

Siemens AG , FCC ID: LYHLAP-V1, Assessment NO.: AN08T7646, Notice#1

Inbox
X

from tim.dwyer@ccsemc.com
to Thomas.Ring@mikes-tp.com,
cc tim.dwyer@ccsemc.com,
date Mon, Mar 3, 2008 at 11:45 PM
subject Siemens AG , FCC ID: LYHLAP-V1, Assessment NO.: AN08T7646, Notice#1

[hide details](#) 11:45 PM (9 hours ago) [Reply](#)

Dear Mr. Ring,

The review of this application is complete. Except for a few items, the review is positive. I am in the process of completing the review of three other related and similar applications. I expect to forward separate evaluation notices, possibly with additional items for those within the next day. Since the other applications are similar, the items listed below may also apply. Please indicate if your responses should also be applied to the other applications. I am sending this notice prior to completing the other reviews in the interest that you receive it as soon as possible. If it is your preference to hold your response until you have all review results, that will be ok.

Please respond to the following items as they may apply to this and other applications. If you have questions, please ask.

Q1: Signatures on the Authorization, confidentiality, professional installation attestation and two declaration letters do not match the name of the person listed in the FCC database. At minimum, please provide an authorization letter with the signature of the contact person named in the FCC database and that in turn authorizes the signatures in other letters. I am aware that you may already have been informed of this item.

Q2: I was unable to locate the RF and antenna circuits in the schematic exhibit. If the RF sections are included in the schematic, please provide a reference to pages containing them. If the RF circuits are not included, please provide revised schematics.

Q3: For the highest gain antenna specified, it appears that the output power will need be reduced in order to comply with the rules. Please confirm that professional installers will be provided with clear instructions for antenna selection and power setting in order that the requirements of 15.247(b)(4) be met for all installations.

Q4: The complete test report has been provided as the test setup photos exhibit. It is acceptable to include the test setup photos in the test report, but please also extract the test setup photos to create a separate photos-only exhibit for indoor and outdoor radiated emissions, conducted RF, and conducted AC mains measurement setup photos.

Q5: The equipment label includes the FCC logo indicating that the digital device portion has meets the relevant requirements using the FCC Declaration of Conformity procedure. Please confirm that evaluation for compliance with the DoC procedure has been carried out in accordance with FCC KDB 349827 of 15 Feb 2008. The requirements can be seen at <http://search.fcc.gov/oetkdb/P/query.html> by entering 349827 in the search field.

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,

Tim Dwyer
Technical Reviewer

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from Ring Thomas <thomas.ring@mikes-tp.com>
to tim.dwyer@ccsemc.com,
cc Amy Lie <amy.lie@ccsemc.com>,
date Tue, Mar 4, 2008 at 5:41 AM
subject AW: Siemens AG , FCC ID: LYHLAP-V1, Assessment NO.: AN08T7646, Notice#1

[hide details](#) 5:41 AM (3 hours ago) [Reply](#)

Hello Tim,
Thank you very much for your e-mail. It is nice to hear that the application(s) are complete and positive.

My responses here should also be applied to the other applications.

Q1. Please find attached the "new" Authorization Letter and Conf Requ. Letter. This is signed now by Mr. Hensel, who is listed in the FCC at Siemens Grantee Code LYH. I have also informed Amy about these letters.

Q2. Attached please find the Schematics of the RF portion, the module itself.
This is also included in every Schematic for the host, I already sent.
As for the Antenna circuits, please see page 4 of the attached.

Q3. As mentioned in the Professional Inst Statement, only trained professional engineers will install these devices. It is confirmed that professional installers will be provided with clear instructions for antenna selection and power setting in order that the requirements of 15.247(b) (4) be met for all installations.

Q4. Sorry, to be honest I forgot to send Test setup Photos.
You can find these for all three models attached.

Q5. I can confirm that the digital device portion has met the relevant requirements using the FCC Declaration of Conformity procedure.
Btw, do you also offer such DOC service (certificate)?
If yes, please let me know the costs.

Tim, as we are in a hurry with this project, it would be great if you could finished everything soon and let me have the certificates as soon as possible.

I have already informed Amy that, after finishing this, we have to fix the schedule for DFS testing at your facilities.

Thank you very much for your help.
Best regards from Bavaria
Thomas

Freundliche Grüße / Best regards

Thomas Ring
Manager: Certification

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-----Ursprüngliche Nachricht-----

Von: tim.dwyer@ccsemc.com [mailto:tim.dwyer@ccsemc.com]

Gesendet: Dienstag, 4. März 2008 05:46

An: Ring Thomas

Cc: tim.dwyer@ccsemc.com

Betreff: Siemens AG , FCC ID: LYHLAP-V1, Assessment NO.: AN08T7646, Notice#1

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 [tim.dwyer@ccsemc.com](#) to Thomas.Ring

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Hello Thomas,

Please reply to the following issues for this NII application. The issues related to the composite DTS application have been resolved, but further processing of that application can not continue until the issues in this application are complete.

Q1: A note in the CCS exhibit folder indicates that a separate MPE exhibit will be submitted. It does not appear that this exhibit has been submitted yet. It is acceptable to extract a copy of the relevant MPE pages to a separate file. The MPE evaluation data may be left in the test report, but a separate MPE exhibit is required.

Q2: The frequency range listed in the application is 5180-5320 MHz with a listed power of 0.186 W. This frequency range is comprised of two bands, 5150-5250 and 5250-5350 which must be listed separately on the grant. For the band 5150-5250, the maximum conducted output power allowed is the lesser of 0.05 W. (50 mW) or 4 dBm + 10 log B, where B is the 26-dB emission bandwidth in MHz. A power listing of 0.186 W exceeds the maximum allowed power for 5150-5250 MHz. Please provide corrected specifications to be listed for the 5150-5250 MHz band so that we can revise the application. Frequency should be from lowest operating channel to highest. Normally this is 5180-5240 MHz and 5260-5320 MHz. Power listed is conducted and should be shown in W.

Q3: While the conducted output power of 0.186 W is acceptable for operation in the 5250-5350 and 5470-5725 MHz bands, measured powers as shown in the test report do not appear to approach this level. Please explain.

Q4: Compliance with the requirement of 15.407(b)(2) for operation at 5260 MHz has not been shown. The response to this issue may depend on the response to Q3.

Q5: The maximum allowed powers shown on page 26 of the test report are shown in Watts. The units should be in mW. Please revise the test report.

Q6: The operation manual does not show the maximum allowed power settings for US operation in the various bands. Please describe how the installers will be informed of the maximum power settings allowed so that operation according to the criteria of 15.407 is assured.

Q7: Operation in the 5250-5350 and 5470-5725 MHz bands requires evaluation for DFS. No DFS evaluation was presented in the test report. Please provide DFS evaluation data for this product. Certification cannot be completed until DFS evaluation is complete and included in the application. If the device operates as a slave-only device, TCB approval may be possible. If the device operates as a Master device TCB approval is excluded and the UNII part of the application will need to be submitted directly to FCC>

Q8: No evaluation or statement of compliance with the requirements of 15.407(c) or 15.407(g) was made. Please provide evaluation data or a suitable attestation statement.

Q9: Although the restriction to indoor operation in the 5150-5250 MHz band is made in the Industry Canada information, the same restriction as required by 15.407(e) is not made in the FCC information. Please revise to show this restriction for FCC operation.

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Best regards,

Tim Dwyer
Technical Reviewer

  

 [Ring Thomas to Amy, tim.dwyer](#)

[show details](#) Mar 5 (2 days ago)  

Hello Tim,
Thank you very much for your e-mail.

I will answer this now and you can also use these answer to the e-mail for "FCC ID: LYHRAP-V1, Assessment NO.: AN08T7649, Notice#1" and also for the EAP devices.

Related Documents are attached to this e-mail.
These are also on our ftp server account for ccsemc. Amy has the "key" to enter.

Please note that at the moment we do not want to have approved the DFS bands for USA and/or Canada. This should be done later, when we visited CCS for DFS testing via a Class II permissive change.

Therefore at the moment we only want to have the following bands approved for all models. 2.4 GHz band, 5.15-5.25 GHz, 5.75GHz to 5.825GHz

Here are my answers to your questions.

Q1. The exhibits have already been submitted through our ftp server (Amy knows about this), but you can find these (for all models) attached to this e-mail.

Q2. As stated above, only the non-DFS bands should be approved in the 5GHz range. I have checked now again the reports and modified the applications.
You can find these attached. All measured values are lesser than 50mW for the band 5.150-5.250GHz.

Q3. This is not applicable so far as we will not approve these bands at the moment.

Q4. Also N/A at the moment. Compliance with 15.407 (b) (1) is shown in the report as we have only the band 5.15-5.25 GHz for approval.

Q5. Please find the revised reports shown with mW.

Q6. This is a firmware matter, which will be already installed. See also page 26 of our reports.
"The calculated EIRP power includes the gain of the applicable antennas. The necessary reduction of the output power depends on the used type of antenna. The amount of the reduced output power is implemented in the firmware of the EuT and will be automatically adjusted on the selected antenna"

Q7. N/A at the moment.

Q8. Please find the two statements attached.

Q9. Please find attached frequency information which will be included in the manual. There you can see that they point out to use the 5.15-5.25 GHz only indoor. This will be valid for all models.

Tim, please let me know if you are now able to certify.

Thank you very much

Best regards

Thomas

Freundliche Grüße / Best regards

Thomas Ring

Manager: Certification

mikes-testingpartners gmbh
Ohmstrasse 2-4, 94342 Strasskirchen, Germany

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-----Ursprüngliche Nachricht-----

Von: tim.dwyer@ccsemc.com [mailto:tim.dwyer@ccsemc.com]

Gesendet: Mittwoch, 5. März 2008 04:39

An: Ring Thomas

Cc: tim.dwyer@ccsemc.com

Betreff: Siemens AG , FCC ID: LYHLAP-V1, Assessment NO.: AN08T7647, Notice#1

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March 5th 2008 Documents.zip

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[Tim Dwyer](#) to Ring

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Hello Thomas,

Thank you for your reply and including all the documents because I checked again and the additional documents still are not on the CCS server.

I am looking at the revised documents but want to send you this email to find out if you will be in the office for a while longer in case I have any additional questions.

I already have two questions. Apologies if the answers are already in your reply, but I want to get this email to you before you leave the office if possible. I would like to get this complete today if possible.

- One item I know that I need to understand better is related to Q6. I know it states "automatically". (1) Does this mean that the device recognizes the antenna completely automatically without any input from the installer? (2) Or is information about the antenna entered or selected by the installer within the device setup firmware? If case (1) please provide a little more detail about how this is accomplished (e.g. with a special chip in the antenna) and what happens for non-recognized antennas. If case (2) please tell us where the instructions to the installer are regarding selection of the correct antenna as authorized for US operation.

- I am currently working on applications for LAP and RAP, but I do not see any application for EAP at this time. Should there also be an application for EAP?

Best regards,

Tim Dwyer
Technical Reviewer
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[Ring Thomas](#) to Tim, tim.dwyer, Amy

[show details](#) Mar 5 (2 days ago) [Reply](#)

Hi Tim,

Thank you very much for your e-mail.

The additional documents are not on the ccs server, but on the mikes ftp server under your account.

Amy has the password and knows how to enter. I will send a separate e-mail to you how to enter.

To your questions, the following answer:

The information about the antenna entered or selected by the installer is within the device setup firmware?

Please check the user manual at page 99; there you can see more information.

I hope this is a satisfying answer.

As for the EAP, this is listed for Canada and USA under W786, but our internal project name is EAP.

Please check with Amy. She should have everything!

If possible, please let me have the certificates right now.

Best regards

Thomas

Freundliche Grüße / Best regards

Thomas Ring

Manager: Certification

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from **Ring Thomas** <thomas.ring@mikes-tp.com>
to Tim Dwyer <Timothy_Dwyer@ieee.org>,
cc tim.dwyer@ccsemc.com,
Mike Kuo <mike.kuo@ccsemc.com>,
date Tue, Mar 11, 2008 at 6:28 AM
subject WG: Application Status Update

[hide details](#) Mar 11 (3 days ago)    

Hello Tim, Hello Mike,

Thank you very much for your information.

Here is the procedure how our client wants to continue.

Therefore, please confirm again that we will have **no doubts or problems** later.

1. No change to the existing reports is necessary, even if our client intends to use another FCC ID for the LMA approval.

Please confirm. The new FCC ID for the module will be: LYHMPCL1V2

I will change and deliver related documents with the new FCC ID later.

2. You write that DFS bands II & III can be added later to the LMA. Does that mean that our client also can use the FCC ID of the module for the host later with DFS testing after C2PC? For example: Contains X FCC ID: LYHMPCL1V2. **Please confirm this.** (No extra FCC ID for host later after DFS testing and C2PC)

3. Please dismiss the RAP grants as I have told you with no 1 that our client wants to use a new FCC ID for the LMA.

4. Please note that for Canada our client do not want to use the modular approval. They will still use the **family certification** as already proposed.

The model names which should be listed for the EAP family are the following ones:

W786-1PRO / W786-2PRO / W786-3PRO

The model names which should be listed for the RAP family are the following ones:

RAP-W1-RJ-W1 / RAP-W1-RJ-W1

Please let me have the certificates today your time that I can forward these to my client tomorrow morning my time.

5. NO modular approval for IC.

6. Tim, thank you very much for your offer to call. Please call me after receiving this e-mail to discuss the above points.

Thank you

Best regards

Thomas

Freundliche Grüße / Best regards

Thomas Ring

Manager: Certification

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from **Tim Dwyer** <Timothy_Dwyer@ieee.org>
to **Mike Kuo** <mike.kuo@ccsemc.com>,
date **Tue, Mar 11, 2008 at 7:29 PM**
subject **Fwd: Application Status Update**
mailed-by **gmail.com**

Hi Mike,

Siemens has decided that they want to use the LMA approach for FCC for the EAP and RAP applications. They want to use different FCCID's and will send revised documents with the new FCCID's later.

The FCC LYHRAP-V1 TC845091 and TC595088 FCC grants should be dismissed.

For IC they want to proceed with the family application method using new models shown below (blue highlight) for RAP and EAP projects, and would of course want the grants as soon as possible.

They also want confirmation for the items I have highlighted in green below. I think all of these are ok, but want to run by you. The only issue I see now is that they since the module is the same for RAP and EAP, I think we will need to do one application as C2PC specific host.

----- Forwarded message -----

From: **Ring Thomas** <thomas.ring@mikes-tp.com>

Date: **Tue, Mar 11, 2008 at 9:05 AM**

Subject: **AW: Application Status Update**

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