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DOCUMENT 1777

DOC. AREA 1 002.11-27/303

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## To the Standing Regulatory Committee

### Proposal by Vic Hayes, Chair, Standing Regulatory Committee

At the closing plenary meeting in November, I received a lot of interest from the audience to file comments to NPRM 94-32. Consequently, I announced that I would place some suggestions on our FTP server. To satisfy my commitment, I made a proposal for users and for vendors.

I request the Standing Regulatory Committee to approve the placement of these files on our servers.

### Suggestions for documents to file at FCC

#### **Please let the FCC know we need to keep the 2.4 GHz radio spectrum useful for our Wireless Local Area Networks**

The FCC is seeking comments from the public regarding the auctioning of, among others, an important frequency band (2402-2417 MHz) for "Emerging Technology services". The FCC received the use of the band from the USA government (the NTIA) in response to the Omnibus Budget Reconciliation Act of 1993. The FCC knows about the use of this band for Part 15 devices, but is statutory obliged to follow up.

As the mentioned band takes about 20 % from the band we plan to use, we need to make those plans known to the FCC. Hopefully, by our efforts, we will have minimum loss of bandwidth to others for our exciting application.

Please find enclosed two proposals with suggestions that could be used for filing at the FCC. One is for (future) users of Part 15 devices in the 2.4 GHz band. The other is for vendors of those devices.

Please consider to file your own documents from these suggestions and file them on or before December 19, 1994 at the FCC. We have placed square brackets plus an @-sign at those places where you need to place information specific to your environment. We encourage "personification" of the filing as the value of the filing raises if it is not a carbon-copy.

Please file in time on the following address:

Office of the Secretary

Federal Communications Commission

Washington DC 20554

**[FOR USERS]**  
Before the  
FEDERAL COMMUNICATIONS COMMISSION  
Washington, D.C. 20554

In the Matter of )  
 )  
Allocation of Spectrum Below ) ET Docket No. 94-32  
5 GHz Transferred from )  
Federal Government Use )

To: The Commission

COMMENTS

[@Company name] respectfully submits the following comments in response to the Commission's Notice of Proposed Rulemaking ("NPRM"), FCC 94-272, released November 8, 1994.

This NPRM proposes allocation of 50 MHz of spectrum that was identified by the Department of Commerce for transfer from Federal Government to private sector use. [@Company name] urges that one of the three segments comprising those 50 MHz remain usable spread spectrum devices because [@Company name] has plans to use the 2,400-2,483.5 MHz band for computer communications as soon as such devices are available. Especially the advent of an interoperability standard being prepared by the IEEE P802 committee makes this band attractive for us to use.

[@Company name] is a \$ xxxxx company specialized in xxxxxxxxx, etc. We depend on mobile computers and wireless connectivity in our business environment to support [users, applications, functions and departments].

In § 18 of the NPRM, the Commission requests comments on retaining the segment 2402-2417 MHz of the 50 MHz for use by Part 15 devices. [@Company name] believes that such use should be allowed to continue. Removing 2,402-2,417 MHz from the band available in practice to Part 15 devices would limit the capacity of our future use and systems. This limitation would severely affect our ability to function. If [@Company name] could only choose between the three options mentioned in § 18, it would take the option "Maintaining Part 15 use of the band while limiting licensed use of the band".

However, [@Company name] would appreciate the Commissions consideration to raise the status of Part 15 devices to "co-primary" in order to prevent the, possible new, primary users demanding cessation of operation of Part 15 devices on slight interference from those devices.

In § 16 the Commission invites comments on the use of the 2,390-2,400 MHz band. [@Company name] requests that this band be used for unlicensed devices.

In § 19 of the NPRM the Commission also requests comments on two types of use in this band. One type is the use by licensed services subject to technical rules similar to the rules for unlicensed Part 15 devices and the second use is by Mobile Satelite Service (MSS). While [@Company name] can not give detailed comment on the first of such use pending the availability of the rules, we regard the concept as potentially appropriate provided that the unlicensed devices are granted co-primary status. Coexistence studies performed by the proponents of MSS use are necessary before the Commission makes further decisions in order to limit impairment for Part 15 devices.

### ***Conclusion***

The usefulness of the entire 2,400-2,483.5 MHz band for spread spectrum Part 15 devices should not be impaired by decisions by the Commission. To protect the existence of Part 15 devices in the band, the status should be changed to co-primary status while the band 2,390-2,400 MHz should be allocated to unlicensed services.

Respectfully submitted,

\_\_\_\_\_  
Name of officer of the company

\_\_\_\_\_  
Dated

His function

Comapny name

Address

Town

Phone #

Fax #

[FOR VENDORS]  
Before the  
FEDERAL COMMUNICATIONS COMMISSION  
Washington, D.C. 20554

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Allocation of Spectrum Below ) ET Docket No. 94-32  
5 GHz Transferred from )  
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To: The Commission

COMMENTS

[@Company name] respectfully submits the following comments in response to the Commission's Notice of Proposed Rulemaking ("NPRM"), FCC 94-272, released November 8, 1994.

This NPRM proposes allocation of 50 MHz of spectrum that was identified by the Department of Commerce for transfer from Federal Government to private sector use. [@Company name] urges that one of the three segments comprising those 50 MHz remain usable spread spectrum devices because [@Company name] has made considerable investments in the design and manufacturing of devices for operation in the 2,400-2,483.5 Mhz band for computer communications. Those investments would become vulnerable if the best part of the band would be prohibited for the use of Part 15 devices or would be limited in capacity due to the new licensed users in the band.

[@Company name] is also actively participating in the work of IEEE P802.11 in making an interoperability standard in the 2,400-2,483.5 MHz band. Taking away the best 18% of the operating range of the spectrum, would reduce the market of devices operating according to the standard in the U.S. compared to abroad.

[@Company name is a \$ xxxxx company specialized in xxxxxxxxxx, etc. ]

In § 16 the Commission invites comments on the use of the 2,390-2,400 MHz band. The Committee requests that this band be used for unlicensed data services.

In § 18 of the NPRM, the Commission requests comments on retaining the segment 2402-2417 MHz of the 50 MHz for use by Part 15 devices. [@Company name] believes that such use should be allowed to continue. Removing 2,402-2,417 MHz from the band available in practice to Part 15 devices would limit the capacity of the systems built according to the future standard for use in the

United States and would thus place the U.S. users of the standard in a worse position compared to similar users in other countries. If the [@Company] could only choose between the three options mentioned in § 18, it would take the option "Maintaining Part 15 use of the band while limiting licensed use of the band".

[@Company name] is developing a device working according to the Frequency Hopping rules. To meet the capacity requirements of the standard, the channel width need to be 1 MHz. Taking away 15 MHz from unlicensed devices would reduce the 2,400-2,483.5 MHz band to less than 75 MHz, thus making it impossible to operate the devices in accordance with the rules of 47 CFR Section 15.247.

To protect the investments made by [@Company] in the development of both its product and of the standard of IEEE P802, we request to raise the status of Part 15 devices in the 2,400-2,483.5 MHz band to co-primary. That way, interference from our devices to the possible new services would not make our devices subject to demands for cessation of operation.

In § 19 of the NPRM the Commission also requests comments on two types of use in this band. One type is the use by licensed services subject to technical rules similar to the rules for unlicensed Part 15 devices and the other type is the use by Mobile Satelite Service. While [@Company name] can not give detailed comment on the first of such use pending the availability of the rules, we regard the concept as potentially appropriate. Coexistence studies performed by the proponents of MSS use are necessary before an informed decision can be made.

**Conclusion**

The usefulness of the entire 2,400-2,483.5 MHz band for spread spectrum Part 15 devices should not be impaired by decisions by the Commission. To protect the existence of Part 15 devices in the band, the status should be changed to co-primary status while the band 2,390-2,400 MHz should be allocated to unlicensed services.

Respectfully submitted,

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Name of officer of the company

\_\_\_\_\_  
Dated

His function

Company name

Address

Town

Phone #

Fax #

