IEEE P802.11
Wireless LANs

Tentative Minutes of the IEEE P802.11

Wireless Personal Area Network Study Group
Plenary Meeting
Austin, TX USA

8-12, March1999

Monday, 8 March 1999

1.0   Opening Meeting called to order by Dick Braley, Chairman at 9:15am, Agenda of the 802.11 WPAN SG is in doc.:IEEE P802.11 11-99/49. Ian Gifford, WPAN SG Secretary is present and ready to take the notes.

    1.1   Objectives of this meeting

        1.1.1   Introduction & Backgrounder

        1.1.2   Review Letter Ballot 17 Comments – 99/64; resolve WPAN PAR -98/162r8 & Five Criteria -98/161r5

        1.1.3   WPAN Leadership Discussion

        1.1.4   Liaison Updates and Future Direction

    1.2   There were 12 people (names at the end of these minutes) in the room at the start of the session.

    1.3   Approval of the agenda

MOTION: to approve the Agenda as edited by the SG – 99/49, Moved by Dick Braley, Seconded by Tom Siep.

No discussion on the motion.
Motion on the floor to vote.
Motion passes: By unanimous consent

    1.4   Approval of the minutes of previous meetings

        1.4.1   The review and approve the minutes from the Orlando, FL USA Meeting -99/4r2

MOTION: to approve the Orlando, FL Minutes as edited during the Austin, TX session – 99/4r2, Moved by Dick Braley, Seconded by Tom Siep.

No discussion on the motion.

Motion on the floor to vote.
Motion passes: By unanimous consent

    1.5   **Reports**

        1.5.1   **Dick Braley, FedEx provided the SG a short summary of the IEEE 802 ExCom Report provided earlier [8:45-9:05a] in the day -99/50.**

        1.5.2   **Bob Heile, GTE provided a short summary of the WG Letter Ballot 17 comments .**

    1.6   **SG adjourned at 12:00pm for lunch.**

    1.7   **A SG Sub Group resumed at 2:30pm**

        1.7.1   **The Sub Group finalized a draft of the Tuesday, March 9, 1999 WPAN Study Group Tutorial -99/55r1. Bob Heile, Ian Gifford, and Tom Siep were in attendance.**

    1.8   **Dick Braley, Chairman adjourned Monday, March 8, 1999 at 3:45pm**

2.0   **Tuesday, March 9, 1999 the meeting was called to order by Bob Heile, Acting Chairman at 8:30am**

    2.1   **Reports (continued)**

        2.1.1   **Ian Gifford provided a short overview of the WPAN Tutorial -99/55. Some edits were received and incorporated into the softcopy that was presented later the same day i.e., -99/55r1.**

        2.1.2   **Bob Heile lead a group review of the document "Comments received on 802.11b [sic] in Letter Ballot 17" -99/64:**

            2.1.2.1   **Comment: [Ling, Stanley] "We do not agree. Having a single common MAC does not guarantee Interoperability for example the FHSS, DSSS, and IR Physical Layers. The WPAN is not trying to distinguish itself from BT and HRF we are trying to come up with a standard that addresses the WPAN Functional Requirements and that has broad market place applicability."**

MOTION: The SG approved the comments above –99/64, Moved by Tom Siep, Seconded by Pat Kinney.

No discussion on the motion.
Motion on the floor to vote.
Motion passes: By unanimous consent

2.1.2.2   Comment: [Shoemake, Matthew B.] "We do not agree. The view put forward is not substantiated in the market (there are no Bluetooth and HomeRF devices available today (3/9/99)). The purpose of this Group is to provide a forum for standardization within the Personal Area Network space. The Bluetooth Special Interest Group and HomeRF Working Group are not standards development organizations.

MOTION: The SG approved the comments above –99/64, Moved by Pat Kinney, Seconded by Tom Siep.

No discussion on the motion.
Motion on the floor to vote.
Motion passes: By unanimous consent

2.1.2.3   Comment: [Tsoulogiannis, Tom]" In keeping with our comments of meeting critical WPAN requirements and seeking broad marketability we do not want to use the word "will" but rather the word "goal" in terms of interoperability. We note that the Task Group A Physical Layer does not mandate interoperability with the original IEEE 802.11 standard."

MOTION: The SG approved the comments above –99/64, Moved by Dick Braley, Seconded by Allen Heberling

No discussion on the motion.
Motion on the floor to vote.
Motion passes: By unanimous consent

2.1.2.4   Comment: [Tsoulogiannis, Tom] "There is no singular definition of co-existence. Interoperability can be used to assure co-existence, but that is not the only way. For reasons previously stated, we maintain that interoperability remains a goal but we cannot predict if interoperability will be feasible. It is inappropriate to commit to interoperability at this time without a definition of a Physical Layer for a WPAN."

MOTION: The SG approved the comments above –99/64, Moved by Pat Kinney, Seconded by Dick Braley

No discussion on the motion.
Motion on the floor to vote.
Motion passes: By unanimous consent

2.2 **The SG was adjourned for lunch at 12:00pm by Bob Heile.**

2.3 **The SG resumed in Open Session at 1:30pm**

2.3.1 **Ian Gifford provided a short overview of the WPAN Tutorial -99/55. Some minor edits were received and incorporated into the softcopy that was presented later the same day i.e., -99/55r1**

2.3.2 **A strawpoll was taken to determine what the attendees (mix of IEEE 802.11 SG and WG) thought of forming the WPAN SG into a Task Group or a Working Group. The group poll was a majority for "Working Group" formation.**

2.4 **The SG adjourned at 3:30pm by Bob Heile.**

2.5 **Starting a 6:30pm the IEEE 802 "WPAN" Conference Tutorials comenced:**

2.5.1 **Bluetooth Special Interest Group - Jim Kardach, Intel provided a Tutorial to the IEEE 802 Plenary -99/53.**

2.5.2 **HomeRF Working Group - Jim Lansford, Intel provided a Tutorial to the IEEE 802 Plenary -99/54.**

2.5.3 **WPAN Study Group - Ian Gifford, M/A-COM provided a Tutorial to the IEEE 802 Plenary -99/55r1.**

3.0 **Wednesday, March 10, 1999 the meeting was called to order by Bob Heile, Acting Chairman at 8:45am**

3.1 **Bob Heile reminded everyone there is a Social hosted by IEEE during the evening session.**

3.2 **Reports (continued)**

3.3 **Submissions**

3.3.1 **Bob Heile provided a draft Report for the Study Group to give to the Full Working Group later that day -99/56. The critical success issues were providing a summary of the LB17 consensus resolution to WG and the following Motions:**

3.3.1.1 **Motion 1 - "We move to approve the WPAN PAR "Rev 9" -98/162r9"**

3.3.1.2 **Motion 2 - "We move that the 802.11 WLAN Working Group recommends that The Executive Committee of 802 submit the WPAN PAR "Rev 9" - 98/162r9 to NesCOM for approval."**

3.3.1.3 **Motion 3 - "The 802.11 WLAN Group recommends that The Executive Committee of 802 establish a new Working Group for Wireless Personal Area Networks."**

MOTION: The SG approved the Report with some edits –99/56r1, Moved by Tom Siep, Seconded by Allen Heberling

No discussion on the motion.
Motion on the floor to vote.
Motion passes: By unanimous consent

3.4 **Bob Heile adjourned the SG at 1:20pm to reconvene in the Full Working Group**

3.5 **Refer to the Working Group documents for the minutes, motions, edits to motions, votes, etc..**

3.6 **Bob Heile reconvened the SG at 4:00pm**

    3.6.1 **The assembled group discussed the impact of the Motions, Edits to the Motions, Task vs. Working Group, etc.**

    3.6.2 **We decided to make two (2) Reports for Thursday, March 11, 1999. One to ExCom on behalf of the Working Group -99/57 and the other to ExCom on behalf of the Study Group -99/58.**

MOTION: to approve the two (2) Reports -99/57 and -99/58 Moved by Tom Siep, Seconded by Pat Kinney.

No discussion on the motion.
Motion on the floor to vote.
Motion passes: By unanimous consent

    3.7 **Bob Heile, Acting Chair adjourned the SG meeting on Wednesday, March 10, 1999 5:30pm.**

4.0 **Thursday, March 11, 1999 the meeting was called to order by Bob Heile, Acting Chairman at 8:30am**

    4.1 **The Study Group met informally and discussed their plans for day culminating in the evening ExCom session.**

    4.2 **Bob Heile, Acting Chair adjourned the SG meeting on Thursday, March 11, 1999 12:00pm.**

5.0 **Friday, March 12, 1999 Plenary Summary Reports**

    5.1 **802.11 Working Group (Study Group Sponsor) Wireless Personal Area Networks Report: "The WG, recirculation letter ballot on the Project Authorization Request (PAR) and 5 Criteria, as proposed by the Study Group on Wireless Personal Area Networks (WPAN) resulted in a 90 percent overall approval. At the present meeting, the debate whether the WPAN subject would be handled within 802.11 or a new working group resulted in the LMSC Executive Committee decision to form a new working group. The Standards Board will make their decision at their March 1999 meeting."**

    5.1.1 **"So we now have a new working group designated IEEE 802.15!"**

    5.1.2 **"The new working group plans to hold its meetings collocated with IEEE 802.11 and has planned an WPAN management meeting (May 5-6, 1999) at the 802.11 Interim meeting in Japan."**

    5.2 **802.15 Wireless Personal Area Networks Report:**

    5.2.1 **WPAN Leadership**

- Acting Chairman: Bob Heile <bheile@bbn.com>
- Vice Chairman: Ian Gifford <giffordi@amp.com>
- Tech Editor: Tom Siep <siep@ti.com>
- Secretary: Pat Kinney <kinneypw@norand.com>
- Ass. Sec/TE: Mike McInnis <michael.d.mcinnis@boeing.com>

5.2.2 Tentative Meeting Schedule

- Leadership Meeting: with 802.11 Working Group: Interim Meeting in Makuhari, Chiba, Japan
- Interim Meeting: London June 10th, 1999
- Plenary Meeting: Montreal, Canada

5.2.3 WPAN Archives

- ftp://ftp.flexipc.com/wearablesgroup/Index.htm
- ftp://ftp.flexipc.com/wearablesgroup/
- WPAN Mailing List
    - stds-802-wpan@majordomo.ieee.org

6.0 Miscellaneous

6.1 NesCOM approved the formation of a new wireless Working Group "P802.15 Wireless Personal Area Networks (WPAN)" on Thursday, March 18, 1999.

7.0 Next Steps

WHAT	WHO	WHEN
Send a thank you letter to HomeRF™ Chairman	I. Gifford/J. Carlo	3/99
Send a thank you letter to Bluetooth SIG Chairman	I. Gifford/J. Carlo	3/99
Send Austin Plenary submissions and output documents to 802.11 WG	I. Gifford	Done, 3/19/99
Post Austin Plenary submissions and output documents to the ftp site	I. Gifford	Done, 3/24/99
Send a Press Release to ExCom and then Computer Society	B. Heile	Done, 3/23/99
Initiate Liaison with Bluetooth and HomeRF; overview P802.15	B. Heile/I. Gifford	Done, 3/22/99

8.0 Tentative Future Meetings

1999
*May 3-7 - Makuhari Prince Hotel Chiba, Japan, Interim
July 5-9 - Queen Elizabeth, Montreal, PQ, Plenary
Sept TBD – TBD Santa Rosa, CA (Alantro) Interim
November 8-12 - Hyatt Regency Kauai, Koloa, HI Plenary

*Note: The deadline for the Hotel is March 29, 1999; see -99/80 for required registration form.

2000
March 6-10 – Hyatt Regency, Albuquerque, NM, Plenary
July 10-14 – Hyatt Regency LaJolla, San Diego, CA, Plenary
November 6-10 – Hyatt Regency, Tampa, FL, Plenary

2001
March 12-16 - ??, Plenary
July 9-13 – Portland Marriott, Portland, OR, Plenary
November 12-16 - ??, Plenary

Note: The reason we are looking all the way out to 2001 is due to the following IEEE 802 ExCom provided timeline:

TASKS	DUR	ORIGINAL	CURRENT
Submit WPAN PAR	-	Jun-98	Feb-99
First Unapproved WPAN Draft Specification	9 mo	Mar-99	Nov-99
Draft Specification approved by 802.11 WG	6 mo	Sep-99	May-00
Draft Specification approved by IEEE SAB	6 mo	Mar-00	Nov-00

Attendance list (not official see P802.11 WG list)

Full name	att. %	memstatus	company	phone	e_mail
Mr. Matt Alspaugh	?	?	SpectraLink	+1 303 440 5330	matta@spectralink.com
Dr. Richard C. Braley	100	voter	Federal Express Corporation	+1 901 375 6535	rcbraley@fedex.com
Mr. Ian Gifford	100	voter	AMP-M/A-COM Div.	+1 978 442 4650	giffordi@amp.com
Mr. Allen Heberling	100	voter	Eastman Kodak	+1 716 588 1939	heberlin@kodak.com
Mr. Robert Heile	100	voter	GTE Internetworking	+1 617 873 4835	bheile@bbn.com
Mr. Pat Kinney	100	voter	Intermec Technology	+1 319 369 3593	kinneypw@norand.com
Mr. Michael McInnis	100	voter	Boeing	+1 425 865 2840	michael.d.mcinnis@boeing.com
Mr. Al Petrick	100	voter	Harris	+1 407 729 4944	apetrick@harris.com
Mr. Peter Murray	100	voter	NWN	+1 908 232 9054	pmurray@pipeline.com
Mr. Ivan Reede	?	aspirant	AmeriSys, Inc.	+1 514 620 8522	i_reede@amerisys.com
Dr. Steve Shellhammer	100	voter	Symbol	+1 516 738 4302	shell@symbol.com
Mr. Tom Siep	100	voter	TI	+1 972 480 6786	siep@ti.com
Ms. Zoe Teegarden	?	?	MIT Media Lab	+1 617 253 9329	zct@media.mit.edu
Mr. Hirohisa Wakai	?	?	Sharp Corp.	+1 650 638 7273	wakai@sharp.co.jp
Mr. Jim Zyren	100	voter	HARRIS Corporation	+1 407 729 4177	jzyren@harris.com