



July 12, 2013

Federal Communications Commission  
Authorization and Evaluation Division

Re1) 15.407c requirement information and 2) Chanel 12 and 13 Justification

FCC ID.: Q2GWWG7550A

To whom it may concern,

We have declared below featured for FCC equipment authorization,  
Device FCC ID: Q2GWWG7550A

**1. 15.407c requirement information**

T1 Wifi supplicant code is based on the open source wpa\_supplicant org:  
[http://en.wikipedia.org/wiki/Wpa\\_supplicant](http://en.wikipedia.org/wiki/Wpa_supplicant); we have the handler to deal with those events:

**Client Reason Code...Description...Meaning**

**0...noReasonCode...Normal operation.**

**1...unspecifiedReason...Client associated but no longer authorized.**

**2...previousAuthNotValid...Client associated but not authorized.**

**3...deauthenticationLeaving...The access point went offline, deauthenticating the client.**

**4...disassociationDueToInactivity...Client session timeout exceeded.**

**5...disassociationAPBusy...The access point is busy, performing load balancing, for example.**

**6...class2FrameFromNonAuthStation...Client attempted to transfer data before it was authenticated.**

**7...class2FrameFromNonAssStation...Client attempted to transfer data before it was associated.**

**8...disassociationStaHasLeft...Operating System moved the client to another access point using non-aggressive load balancing.**

**9...staReqAssociationWithoutAuth...Client not authorized yet, still attempting to associate with an access point.**

**99...missingReasonCode...Client momentarily in an unknown state.**

As long as the wifi chip has the disconnection (no matter the STA/AP/P2P role TI played), the wifi chip won't continue to transmission the signal unless the system is configured as triggering background scan another AP / reconnection scenario / roaming.



## 2. 2.4 GHz channel 12 and 13

We have 2 ways for closing the Channel 12/13, one is through the regulatory config, another is through the TQS ini; see the parameter in the ini file: FEM1\_TxPerChannelPowerLimits\_2\_4G\_11b and the FEM1\_TxPerChannelPowerLimits\_2\_4G\_OFDM.

Default config is:

```
FEM1_TxPerChannelPowerLimits_2_4G_11b = 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50
FEM1_TxPerChannelPowerLimits_2_4G_OFDM = 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50
```

By using the following config, the Channel 12/13 will be closed.

```
FEM1_TxPerChannelPowerLimits_2_4G_11b = 50 50 50 50 50 50 50 50 50 50 50 0 0 50
FEM1_TxPerChannelPowerLimits_2_4G_OFDM = 50 50 50 50 50 50 50 50 50 50 50 0 0 50
```

**We will use the configuration where channel 12 and 13 will be closed (not transmit).**

Sincerely,

A handwritten signature in black ink that reads 'David J Ball'.

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David J Ball  
dball@xploretech.com