SkyPilot SkyAccess/SkyConnector U-NII Band Transmit Power Control (TPC)

Procedure

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Overview

SkyAccess DualBand and SkyConnector units (hereafter referred to generically as SkyConnectors) operating in the U-NII bands of 5.25-5.35 GHz and 5.47-5.725 GHz employ a Transmit Power Control (TPC) mechanism which reduces the EIRP below the 30 dBm mean value by 6 dB to comply with the FCC's part 15 requirements. This document illustrates the procedure to comply with this requirement.

Procedure

TPC is achieved by reducing the transmit power out of the 5 GHz radio via software commands. These commands are available at the "shell" console of the device which is accessible via either a wired Ethernet connection or via the wireless interface. In either case a "telnet" session is established and the required commands are then issued.

1. Telnet into the SkyConnector via the Ethernet or wireless access point (AP).

    a. Telnet to "192.168.0.2"

2. Type in the password to access the console:

    Password: **public**

3. Access the shell console:

    > **vxshell**

4. Type in the shell password:

    -> VxWorks Shell Password: ***********

a. Please contact SkyPilot Support for shell access password www.skypilot.com/support/.

5. At the shell prompt type in the following commands to decrease the transmit power by 6 dB for all the mod rates utilized in the SkyConnectors:

<vx> spndPwrSet 6,8

<vx> spndPwrSet 9,8

<vx> spndPwrSet 12,8

<vx> spndPwrSet 18,8

<vx> spndPwrSet 24,8

<vx> spndPwrSet 36,8

<vx> spndPwrSet 48,8

<vx> spndPwrSet 54,8

NOTE These power setting changes take effect immediately upon issuance of the commands.