

Platform Options

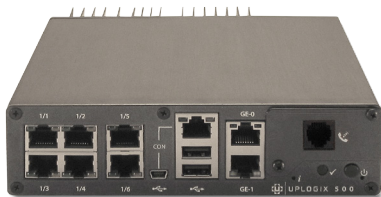
The power of Uplogix is that it combines a local directly-connected hardware platform called a Local Manager with Local Management Software built to take full advantage of this platform. Uplogix provides an array of Local Manager options to meet customer needs.

Uplogix Hardware



Uplogix 5000 Local Manager

Available in models that can manage 6, 14, or 22 devices including a managed power supply. The Uplogix 5000 is a scalable and robust local management platform for enterprises that need to manage an ever-growing infrastructure of distributed networking gear, servers and other IT devices located at remote sites, branch locations and data centers.

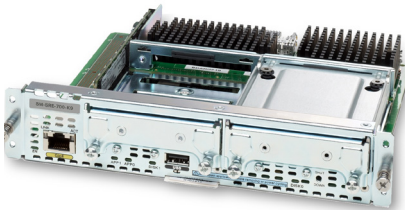


Uplogix 500 Local Manager

A full featured, compact and cost effective Local Manager capable of managing six network devices including a managed power supply. It is ideal for branch offices and remote applications where space is at a premium.

Uplogix on Cisco UCS Express

Uplogix on Cisco UCS Express is an ideal solution for customers that have standardized on Cisco hardware or that have already purchased extensible Cisco Integrated Services Routers and wish to gain the benefits of local management with a minimal hardware investment.



Uplogix uses the Cisco Unified Computing System Express as a hosting environment to embed on Cisco ISRs, making the router a full featured Uplogix Local Manager. The ISR is configured with HWIC serial port cards to allow serial port connections to up to 48 managed devices. An HWIC wireless modem is used for out-of-band access.

Platform Requirements

Uplogix is supported on the following Cisco SRE Modules and Cisco ISR G2 combinations:

Part Number	Supported Cisco ISR G2 Models				
	2911	2921	2951	3925	3945
SM-SRE-710-K9	✓	✓	✓	✓	✓
SM-SRE-910-K9	✓	✓	✓	✓	✓

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. For more information, please visit www.uplogix.com.



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Uplogix Local Management

Uplogix is the first Local Management Platform, located with and directly connected to managed networking and communications devices, enabling IT Operations Departments to:

- ▶ Lower operational expenses
- ▶ Improve infrastructure performance and availability
- ▶ Address significant existing security and regulatory compliance vulnerabilities

With Uplogix, these goals are accomplished even while making challenging operational transitions to new computing models such as Cloud and Virtualized Computing and while exploiting services such as SaaS, VoIP and TelePresence, all of which greatly increase network sensitivity and dependence.

When systems are operating normally

Uplogix provides an array of Local Management Services that augment centralized management:

Configuration Management

- ▶ Reliable automated upgrades & changes to network devices with built-in automated actions (e.g. Push OS, Pull Config) to reduce human error
- ▶ Detailed configuration change logging for network devices and connected servers
- ▶ Centralized enterprise-wide reporting based on configuration parameters and actions

Security & Compliance

- ▶ Highly configurable and fine grained role-based administrative access with flexible password rules, multi-factor authentication and TACACS and RADIUS integration
- ▶ Complete activity logging including system prompts and responses
- ▶ Serial port session management including rule-based closing of ports

Performance & Availability

- ▶ Rapid detection of issues via off-network monitoring for frequent sampling without performance degradation
- ▶ Detailed monitoring and logging for trending and improved visibility. Explicit Service Level Verification of user experienced Internet, Network and VoIP performance.
- ▶ Integration with centralized systems management consoles

When problems arise

Uplogix provides Local Management Services that expedite rapid resolution and maintain security whether or not the network is available, including:

Configuration Management

- ▶ Uplogix SurgicalRollback™ automatically rolls back production configuration changes to prior or golden configuration if not explicitly committed in response to management system query (e.g. if technician loses connectivity as a result of a change) or if initiated centrally or by a rule
- ▶ Local storage of OS and configuration files provides access to 20 previous known valid configurations (network OS and configuration files) with change differencing and a built in TFTP/FTP server

Security & Compliance

- ▶ Maintains role-based management access control even when the network is unavailable. Flexible password rules including cached last good and “break glass.”
- ▶ Stores all interactions and keystrokes including managed device system prompts and responses

Performance & Availability

- ▶ Sophisticated secure rules engine takes automated actions to recover network and/or address device faults, performing complex task sequences that normally require an on-site technician
- ▶ More detailed monitoring and logging, plus the ability to view trends prior to—and immediately following—issues occurring facilitates diagnosis and rapid resolution. Maintains rolling 2MB log of all console port traffic, detecting, storing and forwarding properly formatted syslog messages.
- ▶ Secure out-of-band connection automatically established to provide immediate centralized visibility and control. Uses an SSHv2 connection with cipher specification (allowed & preferred) and IP filtering.

Uplogix Makes Solutions Stronger

The Uplogix platform provides direct access and control of a managed device, bypassing the functionality of a network management software to automate configuration and management admin.

Since Uplogix is a direct connection to managed devices it manages configuration changes even when the network is down. It provides an out-of-band connection to NSM tools.

System alarms, events, and performance data can be pushed to management systems from the Uplogix platform via SNMP messages. This data can be used to determine if a problem came from the managed device or the network.

UPLOGIX REDUCES OPERATIONAL EXPENSES

- ▶ Administrators are provided with consistent management interfaces in heterogeneous environments reducing the need for device-specific expertise
- ▶ Network device software upgrades and changes can be reliably automated with Uplogix' network independent implementation and SurgicalRollback™ features
- ▶ Automated problem responses eliminate much manual effort
- ▶ Common maintenance activities can be reliably automated including configuration changes and password resets
- ▶ Secure out-of-band access reduces the frequency of expensive site visits
- ▶ Detailed activity and change logging dramatically reduces the risk of regulatory compliance violations resulting in costly audits

UPLOGIX IMPROVES PERFORMANCE

- ▶ Performance and availability can be monitored intensively without degrading network performance because Uplogix connects directly to managed devices for faster problem detection and fine grained trending for diagnosis
- ▶ Uplogix Service Level Verification (SLV) monitors the performance of critical network services and applications from an end-user's perspective including TCP/IP communications, web-based transactions and voice over IP telephony.

your NSM ranger

form combines the access
console server with the
network management
to automate the actions of an IT

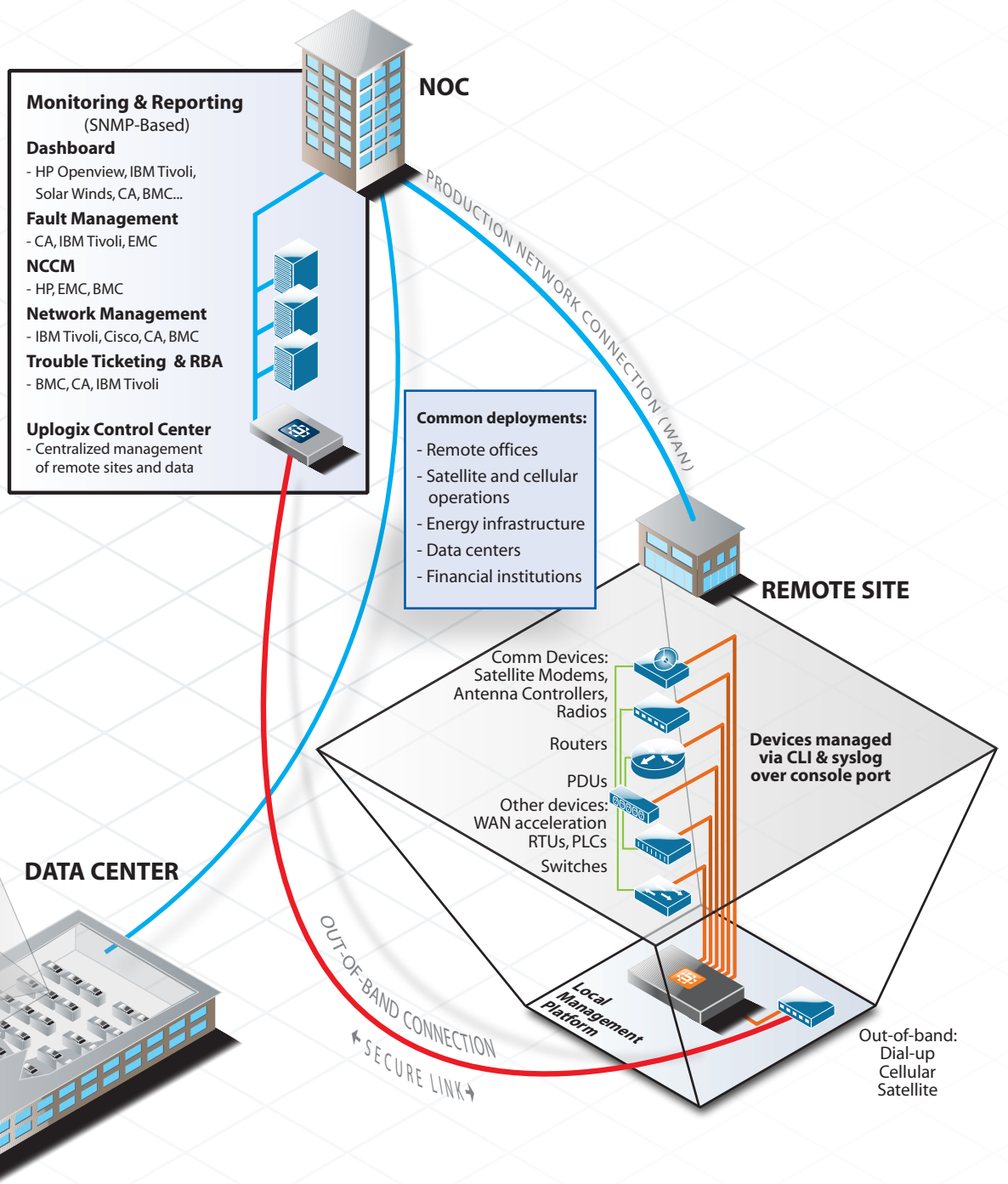
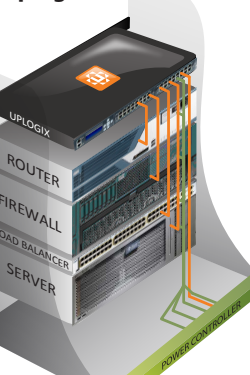
directly connected to the
ranger, monitoring continues
if network is down. An
connection delivers informa-
s in the NOC.

events and device perfor-
be forwarded to NMS
The Uplogix Control Center
ages that appear as if they
managed device itself.

Connection Type:

- Production Network
- Console
- Power
- Out-of-band

Uplogix in the Rack



ES SERVICE LEVELS

- ▶ Quickly and automatically initiate appropriate actions to resolve issues impacting service including detailed diagnosis, setting changes, configuration updates or rollbacks and even reboots and power cycles
- ▶ Gain immediate, highly secure, network independent access to all managed devices when human intervention is required and connectivity to a site is lost

UPLOGIX INCREASES SECURITY AND MAINTAINS REGULATORY COMPLIANCE

- ▶ Apply administrative security standards to network management by extending role-based systems management policies to network devices
- ▶ Eliminate critical vulnerabilities created by console port access for management by applying rule-based policies to ensure sessions are properly closed eliminating the likelihood of inappropriate access
- ▶ Maintain administrative security policies and audit when network connectivity is lost. Eliminate the need for unaudited access to managed devices using "break glass" passwords with sweeping privileges. Audit extends to all actions including warning dialogs and administrator responses.