



[Additional answer of TCB F/B] Re: RE: Re: TCB feedback: URGENT: Samsung 11114021 , deadline:Sat. 10/8 AN11T0756

1 message

jeongho ahn <jeongho7.ahn@samsung.com>

Reply-To: jeongho7.ahn@samsung.com

To: mark.briggs@ul.com, Timothy_Dwyer@ieee.org, tim.dwyer@ccsemc.com

Mon, Oct 10, 2011 at 8:58 PM

Hi. Tim/Mark

Tina's mailbox has problem to receive my email. She asked me to send the answer directly to you.

This is our answer about Mark's question Q#8 (4) and (5). By right now, you should have the revised SAR report from Sunny 10 minutes ago. If you didn't Sunny's revised SAR report, pls let me know immediately. We need to get the grant by tonight.

4) Verify that this device meets the frequency requirements of Section 15.202.

A : Ad-hoc or peer-to-peer modes are not supported operating in the UNII bands.

This NII transmitter is a client-only device without radar detection capability.

<UNII: 5180 – 5240MHz, 5260 – 5320MHz, 5500 – 5700MHz (15 Frequencies)>

This information covered in the letter("8. [GT-P6210] WI-FI channel table")

Please refer to attached file.

5) For client devices that have software configuration control to operate in different modes (active scanning in some and passive scanning in others) in different bands (devices with multiple equipment classes or those that operate on non-DFS frequencies) or modular devices which configure the modes of operations through software, the application must provide software and operations description on how the software and / or hardware is implemented to ensure that proper operations modes can not be modified by end user or an installer.

A: In P2 WiFi model, end user or installer cannot modify the client software and hardware, because our chipset is hard coded(security code).

Should you have any question, please let me know.

Thanks.

BR Jeong Ho

----- Original Message -----

Sender : Tina Chu<tina.chu@CCSEMC.com>

Date : 2011-10-11 05:25 (GMT+09:00)

Title : RE: [Answer of TCB F/B] Re: RE: Re: TCB feedback: URGENT: Samsung 11114021 , deadline:Sat. 10/8 AN11T0756

Hi Mr. Ahn

TCB still have questions come back on the Q#8, see red color. I provided some info before and informed Samsung to provide a letter to address all of the questions last Friday, pls see attached email. Pls provide a letter that can address all 5 questions.

8. Please provide a channel plan for the WiFi operation that details which channels can operate in an ad-hoc mode, which channels support active scanning and which support only passive scanning. Reference KDB 848637 which requires a "Cover Letter Attachment stating that the client software and associated drivers will not initiate any transmission on DFS frequencies. This includes transmissions for beacon ad-hoc peer-to-peer modes."

Letter provided (8 GT-P6210 WI-FI channel table.pdf) also covers item 10 below. The FCC have been asking for the following specific information:

- 1) Submit a channel/frequency plan for this device showing the channels that have active scanning or passive scanning. Active scanning is where the device can transmit a probe (beacon) and passive scanning is where the device is can listen only with no probes. **OK, covered in the letter**
- 2) Verify that this device does not have ad-hoc mode **OK in the letter**
- 3) Can this device act as an access point on the non-DFS legacy frequencies (5.15-5.25 MHz) **OK – in the letter states "No"**
- 4) Verify that this device meets the frequency requirements of Section 15.202 **Need information to cover this aspect**
- 5) For client devices that have software configuration control to operate in different modes (active scanning in some and passive scanning in others) in different bands (devices with multiple equipment classes or those that operate on non-DFS frequencies) or modular devices which configure the modes of operations through software, the application must provide software and operations description on how the software and / or hardware is implemented to ensure that proper operations modes can not be modified by end

user or an installer. **Need information to cover this aspect**

Should you have any further concerns, please let me know.
Thanks.

Regards,
Tina Chu
Account Executive
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Fax: [510-661-0888](tel:510-661-0888)
tina.chu@ccsemc.com

From: 안정호 [mailto:jeongho7.ahn@samsung.com]
Sent: Saturday, October 08, 2011 2:41 AM
To: Tina Chu
Cc: 김덕수; 양성광; 박수진; 권기중; 손재현; 정지훈; 류재종
Subject: [Answer of TCB F/B] Re: RE: Re: TCB feedback: URGENT: Samsung 11114021 , deadline:Sat. 10/8 AN11T0756
Importance: High

Hi. Tina.

This is our answers for question about WiFi model TCB.

Please refer to attached file.

Should you have any question, please let me know.

Thanks.

BR Jeong Ho

----- Original Message -----

Sender : Tina Chu<tina.chu@CCSEMC.com>

Date : 2011-10-08 14:00 (GMT+09:00)

Title : RE: Re: TCB feedback: URGENT: Samsung 11114021 , deadline:Sat. 10/8 AN11T0756

Recvd with thanks. I have forwarded them to TCB reviewer and certifier.

Pls forward the rest of the answers to me. I will check email it in the early morning tomorrow around 7am.

Should you have any further concerns, please let me know.

Thanks.

Regards,
Tina Chu
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tina.chu@ccsemc.com

From: 안정호 [mailto:jeongho7.ahn@samsung.com]
Sent: Friday, October 07, 2011 9:45 PM
To: Tina Chu
Cc: 김덕수; 양성광; 박수진; 권기중; 손재현; 정지훈; 류재종
Subject: Fwd: Re: TCB feedback: URGENT: Samsung 11114021 , deadline:Sat. 10/8 AN11T0756

Hi. Tina.

This is our answer for question about WiFi model TCB.

2. A general purpose block diagram was provided but it does not list the frequency of all oscillators in the device.

Please provide a block diagram showing the frequencies of the clocks, oscillators and rf signals.

=> Please check the Attached File No.2

3. The operational descriptions describes the device as having hot spot capabilities but there is no WWAN interface described.

Please explain.

=> Please check the Attached File No.3_4

4. The operational description does not describe the Bluetooth operation at all. Please provide a description for the Bluetooth interface to include

- Information to understand if the device meets the requirements of 15.247 related to the receiver bandwidth matching the transmitter bandwidth
- Explanation of how the receiver hops synchronously with the transmitter (e.g. shared LO)
- An explanation as to how the hopping sequences meet the requirements of 15.247, i.e. that the sequence is pseudo random.

A general statement explaining that the requirements of (b) and (c) above are met through adherence to the Bluetooth protocol is acceptable.

=> Please check the Attached File No.3_4(70% completed)

I will give the all of answers for review's F/B ASAP.

Please let me know if you have a quastion.

Thanks.

BR Jeong Ho Ahn.

----- Original Message -----

Sender : Tina Chu<tina.chu@CCSEMC.com>

Date : 2011-10-08 12:38 (GMT+09:00)

Title : TCB feedback: URGENT: Samsung 11114021 , deadline:Sat. 10/8 AN11T0756

Hi Mr. Kwon/Mr. Ahn

You might receive the first 5 questions from me few hours ago. I added another 2 questions in red .

1. The label does not appear to have the two part statement required by 15.19. Please explain/justify.

=> 첨부 1, 2 참고하셔서, Label에 문구 추가하여 주십시오.

2. A general purpose block diagram was provided but it does not list the frequency of all oscillators in the device. Please provide a block diagram showing the frequencies of the clocks, oscillators and rf signals.

=> Block diagram에 OSC 주파수 모두 기입하여 주십시오.

3. The operational descriptions describes the device as having hot spot capabilities but there is no WWAN interface described. Please explain.

=> wifi 모델은 Hostpot기능 지원을 하지 않으니, operation description 수정하여 주십시오.

4. The operational description does not describe the Bluetooth operation at all. Please provide a description for the Bluetooth interface to include

- Information to understand if the device meets the requirements of 15.247 related to the receiver bandwidth matching the transmitter bandwidth
- Explanation of how the receiver hops synchronously with the transmitter (e.g. shared LO)
- An explanation as to how the hopping sequences meet the requirements of 15.247, i.e. that the sequence is pseudo random.

A general statement explaining that the requirements of (b) and (c) above are met through adherence to the Bluetooth protocol is acceptable.

=> 첨부 3의 BT문서와 같이 칩셋 동작에 관한 자세한 설명이 필요합니다. (특히 RF의 Tx/Rx path 설명)

5. Is the document *User Manual_20111007_v1 - 07. WIFI_Manual_setting_Guide(GT-P6200).pdf* needed? It looks like instructions for setting the test mode for the system.

=> User manual에 해당내용 추가바랍니다.

8. Please provide a channel plan for the WiFi operation that details which channels can operate in an ad-hoc mode, which channels support active scanning and which support only passive scanning. Reference KDB 848637 which requires a "Cover Letter Attachment stating that the client software and associated drivers will not initiate any transmission on DFS frequencies. This includes transmissions for beacon ad-hoc peer-to-peer modes."

첨부 Word문서는 브로드컴 BCM4330 기준으로 작성되었습니다. 문서 내용 확인 후 P2 WiFi에 맞게 수정하시고, cover letter에 추가하여 주십시오.

10. Please explain how the 802.11an operation meets the requirements in part 15 E to discontinue transmissions in the absence of data to transmit. This could be added to the operational description, provided separately, or included in the response to item 8

첨부 word 문서에 하기 문구가 해당되니, cover letter에 추가하여 주십시오.

"When data transmission is not needed, this device actually shutdown Tx path. So, This device automatically discontinues its transmission in case of either absence of information to transmit or operational failure."

Should you have any further concerns, please let me know.

Thanks.

Regards,
Tina Chu
Account Executive
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Direct: [510-771-1108](tel:510-771-1108)
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Cell: [408-368-7326](tel:408-368-7326)
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tina.chu@ccsemc.com



-----Original Message-----

Sent: "Tina Chu" <tina.chu@CCSEMC.com>

Date: Fri, 7 Oct 2011 23:58:52 -0700

Subject: RE: Re: TCB feedback: URGENT: Samsung 11114021 , deadline:Sat. 10/8 AN11T0756

Pls use Samsung letter head to put the questions in order and add whatever additional questions on #8, #10 that reviewer asked. I am sorry that I am not technical person, but I am sure there will be some overlapping info among #8, #10 and the following 6 questions. Pls make this document general in case you need to use it for other Samsung project.

Pls have the additional/revised documents ready for the P2 TMO and P2 EU at the same time.

1) Submit a channel/frequency plan for this device showing the channels that have active scanning or passive scanning. Active scanning is where the device can transmit a probe (beacon) and passive scanning is where the device is can listen only with no probes.

->advise whether this client/master device supports all 802.11channels for both 20MHz and 40MHz channel bandwidths (etc. 802.11abg, HT20, HT40 channels).

advise whether this device operation in what channel world wide (etc. 2.4GHz channel 1-14, UNII 1, UNII2, UNII 3 bands(etc. ie 5.15-5.35, 5.47-5.725 & 5.725-5.850 GHz) using standard 802.11 channel center frequencies. How Active vs. passive scanning behavior changes (etc. changes dynamically depending on configuration and current operating state of the device? Passive scanning /radar channels is achieved via algorithms implemented in software??

2) Verify that this device does not have ad-hoc.

This device does support ad hoc (ie 802.11 IBSS mode) as well as other peer-to-peer, non-infrastructure mode: WiFi WFA Direct.

3) Verify that this application contains a complete User's Manual and/or Professional Installers Manual. If the manual is not complete, upload an updated User's Manual exhibit.

A complete user's manual was included in the original certification application for this device.

4) Can this device act as an access point on the non-DFS legacy frequencies (5.15-5.25 MHz).

This device can support WiFi direct mode wherein it acts like an access point using non-DFS frequencies.

5) Verify that this device meets the frequency requirements of Section 15.202.

This device meets the frequency requirements of Section 15.202. How? Pls submit a document with it..

6) For client devices that have software configuration control to operate in different modes (active scanning in some and passive scanning in others) in different bands (devices with multiple equipment classes or those that operate on non-DFS frequencies) or modular devices which configure the modes of operations through software, the application must *provide software and operations description* on how the software and / or hardware is implemented to ensure that proper operations modes can not be modified by end user or an installer.

Submit a document to describes how the client software and hardware is implemented to ensure operation cannot be modified by the end user or installer. (sorry, this cannot be sent to you since it is confidential for other client)is this addressed in the previous email that you sent to with the attachment?

Should you have any further concerns, please let me know.

Thanks.

Regards,
Tina Chu
Account Executive

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tina.chu@ccsemc.com

From: Tina Chu
Sent: Friday, October 07, 2011 11:30 PM
To: 'jeongho7.ahn@samsung.com'
Cc: '김덕수'; '양성광'; '박수진'; '권기중'; '손재현'; '정지훈'; '류재중'
Subject: RE: Re: TCB feedback: URGENT: Samsung 11114021 , deadline:Sat. 10/8 AN11T0756

Hi Mr. Ahn

There is reason that why reviewer has #8, #10 due to FCC has audits on a lot of abgn application and constantly asking for the info as follow for master device/client device. You may see that some of the questions as follow is overlapping with TCB reviewer's #8, #10 questions. I will suggest to answers all of the following questions on one letter and including the additional that reviewer asked on #8 and #10.

Let me check if I have any template for the following questions. I will get back to you.

1) Submit a channel/frequency plan for this device showing the channels that have active scanning or passive scanning. Active scanning is where the device can transmit a probe (beacon) and passive scanning is where the device is can listen only with no probes.

[Include answer/attestation for all applications.](#)

2) Verify that this device does not have ad-hoc mode

[If the device does not have ad-hoc mode include attestation.](#)

[If the device has ad-hoc mode, indicate the channels on which ad-hoc mode is available.](#)

3) Verify that this application contains a complete User's Manual and/or Professional Installers Manual. If the manual is not complete, upload an updated User's Manual exhibit.

[Complete User's Manuals and/or Professional Installers Manuals are now required for all Master Devices.](#)

4) Can this device act as an access point on the non-DFS legacy frequencies (5.15-5.25 MHz)

[Include answer/attestation for all applications.](#)

5) Verify that this device meets the frequency requirements of Section 15.202

[Include answer/attestation for all applications.](#)

6) For client devices that have software configuration control to operate in different modes (active scanning in some and passive scanning in others) in different bands (devices with multiple equipment classes or those that operate on non-DFS frequencies) or modular devices which configure the modes of operations through software, the application must provide software and operations description on how the software and / or hardware is implemented to ensure that proper operations modes can not be modified by end user or an installer.

[Include answer/attestation for all applications, or provide attestation that modes of operation cannot be configured through software.](#)

Should you have any further concerns, please let me know.

Thanks.

Regards,
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tina.chu@ccsemc.com

From: Tina Chu
Sent: Friday, October 07, 2011 9:55 PM
To: 'jeongho7.ahn@samsung.com'
Cc: 김덕수; 양성광; 박수진; 권기중; 손재현; 정지훈; 류재중
Subject: RE: Re: TCB feedback: URGENT: Samsung 11114021 , deadline:Sat. 10/8 AN11T0756

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Sent: Friday, October 07, 2011 9:45 PM
To: Tina Chu
Cc: 김덕수; 양성광; 박수진; 권기중; 손제현; 정지훈; 류재중
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Please explain.

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Please let me know if you have a question.

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BR Jeong Ho Ahn.

----- Original Message -----

Sender : Tina Chu<tina.chu@CCSEMC.com>

Date : 2011-10-08 12:38 (GMT+09:00)

Title : TCB feedback: URGENT: Samsung 11114021 , deadline:Sat. 10/8 AN11T0756

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첨부 word 문서에 하기 문구가 해당되니, cover letter에 추가하여 주십시오.

"When data transmission is not needed, this device actually shutdown Tx path. So, This device automatically discontinues its transmission in case of either absence of information to transmit or operational failure."

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Regards,
Tina Chu
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