From:	Mark Rieger
To:	Suresh Kondapalli
Subject:	RE: Pace
Date:	Monday, March 16, 2015 10:40:02 PM
Attachments:	IPW9001-generic-UG-FINAL_DRAFT.pdf AW500 SOFTWARE SECURITY DESCRIPTIONS.pdf

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Please see comments below [MAR]

>>
Host device labeling / integration instruction in the user manual.

See 784748 D01 Labeling Part 15 &18 Guidelines v08.

For a host manufacture's using **a certified modular**, if (1) the module's FCC ID is not visible when installed in the host, or (2) if the host is marketed so that end users do not have straightforward commonly used methods for access to remove the module so that the FCC ID of the module is visible; then an additional permanent label referring to the enclosed module: "Contains Transmitter Module FCC ID: XYZMODEL1" or "Contains FCC ID: XYZMODEL1" must be used. The host OEM user manual must also contain clear instructions on how end users can find and/or access the module and the FCC ID.
>>

[MAR] The module is installed and removed by one simple screw so the end user has straightforward access to the FCC ID as indicated in the user's manual page 10 & 11.

>>>
Do you have any mechanism for the module to recognize the host and Host to recognize the module. You may be required letter to this effect

Please see 996369 D01 Module Equip Auth Guide v01r04

Question 5: Can an applicant obtain a limited modular approval for a transmitter that operates under specific host conditions and is installed by end users?
Answer 5: Yes, for user-installed limited module radios in a host (laptops, etc), a two-way certification authentication protocol or two-way BIOS lock implementation is required to ensure compliance. This ensures the module verifies that the proper laptop is used and the laptop verifies that the proper module is used.
The Grant condition must state: "This device must use a BIOS lock mechanism which ensures that it only operates with the hosts as specified in the Certification filing." This ensures the module verifies that the proper host (laptop) is used, and the host verifies that the proper module is used. For guidance on RF Exposure Considerations, see Section IV above.
Other options to a BIOS lock mechanism may be considered, but must be FCC endorsed prior to an FCC approval
>>>

{MAR] The authentication is documented in Sec 2 - Third-Party Access Control within the SOFTWARE SECURITY REQUIREMENTS FOR U-NII DEVICES attestation.

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Think before you print! Please consider the environment before printing this e-mail.

From: Suresh Kondapalli [mailto:skondapa@us.tuv.com]
Sent: Monday, March 16, 2015 11:56 AM
To: Mark Rieger
Subject: Pace
Importance: High

Mark,

All the test reports and required documents are submitted to TUV TCB.

TCB will have the following questions and ask host label / user manual of the

1) Host device labelling / integration instruction in the user manual. If required you have to issue a letter

   See 784748 D01 Labelling Part 15 &18 Guidelines v08.

For a host manufacture's using a certified modular, if (1) the module's FCC ID is not visible when installed in the host, or (2) if the host is marketed so that end users do not have straightforward commonly used methods for access to remove the module so that the FCC ID of the module is visible; then an additional permanent label referring to the enclosed module: "Contains Transmitter Module FCC ID: XYZMODEL1" or "Contains FCC ID: XYZMODEL1" must be used. The host OEM user manual must also contain clear instructions on how end users can find and/or access the module and the FCC ID.

2) Do you have any mechanism for the module to recognize the host and Host to recognize the module. You may be required letter to this effect

Please see 996369 D01 Module Equip Auth Guide v01r04

Question 5: Can an applicant obtain a limited modular approval for a transmitter that operates under specific host conditions and is installed by end users?

Answer 5: Yes, for user-installed limited module radios in a host (laptops, etc), a two-way certification authentication protocol or two-way BIOS lock implementation is required to ensure compliance. This ensures the module verifies that the proper laptop is used and the laptop verifies that the proper module is used.
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Other options to a BIOS lock mechanism may be considered, but must be FCC endorsed prior to an FCC approval

Thanks,
Suresh

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