



Changing the Face of System Recovery with Hardware Independent and Unattended Restore Capabilities

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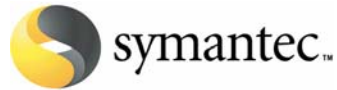
In a perfect world, system crashes and disasters would be nonexistent. Servers would always run smoothly and bug fixes, patches, service packs and software updates would be a thing of the past. Human error would be eliminated and disasters of any sort would only be found by watching historical documentaries on TV or in the movies.

Unfortunately, in the real world adequate backup and disaster recovery measures have become mission critical. Not only does IT need the ability to effectively recover systems—it needs the ability to recover *quickly*. The time in which administrators have to patch systems is shorter than ever due to a diminishing vulnerability-to-exploit window. Meanwhile, the pressure to release new products and services in an effort to remain competitive in the market place causes an increasing number of severe and easy-to-exploit vulnerabilities by many software vendors. In such an environment, IT administrators must be able to restore critical systems in minutes—not the hours it usually takes to manually rebuild servers and workstations.

Never before has the challenge to be competitive placed so much pressure on the IT department. And let's be very clear about the nature of that challenge: IT must support the business goals of the enterprise by ensuring the safety and accessibility of its information assets. Anything that disrupts that safety and accessibility creates downtime, and downtime costs organizations money. When disruptions do occur, the IT department must get the enterprise restarted, and restored to the "last good" state as rapidly as possible, without risk of repeating the same failure.

IT administrators need a solution that will help them keep their business up, running, and growing, no matter what happens. Symantec's answer to this challenge is Symantec LiveState Recovery 6.0. The latest version of Symantec's LiveState family of Windows server and desktop management solutions provides all of this plus the flexibility administrators need to stay productive and competitive.

Symantec LiveState Recovery Suite 6.0, available for both servers and desktops/laptops, combines the speed and reliability of disk-based, bare metal system recovery with new features allowing IT to restore Windows systems anytime, from anywhere, to virtually any device.



Restore Anywhere to Virtually Any Device

It's safe to say that most IT administrators don't have clones of their servers or desktops boxed up and ready for use in the event of a system failure. And even if they did, it would be very costly and inefficient to do so. Instead, they're forced to improvise and make do with what's available. LiveState Recovery's Restore Anywhere Option allows IT to recover any Windows server or desktop to any other Windows server or desktop, independent of hardware configuration. By eliminating the need to purchase identical hardware, administrators can restore more quickly and effortlessly, and can easily migrate or move Windows servers and desktops.

LiveState Recovery 6.0 also takes this a step further by providing virtual conversion tools allowing IT to convert recovery points between real and VMware compatible virtual environments and vice versa. Consider the possibilities. An organization experiencing a system failure can restore an IBM server to a Dell server, a Dell to an HP blade server, a desktop to laptop, or to a virtual environment and back to a physical environment again.

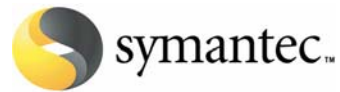
The Need for Unattended Restore Capabilities

IDC has characterized today's IT environment as "a large, distributed, and complex infrastructure of servers, desktops, and laptops [that are] constantly changing to stay current with the needs of fiercely competitive businesses." Whether it's a bank, hotel chain, shipping company, or retail store, organizations often have employees or locations hundreds of miles away from the IT department. A system failure could cost an organization thousands of dollars in travel and productivity losses.

Symantec LiveState Recovery's LightsOut Restore Option eliminates the need for in-person visits to perform a full bare metal recovery thus saving organizations time and money. Here's how it works: an IT administrator uses the LightsOut Restore Option to install the recovery disk to the hard drive of each server. If a server must be recovered, due to a failed installation, virus, or other failure, a message is sent to the system's Baseboard Management Controller, available with many servers, to boot the server remotely. The administrator can then boot to the on-disk recovery environment and perform a full system restore remotely using the built in pcAnywhere thin host for connectivity.

Disk-to-Disk-to-Tape

For the most effective and complete backup strategy, organizations should leverage both tape-based and disk-based solutions. Disk-based backups provide flexible and immediate access for use on an everyday basis, without having to shut down servers and take a company off line. Once saved on a disk, it is then wise to replicate disk backups to tape where companies can store them for a long period of time.



Symantec's management console, LiveState Recovery Manager, now integrates with Symantec Backup Exec, allowing administrators to create Backup Exec jobs in LiveState Recovery Manager to protect system recovery points and move them to tape for storage offsite in a secure location. This allows for easy implementation of disk-to-disk-to-tape processes for secondary or offsite protection of recovery points.

Designed for disk, both LiveState Recovery and Backup Exec enable you to leverage the benefits of rapid and reliable system and data recovery, while also offering the additional benefits that disk-to-disk-to-tape protection deliver.

Conclusion

According to Infonetics Research, large companies lose up to 16% of their annual revenue due to unplanned network downtime. Similarly, in a recent survey commissioned by Symantec, 30 percent of respondents indicated their company incurs *at least* \$10,000 in productivity and revenue losses after suffering a server failure. The good news is that with an effective disaster recovery plan, organizations can eliminate most of these losses by ensuring that systems are always available and unfailingly trustworthy. Symantec LiveState Recovery 6.0 provides organizations with flexibility and interoperability for a more simplified and automated process of preparing for system failures in today's imperfect world.