

Tentative Minutes of the WPAN SG Meeting

Wireless Personal Area Network Study Group Interim Meeting

Hyatt Regency

LaJolla, CA USA

6-10 July 1998

1.0 The meeting was called to order on Tuesday, July 7th, 1998 at 8:30am by our Chairman Dick Braley

1.1 Roll Call: People in the room were invited to introduce themselves.

1.2 Secretary: The Chair recognized Ian Gifford as the Secretary for the Study Group Meeting.

1.3 Agenda Approval: Dick Braley presented the following agenda for approval:

Tuesday, July 7th, 1998

1 Opening of session (see below) 8:30 am

1.0 Secretary

1.1 Roll call

1.2 Voting rights

1.3 Attendance list, Registration

1.4 Logistics (breaks, lunch, copying, document distribution)

1.5 Other announcements

2 Approval of the minutes of previous meeting

2.1 Irving Meeting

2.2 Matters arising from the minutes

3 Reports

3.1 Review of study group meeting activities since last March

3.2 Review PAR/5 Criteria Submission

3.3 Review ExCom Meeting Monday, July 6

3.4 Liaison Activities

4 Review Objectives of the LaJolla Meeting

5 Review of contributions

6 Adoption of the agenda 11-98/xxx

7 Unfinished Business

8 New Business

9 Discuss/Revise PAR and 5 Criteria based on ExCom and 802.11 comments

10 Review of WPAN MAC/PHY Proposals and Liaison Updates

10.1 HomeRF Working Group

10.2 Bluetooth Special Interest Group

10.3 Motorola

10.4 Other

11 Review of HomeRF and Bluetooth

12 Discussion of MAC/PHY Proposals including HomeRF and Bluetooth

13 Discuss Impact of External Activities on the Direction of the WPAN Study Group

14 Adjourn 5:00pm

Wednesday, July 8th, 1998

15 Call to Order 8:30am

16 Complete Discussion WPAN Study Group Direction

17 Develop a Recommendation for Continuing Standards Activity on WPANs

18 Review Next Steps

19 Draft a Motion for aft. 802.11 Plenary Meeting

- 20 Develop Action Plan
- 21 Review Future Meetings/Location
- 22 Other Business
- 23 Adjourn (meet again on Thursday & Friday if required)

Note: See -98/255 or 82555S-Tentative-Agenda-LaJolla-Jul98.PPT

Motion: The LaJolla Agenda -98/255 was approved by unanimous consent

2.0 **Ian Gifford overviewed the minutes of the Meeting that was held in Irving, TX from May 19th – 21st, 1998.** The open action items were identified below:

WHAT	WHO	WHEN
Provide a Glossary & Acronym List for WPAN	I. Gifford	5/8/98
Setup IEEE Majordomo reflector: Error! Bookmark not defined.	I. Gifford	5/11/98
-98/229 WPAN SG Spectrum Availability Matrix	P. Kinney	6/98
Ask Vic Hayes for input on the MAC as a subset or stripped down version. Is it still 802.11 MAC?	I. Gifford	5/21/98
Ask Vic Hayes for status on the Liaison Letter?	I. Gifford	5/21/98
Ask Vic Hayes for guidance on PAR 5C Full vs. Trial usage?	I. Gifford	5/21/98
Ask Vic Hayes for explanation/guidance on PAR 12b.	I. Gifford	5/21/98
Clean up Draft PAR & 5 Criteria and e-mail out to SG/Irving.	R. Ditch	5/98
Electronically distribute the in/out contributions at Irving	I. Gifford	5/21/98
Add to the LaJolla agenda that we discuss the issue on Technical Eval Criteria will be for the WPAN MAC & PHY.	I. Gifford	5/98
Provide a compare & contrast matrix on the plethora of Protocols that can address WPANs. Bruce Kraemer.	B. Kraemer	7/5/98
SG Subcommittee will create a FAQ and Answers for submission to the July Plenary.	Larry Ochs, Pat Kinney, Rick LaRowe	7/5/98
Incorporate Bruce Kraemer’s foils presented on May 21, 1998 into an official IEEE submission	I. Gifford	5/27/98
LEGEND: RED = Open, not yet done BLACK = Complete		

Motion: The Irving Minutes -98/236r1 were approved by unanimous consent

3.0 **Ian Gifford updated the SG on the submission of the WPAN PAR -98/162r6 and Five Criteria - 98/161r3 which were submitted to our Sponsor, Vic Hayes, on June 3, 1998.** Since then we have received a few edits from ExCom and Rich Ditch has captured them for future revisions.

4.0 **Dick Braley overviewed the Wireless Personal Network Study Group Report -98/248r1 that was provided to the ExCom and the 802.11 Working Group.**

- 5.0 Ian Gifford updated the Liaison status from the group to a variety of Industry Forums and Alliances:
- Infrared Data Association (IrDA) – **No response**
 - Home Radio Frequency Working Group (HRFWG) – **Received 2nd Presentation Liaison -98/251r1 “Update” via Tim Blaney, Commcepts**
 - ETSI Broadband Radio Access Networks (BRAN) Project – **No response**
 - ATM Forum Wireless ATM (WATM) Working Group – **Received e-mail response from Lou Delaverson Chair of the WATM WG**
 - Wireless LAN Alliance (WLANA) – **Verbal response during Tuesday, July 7**

- Internet Engineering Task Force (IETF) – **No response**
- Bluetooth Special Interest Group – **Received 1st Presentation Liaison –98/253 “Adopters Pitch” via Simon Ellis, Intel**

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- 5.0** Ian Gifford overviewed the SG Motion that was made on Monday July 6, 1998 to the 802.11 Plenary – The Motion did not pass. The primary issues revolved around the lack of sufficient detail on the WPAN Architecture, Functional Requirements, MAC/PHY as it relates to the existing 802.11 MAC/PHY
- 6.0** Dick Braley overviewed the Technical Guidelines -98/160r1, Bruce Kraemer overviewed the 802.11 Is 802.11 Applicable? -98/241, and Ian Gifford overviewed the Five Criteria -98/161r3
- 7.0** Bob O'Hara, Simon Black, Dave Bagby, etc. joined the group to offer assistance in understanding the 802.11 MAC as it relates to the WPAN Draft Functional Requirements – this discussion went for 1.5 hours and was not documented by the Secretary
- 8.0** Lunch Break
- 9.0** The Tuesday Afternoon meeting consisted of three Liaisons to the Study Group from Motorola SPS “PIANO” -98/252, HomeRF Working Group “SWAP” -98/251, and Bluetooth Special Interest Group -98/253. These presentations took up most of the afternoon and were well received by the SG, 802.11, and 802 too.
- 10.0** The Tuesday Meeting adjourned at 4:30p
- 11.0** Dick Braley brought the SG Meeting back to order on Wednesday 8th, 1998 at 8:30a
- 12.0** The 802.11 MAC discussion recommenced and lasted for a good part of the morning and was well attended by 802.11 WG MAC experts.
- 13.0** The balance of the meeting was consumed with the preparation for the afternoon Plenary Report, Study Group extension discussions, Meeting Logistics plans, and new Study Group objectives.
- 14.0** The Wednesday Meeting adjourned at 11:30a
- 15.0** Ian Gifford brought the SG Meeting back to order on Thursday 9th, 1998 at 8:45a
- 16.0** The group resumed discussions on the afternoon Plenary Report, Study Group extension discussions, Meeting Logistics plans, and new Study Group objectives.
- 17.0** The Thursday Meeting recessed at 9:50a for the votes for TGb.
- 18.0** The SG returned after the voting to resume our discussions on the afternoon Plenary Report, Study Group extension discussions, Meeting Logistics plans, and new Study Group objectives.
- 19.0** The Thursday Meeting adjourned at 11:30a
- 20.0** Ian Gifford gave a Report to the 802.11 and made a motion to the Plenary: “Move to extend the timeframe of the Wireless PAN Study Group under 802.11 with the charter of drafting a WPAN PAR for presentation at the next Plenary of 802.” No leadership change

Motion: Gifford/O'Hara 42-5-7 Passed

21.0 Ian Gifford gave a Report and made a motion to the ExCom: "Move to extend the timeframe of the Wireless PAN Study Group under 802.11 with the charter of drafting a WPAN PAR for presentation at the next Plenary of 802." No leadership change

Motion: Hayes/? 13-0-0 Passed

22.0 Next Steps

WHAT	WHO	WHEN
Provide a Glossary & Acronym List for WPAN	I. Gifford	8/98
-98/229 WPAN SG Spectrum Availability Matrix	P. Kinney	8/98
Add that we discuss the issue on Technical Eval Criteria which will be used for the WPAN MAC & PHY.	I. Gifford	8/98
Create a submission to request a Call for WPAN Application & Usage Scenarios submissions to identify the relevant MAC/PHY parameters for implementation of WPANs, distribute and moderator via reflector. Submissions due on or before 7 days before August Interim Meeting.	S. Shellhammer	7/17/98
Identify Venue and Agenda for the August Interim Meeting for the SG; advise status to Vic Hayes, Reflector, etc.	I. Gifford	7/17/98
Identify next steps for the Liaisons e.g., Questions for HomeRF WG, Bluetooth, etc. ; advise status to Reflector, etc.	I. Gifford	7/17/98
Identify SG Member(s) to lead the following bulleted items and/or there is a potential and probable consultancy work that the SG and or individual members can solicit for assistance in determining answers to: <ul style="list-style-type: none"> • Create WPAN Comparison Matrix for use with the MAC/PHY candidates • Create WPAN Compare & Contrast of 802.11 Annex - PICS Proforma list and repeat, when available, for remaining candidates • Examine WPAN 2.4 GHz coexistence with 802.11 devices 	D. Braley, B. Heile, I. Gifford	8/98
Electronically distribute the in/out contributions at Irving	I. Gifford	7/17/98

The Ad Hoc Group wishes to thank the 802.11 WG for their time and assistance and help. We look forward to participating in the Working Group in La Jolla, CA.

Tentative meeting schedule

Date	Month	Year	Place	Type	Location	Host
?	Aug	1998	?	Interim SG	?	AMP
14-18	Sept	1998	Waltham, MA, tent	Interim WG	Westford Regency	Raytheon
?	Oct	1998	?	Interim SG	?	?
8-13	Nov	1998	Albuquerque, NM	Plenary	Hyatt Regency	
7-12	March	199	Austin, TX	Plenary	Hyatt Regency, Town Lake	
4-9	July	1999	Montreal, PQ	Plenary	Queen Elisabeth Hotel	
7-12	Nov	1999	Koloa, HI	Plenary	Hyatt Regency Kauai	

Informal Document List

DOC No.	TITLE
-98/58	Wearables Standards Ad-Hoc Committee Presentation to 802.11 Committee (Robert Heile, GTE/BBN, and Ian Gifford, AMP M/A-Com), January 22, 1998
-98/94	"Wearables" Standards, Presentation to IEEE 802, ExCom (Dick Braley, FedEx), March 9, 1998
-98/95	"Wearables" Standards, Presentation to IEEE 802, Standards Committee (Dick Braley, FedEx), March 9, 1998
-98/96	A brief survey of Wearable application (Steve Case, Via), March 9, 1998
-98/97	Wireless Solutions (Pat Kinney, Intermec), March 9, 1998
-98/98	PAN feasibility: The BodyLAN (TM) Experience (Rick LaRowe, GTE), March 9, 1998
-98/135	Summary Report of the IEEE 802.11 WPAN Ad-Hoc Group Meeting held at Irvine, CA, March 9th - 13th, 1998
-98/136	Tentative Minutes of the IEEE 802.11 WPAN Ad-Hoc Group Meeting held at Irvine, CA, March 9th - 13th, 1998
-98/137	Venue for WPAN Ad-Hoc Group Meeting, April 8th - 9th, 1998, Cambridge, MA.
-98/138	Comments from 802.11 (Darwin Engwer, Netwave)
-98/147r1	WPAN Press Release Draft (Ian Gifford, M/A-COM)
-98/159	Tentative Minutes of the WPAN Study Group Meeting, Cambridge, MA 4/8-9/98 (Ian Gifford, M/A-COM)
-98/160r1	WPAN Guidelines (Ian Gifford, M/A-COM)
-98/161	Wireless Personal Area Network (WPAN) Five Criteria and 2.4GHz Coexistence Analysis (Ian Gifford, M/A-COM)
-98/162	First Draft PAR for WPAN (Rich Ditch, Motorola)
-98/163	Venue Hosted by GTE Internetworking (Ian Gifford, M/A-COM)
-98/169	WPAN SG Draft Agenda 5/4-7/98 Utrecht, NL
-98/170	WPAN SG Draft Agenda 5/19-21/98 Irving, TX USA
-98/171	Draft Glossary & Acronym List
-98/199	WPAN SG Call for Proposals for MAC/PHY (Bob Heile, Fedex)
-98/216	WPAN SG Application Summary (Pat Kinney, Intermec)
-98/217	HomeRF Overview Presentation (Stuart J. Kerry, Butterfly Communications)
-98/222	Summary Report of the IEEE 802.11 WPAN Study Group Meeting held at Utrecht, The Netherlands, May 4th - 8th, 1998 (Ian Gifford, M/A-COM)
-98/228r2	Tentative Minutes of the IEEE 802.11 WPAN Study Group Meeting held at Utrecht, The Netherlands, May 4th - 8th, 1998 (Ian Gifford, M/A-COM)
-98/229	WPAN SG Spectrum Availability Matrix (Pat Kinney, Intermec)
-98/233	WPAN SG Draft Liaison Letter (Ian Gifford, M/A-COM)
-98/235	Summary Report of the IEEE 802.11 WPAN Study Group Meeting held at Irving, TX, May 19th - 21st, 1998 (Ian Gifford, M/A-COM)
-98/236	Tentative Minutes of the IEEE 802.11 WPAN Study Group Meeting held at Irving, TX, May 19th - 21 st , 1998 (Ian Gifford, M/A-COM)
-98/237	WPAN CFP - AMP Wireless Proposal (Bill Haymond, AMP)
-98/238	WPAN CFP - GTE Internetworking Proposal (Rick LaRowe, GTE)
-98/239	WPAN CFP - Intermec Technologies Proposal (Pat Kinney, Intermec)
-98/240	WPAN SG - Microwave Oven Overview (Bruce Kraemer, Harris)
-98/241	WPAN SG - Is 802.11 the Answer? Topics for Discussion (Bob Heile, GTE)
-98/244	WPAN SG - Preparing for PAR Review in LaJolla, CA (Bruce Kraemer, Harris)
-98/248	WPAN SG - Study Group Report (Dick Braley, FedEx)
-98/249	WPAN SG - 2.4GHz Protocols i.e. MAC/PHY Layer Matrix (Bruce Kraemer, Harris)
-98/250	WPAN SG - Frequently Asked Questions (Larry Ochs, Xetron)
-98/251	WPAN SG - HomeRF Liaison (Tim Blaney, Commcepts)
-98/252	WPAN SG - Motorola Liaison (Rich Ditch, Motorola)
-98/253	WPAN SG - Bluetooth Liaison (Simon Ellis, Intel)
-98/254	WPAN SG - LaJolla Tentative ExCom Meeting Report (Ian Gifford, M/A-COM)
-98/255r1	WPAN SG - Tentative Agenda LaJolla (B. Heile, GTE)
-98/256r1	WPAN SG - LaJolla Tentative Meeting Report (Ian Gifford, M/A-COM)
-98/257r2	WPAN SG - Tentative Minutes of the IEEE 802.11 WPAN Study Group Meeting held at LaJolla, CA, July 6 th - July 10th, 1998 (Ian Gifford, M/A-COM)

