



**STORAGECRAFT**<sup>™</sup>  
Technology Corporation

***Leading the Way to Safer Computing***

## **PRODUCT SCENARIOS**

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## **Introduction**

### **Fast and reliable online backup and bare metal recovery for Windows servers**

ShadowProtect™ Server Edition creates an exact point-in-time backup of your entire server or specific volumes with zero downtime. ShadowProtect provides scheduling of full or incremental online backups. ShadowProtect's backup images are compressed and encrypted for the most efficient and secure backup available. ShadowProtect provides a simple view to restore individual files or folders or update your backup images. Save backups to any disk device including network drives, SAN, NAS, iSCSI, SCSI, USB or FireWire.

ShadowProtect provides complete bare metal recovery and ExactState™ backup using the ShadowProtect Recovery Environment. ExactState backup provides a pristine volume(s) for imaging and ensures the system is in the most reliable state for backup. Combine ExactState backup with the online backup features of ShadowProtect for the best combination of cold state and online server backup. The ShadowProtect Recovery Environment allows remote server recovery in the case of a disaster.

### **ShadowProtect Server Edition provides the following advantages:**

- Create live server backups with zero downtime.
- Backup only changed data for minimal storage consumption.
- Backup image consolidation for simple management.
- Schedule full or incremental backups. • Recover your servers remotely.
- Mount backup files for simple file and folder recovery.
- Update your backup files.
- Bare metal server recovery in minutes.

## **ShadowProtect™ Server Edition Scenarios**

### **ShadowProtect Server Use Case 1 – Bare Metal Recovery**

Servers need to be online and available 24X7 in today's global economy. In the case of a server disaster causing downtime, it can be very costly to the company. The Server needs to be restored in the quickest and most reliable way, and with the least amount of downtime.

#### **Desired Solution**

Restore the entire system as quickly as possible. Completely avoid reinstalling the operating system which is too costly.

### **How can ShadowProtect Server Help?**

Using the ShadowProtect Recovery Environment, IT administrators can restore the entire system

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in minutes. There is no need to create recovery media since ShadowProtect provides a bootable recovery CD. Using the speed of the disk, the restore is much faster than restoring from tape. The server is restored to exactly the way it was.

### **ShadowProtect Server Use Case 2 – Live Server Backup**

When taking server backups, IT administrators cannot afford to bring the server down while it is backed up. Disk imaging combined with intelligent snapshot technology gives IT administrators the ability to take backups while the server is running and without interrupting users, applications, or server processes.

#### **Desired Solution**

Get a reliable backup of the server any time during the day or night and without causing any downtime.

#### **How can ShadowProtect Server Help?**

ShadowProtect allows IT administrators to take live backups of their servers without causing any downtime. ShadowProtect takes an image including the operating system, critical data and configuration settings for that server. ShadowProtect also allows the IT administrator to set a schedule for the server to be automatically backed up with no intervention.

### **ShadowProtect Server Use Case 3 – ExactState™ Backup Image**

Many companies make daily backups but still feel they need to have a backup of their servers when everything is closed to ensure the likelihood of their backup is recoverable. Some companies take their servers down at off peak times and take an image of their servers. This can take a lot of time and be very costly for the company, but the IT administrator feels confident in the case of a disaster, the server can be recovered with this “perfect” backup.

#### **Desired Solution**

IT administrators want the most reliable and recoverable backup possible but do not want the extended downtime associated with these offline backup methods.

#### **How can ShadowProtect Server Help?**

ShadowProtect Server provides the ability to take an ExactState backup image for the most reliable backup available and with the least amount of downtime. ShadowProtect takes a snapshot during the boot process and before any volume is online. Once the server is up and running, this snapshot is available to be imaged. This ExactState backup image allows IT administrators the best of both worlds; the most reliable backup and the least amount of downtime.

### **ShadowProtect Server Use Case 4 – Individual File and Folder Restore**

Restoring individual files and folders from tape can be a disaster. It takes a lot of time to locate the tape media if it is not onsite, and often times the backup was never successful. Most restores that occur in the enterprise are files and folders users accidentally deleted or overwrote. This process needs to be simple and fast so end users can be productive.

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## **Desired Solution**

Restore individual files and folders in the least amount of time possible. This process needs to be extremely easy and in some cases it would be even better if the end user could select what files and folders they need and recover them without any intervention from an IT administrator.

## **How can ShadowProtect Server Help?**

ShadowProtect Server allows the IT administrator to mount backup images and assign the image a drive letter. Since the backups are disk based, the process is very fast and easy and uses Windows Explorer which end users are used to. The IT administrator can mount a backup image and share this with an end user who can select the files and folders they need to restore.

## **ShadowProtect Server Use Case 5 – Update an Existing Image**

Many backup imaging products in the market today allow images to be taken and then mounted for easy access. The problem is these images are read-only files. Often times IT administrators need to update a single driver or an existing backup contains a virus which needs to be cleaned before restoring. Since the images are read-only, they must clean the virus or make the update, and then take another image before they restore. This method is not efficient and can cost money and time.

## **Desired Solution**

IT administrators want the ability to update an existing image file. The backup image files should be read-write and not just read-only images.

## **How can ShadowProtect Server Help?**

ShadowProtect Server creates images that can be mounted as read-only or read-write. In the case of a virus, the virus can be cleaned and the image file updated before restoring that image file to a server. Another example is to mount an image file for an end user who has lost some data. The user can use this mounted volume and work as normal. The changes made to that volume can be written to that backup image as an update.

## **ShadowProtect Server Use Case 6 – Create Full and Incremental Backups**

IT administrators need the ability to take full backups and more importantly incremental backups to save time and space. Many solutions use a file based approach which means if a file is changed after a full backup has been taken, that entire file will be backed up in the incremental. Sector based incremental backup is the quickest and most efficient way to take an incremental backup.

## **Desired Solution**

Once a full backup has been taken, IT administrators would like to take incremental backups from that point forward until the next full backup. The incremental backups must be fast and take up the least amount of disk space.

## **How can ShadowProtect Server Help?**

ShadowProtect Server incremental backups are sector based. This allows backup of just the pieces of a sector that have changed to be backup up and not the entire file. For example, if a user made a change to a Word document that was 4MB in size, with other file based backup products, the entire 4MB file would be backed up. With ShadowProtect and sector tracking, just the changed sectors would be backed up and not the entire file.

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## **StorageCraft Technology Corp. – Leading the Way to Safer Computing**

StorageCraft provides innovative security, disaster recovery and data protection solutions for servers and PCs. StorageCraft delivers software products that reduce downtime, improve security and stability for systems and data and lower the total cost of ownership for servers, PCs and laptops. [www.storagecraft.com](http://www.storagecraft.com)

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