MOTOROLA SOLUTIONS

Regulatory Engineering

30 August 2011

Federal Communications Commission
Office of Engineering and Technology
Equipment Authorization Division
7345 Oakland Mills Road
Columbia MD 21046

Reply to Correspondence Reference No: 40234 **FCC ID:** UZ7RFS4011

Form 731 Confirmation Number: EA963312

To the Commission:

Question 1
Does this device meet the requirements for operation in the 5400 – 5725 MHz band specified in KDB 443999?

Answer 1
Yes, product complies with KDB 443999 as an indoor only device.

Question 2
Is this an indoor device, outdoor device, or multi-use device? A multi-use device can operate in both indoor and outdoor configurations; such device will have to meet all the requirements for outdoor device.

Answer 2
This product is for indoor application only.

Question 3
Verify that the 5600 – 5650 MHz band is notched. The test report should include 20 dB BW plots for the 5600 and 5650 MHz band edges and an attestation statement that the device does not transmit in the notched band.

Answer 3
The 5600 – 5650 MHz band is disabled by firmware at factory and is not user changeable. 20 dB BW plots and 5600 – 5650 MHz band disabled attestation uploaded.

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Question 4
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.

Answer 4
Revised Installation Guide uploaded.

Question 5
Verify that this device meets the uniform channel spreading requirements on the remaining (non-notched) channels once the device is in operation.

Answer 5
The device selects unused channel through built-in random algorithm, as explained in DFS report page 40. Accordingly, signal should equally spread over the available bandwidth.

Question 6
Explain how this device meets the Software Configuration Control requirements of KDB 594280 including country code selection – see draft KDB at (https://fjallfoss.fcc.gov/eas/comments /GetPublishedDocument.html?id=205&tn=511416). If there is any user permitted configuration control, please explain what controls are provided to the user and if any will take the device out of compliance; also explain what prevents the end user from downloading and operating non-US software. Additional questions for outdoor and multi-use devices:

Answer 6
The US only model of the RFS-4011 has the country code permanently set to the US, which ensures the unit cannot operate out of compliance. The hardware configuration will be uniquely identified by the product part number with will end with "-US" (general release version is "–WR"). This configuration will only operate in the frequency bands and channels allowed under FCC rules.

The user interface will NOT allow configuration of the country parameter as it will be hard-coded to Unite States.

The user will NOT be able to override the hard coding by a software downgrade/upgrade.

Extract from Install Guide

NOTE The US only model (RFS-4011-11110-US) has the country code permanently set to the US. The (RFS-4011-11110-WR) model cannot be configured for use in the US.

Question 7
Submit a Letter Exhibit identify the specific expertise and the training required by the professional installers for installing these types of devices.

Answer 7
See attached Antenna Guide for Installations instructions.

Question 8
Explain how this device can meet the 30 MHz frequency separation from TDWR (i.e.: Manually blocking frequencies by the professional installer, device notches 5470 -5680 MHz, etc.).

Answer 8
The product is for indoor use only and per newest KDB 443999 as of 08/24/2011 this is not applicable to indoor device.

Question 9
Does the manual for the installers and operators contain the information on how to register the device with the voluntary industry data base if operating within 35 km of any TDWR site location?

Answer 9
As explained in above questions, the product under consideration is for indoor use only. The info requested is not applicable to the device.

Respectfully,

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