



Case Study

Orleans County New York

“Exalt has given us a carrier-grade solution, and that is exactly what is needed in a public safety application.”

Orleans County (www.orleansny.com) has a population of over 44,000 people and covers an area of 396 square miles on the southern shore of Lake Ontario in western New York. Given such a vast coverage area with limited resources, the County needed a flexible and dependable backhaul solution for their radio communications system. The office also wanted access to resources on the County’s Ethernet LAN, which would also provide faster Internet access than the current satellite system.

The Challenge

Orlean’s County required a solution that could provide integrated voice and high speed data services to interconnect their central dispatch and Emergency Management Office and Radio System Backbone and logging recorder facilities. The County had been using a satellite based solution with very limited data throughput. Reliability of leased lines provided a limited option for this application. Planned expansion of County facilities crossed LATA boundaries and would require leasing capacity from 2 separate carriers. The environment was also a consideration, as this area of New York is afflicted by heavy storms and demanded an all-indoor solution.

The Solution

Exalt’s EX-4.9i Licensed Multi-Service Wireless Backhaul system proved to be everything Orleans County needed—and more. The EX-4.9i is an all-indoor, carrier-grade solution utilizing the 4.9 GHz FCC public safety band. The EX-4.9i provides up to 55 Mbps of Ethernet capacity plus four T1/E1 interfaces to enable PBX or trunk line interconnectivity. As a multi-service platform, the EX-4.9i also gives Orlean’s County a flexible and seamless migration path from legacy TDM to native IP-based services.

to assist with the implementation.” Exalt’s support for native TDM and native Ethernet eliminated all interoperability problems, and the increase in Ethernet bandwidth now enables the staff to access the Internet concurrently, which was not possible before with the satellite system.

“With Exalt we have control of our network within and across LATA boundaries, providing the best communications tool to ensure the safety of our community.”

Peter Stritzinger,
Radio Systems Manager for Orleans County

“With Exalt, we experienced none of the problems we had to endure in the past,” Stritzinger claims. “Exalt even came on site





Why Exalt?

- All indoor 4.9 GHz carrier class solution
- Native TDM and native Ethernet
- Highest capacity available – 55 Mbps
- ExaltSync™ synchronization technology
- Built in spectrum analyzer

According to Stritzinger, “There’s a lot to like about the Exalt solution.” Among the many valued features are the flexible and native support for multiple services, the powerful spectrum management capabilities, the built-in spectrum analyzer and performance monitor, and an intuitive graphical user interface. The available licensed spectrum can be partitioned for maximum efficiency into 10 and 20 MHz channels, with up to 5 being non-overlapping. The available bandwidth can also be configured asymmetrically to further optimize throughput.

Exalt is able to deliver 99.999% availability at distances of 10 miles or more in the most adverse environmental and path conditions—just what Orleans County required.

The EX-4.9i will also give Orleans County tremendous flexibility during a planned expansion, where up to six new sites will require wireless backhaul, as well as during the planned

migration to Voice over IP (VoIP). And should more capacity be required, the cost-effective entry-level system operating at 27 Mbps for Ethernet and 2xT1/E1, can be upgraded to an industry leading 55 Mbps and 4xT1/E1 connectivity.

To learn more about how Exalt Communications is leading the next generation of wireless backhaul, please visit www.exaltcom.com for detailed information on Exalt’s products, solutions and benefits, or contact an Exalt sales representative.



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