1:00 p.m.

Hyatt Regency, St. Louis, MO

1. MEETING CALLED TO ORDER

5   Paul Nikolich called the meeting to order at 1:05pm. Members in attendance were:

Paul Nikolich	- Chair, IEEE 802 LAN / MAN Standards Committee
	- Vice 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

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The meeting was attended by approximately 20 IEEE 802 Working Group members and several guests.

2.00 APPROVE OR MODIFY AGENDA

Motion to approve agenda

Items in the proposed agenda that are on the consent agenda are shown as white text on black background.

25   **Move/Second: Stuart Kerry/ Vic Hayes**

9/0/0 Approved at 1:07 pm

IEEE 802 SEC MEETING AGENDA (revision 3)
Friday, March 15, 2002 1:00 pm
Hyatt Regency, St. Louis, MO

1.00		**MEETING CALLED TO ORDER**	-	**Nikolich**	**1**	**01:00 P**
2.00		**APPROVE OR MODIFY AGENDA**	-	**Nikolich**	**4**	**01:01 P**
3.00		**TREASURER'S REPORT**	-	**Grow**	**10**	**01:05 P**
		Category (* = consent agenda)				
4.00	**ME***	**Name change of 802.15.2**	-	**Heile**	**0**	**01:15 P**
4.01	**MI**	**802 Chair Election**	-	**Nikolich**	**5**	**01:15 P**
4.02	**MI**	**Affirmation of 802 chair's appointments**	-	**Nikolich**	**5**	**01:20 P**
4.03	**II**	**Announce WG chair election results**	-	**Nikolich**	**5**	**01:25 P**
4.04	**MI**	**Initiation of rules changes (SEC meeting times, second vice chair, SEC email ballot)**	-	**Nikolich**	**20**	**01:30 P**

4.05	ME	letter to BoG inviting co-location at July 2002 plenary	-	Nikolich	5	01:50 F
4.06	ME	Reply comment to FCC	-	Hayes	5	01:55 F
4.07	ME	802.16c PAR to NESCOM	-	Marks	10	02:00 F
4.08	ME	Affirmation of Interpretation of IEEE Std 802.16	-	Marks	10	02:10 F
4.09	ME	Respond to liaison letter from ETSI BRAN	-	Hayes	5	02:20 F
4.10	ME	802.3ae conditional approval	-	Thompson	5	02:25 F
4.11	ME	Get802 recommendation to IEEE-SA	-	Thompson	10	02:30 F
4.12	ME	Trademark recommendation to IEEE-SA	-	Grow	10	02:40 F
4.13	ME	Standard front matter recommendation to IEEE	-	Jeffree	10	02:50 F
4.14	MI	802.16 WG Study Group on Mobile Broadband Wireless Access	-	Marks	10	03:00 F
4.15	II	PR Update	-	Marks	5	03:10 F
4.16	MI	Renew 802.15.3 Alt PHY Study Group	-	Heile	10	03:15 F
4.17	MI	Establishment of RR TAG	-	Hayes	10	03:25 F
4.18	II	Appoint RR TAG chair	-	Nikolich	2	03:35 F
4.19		Break	-		20	03:37 F
4.20	MI	Rules change for TAG	-	Hayes	10	03:57 F
4.21	MI	Rules change for PAR	-	Hayes	10	04:07 F
4.22	MI	Establish 802.0 Coexistence Study Group	-	Lansford	5	04:17 F
4.23	MI	Customary expenses	-	Grow	5	04:22 F
4.24	MI	Bank signatory changes	-	Grow	5	04:27 F
4.25	MI	Authorization to transfer bank account	-	Grow	5	04:32 F
4.26	MI	Meeting services contract extension	-	Grow	5	04:37 F
4.27	II	List of rules issues	-	Sherman	10	04:42 F
4.28	II	ITU Liaison Letter	-	Takefman	5	04:52 F
4.29	II	802.15.2 Letter Ballot	-	Heile	2	04:57 F
4.30	II	802.3af to form sponsor ballot group	-	Thompson	2	04:59 F
4.31	II	Meeting planner RFP update	-	Rigsbee	10	05:01 F
4.32	II	Future Meetings	-	Rigsbee	5	05:11 F
4.33	II	Interim meetings	-	O'Hara	3	05:16 F
4.34		Adjourn				06:00 F

ME - Motion, External   MI - Motion, Internal

DT- Discussion Topic   II - Information Item

3.00		TREASURER'S REPORT	-	Grow	10	01:05 F

IEEE Project 802
Estimated Statement of Operations
March 2002 Meeting

March 2002 Meeting Income:		Actual	Budget	
Registrations	995	257,350	234,000	
Deadbeat Registrations		0	0	
Bank Interest		140	150	
Other		500	375	
TOTAL Income		**257,990**	234,525	

November 2001 Meeting Expenses:	Estimate	Budget	
Audio Visual Rentals	12,000	8,000	
Bank Charges	0	35	
Copying	4,600	6,000	*
Credit Card Discount	7,206	6,426	*
Equipment Purchase	2,000	8,000	
Get IEEE 802	74,625	67,500	
Meeting Administration	52,360	55,500	*
Network	7,750	10,000	
Phone & Electrical	1,000	2,000	
Refreshments	69,000	40,500	
Shipping	3,000	3,000	
Social	31,000	34,200	
Supplies	1,000	0	
Other	8,800	5,954	
TOTAL Meeting Expense	**274,341**	247,115	

NET Meeting Income/Expense	**(16,351)**	(12,590)
Estimated Other Liabilities	**(9,000)**	
10 March 2002 Operating Reserve	**148,065**	
Projected July 2002 Operating Reserve	**122,714**	

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

| | 4.00 | ME* | Name change of 802.15.2 | - | Heile | 0 | 01:15 F |

Approved on the consent agenda, when the overall agenda was approved.

| | 4.01 | MI | 802 Chair Election | - | Nikolich | 5 | 01:15 F |

Moved: To elect Paul Nikolich as 802 Sponsor Executive Committee Chair
Moved: Tony Jefree/Bob Grow
9/0/0: Approved.

| | 4.02 | MI | Affirmation of 802 chair's appointments | - | Nikolich | 5 | 01:20 F |

Moved: To affirm Geoff Thompson as Vice Chair, Mat Sherman as 2nd Vice Chair, Buzz Rigsbee as Executive Secretary, Bob O'Hara as Recording Secretary, and Bill Quackenbush as Treasurer, and Carl Stevenson as Regulatory Ombudsman as the appointed officers to the 802 Sponsor Executive Committee.
Moved: Tony Jeffree/Bob Grow

Moved: to divide the question by taking the 2nd Vice Chair appointee to a separate motion.
Moved: Stuart Kerry/Geoff Thompson
4/3/3: Passes

The new motions are:
Moved: To affirm Geoff Thompson as Vice Chair, Buzz Rigsbee as Executive Secretary, Bob O'Hara as Recording Secretary, and Bill Quackenbush as Treasurer, and Carl Stevenson as Regulatory Ombudsman
9/0/0 Approved.

Moved: To affirm Mat Sherman as Vice Chair, a non-voting position.
9/0/0 Approved

| | 4.03 | II | Announce WG chair election results | - | Nikolich | 5 | 01:25 F |

The following Working Group chair and vice chairs are reaffirmed by their working groups:
802.1: Tony Jeffree chair, Neil Jarvis vice chair
802.3: Bob Grow chair, David Law vice chair
802.11: Stuart Kerry chair, Harry Worstell and Al Petrick vice chairs
802.15: Bob Heile chair, Jim Allen and Ian Gifford vice chairs
802.16: Roger Marks chair, Paul Struhsaker vice chair
802.17: Mike Takefman, Bob Love vice chair

| | 4.04 | MI | Initiation of rules changes (SEC meeting times, second vice chair, SEC email ballot) | - | Nikolich | 20 | 01:30 F |

There is not a strong consensus for a closing meeting time.

Rules Change—Closing Plenary

- Met Sunday 7-8pm
  - Strong consensus not achieved
    - Some WGs need more time
    - Making closing SEC mtg later on Friday would be a hardship to Exec members and WG observers
    - Proposal to approve Sunday as WG plenary meetings
  - Action:
    - Nikolich will request SEC approve a rules change ballot (text will be emailed to you)
      - Monday SEC 8-10:30
      - Friday SEC 1-5PM

IEEE 802 LMSC Rules Revision Letter Ballot

From: Paul Nikolich, Chair IEEE 802
To: Sponsor Executive Committee   Date: March 17, 2002

Scope: Rules Change to set the Plenary Session opening and closing SEC meeting times.

Purpose: To give Working Groups more meeting time by moving the closing SEC meeting to Friday and to eliminate confusion surrounding the times of the opening and closing SEC meetings.

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 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 (March01, Fri 8-12PM; July01, Fri 3-7PM; November01, Fri 3-7PM; March02, Fri 1-6PM)

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 opening ~~Monday~~ and closing ~~Thursday~~ Executive meeting required for Plenary meeting attendance.

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

7. The ~~Monday morning and Thursday evening~~ opening Executive Committee meeting~~s during the Plenary session~~ shall start at 8AM and end no later than 10:30AM on Monday morning and ~~at~~ the closing Executive Committee meeting shall start at 1PM and shall end no later than 6 PM on Friday during the Plenary session.~~midnight on Thursday evening~~.

From Section 2. LAN MAN Standards Committee Plenary, 5ᵗʰ paragraph:

Each Working Group, Technical Advisory Group, and Executive Committee Study Group Chair shall provide a status report to the SEC Recording Secretary no later than one hour after the end of closing Executive Committee meeting ~~9AM Friday morning of the Plenary meeting week~~. This status report shall include a description of the progress made during the week, as well as plans for further work and future meetings. The Recording Secretary shall post these status reports on the 802 web page no later than one week after the close of the Plenary meeting.

Moved: To submit the above rules change proposal to SEC letter ballot.
Moved: Buzz Rigsbee/Vic Hayes
10/0/0

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2ⁿᵈ VC rules change

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

3.4.2 Voting Between Plenary Meetings
At times, it may become necessary for the Executive Committee to render a decision that cannot be made prior to the close of one plenary but must be made prior to the following plenary. The SEC electronic balloting mechanism may be used at the discretion of the Chair or a Vice Chair.
3.4.2.1 Electronic Balloting
The Chair or a Vice Chair shall issue, tally the results of the ballot and determine the minimum duration of the ballot.
3.6.1 Initiation of Proposed Rules Changes
Writers of proposed rule changes are encouraged to seek the advice of an LMSC Vice Chair or
3.6.3 Distribution and Executive Committee Ballot
An Executive Committee Vice Chair,
3.6.4 Assignment of the Proposal to Study:
If the Executive Committee votes to assign a proposal to further study, an Executive Committee Vice Chair,
3.6.5 LMSC Approval
After distribution of a proposed rules change and an Executive Committee letter ballot has been conducted, an LMSC Vice Chair

Other Notes:
5.1.4.5 Removal of Working Group Chairs or Vice Chairs.
The LMSC Executive Committee may remove the Chair or a Vice Chair of a Working Group or TAG for cause.

2ⁿᵈ VC Rules Change

- Motion: To submit rules change adding second vice chair to SEC operating rules to SEC Letter Ballot

- Moved:

- Second:

- App   Dis   Abs

Moved: To submit rules change adding a second vice chair to SEC operating rules to SEC letter ballot
Moved: Bob O'Hara/Roger Marks
9/0/1 Approved.

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SEC email ballot rules change

3.4.2.1 Electronic Balloting

The Chair, ~~or~~ the Vice Chair (or other Executive Committee member designated by the LMSC Chair) shall issue, tally the results of the ballot and determine the minimum duration of the ballot. A majority of eligible voting SEC members must vote approve in order for the ballot to pass<u>. The person conducting the ballot may at their discretion extend the closing time for a ballot if a quorum is not achieved for up to 7 days at a time. A ballot may be extended up to 3 times for this reason. If a quorum still is not achieved, the ballot fails.</u>

3.6.3 Distribution and Executive Committee Ballot

The Executive Committee Vice Chair, (or other Executive Committee member designated by the LMSC Chair), shall distribute the proposed change to all persons who have attended the current Plenary Session or one of the preceding two Plenary Sessions at least sixty (60) days prior to the next Plenary Session and further; invite and collect comments for presentation to the Executive Committee.

Concurrent with distribution to the LMSC members, an Executive Committee letter ballot shall be conducted, to close thirty (30) days prior to the next Plenary Session.

<u>In the case of an electronic ballot, the time required before the next Plenary Session may be reduced to 15 days. The time after the current plenary by be reduced to 15 days as well for an electronic ballot.</u>

SEC Email Ballot Process Rules Change

- Motion: To submit rules change modifying rules to improve SEC email ballot process to SEC Letter Ballot

- Moved:

- Second:

- App   Dis   Abs

Moved: to submit rules change modifying rules to improve SEC email ballot process to SEC letter ballot.
Moved: Bob Grow/Bob O'Hara
9/0/1 Approved.

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| 4.05 | ME | letter to BoG inviting co-location at July 2002 plenary | - | Nikolich | 5 | 01:50 F |

Other Rules Issues

- Quorum at interim meetings --- Kerry
- WG email balloting --- Nikolich
- Procedure One update --- Quackenbush
- Rules change procedure—notice mechanism
  - » --- Sherman
- WG ballot recirculation duration/existence--- Thompson

- **Action:** prepare recommendation for rules change letter ballot actions in July 2002

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

To: Ben Johnson, President of the IEEE SA BoG
From: Paul Nikolich, Chairman, Geoff Thompson, Vice-Chairman
Date: March 12, 2002
Subject: Co-location of IEEE SA BoG and IEEE 802 meetings in July 2002

Dear Ben,

As I indicated in my prior email, it would be valuable to have the IEEE SA BoG and IEEE 802 meetings co-located in July 2002. Co-locating our meetings will enable our respective groups to have a face-to-face discussion on topics that are of vital importance to our constituency and in so doing better understand each other.

The IEEE 802 will be holding its Plenary Session Monday through Friday July 8-12. Assuming IEEE SA BoG holds it meetings Friday/Saturday July 12/13, the IEEE 802 recommends a joint meeting between the IEEE 802 Sponsor Executive Committee and the IEEE SA BoG be held from 5pm-6pm on Friday afternoon.

We suggest the agenda for this meeting as follows:
    - each group itemize their respective major standards challenges
    - each group single out one issue for in depth discussion
    - each group initiate the resolution of those issues.

As you suggested, we can follow this meeting with a joint dinner to allow us to informally exchange our ideas.

Lastly, one of the imperative guiding principles of standards development is openness. IEEE 802 adheres to this principle and requests that the IEEE BoG agree to have all its meetings open to observation by all 802 attendees at the July meeting.

Regards,
Paul Nikolich, Geoff Thompson

Motion: to approve sending above letter to BoG
Moved: Geoff Thompson
Second:
App   Dis   Abs

Moved: to approve sending the above letter to the BoG
Moved: Geoff Thompson/Stuart Kerry
9/0/0 Approved.

Moved: To authorize the treasurer to pay for dinner as described in 4.05
Moved: Bob Grow/Geoff Thompson
9/1/1 Approved.

Moved: That the chair be empowered to invite select members of 802 to the dinner.
Moved: Geoff Thompson/Stuart Kerry
10/0/0

| 4.06 | ME | Reply comment to FCC | - | Hayes | 5 | 01:55 F |

The following pages are the text, in FCC format, for reply comments supporting the WECA Petition for Rulemaking seeking access to the 5470-5725 MHz band for use by WLAN/WMAN/WPAN devices.

This version of this document contains edits requested by 802.15 and 802.16.

A "clean" version with the next revision number will be created and any necessary reformatting will be incorporated therein.

This page and the IEEE 802 standard document format headers and footers will not appear in the document delivered to the FCC, as they are not part of the FCC-prescribed format for formal comments.

IEEE 802

Local and Metropolitan Area Network Standards Committee
Homepage at http://ieee802.org/

March 15, 2002

To: Mr. William F. Caton   Reply to: Carl R. Stevenson
        Acting Secretary   Interim Chair,
        Federal Communications Commission   IEEE 802 Radio Regulatory TAG
        236 Massachusetts Ave., NE, Suite 110   Agere Systems
        Washington, DC 20002   1249 So. Cedar Crest Blvd.
                                                              Room ALC49F141
                                                              Allentown, PA 10103
                                                              phone: (610) 712-3217
From: Paul Nikolich,   mobile: (610) 704-2349
        Chair, IEEE Project 802   e-mail: carl.stevenson@ieee.org
        18 Bishops Lane
        Lynnfield, MA 01940
        (781) 334-6524
        p.nikolich@ieee.org

Dear Mr. Caton:

Please find attached the Reply Comments of the IEEE Project 802 Local and Metropolitan Area
Network Standards Committee ("the IEEE 802 LMSC") in RM-10371.

Should you have any questions regarding this filing, please feel free to contact Mr. Carl R.
Stevenson, the Interim Chair of our Radio Regulatory Technical Advisory Group.

Respectfully submitted,

/s/   /s/
Paul Nikolich   Carl R. Stevenson
Chair, IEEE 802   Interim Chair, IEEE 802 Radio Regulatory TAG
p.nikolich@ieee.org   carl.stevenson@ieee.org

Before the
Federal Communications Commission
Washington, D.C. 20554

In the Matter of	)
	)
Petition for Rulemaking of the Wireless	)
Ethernet Compatibility Alliance To Permit	) RM-10371
Unlicensed National Information Infrastructure	)
Devices To Operate in the 5.470-5.725 GHz	)
Band	)

To: The Commission

Reply Comments of IEEE 802 in RM-10371

IEEE 802 appreciates the opportunity to file these Reply Comments in response to comments previously filed in the above-captioned proceeding and in support of the instant Petition for Rulemaking ("the WECA Petition").

As stated in the WECA Petition, the Commission is to be commended for its foresight in anticipating the need and providing for a robust unlicensed wireless industry when it adopted the 5 GHz unlicensed rules.

Access to more bandwidth in the 5 GHz frequency range, <u>and ve ry importantly</u>, <u>globally harmonized spectrum segments there</u>, will be critical to the continuation of the stunning success story that Part 15 license exempt devices, and the services that they provide to the public, represent to date. Examples of such devices include Wireless Local Area Networks ("WLANs"), Wireless Metropolitan Area Networks ("WMANs"), and Wireless Personal Area Networks ("WPANs").

DRAFT Reply Cmts on WECA Petition   page 3   Carl R. Stevenson, Agere Systems

IEEE 802 firmly supports the WECA Petition and urges the Commission to expeditiously issue a Notice of Proposed Rulemaking proposing the modifications to its rules requested by WECA, in order to provide adequate, globally harmonized spectrum segments for WLANs, WMANs, and WPANs in the 5 GHz frequency range.

As the primary international industry body developing industry standards for wireless networks, IEEE 802 is an interested party in this proceeding.

Background on IEEE 802

1.   IEEE 802 operates under the rules of the Institute of Electrical and Electronics Engineers, Inc. ("IEEE™") and the IEEE Standards Association ("IEEE-SA"). It is formally known as the Local and Metropolitan Area Networks ("LAN/MAN") Standards Committee. IEEE 802 is sponsored by the IEEE Computer Society. This response was prepared by the Radio Regulatory Ad-Hoc Group at the March 2002 IEEE 802 meeting and was subsequently approved by the IEEE 802 Sponsor Executive Committee after review by each of its three wireless Working Groups.

2.   IEEE 802 has the basic charter to develop and maintain networking standards and recommended practices, using an open and accredited process, and to enable and advocate them on a global basis.

3.   IEEE 802 was formed in February 1980 and has met at least three times per year as a plenary body ever since that time. IEEE 802 has grown from a participation of 500 individuals in the 1990s to over 1000 individuals in the plenary sessions in 2002.

4.   The IEEE 802.11a standard is designed to operate in the 5 GHz frequency range, providing data rates of up to 54 Mbps. Task Group "h" within the IEEE 802.11 Working Group is currently developing extensions to the base IEEE 802.11 standard for Dynamic

Frequency Selection and Transmit Power Control ("DFS" and "TPC") to facilitate
sharing with other users in the 5 GHz band.

5.   The IEEE 802.16a standard is also designed to operate in 5 GHz frequency range,
providing similar data rate s to IEEE 802.11a. Similarly, Dynamic Frequency Selection
and Transmit Power Control ("DFS" and "TPC") are used within this standard to
facilitate sharing with other users in the 5 GHz band.

The Preponderance of Comments Support the WECA Petition and the Commission Should Move Forward with an NPRM

6.   The overwhelming majority of commenters expressed strong support for the
Petition. Only three commenters opposed the Petition. We believe that the record in this
proceeding more than amply supports the issuance of a Notice of Proposed Rulemaking.

7.   We believe that the petition and the comments in favor thereof stand on their own
merits. However, we would like to take the opportunity to rebut some of the arguments
presented by those who opposed the Petition.

Response to the Comments of the American Radio Relay League ("ARRL")

8.   In its comments, ARRL claims that the WECA Petition is "fatally flawed,"
asserting that the Petition "fails to establish any current need" and that it "presupposes the
outcome of the 2003 World Radiocommunication Conference" ("WRC-03").[1] We
disagree with these assertions.

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[1] *See* Comments of ARRL *at 1.*

DRAFT Reply Cmts on WECA Petition   page 5   Carl R. Stevenson, Agere Systems

9.   In the first case, the Petition cites a spectrum requirements study which was done
using an established methodology, accepted by ITU-R, which projects a spectrum
shortfall of at least 240 MHz by the year 2010.[2]   While WECA admits in its Petition that
the cited spectrum requirements study considered requirements within the European
Union, IEEE 802 agrees fully with WECA's contention that the conclusions of the ETSI
study should be a reliable (perhaps even conservative) indicator of 5 GHz
WLAN/WMAN/WPAN spectrum requirements in the United States.

10.   In the second case, IEEE 802 does not agree that the Petition "presupposes the
outcome of WRC-03."[3] On the contrary, while the Petition recognized that a globally
harmonized allocation consistent with what WECA requests in the Petition is on the
agenda for WRC-03, WECA's request for access to the requested spectrum is an
immediate request and is not contingent in any way on the outcome of WRC-03. We also
believe that it is necessary for the Commission to act now, before the impending shortfall
takes its toll on both the wireless networking industry and the millions of users that it
serves. To wait until the shortfall is acute would be contrary to the public interest and
poor public policy because by the time the regulatory process could be completed to
rectify the situation, the damage would already have been done.

11.   Another major thrust of the ARRL's comments is that other uses in the 5 GHz
frequency range have "... all but rendered the band unusable to the Amateur Service."
The fact that the level of usage of the 5 GHz spectrum allocated to the Amateur Service is
negligible leads, in our viewpoint, to the conclusion that this concern is exaggerated.
Furthermore, the use of interference mitigation techniques within IEEE 802 standards,
which are designed to facilitate spectrum sharing with other users of the subject band will
further negate this concern.

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[2] See the Petition *at III.*
[3] *Id.*

DRAFT Reply Cmts on WECA Petition   page 6   Carl R. Stevenson, Agere Systems

Response to the Comments of the Amherst Alliance

12.   IEEE 802 believes that the goals embodied in the Petition actually support the stated objectives of the Amherst Alliance as outlined in their comments to the Commission in this proceeding.[4]

13.   We have noted, for instance, a very high acceptance of unlicensed wireless WLAN equipment conforming to the IEEE 802.11b standard by community network and "freenet" users, and we expect the same to occur with the new IEEE 802.11a and 802.16a standards developed for 5 GHz U-NII band operation.

14.   Today there are many thousands of unlicensed wireless users forming virtual internet communities, both in metropolitan areas and in rural and underserved areas, within which valuable data communications and information is exchanged to support daily needs.

15.   We believe that equipment based on the new standards such as 802.11a and 802.16a now being fielded will accelerate the growth of such virtual communities by making affordable wireless broadband services available on a large scale. As mentioned above, this would seem to actually support the stated goals of the Amherst Alliance.

16.   Furthermore, the Amherst Alliance implies, without any supporting rationale, that, should the Petition be granted, significant harmful interference would occur, resulting in a "major reduction in the number of hams." As an initial matter, IEEE 802 does not believe that the use of the requested bands would cause harmful interference to ham operators. As pointed out above, interference mitigation techniques employed in WLAN/WMAN/WPAN devices will significantly reduce the potential for harmful interference to the Amateur Radio Service. Moreover, IEEE 802 believes that this implication is greatly exaggerated. If the 5 GHz band was a highly populated, popular

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[4] *See* Written Comments of the Amhurst Alliance and Americans for Radio Diversity *at page 2.*

amateur band, there might be some factual basis for such a contention, but that is simply not the case in this instance.

17.   We believe that low cost, high bandwidth equipment conforming to IEEE 802 standards are directly applicable to, and will actually enable and facilitate, the amateur radio community's own wireless network developments at 5 GHz. We foresee only winners in this scenario. IEEE 802 believes that the objectives of the Amherst Alliance will be preserved and extended in a more effective and consolidating manner by the availability of low cost, high performance equipment which will result from extending the U-NII bands to the 5470-5725 MHz range.

Response to the Comments of the Nickolaus E. Leggett

18.   The comments filed by Mr. Leggett address an important issue that IEEE 802 concurs with concerning mobile safety. The issue of driver distraction by data delivery devices is of paramount importance and is a concern that is always being addressed by the wireless industry and by IEEE 802.

19.   With regard to Mr. Leggett's assertion that Internet Service Providers ("ISPs") are victims of "theft" by freenets, ISPs supporting small rural areas are actively deploying unlicensed WLAN/WMAN equipment to provide needed high data rate wireless internet services at nominal cost. Unlicensed WLAN/WMAN links are also employed by many large ISPs to provide backhaul services that would be difficult and costly to provide by technology requiring licensed band operation and costly installation. Overall, the rapidly growing demand for unlicensed WLAN/WMAN devices has brought the price and availability of wireless equipment to such a level that has benefited both the ISP's and the community based operators of "freenets."

20.   Mr. Leggett expresses concern about "foreign models and decisions influencing U.S. regulatory policies." The Petition in its reference to global harmonization does not suggest to the FCC that foreign models or decisions regarding unlicensed 5 GHz wireless be applied to or used to influence the spectrum allocation process in the United States.

"Harmonization" is a process which is guided by a combination of the work of standards bodies and marketplace forces and the resulting economies of scale production both lowers the costs to the consumer and facilitates the ability to use the equipment worldwide.

21.   With regard Mr. Leggett's concern, the development of wireless standards such as IEEE 802.11a and IEEE 802.11b was not done principally in an effort to deal with cabling issues but to provide a low cost and mobile means of providing needed communications services that would otherwise not be available. For example, IEEE 802.11b equipment was used extensively in the aftermath of the recent tragedy in New York City to provide emergency communications.

22.   Finally, Mr. Leggett raises an issue concerning problems that may arise with unlicensed 5 GHz WLANs/WMANs/WPANs interfering with amateur radio "moonbounce" communications, often referred to in amateur circles as "Earth-Moon-Earth" ("EME"), due to its use of the moon as a passive reflector. Because such communications rely on the reception of very low power signals there is some possibility of co-channel interference generated by WLAN/WMAN/WPAN devices. However, the level of usage of this mode in the 5 GHz band by amateurs appears to be miniscule,[5] consequently we believe that the probability of harmful interference is remote. Additionally, since EME operation is traditionally accomplished by using very narrowband receivers and slow speed Morse code transmissions, such operations could conceivably be conducted in the guard bands between WLAN/WMAN/WPAN channels, such as those specified in the IEEE 802.11a standard.

---

[5] *The ARRL website contains an article at http://www.arrl.org/contests/results/99/EME.pdf that lists the results for the 1999 ARRL International EME Contest (the latest EME contest scores we were able to find on the ARRL website). This article indicates only 3 participating amateur stations worldwide actually used the 5 GHz amateur allocation, only one of which was a US amateur. Thus, even if one gratuitously assumed that since 1999 the number of amateurs worldwide using the 5 GHz band increased 100 fold, there would still only be ~300 amateurs worldwide actually using the 5 GHz band for EME communications.*

Response to the Comments of the Wireless Communications Association International, Inc. ("WCA")

23.   IEEE 802 generally supports the WCA in the comments it has set forth concerning the WECA Petition for Rulemaking. We believe, as do the WCA and WECA, that the extension of the U-NII band into the 5470-5725 MHz band will result in major benefits to the consumer who will see lower prices and improved internet access resulting from a fully competitive market for unlicensed broadband wireless devices and services having more bandwidth than currently available.

24.   IEEE 802 fully supports and endorses the WCA observation that co-existence with incumbent primary users of the 5470-5725 MHz band is of paramount importance and that interference mitigation techniques[6] be incorporated to minimize potential interference.

25.   The specification of interference mitigation criteria is a major objective of the IEEE 802 wireless standards development process. Indeed, the establishment of effective interference mitigation techniques will not only ensure protection for primary users such as the Radiolocation Services, but will lead to technologies and techniques that will support improved co-existence amongst all wireless communications users of the proposed band. In this way, valuable radio spectrum will see improved and efficient use in the support of future unlicensed broadband wireless services

Deleted: <#>However concerning the WCA's suggested EIRP limits in the proposed band, we feel, for considerations based on spectrum sharing with incumbent primary users, it is not appropriate to support the 1 Watt transmitter powers and higher EIRPs for point-to-point systems currently allowed in the 5725-5825 MHz band. We believe that it is more appropriate to use the emission requirements currently applied to the U-NII 5250-5350 MHz band in the 5470-5725 MHz band.¶

Formatted: Bullets and Numbering

Summary and Conclusions

     IEEE 802 firmly supports the WECA petition and urges the Commission to expeditiously issue a Notice of Proposed Rulemaking proposing the modifications to its rules for Part 15 unlicensed devices in the 5 GHz frequency range that are requested in the Petition.

Access to more bandwidth in the 5 GHz frequency range will be critical to the future continuation of the stunning success story of service to the public by Part 15 unlicensed devices, including WLANs, WMANs, and WPANs. This increased bandwidth will afford manufacturing economies of scale especially for equipment operating in the proposed new globally harmonized spectrum bands.

Respectfully submitted,

/s/   /s/
Paul Nikolich   Carl R. Stevenson
Chair, IEEE 802   Interim Chair, IEEE 802 Radio Regulatory TAG
p.nikolich@ieee.org   carl.stevenson@ieee.org

---

[6]*(such as Dynamic Frequency Selection ("DFS"))*

Certificate of Service

I the undesigned herby certify that on March 15, 2002, I served, by delivery to the US

Postal Service, true and complete copies of the attached Reply Comments of IEEE 802 in

RM-10371, to the following persons or entities as required by the Commission's rules:

Christopher D. Imlay

ARRL General Counsel

Booth, Freret, Imlay, & Tepper, P.C.

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/s/

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SEC Closing meeting March 2002

Agenda item 4.6
Reply Comment to FCC

IEEE 802 RREG RESOLUTION

Agenda: **-**
Date: **March 14, 2002**
Time: **3 PM-**

Motion By: Murray   Seconded By: Stevenson

Moved: To submit document RR-02/043r0 to the Wireless Working
           Groups with the request to review and approve the document for
           filing at the FCC

           11 3-0-0
           15 2-0-0
           16 1-0-0

Approve :   -   Do Not Approve :   -   Abstain : -   Motion   passes

IEEE 802.11 RESOLUTION

Agenda: -
Date: **March 15, 2002**
Time: -

Motion By: Hayes for RREG-   Seconded By: Kuwahara

Moved: To request SEC approval to file the contents of RR-02/043r0 with FCC in the prescribed process via the ECFS and to mail required service copies to other commenters

Approve: 74   Do Not Approve: 0   Abstain: -   Motion   12

IEEE 802.15 RESOLUTION

Agenda: -
Date: **March 15, 2002**
Time: -

Motion By: Stevenson   Seconded By: Kinney

Moved: To request SEC approval to file the contents of RR-02/043r0 with FCC via the ECFS and to mail required service copies to other commenters

With the proviso that WPANs will be included as what 802 represents

Approve: 27   Do Not Approve: 0   Abstain: 2   Motion: Passes

IEEE 802.16 RESOLUTION

Agenda: -
Date: **March 15, 2002**
Time: -

Motion By: Lycklama   Seconded By: Kaitz

Moved: To request SEC approval to file the contents of RR-02/043r0 with FCC via the ECFS and to mail required service copies to other commenters

          ----

          Unanimously approved a later motion to approve a version of the letter as modified.

Approve: 10   Do Not Approve: 13   Abstain: -   Motion: Fails

IEEE 802.0 RESOLUTION

Agenda: **4.06**
Date: **March 15, 2002**
Time: **-**

Motion By: <u>Hayes</u>   Seconded By: <u>Kerry</u>

Moved: To authorize Carl Stevenson to make the final edits, including the removal of paragraph 24 in accordance with 802.16's motion, to the Proposed Reply Comments on the WECA petition, to file the result with the FCC and mail the required service copies to the appropriate parties

Approve: 9   Do Not Approve: 0   Abstain: 1   Motion   Pass

Moved: To authorize Carl Stevenson to make the final edits, including the removal of parapgraph 24 in accordance with 802.16's motion, to the proposed Reply Comments on the WECA petition, to file the result with the FCC and mail the required service copies to the appropriate parties.
Moved: Vic Hayes/Stuart Kerry
9/0/1 Approved.

4.07	**ME**	**802.16c PAR to NESCOM**	**-**	**Marks**	**10**	**02:00 F**

Moved: To forward PAR 802.16c to NESCOM
Moved: Roger Marks/Buzz Rigsbee
9/0/0 Approved.

4.08	**ME**	**Affirmation of Interpretation of IEEE Std 802.16**	**-**	**Marks**	**10**	**02:10 F**

Moved: to affirm the 802.16 WG's interpretation of IEEE Std 802.16 in IEEE 802.16-02/15.
Moved: Roger Marks/

After discussion that the approval of SEC was not required, the motion was withdrawn.

4.09	**ME**	**Respond to liaison letter from ETSI BRAN**	**-**	**Hayes**	**5**	**02:20 F**

SEC Closing meeting March 2002

Agenda item 4.10

Respond to liaison letter from ETSI-BRAN

IEEE 802.0 RESOLUTION

Agenda: **4.10**
Date: **March 15, 2002**
Time: **-**

Motion By: <u>Hayes</u>   Seconded By:

Moved: To authorize Carl Stevenson to respond to a liaison letter received from ETSI-BRAN's Chair with thanks and requesting to be kept informed about the progress of the DFS mechanism

Approve: -   Do Not Approve: -   Abstain: -   Motion   -

Moved: To authorize Carl Stevenson to respond to a liaison letter received from ETSI BRAN's chair with thanks and requesting to be kept informed about the progress of the DFS mechanism.

5 **Moved Vic Hayes/Roger Marks**
   9/0/0 Approved.

| | 4.10 | ME | 802.3ae conditional approval | - | Thompson | 5 | 02:25 |

Moved: That LMSC grants conditional approval to the 802.3 chair to submit a final draft of P802.3ae to the June REVCOM
10 **meeting per LMSC rules, procedure 10.**
   Moved: Geoff Thompson/Bob Grow
   10/0/0 Approved.

| | 4.11 | ME | Get802 recommendation to IEEE-SA | - | Thompson | 10 | 02:30 |

15 **Moved: That appropriate members of the 802 SEC work with IEEE-SA staff and BoG membership to reinstate the GetIEEE802® program on the basis of the original agreement. Negotiations to include a satisfactory continuation beyond the May 15 annual review date.**
   Moved: Geoff Thompson/Stuart Kerry
   10/0/0 Approved.
20

| | 4.12 | ME | Trademark recommendation to IEEE-SA | - | Grow | 10 | 02:40 |

Moved: The current implementation of trademark labeling within IEEE 802 published standards is
   - **unconventional, excessive, decreases the readability of the documents.**
   - **In some instances improper,creating the possibility of penalties to the Institute.**
25 **Some of the uses may open the IEEE to penalties. The LMSC requests that the IEEE staff modify trademark labeling to be consistent with common industry practice.**
   Moved: Bob Grow/Stuart Kerry
   9/0/0 Approved

| | 4.13 | ME | Standard front matter recommendation to IEEE | - | Jeffree | 10 | 02:50 |

30

Moved: Following our discussions this week with Jerry Walker regarding the trademark use and certification/compliance/conformance statement that has been inserted in the front matter of Standard 802 and which is proposed for insertion in all future standards, our conclusion is that this statement is flawed. Our recommendation is that it be removed from all IEEE standards, pending the drafting of a revised statement in consultation with the IEEE
35 **standards community.**
   Moved: Tony Jeffree/Bob Heile
   8/0/2 Approved.

| | 4.14 | MI | 802.16 WG Study Group on Mobile Broadband Wireless Access | - | Marks | 10 | 03:00 |

40 **Moved: to approve the 802.16 Working Group's initiation of the 802.16 Study Group on Mobile Broadband Wireless Access (IEEE 802.16-02/14r1)**
   Moved: Roger Marks/Mike Takefman
   Mark Klerer presented a report on the rationale for establishment of the study group. The companies represented at the call for interest was presented, as well.
45 **10/0/0 Approved.**

| | 4.15 | II | PR Update | - | Marks | 5 | 03:10 |

Roger reported on the meeting on IEEE public relations. Roger is the SEC PR contact.

We had Karen McCabe (Senior Marketing Manager, IEEE Standards) and (Michael Bratnick of CoreCom, a contracted PR firm) on the line. We agreed on the importance of Karen's four points in her note below. The plan is to continue with the 802 News Bulletin, while pushing in some other areas. We noted that many of us hadn't seen the first bulletin, which is at:

      http://standards.ieee.org/802news/IEEE_SA2.html

5

On the News Bulletin front, we would like to be able to issue it right after each Plenary. The idea is that reporters who pick up corporate press releases after the Plenary should learn to confirm the accuracy in the Bulletin (and essentially be embarrassed if they publish something contradicting this readily-available source). Furthermore, the news itself can become outdated if we delay; for example, last time we talked about the expectation of Standard Board approvals, but the Standard Board actions were

10   over by the time the Bulletin went out.

We discussed the need to update the Bulletin during the four months that it is current, updating the facts and adding links to news from interim meetings. Michael was amenable.

15   To be timely, Micheal and Karen would like a preview of our major items 10-14 says in advance. We agreed that this would be especially important for any draft press releases. I also described the 802.16 process. For a few years, we have posted a report immediately after each session. We preview a draft of it at our Opening Plenary, and we finalize it (pending edits) at the Closing Plenary. As the PR "contact point", I like to ask the other Working Groups to consider a similar process. For a sample, see:

      http://ieee802.org/16/meetings/mtg17/report.html

20   While Michael could pick up his main material right from here, he wouldn't generally get finished material, because the News Bulletin is for a broader audience that may need less detail and more explanation.

The Bulletin was distributed to a list that Michael assembled (800 people, I think). We can send them additional names. There was a lot of talk about assembling an "A list" subset of these names who better understand the issue. They might get more detailed

25   information. There was also an extended discussion about holding regular conference calls with them.

We discussed the fact that the session results make sense only if you understand the background. We talked about the need for a page on the 802 web site aimed at the general public. It could include:

-an explanation of 802 overall

30   -a summary of what the various standards address and how they relate to each other

-a summary of the process, with a flow diagram and an emphasis on defining terms (so that, for example, people can have a reference to understand a News Bulletin item such as "Draft X was approved for Working Group Letter Ballot")

-project descriptions ("backgrounders"), timelines, and news. It was agreed that a good system would include links to pages that would be maintained directly by Working Group, though format consistency would be encouraged. A good backgrounder should

35   address the technology and its potential economic impact.

We discussed the need to develop a way to address alliances. People mainly voiced the view that it is OK for IEEE to refer to acknowledge action by alliances that support IEEE standards. In general, we would like to see 802 announcing the news and alliances announcing support for 802 actions.

40

Michael offered to find out the name of the font used in the graphics of the 802 News Bulletin so he could use it for a compatible look.

| | 4.16 | MI | Renew 802.15.3 Alt PHY Study Group | - | Heile | 10 | 03:15 P |

45   **Moved: To renew the 802.15.3Alternate PHY Study Group.**
Moved: Bob Heile/Stuart Kerry
9/0/0

| | 4.17 | MI | Establishment of RR TAG | - | Hayes | 10 | 03:25 P |

50   **Moved:**

SEC Closing meeting March 2002

Agenda item 4.22
Rules change for TAG

IEEE 802.0 RESOLUTION

Agenda: **4.22**
Date: **March 15, 2002**
Time: **-**

Motion By: <u>Heile</u>   Seconded By: <u>Kerry</u>

Moved: To use the proposed rules change in doc.: RR-02/38 as a basis for a rules change letter ballot on TAG operation in the context of the Radio Regulatory TAG, to be issued at the July 2002 plenary

Approve :   9   Do Not Approve :   0   Abstain: 1   Motion   pass

SEC Closing meeting March 2002

Agenda item 4.23

Rules change for PAR

IEEE 802 RREG RESOLUTION

Agenda: -
Date: **March 13, 2002**
Time: -

Motion By: Stevenson   Seconded By: Kuwahara

Moved: To include the conditional PAR approval (2/40) clause into the pending rules change request that is before the SEC.

11 9-0-0

15 4-0-0

16 1-0-0

Unanimously

Approve :   -   Do Not Approve :   -   Abstain : -   Motion   -

IEEE 802 RREG RESOLUTION

Agenda: **4.23**
Date: **March 15, 2002**
Time: **-**

Motion By: <u>Hayes</u>   Seconded By: <u>NONE</u>

Moved: To accept the rules change for the PAR

        No Motion

        Mat Sherman accepted the task to pursue this rules change

Approve :   Do Not Approve :   -   Abstain : -   Motion

SEC Closing meeting March 2002

Agenda item 4.19

Establishment of RR TAG

Charter for the Radio Regulatory TAG Approved by 802.11

- To encourage collaborative participation in the radio regulatory process by members of the TAG including official representatives from the relevant Working Groups
- To prepare, review, and submit balanced position statements on radio regulatory matters for those Working Groups responsible for producing standards for radio devices and to fairly reflect all points of view
- To serve as the only authorized communications channel between the 802 domain and other standards and industry bodies on radio regulatory matters
  - To liaise and seek cooperative relationships on radio regulatory matters of mutual interest with other standards and industry bodies
- To serve as the only authorized communications channel between the 802 domain and regulatory agencies and spectrum management bodies
  - To establish and maintain contacts within, and understand the processes for interaction with, radio regulatory and spectrum management bodies
- To liaise with such co-existence groups as may exist in the 802 domain on radio regulatory matters

Modified charter for the Radio Regulatory TAG

- To encourage collaborative participation in the radio regulatory process by members of the TAG including official representatives from the relevant Working Groups

- To prepare, review, and submit balanced position statements on radio regulatory matters for those Working Groups responsible for producing standards for radio devices and to fairly reflect all points of view

- To serve as the official communications channel between the 802 WGs and TAGs and other standards and industry bodies on radio regulatory matters
  - To liaise and seek cooperative relationships on radio regulatory matters of mutual interest with other standards and industry bodies

- To serve as the official communications channel between the 802 WGs and TAGs and regulatory agencies and spectrum management bodies
  - To establish and maintain contacts within, and understand the processes for interaction with, radio regulatory and spectrum management bodies

- To liaise with such co-existence groups as may exist in the 802 domain on radio regulatory matters

IEEE 802.11 RESOLUTION

Agenda: **4.1**
Date: **March 13, 2002**
Time: **noon**

Motion By: Hayes   Seconded By: O'Hara

Moved:

1. To request IEEE 802 SEC to establish a Radio Regulatory TAG with the charter as depicted on slide 2

2. To appoint the following 2 individuals as official Working Group Representative, having voting rights in the RR TAG
Kuwahara
The Chair or his designate

3. To grant attendance credit to WG members attending the RR TAG

Approve: 118   Do Not Approve: 2   Abstain: 13   Motion   pass

IEEE 802 RREG RESOLUTION

Agenda: -
Date: **March 13, 2002**
Time: -

Motion By: <u>Kuwahara</u>   Seconded By: <u>Murray</u>

Moved: To affirm the proposed charter of the Radio Regulatory TAG as
            agreed in revision 1 of doc.: RR-02/40

11 10-0-0

15 4-0-0

16 1-0-0

Unanimously

Approve: -   Do Not Approve: -   Abstain: -   Motion   -

IEEE 802.11 RESOLUTION

Agenda:

Date: **March 15, 2002**

Time:

Motion By: Hayes   Seconded By: O'Hara

Moved: To authorize the Chair of 802.11 to support changes in the Charter of the Radio Regulatory TAG

Approve: 62   Do Not Approve: 0   Abstain: 14   Motion   pass

IEEE 802.15 RESOLUTION

Agenda: -
Date: **March 15, 2002**
Time: -

Motion By: <u>Stevenson</u>   Seconded By: <u>Gilb</u>

Moved: 1. To request IEEE 802 SEC to establish a Radio Regulatory TAG

2. Request the Chair of 802.15 to appoint 2 individuals as official Working Group Representative, having voting rights in the RR TAG
- (Chair declined to appoint at this time, pending discussion with potential WG Representatives)
-

3. To grant attendance credit to WG members attending the RR TAG

Approve: -24   Do Not Approve: -1   Abstain: -5   Motion   Pass

IEEE 802.16 RESOLUTION

Agenda: -
Date: **March 15, 2002**
Time: -

Motion By: <u>Lycklama</u>   Seconded By: <u>Kiernan</u>

Moved: 1. To request IEEE 802 SEC to establish a Radio Regulatory TAG

2. To grant attendance credit to WG members attending the RR TAG

Approve: unanimous consent

IEEE 802.0 RESOLUTION

Agenda: **4.19**
Date: **March 15, 2002**
Time: **-**

Motion By: Hayes   Seconded By: Kerry

Moved: To establish a new Technical Advisory Group for Radio
Regulatory matters and direct the interim Chair to work with the
Chairs of 802.11, 802.15 and 802.16, by e-mail correspondance to
develop an SEC approved charter for the TAG

Approve: 9   Do Not Approve: 0   Abstain: 1   Motion   pass

Moved: Vic Hayes/Stuart Kerry
Concern was expressed that the wireless working groups should have continuing membership in the TAG. There needs to be a minimum threshold of voting members from the working groups.

5 **9/0/0 Approved**

| | 4.18 | II | Appoint RR TAG chair | - | Nikolich | 2 | 03:35 P |

Paul appoints Carl Stevenson to be the interim chair of the Radio Regulatory TAG.
Moved: to affirm Carl Stevenson's appointment as interim chair of the Radio Regulatory TAG.
10 **Moved: Roger Marks/Stuart Kerry**
Carl's appointment was affirmed unanimously.

| | 4.19 | | Break | - | | 20 | 03:37 P |

15

| | 4.20 | MI | Rules change for TAG | - | Hayes | 10 | 03:57 P |

Moved: To accept the proposed LMSC Rules change in document RR-02/038r0 as a resolution to the Standing Committee SEC letter ballot.
Moved: Vic Hayes/

20
Discussion: There must be a mechanism to describe the demise of a TAG. Concern was expressed with the 5-day notice of a meeting. There is an expectation that the email distribution list is open to all the members of the working groups.

The motion dies for lack of a second.

25
Moved: to use the proposed rules change in document RR-02/038r0 as a basis for a rules change letter ballot on TAG operation in the context of the Radio Regulatory TAG, to be issued at the July 2002 Plenary.
Moved: Bob Heile/Stuart Kerry
9/0/1 Approved.

30

| | 4.21 | MI | Rules change for PAR | - | Hayes | 10 | 04:07 P |

There was a lot of discussion of concern that the SEC becomes set up to perform technical review of PARs and work from the working groups.

35 **Moved: To accept the text as comment resolution to the rules change letter ballot on changes to the rules for PARs.**
Moved: Vic Hayes/

Motion dies for lack of a second.

40 Mat Sherman volunteers to pick up this issue and carry it forward.

| | 4.22 | MI | Establish 802.0 Coexistence Study Group | - | Lansford | 5 | 04:17 P |

Stuart Kerry sponsors the Coexistence Study Group.

IEEE 802 Wireless Coexistence

Jim Lansford

Jim.Lansford@mobilian.com

(405) 377-6170

Tim Blaney

Tim@commcepts.net

(530) 478-5606

History

- ## SG approved March 2001
  - ### Presentations at Plenary and Interims
  - ### Proposed organization developed at Portland plenary
    - #### Rules change for SC was recommended
    - #### September meeting was cancelled
  - ### Study group extension motion missed in Austin
- ## Meeting as BoF at Dallas interim and St. Louis plenary
  - ### LMSC rule change not desired – TAG preferred
- ## Attendance has consistently shown strong interest (40+ attendees at each BoF)

Where do we go from here?

- Feedback
  - Need a definition of "coexistence"
  - Need a Recommended Practice
    - Could also be a Guideline
    - Defines the way coexistence can be achieved

How do we get there?

- Renew study group? Or create a TAG now?
  - Develop coexistence definition
    - First cut done this week in BoF
  - Write a PAR for the TAG
    - Develops the Recommended Practice
    - Balloting within the TAG
    - Approval by SEC and WGs
    - Approval by IEEE SA

Morning motions

- 802.11: Supported motion to continue Study group: 77/1/11

- 802.15: Supported motion to continue Study Group: 23/2/2

Motion

- Motion to continue the Coexistence Study Group until the July 2002 Plenary.

- Charter: SG shall develop a PAR for Coexistence TAG in 802 SEC.
  - Moved:
  - Seconded:
  - Vote:

Backup

What is a TAG?

• Rules:

5.2 LMSC Technical Advisory Groups (TAG)

The function of a Technical Advisory Group is to provide assistance to Working Groups. The TAGs operate under the same rules as the Working Groups, with the following exceptions:

a) A TAG may not write standards, but may write recommended practices and guidelines.
b) A TAG is established by the Executive Committee at the request of one or more Working Groups to provide assistance within a technical topic area.
c) The primary responsibility of a TAG is to provide assistance within its topical area as specifically requested by one or more of the Working Groups.
d) The decision to submit a draft recommended practice or draft guideline to Sponsor Ballot Group voting shall be governed by the same rules as those governing the submission of a draft standard (see 5.1.4.2.2 Voting by Letter Ballots).
e) Any report generated by a TAG that is forwarded to any Working Group in the name of the TAG, needs to get a 75% approval vote of the TAG members present who vote "Approve" and "Do Not Approve".
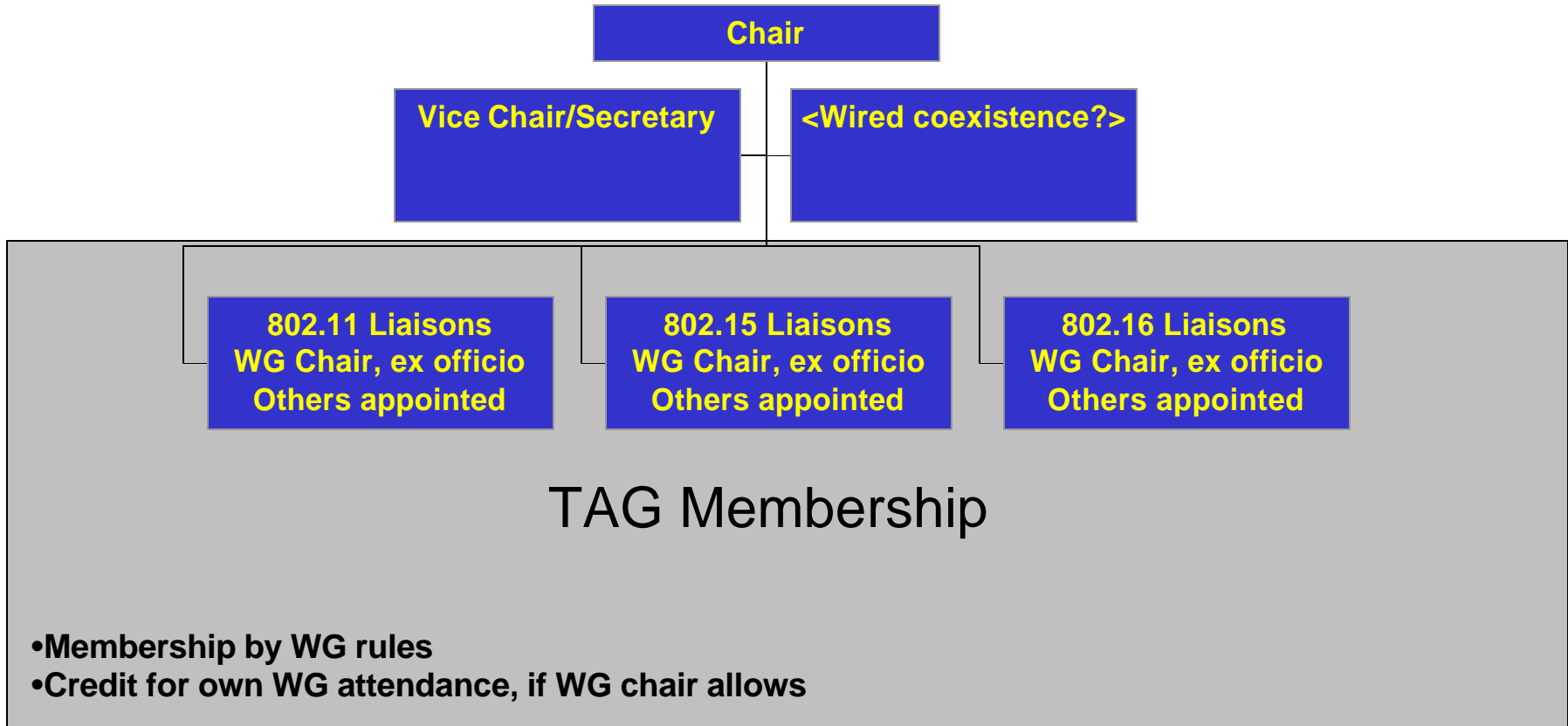
Functional Charter Discussion

- First order of business: Define Coexistence
- Develop Recommended Practice for establishing whether a draft has adequately addressed coexistence
  - For example, a WG should develop a set of usage models and demonstrate through analysis or simulation the impact of the proposed standard on other approved IEEE wireless standards

802 COEX Proposed Procedures

- Membership & Voting
  - Attendance at the 802 COEX TAG meetings is open to registered attendees
  - WG chairs are members *ex officio*
  - WG chairs designate official liaisons (3)
  - Attendees: attendance at first meeting grants membership
  - TAG follows WG rules after that
  - Attendance at 802 COEX TAG meetings will count towards attendance at the individual's primary WG
    - WG chairs would have to agree to this
- Ratification of Recommended Practice
  - A Recommended Practice requires a 75% approval vote by the members of the 802 COEX TAG as outlined above
  - The guideline is then presented to SEC and the appropriate wireless WG(s) for ratification
    - Minority opinion summary would be included
  - IEEE SA approval also required

 Jim Lansford, Mobilian, Tim Blaney, Commcepts

Possible 802 COEX TAG Structure

IEEE 802 Coexistence
Technical Advisory Group (CTAG)

Chair

Vice Chair/Secretary

<Wired coexistence?>

**802.11 Liaisons
WG Chair, ex officio
Others appointed**

**802.15 Liaisons
WG Chair, ex officio
Others appointed**

**802.16 Liaisons
WG Chair, ex officio
Others appointed**

TAG Membership

• **Membership by WG rules**
• **Credit for own WG attendance, if WG chair allows**

Definition of Coexistence
(From doc COEX-02007r0)

- **Coexistence:** The ability of one system to perform a task in a given shared environment where other systems have an ability to perform their tasks and may or may not be using the same set of rules.

  – Needs qualifiers (usage models, etc.)

Moved: To establish an SEC Coexistence Study Group. Charter: The Study Group shall develop a PAR for a recommended practice on coexistence.
Moved: Roger Marks/Buzz Rigsbee
5 **2/5/3 Fails**

Moved: To establish an SEC Coexistence Study Group. The Study Group shall develop a recommendation to the SEC for developing coexistence practice and process within 802.
Moved: Geoff Thompson/Tony Jeffree
10 **9/0/0 Approved.**

Stuart Kerry and Bob Heile will co-sponsor and mentor Jim Lansford and the study group.

| | 4.23 | MI | Customary expenses | - | Grow | 5 | 04:22 F |

15 **Moved: Authorize the treasurer to treat the following expenses as customary expenses to be paid without approval of the SEC:**
- **Insurance**
- **Account fees**
- **Equipment repair**
- **Equipment storage fees**
20 - **Overflow hotel arrangements**
- **Social**
- **Annual audit**
- **Annual 802 standards CD-ROM**
- **ieee802.org domain renewal**
25 **Moved: Bob Grow/Geoff Thompson**
8/0/0 Approved
The chair notes that Roger Marks and Mike Takefman have left the meeting.

| | 4.24 | MI | Bank signatory changes | - | Grow | 5 | 04:27 F |

30 **Moved: Authorize the Robert M. Grow be removed as a signatory of and William L. Quackenbush be added as a signatory for the 802 bank, merchant and other accounts. Further, authorize Mr. Grow to act as treasurer when required to execute a smooth transition prior to the July 2002 plenary meeting.**
Moved: Bob Grow/Vic Hayes
9/0/0 Approved
35

| | 4.25 | MI | Authorization to transfer bank account | - | Grow | 5 | 04:32 F |

Moved: Authorize the officers of LMSC to execute any documents necessary to transfer the bank account to another financial institution, if determined to be in the intereset of IEEE 802 LMSC.
Moved: Bob Grow/Buzz Rigsbee
40 **8/0/0 Approved**

| | 4.26 | MI | Meeting services contract extension | - | Grow | 5 | 04:37 F |

Moved: Authorize the officers of LMSC to extend the current contract with Face to Face Events for the 802 meeting services through the July 802 plenary meeting in Vancouver, BC.
45 **Moved: Bob Grow/Stuart Kerry**
8/0/0 Approved

| | 4.27 | II | List of rules issues | - | Sherman | 10 | 04:42 F |

Mat described a number of rules issues that need attention, either to be changed or to be followed.
50

1. Quorum at interim meetings (Stuart Kerry)
2. Working group email balloting (Paul Nikolich)

3. Procedure 1 (Bill Quackenbush)
4. Rules change procedure - notice mechanism (Mat Sherman)
5. WG recirculation ballot procedure – Geoff Thompson

5   Action: prepare recommendation for rules change letter ballot actions in July 2002.

4.28	**II**	**ITU Liaison Letter**	**-**	**Takefman**	**5**	**04:52 P**

Sent by email to SEC reflector

10

4.29	**II**	**802.15.2 Letter Ballot**	**-**	**Heile**	**2**	**04:57 P**

802.15.2 was voted to send to WG letter ballot. This is a draft that will be balloted independently in both 802.11 and 802.15.

4.30	**II**	**802.3af to form sponsor ballot group**	**-**	**Thompson**	**2**	**04:59 P**

15   The WG hopes to go to sponsor ballot out of the July meeting. They intend to close the ballot group formation during the July meeting. 802.3 will submit a change of WG chair form for all of their open PARs.

4.31	**II**	**Meeting planner RFP update**	**-**	**Rigsbee**	**10**	**05:01 P**

Should be ready to go to RFP in time to review results at the July plenary.

20

On the database project.: there are nine items on the "still to do" list. The contractor is working to complete these items. The current database is at least adequate to support registration and records.

Geoff expressed the concern that we have been paying for this database contract for a long time without having ever seen the
25   contract or statement of work. Buzz will send this to the members of the SEC.

4.32	**II**	**Future Meetings**	**-**	**Rigsbee**	**5**	**05:11 P**

IEEE 802 Plenary Meeting Schedule

2002

July 7-12 - Hyatt Regency Vancouver, BC Canada

November 10-15 - Hyatt Regency Kauai, Koloa, HI

2003

March 9-14 - Hyatt Regency DFW, Dallas, TX (M)

July 20-25 - Hyatt Regency SF, San Francisco, CA (W)

November 9-14 - Hyatt Regency Albuquerque, NM (M)

2004

March 14-19 - Hyatt Orlando, Kissimmee, FL (E)

July 11-16 - Portland Hilton, Portland, OR (W)

November 14-19 - Hyatt Regency San Antonio, TX (M)

2005

March 13-18 - to be determined (E/M)

July 10-15 - Hyatt Regency SF, San Francisco, CA (W)

November 13-18 - to be determined (M/E)

4.33	II	Interim meetings		-	O'Hara	3	05:16 P
802.1		Edinburgh, UK, May 23-24					
802.3	10G	Vancouver, BC, April 8-10					
		Silicon Valley, April 29 (tentative)					
	EFM	Edinburgh, UK, May 20-22					
	DTE	Western US, May 13-15					
802.11		Sydney, Australia, May 13-17, Silicon Valley week of May 22 (802.11f)					
802.15		Sydney, Australia, May 13-17					
802.16		Calgary May 20-24					
802.17		Ottawa, Ontario, Canada, May 6-9					
802.18		Teleconferences, March 29, April 19, Sydney Australia, May 13-17					
SB		Piscataway, NJ, May 19-21					

Stuart Kerry announced that 802.11 and 802.15 used an electronic attendance system. He volunteered to demonstrate it to any that are interested.

Paul congratulates Vic Hayes, Bob Grow, and Geoff Thompson on their long service to 802 and on their moving to new positions.

Paul also welcomes Bill Quackenbush, Mat Sherman, and Carl Stevensen to the SEC.

4.34   Adjourn   05:35P

The meeting was adjourned at 5:35pm.

Respectfully Submitted,
Bob O'Hara
Recording Secretary