



The Power Behind Red Hat

Being a leading developer and provider of open source software and services is a big challenge. But when your company's name is Red Hat and you are a driving force behind the most rapidly growing server operating system (OS), you can't leave anything to chance. This is especially true for servers, network infrastructure and telephone systems, the communication links between both your key personnel and your customers. That's why Red Hat is aggressively implementing a strategy to insure that these critical elements never go down.

Red Hat's Linux server OS delivers tremendous horsepower and reliability for the most demanding enterprise and Internet applications. These applications can be found running in businesses worldwide. Red Hat Linux continues to expand on Linux's greatest strengths: a powerful server OS with completely open source code and the flexibility to choose features and processors and to alter the system to meet an organization's unique computing needs.

But just providing a great software product is not enough. For Red Hat, the difference is the technical support. The company offers a complete range of technical support options through fax, e-mail and telephone. The telephone support packages range from per incident offerings to full-blown, 24x7 unlimited support.

So for Red Hat's customers the support must be available anytime and all the time. To accomplish this, Red Hat's seasoned staff implemented an infrastructure based on a carefully designed network and telephone system. Crucial to the successful operation of the equipment is the availability of clean, reliable power.

Because Red Hat is located in the Research Triangle Park area of North Carolina, a region prone to thunderstorms and hurricanes, an uninterruptible power system (UPS) was needed. After researching competitive systems, the company selected a Powerware 9315 UPS from Powerware Corporation. The 50 kVA UPS supports all of the critical elements for both development and technical support including all servers, networking equipment, mass storage devices and telephone switch as well as the security system.

The Powerware 9315 is a sophisticated UPS designed and built for mission-critical applications. The online system totally isolates the load from the incoming utility power, so, not only is the supported equipment powered in the event of a complete loss of utility power, but it's also

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POWERWARE
POWERING THE WORLD

protected from potentially disastrous consequences of spikes, sags and brownout conditions. It features industry-leading reliability that results from a state-of-the-art design and low component count with only four printed circuit boards (PCBs). By using software instead of hardware for much of the functionality and other innovative techniques, Powerware's engineering team easily surpassed competing UPSs that can have 17 or more PCBs. By minimizing PCB count the chances of failure are greatly reduced.

The Powerware 9315 has a rich set of features for power management, monitoring and control. Battery management is easy with DC Expert® patented technology. DC Expert provides battery run time indication, automatic battery tests and the information necessary to forecast battery problems.

The configuration includes a direct network connection for the UPS through a ConnectUPS®. ConnectUPS products, which are available for Ethernet and Token Ring networks, provide network connectivity for UPSs for monitoring and control purposes. The ConnectUPS also provides the ability to generate alerts based on alarm conditions in the UPS. The alerts can be sent to any designated node on the network and can be viewed using PowerVision®, and OnliNet®, power management software products or leading network management software packages.

For the Red Hat configuration, PowerVision power management software was selected. The software has sophisticated alarm management and notification capabilities. In Red Hat's case, the software is used to page the system administration staff based on particular alarm conditions to allow personnel to quickly respond with appropriate action. The software also includes powerful data archiving and analysis tools accessible through an intuitive graphical user interface. This feature aids in the timely analysis of chronic power problems.

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For organizations choosing a Linux based environment, it is reassuring that Red Hat has put the infrastructure and programs in place to provide the highest levels of technical support.

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The Powerware 9315-50 is a sophisticated UPS designed and built for mission-critical applications.

