

## Do You And Your Equipment Have A Failure To Communicate?

DSI RF Systems, Inc., the company broadcasters call upon to deliver real world practical solutions to their audio/video transmission problems, introduces **RF~IPMAX**, a economical, efficient and effective wireless digital transmission solution for reliable program and data transport.

A user-defined full-duplex microwave link for the dynamic transmission of recording studio-grade audio, DVD-quality video and multiple TDM interfaces, **RF~IPMAX** provides wideband IP network interconnectivity. Single links up to 50 miles Line-Of-Sight up to a maximum Average Ethernet Rate of 49 Mbps (reducing the cost of multiple links) and a superior error-correction which enables shorter Non-Line-Of-Sight hops (allowing easier and more reliable installations and a larger coverage area). A dual-format IBOC-friendly IP and multiple T-1 transport stream allows the flexibility of using existing codecs and IP equipment. The system is scaleable for low to high throughputs. This is not a "cookie-cutter" out-of-the-box-and-into-the rack product; every **RF~IPMAX** is tailored to meet your unique requirements. And **RF~IPMAX's** superior system features provide the freedom to monitor and control all aspects of System Operations—using VPN technologies—from anywhere, even a home computer.

What else can **RF~IPMAX** do? A

partial list of **RF~IPMAX's** capabilities include:

- Connectivity for one to eight, full and fractional TDM links and the simultaneous transport of mixed IP and TDM traffic streams

- Operation in the sub-10 GHz spectrum provides superior range and immunity to fading over competing upper band microwave backhaul solutions with minimal rain fade

- High Spectral Efficiency using TDD-3.6 bps/Hz Air Rate, 2.25 bps/Hz net Data Rate so more bandwidth can be delivered to more subscribers using much less spectrum

- Eight modulation and coding schemes from BPSK to 64 QAM adjust to link quality while providing the highest throughput.

Patented Automatic Repeat Request algorithm with advanced forward error correction offers a link availability of 99.999%. A highly secured 64-bit encryption scheme provides enhanced over-the-air security.

Typical system applications include wireless digital STL/TSL main or backup...broadcast/DVD-grade video links...multiple channel inter-city relay...remote ENG...telco...backhaul multiple satellite feeds...support of VOIP,

Wi-Fi and SNMP off-site backup of program automation systems and office business computer systems.

**RF~IPMAX** surpassed expectations at field tests conducted in perhaps two of the most RF-saturated environments in the United States—The Empire State Building and 4 Times Square in New York City.

**"...the quality is heads and tails over the telco loops."**

**Steve Pepe  
Broadcast Consultant WMSC**

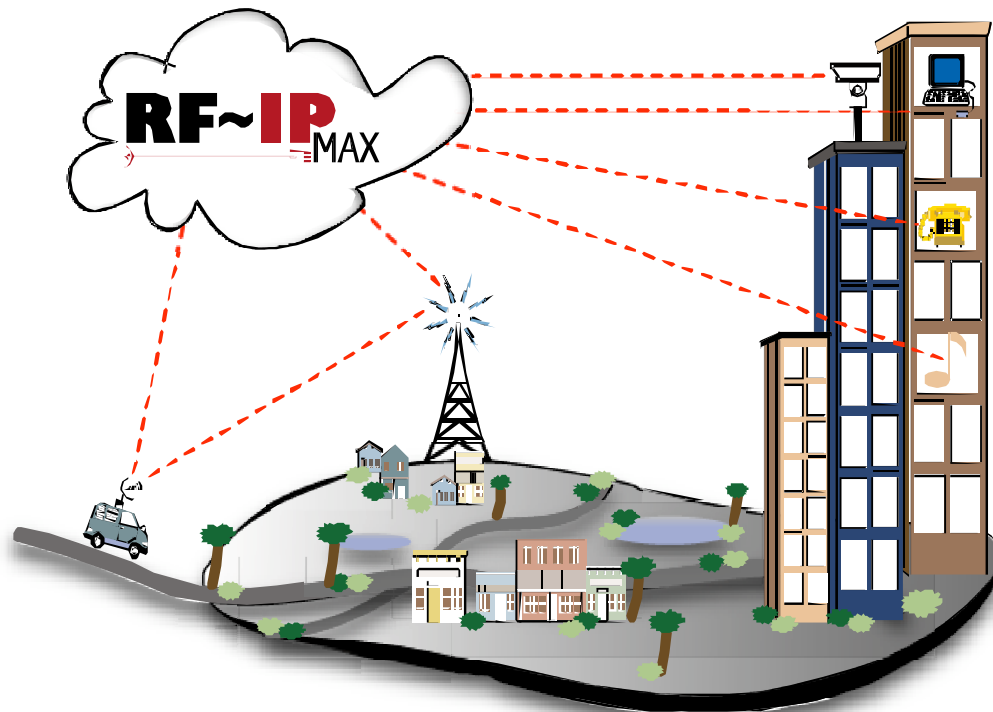
Conrad Trautmann, Senior Vice President of Engineering and Technology for

Westwood One, purchased two systems. One for Metro Networks Chicago, where the existing analog microwave path was producing a downgraded signal (poor images and interference) on three video channels. **RF~IPMAX** provided three DVD/broadcast-grade MPEG 2 video streams and a fourth channel was also installed for future expansion. The second system was purchased by Metro Networks New York for a single video link from DSI's TMS-2300 Traffic and Weather Camera system in Lower Manhattan.

At Montclair State University in New Jersey, **RF~IPMAX** has replaced common carrier program lines, eliminating monthly recurring charges as well as maintenance/jurisdiction concerns.

What can **RF~IPMAX** do for your operation? Almost anything!

**Not Just A Box – The Solution**



**RF~IP  
MAX**

- Data
- VPN
- Video
- VOIP
- ENG
- Inter-City Relays

**DSI**

RF Systems, Inc.  
26H World's Fair Drive  
Somerset, NJ 08873  
www.dsirf.com  
732-563-1144