



DSI5100 Appliance

IPMI enables internal power management, easing control of devices for IT administrators

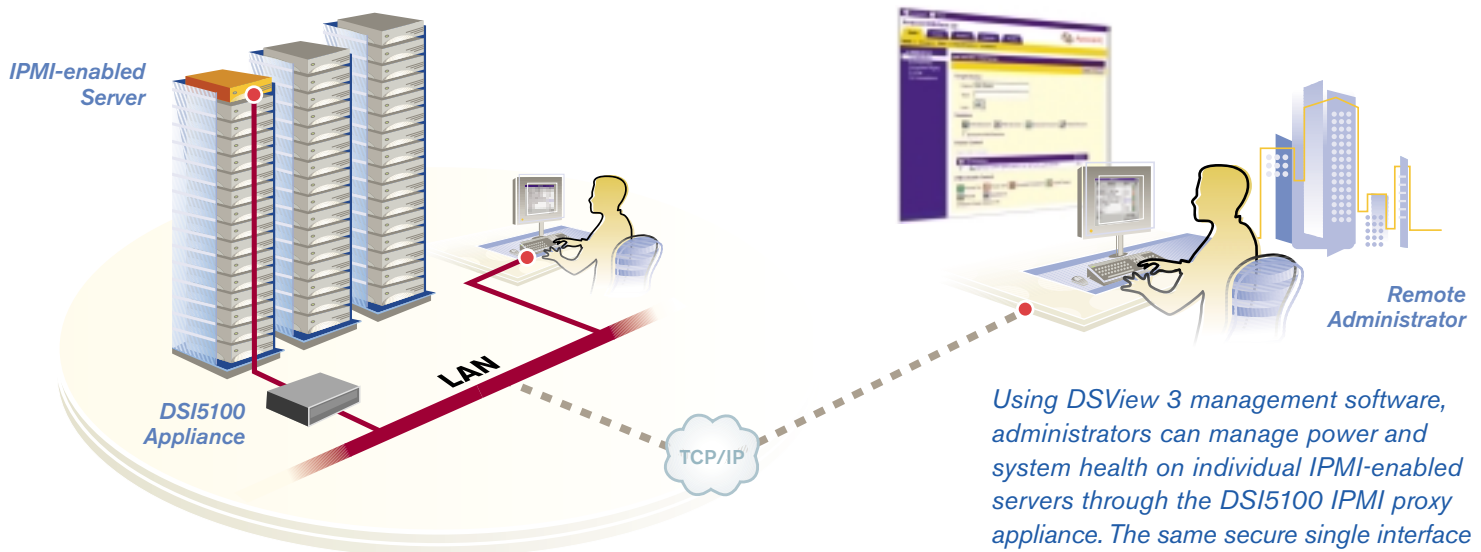
The Avocent® DSI5100 IPMI proxy appliance provides the means for IT administrators to monitor and control server power management and system health, including temperature, fan and voltage – all without installing new tools. Power management is a significant benefit to accessing the Intelligent Platform Management Interface (IPMI) – industry-leading OSA technology Avocent has licensed and embedded in servers for remote out-of-band access to sensors on target devices. With power management now internal on IPMI-enabled servers comes the confidence of knowing exactly which server needs attention. Plus the need for purchasing external power management is eliminated, providing potential cost-savings. Using the DSI5100 appliance to access IPMI, IT administrators can signal the device for an intelligent power shutdown instead of a hard shutdown. Because IPMI data is stored on a stand-alone processor independent of the OS, BIOS and CPU, IT administrators can use IPMI even when the operating system is unresponsive.

The DSI5100 appliance is managed by DSView® 3 management software to provide a browser-based interface for secure management of IPMI data. With out-of-band remote access, the DSI5100 IPMI proxy appliance is another way Avocent helps IT administrators avoid costly on-site service calls and improve access to business-critical devices.

DSI5100 BENEFITS

- Accesses power control without the need for a managed power unit
- Securely proxies IPMI data from UDP to TCP data stream for routing to a user console through a firewall
- Provides single interface to access and control all appliances through the centralized DSView 3 management software
- One interface connects and manages IPMI data, KVM, serial and external-managed power connections
- IPMI provides access to a system event log for checking the operational status of target devices
- Supports multi-vendor server environments
- Click and connect access and control for up to 64 target devices

Typical DSI5100 Environment



Using DSView 3 management software, administrators can manage power and system health on individual IPMI-enabled servers through the DSI5100 IPMI proxy appliance. The same secure single interface is used to manage KVM, serial and external power devices.



Q: Why do I need to access IPMI?

A: IPMI is an embedded management specification that allows you to monitor and control power and system hardware health independent of the operating system, BIOS or CPU. Internal power management eliminates the need for purchasing external power management.

Q: I can access IPMI data today. Why do I need DSView®3 software?

A: You may be able to monitor IPMI data, but DSView 3 software lets you act on those alerts. You manage, reboot or power cycle down servers, completely to the BIOS level.

Q: Why do I need a DSI5100 proxy appliance to access IPMI?

A: The DSI5100 IPMI proxy appliance provides several key control features for accessing IPMI information. For example, it can convert UDP into secure TCP for routing information from the managed device to the user console. The DSI5100 appliance uses DSView 3 management software to authenticate users before access to IPMI information is granted.

Q: What can be monitored and controlled through IPMI?

A: In addition to internal power management, you can monitor system hardware and sensors (temperature, voltage, fan, etc.), control system components (power supplies, blades, etc.), log important system events (chassis intrusion, system reset, etc.), and remotely manage and recover failed systems, all independent of the operating system, BIOS or CPU.

Q: What is a good use of IPMI?

A: Power control is now internal, eliminating the need for relying on an external power control product. Plus, multiple power supplies can be handled through one IPMI connection.

Q: How can IPMI be used for disaster recovery and prevention?

A: IPMI maintains an inventory of components and their operational status and logs events to note malfunctions. If the log shows a server is overheating or the voltage is high or low, you can power off or reboot remotely before the device fails.

Q: How can I use IPMI when the operating system fails?

A: The management interface runs on a baseboard management controller, or processor, separate from the main processor. It functions as a stand-alone subsystem, independent of the OS, the BIOS and the CPU. IPMI provides a method of communicating with that independent processor at any time. DSView 3 software provides a way to manage the server even if the operating system is down or not responding.

Q: How many target devices can one DSI5100 appliance manage?

A: Each DSI5100 appliance can address up to 64 target devices.

Q: Is IPMI a replacement for existing management technologies?

A: No, it is a complementary technology. It broadens the management capabilities of your entire IT infrastructure, centralizing control of all of your data. You can use the same secure interface to manage IPMI, KVM, serial and external power connections with DSView 3 software.