

**Chris Harvey**

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**From:** lucy.tsai [lucy.tsai@tw.ccsemc.com]  
**Sent:** Friday, August 04, 2006 3:02 AM  
**To:** Chris Harvey  
**Cc:** 'application'; mike.kuo@ccsemc.com  
**Subject:** Re:RE: RE: RE: RE: Re:RE: RE: SparkLAN Communications, Inc., FCC ID: RYK-OA200, Assessment NO.: AN06T5889, Notice#1  
**Attachments:** OA-200 Declaration Letter 0803.pdf; OA-200 OpDes Revised 0804.pdf; OA-200 Quick Installation Guide 0804.pdf; OA-200 User manual Revised 0804.pdf

Dear Chris,

This is the final confirmation from SparkLAN for cancelling the UNII filing. All related documents as theory of operation, user manual/installation guide and customer declaration regarding disable UNII band have been revised again and attached. Please have a check again and if no other problem, please help to issue the grant for DTS portion.

Thank you.

Best Regards,

Lucy

"Chris Harvey"

<charvey@ieee.org>

2006/08/02 08:13 PM

收件人 : "lucy.tsai" <lucy.tsai@tw.ccsemc.com>

副本抄送 : "application" <application@tw.ccsemc.com>, <mike.kuo@ccsemc.com>

主旨 : RE: RE: RE: RE: Re:RE: RE: SparkLAN Communications, Inc., FCC ID: RYK-OA200, Assessment NO.: AN06T5889, Notice#1

Lucy, this is not just a problem with the name 'Outdoor AP.' This device is designed to be outdoor pole mounted, the installation images show this mounted to a tower or on top of a building. This device is intended to be used outdoors and therefore including the indoor-only 5.15-5.25 GHz band is not appropriate / allowed. The 5.15-5.25 GHz band is intended for desktop devices that are clearly intended for use indoors, and have warnings in the manual.

I hope that I am being clear on this issue. This outdoor device can not be approved to use the indoor band.

Please let me know if you have any further questions.

Best regards,

Chris Harvey

8/4/2006

Charvey-tcb@ccsemc.com

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**From:** lucy.tsai [mailto:lucy.tsai@tw.ccsemc.com]  
**Sent:** Tuesday, August 01, 2006 9:59 PM  
**To:** Chris Harvey  
**Cc:** 'application'; mike.kuo@ccsemc.com  
**Subject:** Re:RE: RE: RE: Re:RE: RE: SparkLAN Communications, Inc., FCC ID: RYK-OA200, Assessment NO.: AN06T5889, Notice#1

Dear Chris,

At the beginning, they did want to disable 5.15-5.25GHz to meet term of "the outdoor AP", however, as you know that they missed July 19, the target date of getting UNII certificate without DFS test.

So now by talking to them, they then decided to keep 5.15-5.25GHz and disable 5.25-5.35GHz, so the product name will be revised as well.

This is the whole story and any misunderstanding please let us know, thank you.

Best Regards,

Lucy

"Chris Harvey"

<charvey@ieee.org>

2006/08/02 09:40 AM

收件人 : "lucy.tsai" <lucy.tsai@tw.ccsemc.com>

副本抄送 : "application" <application@tw.ccsemc.com>, <mike.kuo@ccsemc.com>

主旨 : RE: RE: RE: Re:RE: RE: SparkLAN Communications, Inc., FCC ID: RYK-OA200, Assessment NO.: AN06T5889, Notice#1

Lucy, please explain how you will revise the UNII test report. As I understand, they will disable the 5.15-5.25GHz indoor band because their device is an Outdoor AP and they will disable the 5.25-5.35GHz band because they do not have DFS compliance. There are no other UNII bands in this device so they do not need a UNII test report.

They will need to make sure they have no other UNII references in their other exhibits for the DTS application.

Please let me know if you have any questions.

Best regards,

Chris Harvey

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**From:** lucy.tsai [mailto:lucy.tsai@tw.ccsemc.com]  
**Sent:** Tuesday, August 01, 2006 9:20 PM

8/4/2006

**To:** Chris Harvey  
**Cc:** 'application'; mike.kuo@ccsemc.com  
**Subject:** Re:RE: RE: Re:RE: RE: SparkLAN Communications, Inc., FCC ID: RYK-OA200, Assessment NO.: AN06T5889, Notice#1

Dear Chris,

Got and I will guide the customer to revise the user manual and provide ther revised UNII test report to you asap.  
Thank you for your continuous focus on this project.

Best Regards,

Lucy

"Chris Harvey"

<charvey@ieee.org>

2006/08/02 12:40 AM

收件人 : "lucy.tsai" <lucy.tsai@tw.ccsemc.com>

副本抄送 : "application" <application@tw.ccsemc.com>, <mike.kuo@ccsemc.com>

主旨 : RE: RE: Re:RE: RE: SparkLAN Communications, Inc., FCC ID: RYK-OA200, Assessment NO.: AN06T5889, Notice#1

Lucy, I received a reply from CCS-TW stating the following to my question:

10. This device is called an Outdoor AP, but the 5.15 - 5.25GHz band is Indoor Use only. This discrepancy seems to be very confusing, and is likely to confuse users.  
**Ans: This device is an outdoor AP, client provide a cover letter to declarate that they will disable 5150-5250 MHz.**

If SparkLAN is keeping the 5.15-5.25 GHz Band then they must restrict this to Indoor Use. Why is this Outdoor AP going to have the indoor-only band?

Best regards,

Chris Harvey

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**From:** lucy.tsai [mailto:lucy.tsai@tw.ccsemc.com]

**Sent:** Tuesday, August 01, 2006 11:56 AM

**To:** Chris Harvey

**Cc:** 'application'; 'Chris Harvey'; mike.kuo@ccsemc.com

**Subject:** Re:RE: Re:RE: RE: SparkLAN Communications, Inc., FCC ID: RYK-OA200, Assessment NO.: AN06T5889, Notice#1

8/4/2006

Dear Chris,

Please review DTS portion in advance but as for UNII portion, customer still wants to keep 5.15-5.25GHz UNII band. They will revise the user manual again and also revise the 5.25-5.35GHz UNII band from the original UNII report.

But a question regarding remove 5.25-5.35GHz band needs to double confirm with you.

Should we need to measure the middle and high channels for the 5.15-5.25GHz UNII portion since the original middle/high channels are allocated in the range of 5.25-5.35GHz?

Best Regards,

Lucy

"Chris Harvey"

<charvey@ieee.org>

2006/08/01 07:21 PM

收件人： "Chris Harvey" <charvey@ieee.org>, "application" <application@tw.ccsemc.com>

副本抄送： <mike.kuo@ccsemc.com>, "lucy.tsai" <lucy.tsai@tw.ccsemc.com>

主旨： RE: Re:RE: RE: SparkLAN Communications, Inc., FCC ID: RYK-OA200, Assessment NO.: AN06T5889, Notice#1

Amanda, I now see what you were saying. You wish to Dismiss (cancel) the entire UNII portion of this device, which means to dismiss the AN06T5889 assessment number and proceed with only the DTS portion under AN06T5886. I have looked into the test report exhibit for AN06T5886 DTS portion and find no references to UNII or 5.15-5.35GHz. I will continue this review of AN06T5886 (DTS) today, including the new Users Manual and Operational Descriptions submitted on 7/28.

Best regards,

Chris Harvey

**From:** Chris Harvey [mailto:charvey@ieee.org]

**Sent:** Tuesday, August 01, 2006 6:54 AM

**To:** 'application'

**Cc:** 'mike.kuo@ccsemc.com'; 'lucy.tsai'

**Subject:** RE: Re:RE: RE: SparkLAN Communications, Inc., FCC ID: RYK-OA200, Assessment NO.: AN06T5889, Notice#1

Amanda, Thank you for your e-mail. I have confirmed that in order to remove the 5.15-5.35 GHz band from this application all of the data and references to this band must be removed, including all the test report data. Please submit replacement exhibits that remove the references to the 5.15-5.35GHz bands of operation.

Best regards,

8/4/2006

Chris Harvey

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**From:** amanda.wu [mailto:amanda.wu@tw.ccsemc.com] **On Behalf Of** application  
**Sent:** Monday, July 31, 2006 10:36 PM  
**To:** Chris Harvey  
**Cc:** mike.kuo@ccsemc.com; lucy.tsai  
**Subject:** Re:Re:RE: RE: SparkLAN Communications, Inc., FCC ID: RYK-OA200, Assessment NO.: AN06T5889, Notice#1

Dear Charvey:

We have mail two documents (user manual & Opdes) on July 28, 2006, client would like to know the status. Coule you please tell me. Thank you.

Best Regards

Amanda

Dear Charvey:

Best Regards,

Gina

----- 轉呈者 gina.lo/ccsemc 於 2006/07/28 10:12 AM -----

**application**

寄件人 : lucy.tsai

收件人 : "Chris Harvey" <charvey@ieee.org>, "Mike Kuo \(\CCS\)\" <mike.kuo@ccsemc.com>

副本抄送 : lucy.luo/ccsemc@ccsemc

主旨 : Re:RE: RE: SparkLAN Communications, Inc., FCC ID: RYK-OA200, Assessment NO.: AN06T5889, Notice#1

蔡文君

[連結](#)

2006/07/24 03:15

PM

Hi Mike and Chris,

8/4/2006

Regarding this project, if SparkLan would like to cancel the filing for 5150-5350MHz UNII band, and then is it possible to issue the certificate for DTS portion, including 2.4GHz and 5.8GHz?

Best Regards,

Lucy

"Chris Harvey"

<charvey@ieee.org>

2006/07/20 07:53 PM

收件人 : "application" <application@tw.ccsemc.com>

副本抄送 : "Mike Kuo \ (CCS)" <mike.kuo@ccsemc.com>

主旨 : RE: RE: SparkLAN Communications, Inc., FCC ID: RYK-OA200, Assessment NO.: AN06T5889, Notice#1

I have received your email with large attachments (10MB). I will review them today.

Best regards,

Chris Harvey

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**From:** lucy.tsai [mailto:lucy.tsai@tw.ccsemc.com] **On Behalf Of** application

**Sent:** Thursday, July 20, 2006 8:00 AM

**To:** Chris Harvey

**Cc:** 'application'; 'Chris Harvey'; 'Mike Kuo (CCS)'

**Subject:** Re: RE: SparkLAN Communications, Inc., FCC ID: RYK-OA200, Assessment NO.: AN06T5889, Notice#1

Dear Chris,

I have sent out the answer for UNII portion by Amanda minutes ago, please have a check.

Thank you.

Best Regards,

Lucy

8/4/2006

"Chris Harvey"  
<charvey@ieee.org>

2006/07/20 06:59 PM

收件人 : "application" <application@tw.ccsemc.com>  
副本抄送 : "Mike Kuo \(\CCS\)\" <mike.kuo@ccsemc.com>, "Chris Harvey" <charvey@ieee.org>  
主旨 : RE: SparkLAN Communications, Inc., FCC ID: RYK-OA200, Assessment NO.: AN06T5889,  
Notice#1

Amanda, please note that the requested information for the UNII portion of this device under Assessment number AN06T5889 as not been answered. I have attached that Notice#1 from June 24, 2006 to this email for your reference. The Grants for this device can only be issued upon completion of this review.

Please contact me if you have any questions.

Best regards,

Chris Harvey

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**From:** Chris Harvey [mailto:charvey@ieee.org]  
**Sent:** Thursday, July 20, 2006 6:48 AM  
**To:** 'application'  
**Cc:** 'Mike Kuo (CCS)'  
**Subject:** RE: SparkLAN Communications, Inc., FCC ID: RYK-OA200, Assessment NO.: AN06T5886, Notice#2

Thank you Amanda, I have reviewed the information and will communicate with CCS Morgan Hill to complete these Grants as soon as possible.

Best regards,

Chris Harvey

**From:** amanda.wu [mailto:amanda.wu@tw.ccsemc.com] **On Behalf Of** application  
**Sent:** Thursday, July 20, 2006 5:57 AM  
**To:** charvey-tcb@ccsemc.com  
**Subject:** Re:SparkLAN Communications, Inc., FCC ID: RYK-OA200, Assessment NO.: AN06T5886, Notice#2

Dear Charvey:

Please see my reply, thank you.

Best Regards,

Amanda

<charvey-tcb@ccsemc.com>

收件人 : <application@tw.ccsemc.com>

2006/07/12 01:04 AM

副本抄送 : <charvey-tcb@ccsemc.com>

主旨 : SparkLAN Communications, Inc., FCC ID: RYK-OA200, Assessment NO.: AN06T5886, Notice#2

Dear Gina Lo,

I have received and reviewed your responses to the Notice #1 for the above referenced TCB application.

Item #3 from Notice #1 has not yet been addressed. The photos show what appear to be N-Connectors on the rear side of this unit, with N-cables and N to RP-SMA connectors. The manual just indicates that this device is supplied with RP-SMA connectors. The FCC requires that compliance with FCC 15.203 requires unique connectors for the entire RF path OR the device requires Professional Installation. Please describe how this device complies with the unique antenna connector requirements of FCC 15.203 for all the RF connectors on the enclosure, antennas, adaptors and cables for this device.

Ans: The rear side of the EUT is a RN female connector, therefore the RN-male to RSMA-female converter can apply on the EUT directly with a RSMA-male antenna. There is another configuration with extension cables apply to it, i.e. apply the RN-RN male cable to the RN female connector of the EUT, after that, apply the RN-RN female cable on the RN-RN male cable. RN-RN female cable is then connect to the antenna thru a RN-male to RSMA-female converter. Please refer to the attached revised documents for detail description.

The items indicated above must be submitted before processing can continue on the above referenced application. Failure to provide the requested information within 30 days of the original e-mail date may result in application dismissal and forfeiture of the filing fee. Also, please note that partial responses increase processing time and should not be submitted. Any questions about the content of this correspondence should be directed to the e-mail address listed below the name

8/4/2006



of the sender.

Best regards,

Chris Harvey  
charvey-tcb@ccsemc.com

----- 訊息來自 <charvey-tcb@ccsemc.com> (位於 Sat, 24 Jun 2006 06:05:46 -0400) -----

**寄件人:** <application@tw.ccsemc.com>

**副本抄送:** <charvey-tcb@ccsemc.com>, <claire.hoque@ccsemc.com>

**主旨:** SparkLAN Communications, Inc., FCC ID: RYK-OA200, Assessment NO.: AN06T5889 (UNII), Notice#1

Dear Gina Lo,

You are listed as the technical contact for the above referenced application. The following items must be addressed before the review can be completed:

1. Please provide the Installation Guide which is mentioned in the Users Manual.
2. The antenna specification provided indicates an antenna gain of 5dBi (3.16dB numeric gain) from 2.4GHz to 5.825GHz, which seems unrealistic. Please provide more antenna gain details.
3. Please describe how this device complies with the unique antenna connector requirements of FCC 15.203 for all the RF connectors on the enclosure, antennas, adaptors and cables for this device.
4. The internal Photo exhibit shows several EMI modifications performed to the sample tested. Please provide a declaration from the manufacturer that the equivalent modifications, including the ferrites inside and on the cables, will be performed on all production units of this device.
5. The Users Manual exhibit does not have any RF Exposure guidance/notice to the installer/user regarding the need to maintain at least 20cm separation to this device. Please update the installer/user information to include RF exposure information.
6. Please explain how the units provided for the US market have only FCC approved channels available to the user.
7. The Block Diagram shows a 4-Port LAN, but the device only has one Ethernet Port. Please explain and correct the exhibits as needed.
8. The tests were performed in October and November of 2005. Please have the laboratory provide a declaration that the measurements are still valid.
9. The UNII 15.407 test report states that the declaration of compliance with the "transmission in the absence of data" and "frequency stability" requirements are found in the Theory of Operation. There is not a document called the Theory of Operations, but there is an Operational Description, which does not provide such declarations. Please provide a declaration of compliance with this requirement of 15.407.
10. This device is called an Outdoor AP, but the 5.15 - 5.25GHz band is Indoor Use only. This discrepancy seems to be very confusing, and is likely to confuse users.

8/4/2006

11. The Radiated Undesirable Emissions section of the UNII test report states that the measurements are to be in EIRP, but the tables of measurements are shown in field-strength. Please correct this discrepancy.

Please note that a separate request for the DTS application for this device has been sent separately.

The items indicated above must be submitted before processing can continue on the above referenced application. Failure to provide the requested information within 30 days of the original e-mail date may result in application dismissal and forfeiture of the filing fee. Also, please note that partial responses increase processing time and should not be submitted. Any questions about the content of this correspondence should be directed to the e-mail address listed below the name of the sender.

Best regards,

Chris Harvey  
charvey-tcb@ccsemc.com

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