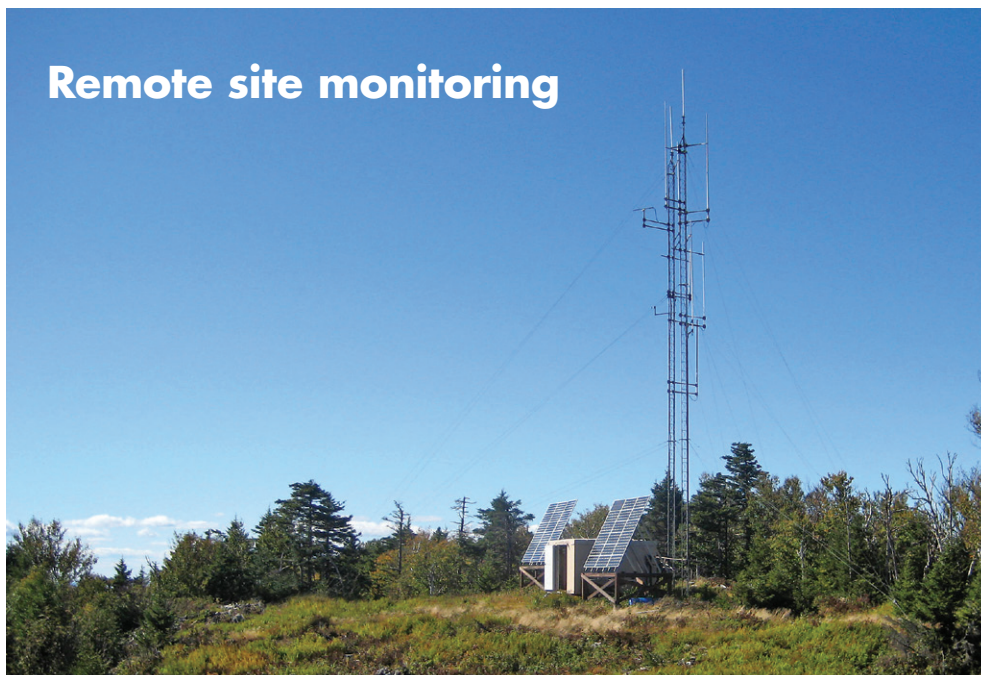# siteCOMMANDER (FFSK/4 wire) running siteVIEW Enterprise 2.0

Remote site monitoring

Service Manager: *"In the past when the batteries would get low from 4-6 days of minimal sunlight we would have no way of knowing the batteries were low until the actual repeaters stopped working."*

A successful full service 2–way radio dealer in the heart of New Hampshire called on TASC Systems to provide the monitoring solution for their mountain top solar powered tower site. The objective was to reduce the number of needless trips to the site.

Ossipee Mountain Electronics customers' include a sheriff's department, Mutual Fire Aid, Electric COOP, and several companies ranging from oil delivery, to construction and landscaping. The communication network for these organizations are critical to their business operations, requiring the system to be operational 24 hours a day, 7 days a week.

In order to propose the best site monitoring solution a project profile was developed to collect the critical information. This information included backhaul options, devices being monitored, interface between the devices and site monitoring module as well as future requirements. The key drivers were low current consumption and the use of a Motorola MOTOTRBO™ radio for backhauling the data.

The mountain top site consisted of an enclosure with 10 repeaters,

80 batteries and a power management system. Outside are propane tanks, solar grids and a generator. *"Until we implemented monitoring of the battery voltage, and generator status, we had no way of knowing when the repeaters were down until the radio was keyed"* says Aaron Tilton, Service Manager for Ossipee Mountain Electronics. *"In addition, we can now determine the propane level based on generator run time from the comfort of the office."*

siteVIEW Enterprise 2.0 software consists of the graphical user interface used to monitor and control the network of siteCOMMANDER's. *"When there is a problem, an alarm condition can be set, alerting me of the situation. Armed with this data I'm able to take a proactive approach to troubleshooting the problem area,"* explains Aaron.
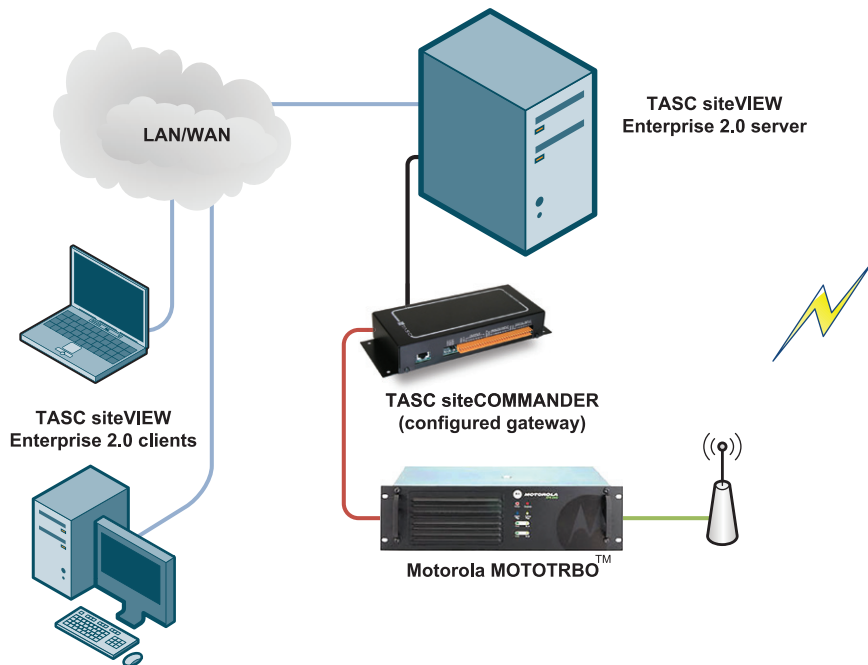
"Every trip made to the site required two technicians, two four wheel ATV's, a van and a day's labor. This site is an eight mile ride by ATV. Now we can check the status of the site without sending someone from our facility. If we do need to send technicians, they are well armed with the items needed to get it running," says Aaron.

Ossipee Mountain Electronics is very pleased with the performance of the TASC system and they have plans to add more TASC site monitoring modules to their own sites and their customer sites.
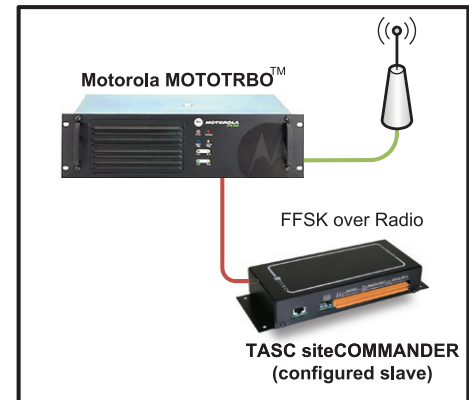
TASC : Remote site monitoring – FFSK over radio

siteVIEW Enterprise 2.0 provides the back-end database and management point for all system messaging.

Incoming alarms, status & control messages are fed into the siteVIEW Enterprise 2.0. Client workstations make TCP/IP connections to the siteVIEW Enterprise 2.0 in order to view the system in a user friendly graphic interface.

Motorola MOTOTRBO™

LAN/WAN

TASC siteVIEW Enterprise 2.0 server

FFSK over Radio

TASC siteCOMMANDER (configured slave)

TASC siteVIEW Enterprise 2.0 clients

TASC siteCOMMANDER (configured gateway)

Motorola MOTOTRBO™

Possible Alarm Points to Monitor

Battery Voltages

Generator Run Time

Temperature

Propane Fuel Consumption

siteVIEW Enterprise 2.0 scales to suit the architecture of the application. It can grow from a single server environment to a multi-tier client-server setup.

TASC Systems Inc. is continuously working to improve system performance and expand product capabilities. Specifications are subject to change without notice.
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