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Alvarion Ltd  
21A HaBarzel Street  
Tel Aviv 69710 ISRAEL  
Tel: + 972-3-6456262  
Fax: + 972-3-6456290  
www.alvarion.com

## FCC ID: LKT-BULTRA-5

Question #: Since product is for DFS outdoor master application (high gain P2P antenna). This application need to address following questions in a separate document(s).

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

**- Yes; the unit comply with all the requirements covered noted in KDB 443999.**

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.

**- The unit is an outdoor device that complies with outdoor device requirements. .**

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.

**- The unit comply with the restricted band 5600-5650 band.**

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.

**- Manual is updated with the DFS application.**

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

**- The unit comply with the channel spreading requirement.**

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.

**- The user has no ability to download any non-USA software. The user interface does not permit any action on the DFS mechanism or disable the DFS mechanism in any way.**

### **Additional questions for outdoor and multi-use devices:**

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

**- The professional installer should be aware on the FCC rules in the 5GHz band and how to install outdoor unit. All details and instructions on how to install a unit and regulation limitation are written clearly within the user manual.**

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.)

– see below relevant section from user manual.

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?

– See below relevant section for the user manual

### Follow the copy from manual about TDWR

#### 1.3.6.5 TDWR Interference Avoidance

For units installed in the United States using FCC Country Code and operating in the 5470-5600 and 5650-5725 MHz bands, the following guidelines must be followed:  The operating frequency of either a master or a client device installed within 22 miles (35 kilometers) of a Terminal Doppler Weather Radar (TDWR) location shall be separated by at least 30 MHz (center-to-center) from the TDWR operating frequency. For TDWRs location information, refer to FCC KDB 443999 or to

<http://www.spectrumbridge.com/udia/search.aspx>.

The installers and the operators have to register the devices in the Wireless Internet Service Providers Association (WISPA) UNII Device Interference Advisor (UDIA) sponsored database and registry, with the appropriate information regarding the location and operation of the device as well as the installer information. The registration form can be found at

<http://www.spectrumbridge.com/udia/home.aspx>.

Alvarion Ltd.  
21A H'abarzel St.  
Tel-Aviv 69710, Israel  
Tel: +972 3 6456262  
Fax: +972 3 6456222

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Moti Ezra/Certificaiton & Qualification

Alvarion Ltd.

TEL: 972-3-7674-314

FAX: 972-3-6456-222

E-mail: [moti.ezra@alvarion.com](mailto:moti.ezra@alvarion.com)