

Uplogix provides the industry's first local management solution, putting the power of your most trusted IT administrator everywhere, all the time.



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KEY BENEFITS

- ▶ Cuts support costs by improving network availability and reducing remote site visits
- ▶ Reduces points of failure in remote systems by managing and recovering both SCADA and backhaul devices like PSTN, radio links and VSAT
- ▶ Decreases risk by constant enforcement of encryption, authentication and auditing

KEY FEATURES

- ▶ Provides secure access and constant connectivity to remote network and communications devices including SCADA
- ▶ Local monitoring and automated recovery actions for fewer site visits
- ▶ Offers a secure out-of-band communications and management path when the primary network path is unavailable
- ▶ Ensures security by encrypting access and all communications, as well as authenticates users and enforces authorization controls to all managed devices

SCADA Management Challenges

All SCADA users face common problems, regardless of industry. The first major issue is the remoteness of equipment. Distribution sites for pump and compressor stations are often chosen because of their distance from highly populated urban areas, and production locations are based on where the energy resources are.

Uplogix Local Management solutions reduce the cost, complexity and risk of managing remote, SCADA-based networks.

Due to their remoteness, the basic infrastructure supporting the location is often less than desirable. Power is often interrupted, leaving the operator of a SCADA network wondering if a problem was caused by a power failure or malfunction of a SCADA device. A field technician usually has to drive to the site and evaluate the problem. Extremely remote sites, such as those in mountain ranges, are only accessible during seasonal windows, and may require a helicopter ride to reach the site, which can be an extremely costly and sometimes risky proposition.

The Security Problem

Many older SCADA systems were not designed with information security in mind. Most of the older SCADA systems will still transmit both data and control commands in unencrypted clear text. This allows potential attackers to intercept and issue unauthorized commands to critical control equipment. Furthermore, the lack of authentication in the overall SCADA architecture means that attackers with physical access to the network can gain a foothold to launch a denial-of-service attack or worse, which can lead to disruption and safety concerns.

As more SCADA systems move toward the integration with IP-based networks, the notion that SCADA networks are closed systems is no longer true. Recent advances, such as web-based reporting and remote operator access, have driven the requirement to interface with the Internet. This opens up physical access over the public network and subjects SCADA systems to the same potential malicious threats as those corporate networks face on a regular basis.

Local Management from Uplogix

Uplogix Local Management solutions address the unique challenges of managing a SCADA environment. Uplogix Local Managers (LMs) collocate with SCADA devices and network equipment to provide local access, enforcement and control, minimizing time-consuming, expensive and risky tech support trips to remote locations to troubleshoot and fix routine network problems. From the Uplogix Control Center, administrators can centrally monitor and manage all network devices and SCADA systems connected to the Uplogix LM via an easy-to-use, web-based interface.

Key Benefits

► Cuts remote site support costs by serving as an on-site virtual IT administrator

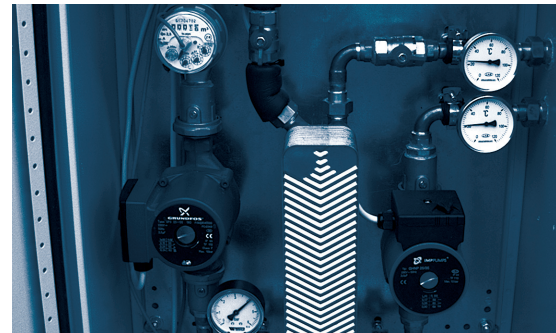
Uplogix solutions ensure that access to SCADA devices and monitoring data is always available via both secure in-band and out-of-band connectivity, which significantly reduces the time and cost of finding and fixing problems. Uplogix LMs can remotely cycle power to a failing or non-responsive SCADA device, without requiring an on-site visit or manual intervention to reboot the device. The end result is less tech support trips to remote locations, resulting in significant cost savings and increased uptime.

► Reduces points of failure in remote systems by managing and recovering both SCADA and backhaul devices with the security of an out-of-band connection

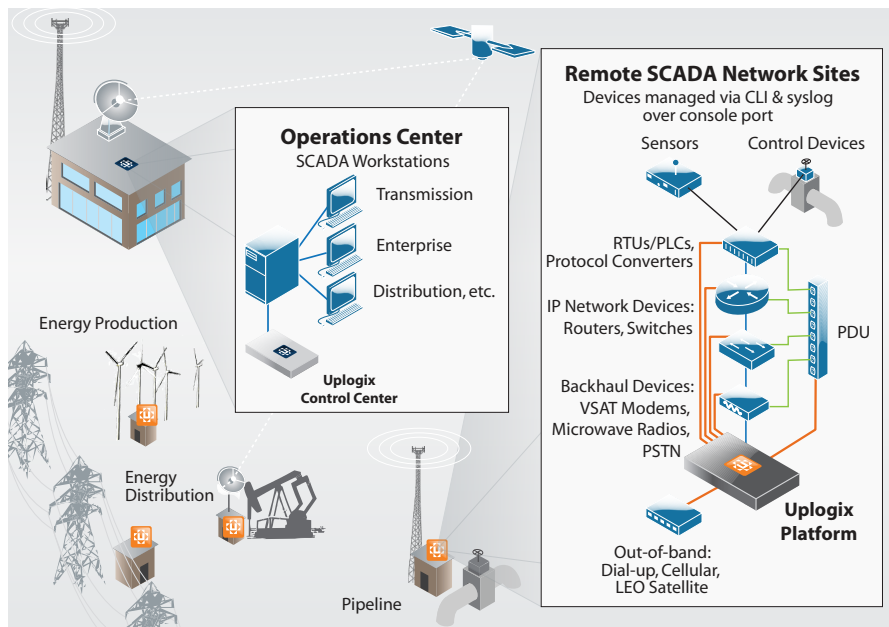
Remote systems rely on all devices to function properly -- both the data gathering and reporting devices in the SCADA system AND the backhaul devices (including PSTN, radio and VSAT) that transmit data back to a control center. Uplogix appliances provide a single, integrated platform and management interface for monitoring and managing SCADA, RS-232 or IP-enabled devices. When the primary communications path is not available, the Uplogix appliance can call out using a dial-up, cellular or satellite connection, so you will always have management access to remote sites.

► Decreases the risks of supporting remote sites by constantly enforcing management security policies

Uplogix solutions enforce user access, authorization, and authentication privileges inside the firewall even when primary network connection is unavailable. All user access and changes made to SCADA and other managed devices are logged and reported to satisfy security and compliance requirements. Additionally, by being able to constantly monitor, report and reboot (when necessary) remote SCADA equipment, Uplogix reduces the risk of having to send support staff to remote, sometimes dangerous areas.



Uplogix Local Managers collocate with SCADA devices, networking and communications equipment to provide local access, enforcement and control, minimizing time-consuming, expensive and risky tech support trips to remote locations to troubleshoot and fix routine network problems.



Uplogix manages SCADA, traditional IP network, and communications devices at remote sites.

ABOUT UPLOGIX // Uplogix provides the industry's first local management solution. Our co-located management platform automates routine administration, maintenance and recovery tasks—securely and regardless of network availability. In comparison, traditional network and systems management depends on the network, uses multiple tools, and remains labor intensive. Uplogix puts the power of your most trusted IT administrator everywhere, all the time.

Uplogix is privately held and headquartered in Austin, Texas with international offices in London and Monterrey. For more information, please visit www.uplogix.com.

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