



**Full Spectrum's Software Defined Radio (SDR) receives FCC Approval in licensed UHF frequencies; enables rapid deployment of utility smart grids and other intelligent networks at lower cost**

MENLO PARK, CA: July 22, 2010: Full Spectrum's "FullMAX Software Defined Radio (SDR)" has received Federal Communications Commission (FCC) type acceptance for use in the licensed UHF / NPCS frequency bands at 901, 930 and 940 MHz. The NPCS frequency band consists of 3 MHz of nationwide spectrum of which approximately 1.5 MHz is held by Space Data Corporation of Chandler, Arizona.

The FullMAX SDR Radio platform, when combined with licensed UHF frequencies, dramatically reduces the infrastructure costs of deploying a wide area smart grid network. "A FullMAX deployment can be 1/20<sup>th</sup> of the infrastructure cost to deploy when compared to unlicensed or microwave networks", according to Stewart Kantor, Full Spectrum's CEO. "Using licensed UHF frequencies with FullMAX is a win - win. Infrastructure costs are substantially lower with much higher network reliability and security."

Full Spectrum is partnering with Space Data Corporation to make spectrum available for lease or purchase by utilities for private wide area networks utilizing the FullMAX end-to-end system. FullMAX is based on the state-of-the-art 4<sup>th</sup> generation Mobile WiMAX standard (802.16e). The system includes the FS1000 Base Station, the MS4000 Mobile Station, the FS4000 Fixed Station and the NMS1000 network management system.

Full Spectrum's Software Defined Radios are designed to work in **any** frequency from 40 MHz to 958 MHz. Previously the company announced the availability of UHF TV channels for private wide area use in major markets in the US including Houston, Phoenix, Tampa, Jacksonville, Nashville and Honolulu.

The FullMAX System creates a secure, private, wide-area, wireless communications layer which facilitates the implementation of mission critical intelligent networks including smart grids, smart fields, smart pipes and smart roads. Full Spectrum's base stations are installed at tower sites throughout the utility company's service territory. Each base station creates an IP cloud up to 20 miles from a tower site. FullMAX remote radios are installed along transmission and distribution lines and connected to capacitor banks, voltage regulators, voltage sensors, Reclosers and switches. This data connectivity enables real time command and control of the electric grid which is necessary for improved efficiencies in the transmission of electricity.

**About Full Spectrum Inc:**

Full Spectrum designs, develops and manufactures licensed broadband wireless equipment for mission critical industries. Full Spectrum's FullMAX™ Broadband Wireless Platform is the first end-to-end private wireless system based on Mobile WiMAX standard (802.16e-2005) for all Sub 1 GHz frequencies. FullMAX offers maximum wide area mobile and fixed wireless coverage with minimal infrastructure with data rates up to 10 Mbps. For more information please visit: [www.fullspectrumnet.com](http://www.fullspectrumnet.com)

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