



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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What Makes Uplogix Different

Uplogix is a network independent management platform that is located with - and directly connected to - managed devices. It can stand alone or augment your existing centralized management tools providing the configuration, performance and security management automation functions that are best performed locally.

The benefits are reduced operational costs, faster resolution when issues arise and improved security and compliance vs. centralized only management. An enhanced focus on network devices readies your management systems for the transition to the production use of more network sensitive cloud and virtual infrastructure technologies.

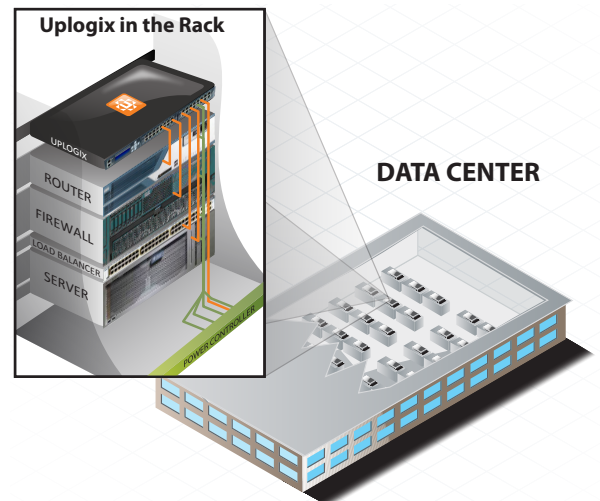
Improving server monitoring, access, and automation with local management

In addition to the solutions that local management brings to network infrastructure devices, Uplogix has a number of features for management automation of servers.

The benefits are reduced operational costs, faster resolution when issues arise and improved security and compliance vs. centralized-only management.

Some of the key functionality for servers includes:

- ▶ **Secure Access** | Provides secure access to remote devices with web-only management interfaces or no console port without requiring additional overhead to manage, leaving no need to consume an additional switch port, maintain VLANs or manage user access for more devices. Uplogix also integrates with TACACS+ and RADIUS for remote authentication.
- ▶ **Service Processor Automation Using IPMI** | Provides users with the ability to manage, diagnose and recover servers, even if the OS has hung or the server is powered down.
- ▶ **KVM over Service Processor** | Allows IT administrators to gain local access and control to a remote server (i.e. provisioning, monitoring, troubleshooting, restricting access) via a local desktop without having to deploy external KVM appliances, functioning independently of the server's operating system or primary network connection utilizing an automated out-of-band connection.



Direct connection over Ethernet and/or Serial Cables

Uplogix gives you the option of connecting to servers over Ethernet, Serial or both. These different connections provide unique functionality for managing the server locally.

Ethernet Connection

Connecting to the server over Ethernet allows Uplogix to monitor through the service processor. This gives Uplogix the ability to remotely monitor, manage, diagnose and recover servers, even if operating system has hung or the server is powered down.

Connecting to the service processor over IPMI, Uplogix has a range of server management capabilities:

- ▶ Monitoring of logs, events, baseboard statistics (for example, environmental data for temperature and humidity to be used to trending and root cause analysis)
- ▶ Take actions such as power on/off, and power cycle

One key aspect to Uplogix Local Management is secure remote access. For servers, Uplogix provides KVM (keyboard video mouse) over service processor. This gives administrators local access and control (in- or out-of-band) for hands-on provisioning, monitoring, and troubleshooting. Since it's over the service processor, access is independent of the server's OS and network connection.

Remote Web Access (RWA) capability offers secure access to remote devices with web-only management interfaces. This avoids putting additional management overhead on the server (i.e. switch port, VLAN, user access). Uplogix connects to remote web servers and exports the web pages to the administrator's desktop through a secure shell session (SSHv2), and integrates with remote authentication mechanisms such as TACACS+ and RADIUS.

Serial Connection

Using a serial port to connect to a server gives additional functionality for Uplogix using Linux console or Windows EMS including:

- ▶ **Monitoring** | Kernel logs, chassis performance statistics (like memory and CPU usage)
- ▶ **Active management** | Uplogix can take actions like alert, power cycle, one-line commands, and session management operations like logging out idle sessions
- ▶ **Raw buffer** | Activity is collected locally in a 2 MB buffer
- ▶ **Audit and Compliance** | Uplogix logs all changes made by users and the results of these changes. This information is saved locally and then transmitted to a central location for analysis and long-term storage. Logging, recording and reporting are unaffected by the state of the network—Uplogix continues to satisfy compliance requirements even during any network downtime.

Uplogix Compatibility

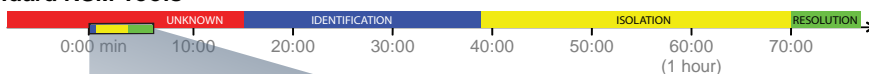
Local Management from Uplogix is compatible with servers from Sun, HP, Dell and IBM running Linux, Solaris and Windows 2003 operating systems.

Example of Uplogix Local Management for Servers

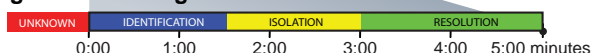
The Problem Today

Detection, notification, prioritization and remediation can take over an hour for even small server issues like a full temp file. In this example, traditional NMS detects a previously unknown problem within 10-15 minutes of the event. Over the next few minutes trouble tickets are opened and Ops is notified of the problem. The problem is identified, but the system administrator response depends on priorities. The admin isolates and resolves the problem over the next 30 minutes or so by logging into the affected system, cleaning up files, and finally closing out the trouble ticket. Even a basic server issue could last over an hour and require a trained professional.

Standard NSM Tools



Uplogix Local Management



The Solution: Local Management

With Uplogix, the full temp file is detected within 30 seconds with local monitoring and is verified over a few more polling periods. Uplogix is then able to perform cleanup actions (like removing old files, running scripts, etc.) and verify that the problem is solved. Finally the alarm is automatically cleared through the NMS. If the problem is not solved, Uplogix can notify the NMS and forward specific server status information.



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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