



## Case Study

# MetroBridge Networks Corporation

**“One of the best features of the Exalt EX-5i is its Tri-Band support in the 5 GHz band.”**

MetroBridge Networks Corporation ([www.metrobridge.com](http://www.metrobridge.com)) is a leading international fixed wireless service provider that delivers broadband wireless access. Its highly redundant network provides access at data rates up to 2500 Mbps in Canada and the United States. MetroBridge’s aggressive growth strategy contemplates acquisitions throughout North America, along with additional complementary products and services. The Company operates in all market segments including public safety, financial, retail and business.

### The Challenge

The MetroBridge trademark—Beyond Broadband™—says it all: reliability is of paramount importance when provisioning business-class services. To fulfill this commitment to its customers, the company has constructed a fully redundant, multi-homed network that delivers an average uptime of greater than 99.999%. Achieving five nines of reliability with wireless networks is no small feat either. The equipment itself must be reliable, of course, and operate in harsh environments. But the feature set must also mitigate against persistent problems caused by atmospheric conditions and radio frequency interference that often plague most wireless solutions. “Our customers depend on us to run their businesses, so we need to be able to depend 100% on our vendors,” explains Olivier Gervais-Harreman, Senior Wireless Engineer at MetroBridge.

### The Solution

After investigating available wireless solutions capable of providing in excess of 100 Mbps capacity, Gervais-Harreman decided to put Exalt’s EX-5i 200Mbps + 4xT1/E1 Wireless Backhaul Microwave Radio to the test. According to Gervais-Harreman, “I really liked the feature set; it’s exceptionally thorough. And the system is also very easy to configure.”

The Exalt EX-5i systems were deployed in Vancouver, British Columbia where MetroBridge is headquartered. The deployment went exactly as planned, and the installation has been operating dependably ever since. “The equipment is working out so well, that we just placed an order for several additional systems to support expansion of the network,” says Gervais-Harreman.

**“The Exalt product tested perfectly during our evaluation. We are especially impressed with the system’s flexibility and quality of operation.”**

Olivier Gervais-Harreman,  
Senior Wireless Engineer at MetroBridge





## Why Exalt?

- All indoor Tri-Band 5 GHz carrier class solution
- Over 200 Mbps user capacity
- Native TDM and native Ethernet support
- Range greater than 30 miles
- 128 and 256 AES Encryption

The feature set of the Exalt EX-5i is ideal for MetroBridge's wireless backhaul needs: a 5 GHz tri-band system operating in the 5.25-5.35 GHz, 5.47-5.725 GHz and 5.725-5.850 GHz bands, with 200 Mbps user-throughput in a software-defined, carrier-class system with high spectral efficiency, security and unprecedented spectrum management flexibility. EX-5i solution provides up to 54 non-overlapping channels, with 1 MHz tuning capability across all three 5 GHz bands, resulting in a choice of up to 415 center frequencies of operation with no hardware changes required for retuning. As an additional benefit, the EX-5i provides 8, 16, 32 and 64 MHz channel bandwidth to help maximize band usability and throughput.

The Exalt EX-5i fully satisfies MetroBridge's need for high reliability with its operating temperature range of -40° to +65° C and ability to deliver 99.999% uptime throughput at distances greater than 30 miles (50 kilometers). In addition, ExaltSync™ makes it possible for MetroBridge to mount radios and antennas in close proximity and frequency without self-interference.

These features combine to make the EX-5i the only solution available capable of delivering the high-capacity, long-range and carrier class performance needed for high-density centralized backhaul. Gervais-Harremann likes the EX-5i so much, that he is now planning to use it for client access: "The same reliability, flexibility and quality of operation that make the EX-5i ideal for backhaul also make it suitable as a very high speed last mile access solution."

Learn how Exalt is leading the next generation of wireless backhaul. Visit [www.exaltcom.com](http://www.exaltcom.com) for more information on products, solutions and benefits from Exalt Communications, or contact an Exalt sales representative.