

Using Wireless Diversity to Manage Cell Site Access

In today's competitive environment, proactive cell site monitoring is critical for service providers to maximize network availability to obtain and maintain customers. It is also imperative to minimize operating costs. At the same time, network complexity is growing, and technicians need tools to enable them to manage more sites.

Service providers have installed the Kentrox secure wireless management solution for cell site management, including accessing sites when the primary site is down using neighboring cell sites. Using secure, encrypted wireless backhaul, the Kentrox solution including Remote and CrossPATH gives the service provider a 360 degree view of the network using the customer's own data network to provide access into a site for monitoring equipment.

Kentrox Remote is a monitoring and control device that provides IP management connectivity to remote sites. It is designed for deployment in a broad range of operating environments and will meet network security requirements. Remote performs protocol mediation and interface conversion, collects alarms, and monitors data.

CrossPATH resides at the cell site to monitor and manage T1 and T3 backhaul circuits and offers extensive remote monitoring, diagnostic tools, reports, and alarms to help identify, isolate, and repair backhaul circuit problems without an expensive truck roll.

Customer application example

In September 2008, a Network Operations Center (NOC) at a Tier 1 service provider received an alarm notification that a cell site was down and unable to process any calls. The NOC notified the on-call cell technician for that area of the problem.

The technician used his laptop, logged in to the corporate intranet, and remotely accessed the down cell site using the Kentrox secure wireless management solution. This was possible because the wireless management architecture includes the installation of a wireless broadband antenna external to the cell site hut. By having the antenna mounted outside, the modem was able to connect to a neighboring cell site, providing access to communicate with the down site.

Once connected with the cell site, the technician logged into CrossPATH, and through the real-time T1 signal level monitoring reports, could see that all T1 circuits from the local exchange server were down. He contacted the local exchange carrier and reported the trouble (in this case, a cut fiber) and was able to



Remote RMX-3200



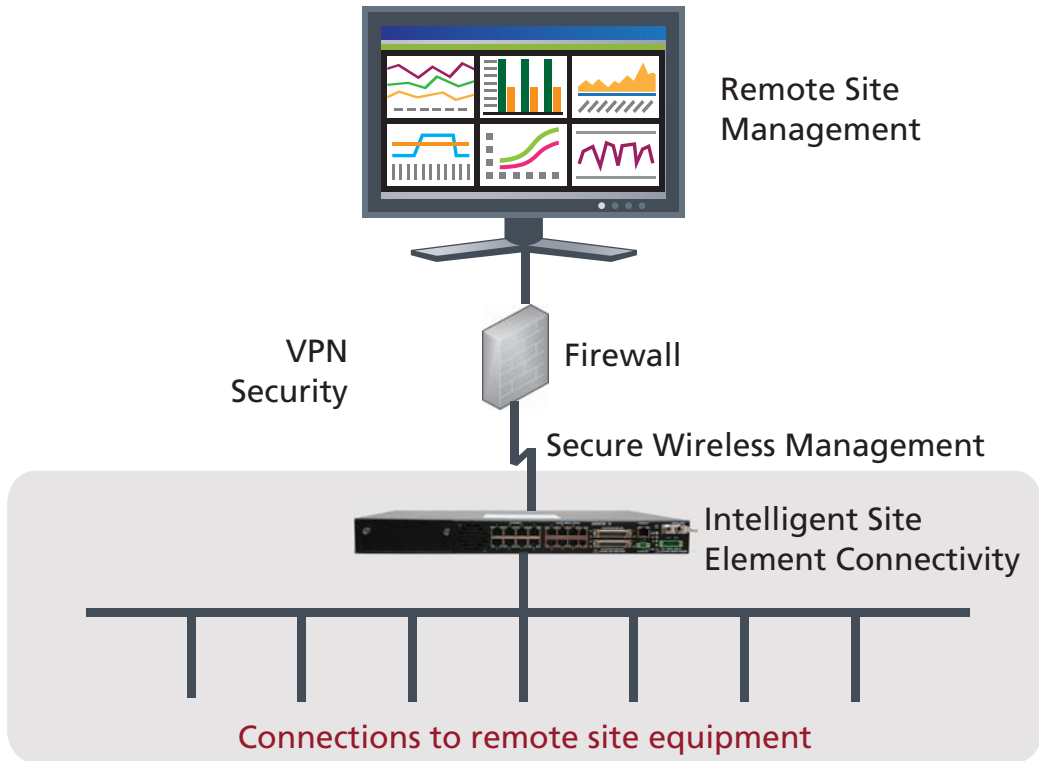
CrossPATH 4

Benefits of Wireless Diversity

- Remotely access sites when primary site is down using neighboring cell sites
- Provides complete view of the network using the customer's own data network
- Diagnose and fix problems without driving to the site
- Improved repair time, reduce number of customers affected, eliminate unnecessary truck rolls

get service restored without the need to drive to the affected cell site, eliminating an unnecessary truck roll.

The secure wireless management solution enabled the service provider to remotely access the down site using an adjacent cell site, diagnose the problem, and get the problem resolved... without driving to the site. This improved the repair time, reducing the number of customer affected, while eliminating an unnecessary truck roll.



Manage remote sites with secure, efficient, and resilient wireless access over an IP network.

For more information, visit www.kentrox.com, email info@kentrox.com, or call 800-733-5511 (US), +1 614-798-2000 (outside US).