

Before the
FEDERAL COMMUNICATIONS COMMISSION
Washington, D.C. 20554

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FEDERAL COMMUNICATIONS COMMISSION
OFFICE OF SECRETARY

In the Matter of)
)
Petitions for Rulemaking to Allocate)
the 5 GHz Band and Adopt)
Service Rules for a Shared Unlicensed)
Personal Radio Network)

RM-8648

RM-8653

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To: The Commission

REPLY COMMENTS

Pursuant to Section 1.405 of the Commission's Rules,¹ Alcatel Network Systems, Inc. ("ANS"),² by its attorney, hereby submits its reply comments on the above-captioned Petitions for Rulemaking (the "Petitions").³

¹47 C.F.R. Section 1.405 (1994).

²ANS is a wholly-owned subsidiary of Alcatel Alsthom ("Alcatel"), one of the world's largest corporations (with annual sales in excess of \$30 billion) and the world's largest manufacturer and supplier of telecommunications equipment. In particular, Alcatel is the world's largest independent manufacturer and supplier of microwave radios. Formerly Collins Radio and Rockwell International, ANS, with over \$500 million in annual sales, is a world leader in manufacturing microwave and light wave transmission systems. ANS' equipment is used for a wide range of services, including short, medium and long-haul voice, video and data transmission. Its microwave customers include all the Bell Operating Companies, most major independent telephone companies, cellular operators, power and other utility companies, oil companies, railroads, industrial companies, and state and local government agencies.

³Given the similarity between the two proposals, the Commission has consolidated the Petitions. See Order Extending Time (DA 95-1254, released June 8, 1995), in which the Chief, Office of Engineering and Technology, established July 10, 1995, as the date for comments on both Petitions.

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Both Petitions involve a different proposed reallocation of the 5 GHz band to accommodate unlicensed high-speed, wireless digital services ("HSWDS").⁴ In reply comments filed contemporaneously herewith, the Fixed Point-to-Point Communications Section, Network Equipment Division of the Telecommunications Industry Association ("TIA"), details the serious reservations expressed in various comments that must be resolved before the 5 GHz band could be reallocated for the new unlicensed HSWDS.

Specifically, the record reflects that several parties in this proceeding have the following questions about certain elements of these proposals:

- Apple's proposal, which contemplates unlicensed "community wide" networks with 10-15 km long paths, unnecessarily: (i) would cause harmful interference to other users; (ii) would usurp valuable spectrum in the 5 GHz band for short hop HSWDS links where alternative bands are available for such users; and (iii) would duplicate licensed fixed point-to-point microwave networks.⁵
- Necessary band sharing with existing services has not been demonstrated to be attainable.⁶

These questions have not been answered. Even though HSWDS is a valuable potential service, it is premature to even consider proposing allocation of the 5 GHz band for this technology until such questions are answered, especially with respect to Apple's proposals for unlicensed 10-15 km short hop HSWDS links. Thus, ANS joins TIA in recommending that the Commission adopt a

⁴In RM-8648, the Wireless Information Networks Forum ("WINForum") filed a Petition for Rulemaking ("WINForum Petition") requesting that the 5.10-5.35 GHz band be reallocated for its Shared Unlicensed Personal Radio Network ("SUPERNet"). Similarly, in RM-8653, Apple Computer, Inc. ("Apple") filed a Petition for Rulemaking ("Apple Petition") requesting that the 5.15-5.30 and 5.725-5.875 GHz bands be reallocated to establish the "NII Band."

⁵See, e.g., AT&T Corp. ("AT&T") at 2; Harris Corporation-Farion Division ("Harris") at 4; The American Radio Relay League, Incorporated ("ARRL") at 6-7.

⁶See, e.g., Constellation Communications, Inc. at 2-3; AT&T at 5; Loral/Qualcomm Partnership, L.P. at 1; ARRL at 2-3, 8-13; Federal Aviation Administration at 1-3; Harris at 4.

Notice of Inquiry so that a formal proceeding would be established to determine if the issues raised in the Apple and WINForum proposals can be resolved.

Respectfully submitted,

ALCATEL NETWORK SYSTEMS, INC.

A handwritten signature in black ink, appearing to read 'R. J. Miller', is written over a solid horizontal line.

Robert J. Miller
Gardere & Wynne, L.L.P.
1601 Elm Street, Suite 3000
Dallas, Texas 75201
(214) 999-3000

July 24, 1995

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CERTIFICATE OF SERVICE

I hereby certify that a true and correct copy of the foregoing Reply Comments was sent via first class mail, postage prepaid, to the following parties on the 24th day of July, 1995.

Henry Goldberg, Esq.
Goldberg, Godles, Wiener & Wright
1229 19th Street, N.W.
Washington, D.C. 20036
Counsel for Apple Computer, Inc.

R. Michael Senkowski, Esq.
Wiley, Rein & Fielding
1776 K Street, N.W.
Washington, D.C. 20006
Counsel for Wireless Information Networks Forum

Robert A. Mazer, Esq.
Rosenman & Colin
1300 19th Street, N.W., Suite 200
Washington, D.C. 20005
Counsel for Constellation Communications, Inc.

Mark C. Rosenblum, Esq.
AT&T Corp.
Room 3252F3
295 North Maple Avenue
Basking Ridge, New Jersey 07920

John T. Scott, III, Esq.
Crowell & Moring
1001 Pennsylvania Avenue, N.W.
Washington, D.C. 20004-2505
Counsel for Loral/Qualcomm Partnership, L.P.

Leonard Robert Raish, Esq.
Fletcher, Heald & Hildreth, P.L.C.
1300 North 17th Street, 11th Floor
Rosslyn, Virginia 22209-3801
Counsel for Digital Microwave Corporation and
Harris Corporation-Farion Division

Christopher D. Imlay, Esq.
Booth, Freret & Imlay
1233 20th Street, N.W., Suite 204
Washington, D.C. 20036
Counsel for the American Radio Relay League, Inc.

Gerald J. Markey
Program Director for Spectrum Policy & Management
U.S. Department of Transportation, Federal
Aviation Administration
800 Independence Avenue, S.W.
Washington, D.C. 20591

Stuart Overby
Motorola, Inc.
1250 I Street, N.W., Suite 400
Washington, D.C. 20005

Stephen L. Goodman, Esq.
Halprin, Temple & Goodman
1100 New York Avenue, N.W.
Suite 650, East Tower
Washington, D.C. 20005
Counsel for Northern Telecom, Inc.

Charles Brown
Tetherless Access Ltd.
2468 Embarcadero Way
Palo Alto, California 94303

Joseph Tasker, Jr., Esq.
Vice President and Assistant General Counsel
Federal Governmental Affairs
Compaq Computer Corporation
1330 I Street, N.W., 490 East
Washington, D.C. 20005

Catherine Wang, Esq.
Swidler & Berlin, Chartered
3000 K. Street, N.W., Suite 300
Washington, D.C. 20007
Counsel for Andrew Corporation

Stanley M. Gorinson, Esq.
Preston, Gates, Ellis & Rouvelas Meeds
1735 New York Avenue, N.W., Suite 500
Washington, D.C. 20006-4759
Counsel for Microsoft Corporation

M. Robin Critchell
Southern California Repeater and
Remote Base Association
P.O. Box 5967
Pasadena, California 91117

Fiona J. Branton, Esq.
Director, Government Relations & Regulatory Counsel
Information Technology Industry Council
1250 I Street, N.W., Suite 200
Washington, D.C. 20005

Henrietta Wright, Esq.
Goldberg, Godles, Wiener & Wright
1229 19th Street, N.W.
Washington, D.C. 20036
Counsel for The Part 15 Coalition

Henry M. Rivera, Esq.
Ginsburg, Feldman & Bress, Chtd.
1250 Connecticut Avenue, N.W.
Washington, D.C. 20036
Counsel for Metricom, Inc.

John E. Cunningham, President
Pulson Communications
Suite 1800
200 Galleria Parkway
Atlanta, Georgia 30339

July 24, 1995


Deborah Traugber

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