
**IEEE P802.11
Wireless LANs**

Interim report on received IPR letters

Date: January 9, 1996

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Abstract

This document contains the responses received to date on my letter of September 26, 1995 to the participants in IEEE P802.11, requesting if the participants knew of any IP in the area of our draft standard. The text is provided in document 95/221.

The letter further asked for letters with a assurance of licensing and for forwarding the letter to the company's IP manager.

No response was received from:

3COM	Networks and Comm Consulting
AMD	Nortel
Air Access	NTT
AMI	Panasonic
Andrew	Philips Semiconductors
Breezecom	Proxim ²
Digital Equipment ¹	Pulse Engineering
Digital Ocean	Raytheon
ETSI Telecom	RDC Comm
Fujitsu	Rising Star REsearch
Harris	RN Comm
Hitachi	Seattle Silicon Corp
International Micro circuits	Solectek
Japan Radio Co	Symbionics
Lace	Symbol Technologies
LANNEX	Telia Research
LXE	Texas Instruments
MACOM	Universidade de Aveiro
National Tsing Hua Uni	WINDATA
NEC	WISE Comm.
Neesus	

¹ Digital Equipment did respond, but the response was relevant to 802.3 and 802.12, new letter requested

² Proxim did supply a letter, however, the chair did not accept the letter as it did not answer the questions asked. New letter requested

Responses indicating no IP

Up to January 9, I received the responses from the following telling me they did not know of any IP of their company on our current draft:

Nobuo Matsuo	Matsushita Electric Works
Yoe, Hyun	OSIA(sponsored by Ministry of Information & Communication, KOREA)
Hirohisa WAKAI	Sharp
Brad Herrin	Standard Microsystems Corp.
Huy Nguyen	Samsung Electronics

Incomplete responses received

Listed below is the information about the patent that is currently held by Toshiba America Information Systems, Inc. related with wireless LAN:

Patent number: 5,467,341
Date of Patent: 11/14/95
Inventors: Edward Matsukane and Ryan H. Tze

It is about "Apparatus and Method for Alerting Computer Users in a Wireless LAN of a Service Area Transition"

Letters received

On the following pages, you will find electronic versions of the letters we received.

AT&T

November 1, 1995

Mr. Victor Hayes
Chair IEEE P802. 11
AT&T WCND Utrecht
Zadelstede 1-10
3431 JZ Nieuwegein
The Netherlands

Dear Mr. Hayes:

This letter is written in response to your letter of September 27, 1995, which requested that AT&T confirm to the IEEE that we will provide worldwide licenses for our patents with respect to the proposed IEEE P802. 11 standard. In this regard:

To the extent that AT&T has patents or may in the future obtain patents in this technology area which are essential to your recommendations, AT&T would be willing to negotiate licenses with other parties on a world-wide, non-discriminatory basis with reasonable terms and conditions. Such negotiations will be held with the parties concerned and will be performed outside of IEEE.

This letter does not grant any right to the IEEE with respect to AT&T's copyrights or other intellectual property rights that relate to the proposed standard. Any party interested in the license described above may contact Herb Winfield in writing at the address on the letterhead, by phone on 908-903-6256 or by facsimile on 908-903-6323.

Sincerely,
Gene G. Partlow, Intellectual Property Vice President AT&T
Suite 2000
150 Allen Road
Liberty Corner, NJ 07938

IBM

October 10, 1995

Vic Hayes
Chairman, IEEE P802. 11
c/o AT&T WCND Utrecht
Zadelstede 1.10
3431 JZ Nieuwegein, the Netherlands

Dear Mr. Hayes:

This letter is written in response to your letter to Ralph Yeager of IBM dated September 26, 1995, concerning the proposed IEEE P802. 11 standard.

At the present time, IBM is not aware of any IBM patents that relate to the proposed standard. IBM has not undertaken any study of this matter, however.

In the event the proposed standard is adopted and the standard cannot be practiced without the use of one or more issued patents, including design patents for type fonts but excluding other design patents, which are now or hereafter owned or controlled by IBM, IBM agrees upon request to grant a non-exclusive license under such patent or patents on a nondiscriminatory basis and on reasonable terms and conditions including its then current royalty rates and provided a similar grant under licensee's patents is made available to IBM.

Requests for information concerning IBM patent licenses should be directed in writing to:

IBM Director of Licensing
IBM Corporation
500 Columbus Avenue
Thornwood, New York 10594
USA

Sincerely,,

Walter L. Willigan
Program Director, Licensing

Intermec

October 26, 1995

Mr. Vic Hayes
Chair, IEEE P802. 11
AT&T WCND Utrecht
Zadelstede 1-10
3431 JZ Nieuwegein, the Netherlands

Dear Vic,

This letter is written in response to your letter of September 26, 1995, which requested that Intermec confirm to the IEEE that we will provide licenses for any patents or patents pending which we may hold which are relevant to the proposed IEEE 802.11 standard. In that regard:

Intermec does not believe that they currently hold any patents, nor have any pending patent applications, which conflict with any technologies outlined in the proposed standard, as of October 26, 1995. In the event that patents issue to, or are acquired by, Intermec in the future which Intermec believes will read on devices operating under the proposed IEEE 802.11 Standard, Intermec will (upon written request from any third party) grant a nonexclusive, nontransferable sole and personal license under any such issued patent on a nondiscriminatory basis, on terms and conditions which Intermec deems reasonable.

This letter does not grant any right to the IEEE with respect to Intermec copyrights or other intellectual property rights that relate to the proposed standard. Any party interested in the license described above may write to Mr. L. David Rish, Intermec's Intellectual Property law counsel, Attn: Legal Department, MS 530, at the address on this letterhead.

In a related issue, Intermec would like to know what the IEEE's official position is with regard to the P802. 11 committee's efforts to work around patents. It is our understanding that the IEEE requires that the 802.11 committee make a good faith effort to exclude patented technologies if possible. Since there has been virtually no early disclosure of patent issues, how is the committee to make a good faith effort to not include such technologies? We appreciate your timely response to this question.

Sincerely,

Glen Sherwood
Engineering Manager

Intermec Corporation
6001 36th Avenue West
P.O. Box 4280
Everett, Washington 98302-9280

Motorola

November 2, 1995

Mr. Vic Hayes
Chairman
IEEE P802.11
AT&T WCND Utrecht
Zadelstede 1-10
3431 JZ Nieuwegein
The Netherlands

Dear Mr. Hayes:

I refer to your letter of 26 September 1995 addressed to our Mr. Mark Demange requesting a letter of assurance as to Motorola's willingness to license certain technology relating to the standard being developed by IEEE P802.11 Wireless LAN standard committee .

Motorola has already made a statement dated 1 March 1994 as to its willingness to license its essential patents, and I enclose a copy of that statement.³

We believe this statement fulfills your requirements and our obligations.

Sincerely,

Hugh C. Dunlop
European Patent Attorney
MOTOROLA, Inc.

Corporate Offices
1303 E. Algonquin Road
Schaumburg, IL 60195

³ Refer to doc.:94/36

Novell

October 20, 1995

Vic Hayes, Chair, IEEE P802.11
AT&T WCND Utrecht
Zadelstede 1-10
3431 JZ Nieuwegein, the Netherlands

Re: Patent Response Letter

Dear Mr. Hayes:

This letter is written in response to your letter to Jon Walter Rosdahl of September 26, 1995, which requested that Novell, Inc., confirm to the IEEE that should we have patents or pending patent applications that may be infringed by users of the IEEE P802.11 standard, we will provide licenses under them. In that regard:

In the event the proposed standard is adopted and the standard cannot be practiced without the use of Novell's patents, Novell agrees upon written request to not refuse to grant a nonexclusive license under such patent and on reasonable terms and conditions including its then-current royalty rates.

This letter does not grant any right to the IEEE with respect to Novell's copyrights or other intellectual property rights that relate to the proposed standard. Any party interested in the license described above may write to:

Ernamarie Messenger
Chief Patent Counsel
Novell, Inc.
Mail Stop A-232
1555 N. Technology Way
Orem, UT 84057-2399

David R. Bradford
Senior Vice President and
General Counsel

Spectrix

October 13, 1995

Mr. Vic Hayes, Chair, IEEE P802.11
AT&T WCND Utrecht
Zadelstede 1-10
3431 JZ Nieuwegein, the Netherlands

Dear Vic,

This is a response to your letter of September 26, 1995, regarding patents.

Spectrix has previously written two letters to you on the subject of Spectrix's patents⁴. We believe that these letters responded to the subject adequately and there is no need to send new letters on the same subject. Spectrix has made patent applications since the last letter but there have been no pending numbers issued. When these numbers are issued Spectrix will write another letter using the format suggested in your letter.

Yours truly,

C. Thomas Baumgartner

Vice President of Marketing

Spectrix Corporation
106 Wilmot Road, Suite 250
Deerfield, IL 60015-5150

⁴ See doc.: 93/134, which mentions US Patent No 5,099,346, March 24, 1992. The second letter mentions US patent 5,247,380.

Xircom

October 12, 1995

Mr. Vic Hayes
Chairperson, IEEE P802.11
AT&T WCND Utrecht
Zadelstede 1-10
3431 JZ Nieuwegein, the Netherlands

Re: Patent Letter of Assurance

Dear Mr. Hayes:

This letter is written in response to your letter dated September 26, 1995 to Mr. Phil Belanger. You have requested, on behalf of the Standards Working Group IEEE P802.11, that Xircom, Inc. confirm to the IEEE that Xircom will provide licenses under applicable United States Patent Pending Serial Number 08/082,313, and any associated divisional applications or patents issued thereunder with respect to the proposed IEEE P802.11 standard.

In the event the proposed standard is adopted and the standard cannot be practiced without the use of the applicable patent(s) (if and when same is/are issued), Xircom agrees as follows. Upon written request, and upon consummation of negotiations (to include receipt by Xircom of appropriate assurances or other satisfactory confirmation of the requester's ability to perform and comply with all terms and conditions of licensing), to grant pursuant to written agreement a nonexclusive license under the applicable patent(s) on a nondiscriminatory basis and on reasonable terms and conditions, including Xircom's then current royalty rates and payment conditions.

This letter does not grant to the IEEE, nor to any other party on any theory of third party beneficiary status, any right in or to Xircom's copyrights or other intellectual property rights (whether current or future) that may relate to the proposed standard. Any party interested in a license as described above may write to Xircom, Inc., Attn: General Counsel, at the address noted above on our letterhead.

Sincerely,

Randall H. Holliday
General Counsel

Note: Letterhead did not give the address

Aironet

December 8, 1995,

IEEE Computer Society
1730 Massachusetts Avenue, N.W.
Washington, DC 20036-1992

Re: IEEE 802.11 draft Standard

Dear Sirs

This letter is written in response to your letter of September 26, 1995, which requested that Aironet Wireless Communications Inc. ("Aironet") notify IEEE of any patents related to the technology described in the IEEE 802.11 draft Standard. In this regard, we wish to bring to the attention of the Committee, U.S. Patent No. 5,276,680, Canadian Patent Application No. 2,040,234 and PCT Application No. PCT/CA92/00149.

If the proposed Standard, in its draft form, is adopted, to the extent that the Standard cannot be practiced without infringing one or more claims of the above patents, Aironet agrees that upon written request, it will grant a non-exclusive license under such claims that are required by the terms of the Standard to any requesting party on reasonable terms and conditions but not to any other claims. Our present understanding is that implementation of the Standard would require a license under claims 1, 3, 4, 5 and 7 of the '680 patent, but not claims 2, 6, and 8-14. Thus, the license would not include the latter claims. Claim in the foreign applications corresponding to the latter claims also would not be licensed.

This letter does not grant any right to IEEE with respect to Aironet patents, copyrights or other intellectual property rights.

Any party interested in the license described above, may write to:

Mr. Roger J. Murphy, Jr.
President
Aironet Wireless Communications, Inc.
P. O. Box 5292
Fairlawn Ohio 44334^0292

Sincerely

Roger J Murphy, Jr.