



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

*Leading the Way to Safer Computing*

**SHADOWPROTECT**<sup>TM</sup>

## **COMPETITIVE ADVANTAGES**

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## **ShadowProtect Desktop Edition Overview**

ShadowProtect Desktop Edition supports Windows 2000 Professional, XP Home and XP Professional. This version provides automatic online backup for desktops and laptops while you work. ShadowProtect Desktop Edition provides a simple view to restore files and folders from an existing backup image file. The StorageCraft Recovery Environment CD provides the ability to recover systems, even from bare-metal in minutes.

## **ShadowProtect Server Edition Overview**

ShadowProtect Server Edition supports Windows 2000 Server / Advanced Server and Windows Server 2003 Standard / Web / Enterprise. This version provides automatic online backup for Windows servers. The StorageCraft Recovery Environment CD provides the ability to recover entire systems, even from bare-metal in minutes rather than hours. The StorageCraft Recovery Environment also provides cold state backup, remote control features and network configuration tools to save or restore backups to any attached storage device such as USB, Firewire, NAS, SAN or any network location.

ShadowProtect solutions protect your entire system including:

- The Windows operating system
- Applications
- Configuration and personal settings
- Critical data
- Utility partitions

ShadowProtect has the ability to restore your system to exactly the way it was prior to a system failure.

## **Competitive Advantages**

### **Integrated ShadowProtect Management Console**

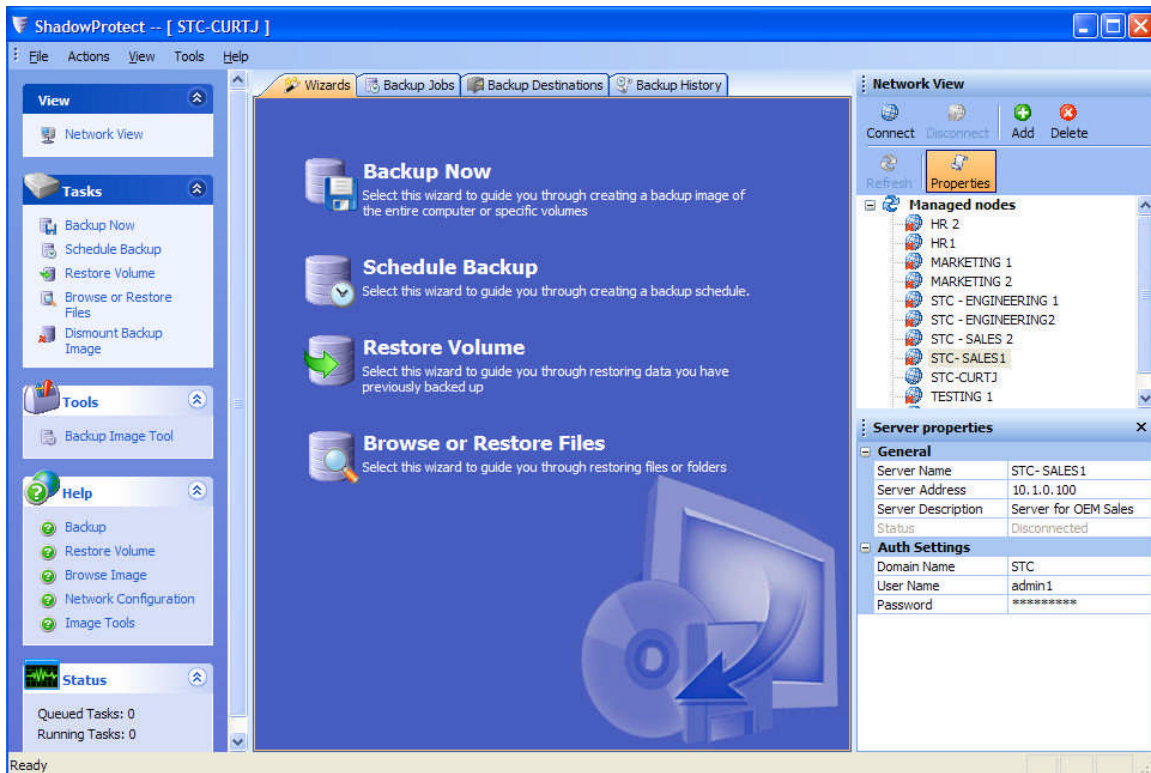
ShadowProtect's user interface features a network view, which allows users to remotely manage ShadowProtect agents that are installed on other desktops and servers and are accessible on a local area network or through a virtual private network (VPN). Using the network view and connecting to a remote node on the network, all the features and functionality of ShadowProtect are available to the remote user.

With the network view exposed, you can do the following:

- Connect to a node
- Disconnect a node
- Add a node
- Delete a node
- Review the properties of a node

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**Figure 1 – ShadowProtect User Interface**

The ShadowProtect interface provides easy-to-use wizards for automatic online backup and simple restore of files, folders or an entire system. The integrated network view provides remote management of all ShadowProtect agents.

## **Volume Snapshot Manager and Sector Tracking – Incremental Backup**

ShadowProtect Server and Desktop Edition's unique volume snapshot technology tracks sector level changes from one scheduled point-in-time backup to the next. This provides a very fast and efficient method for backup because the incremental backup consists of only the sector changes that have taken place between point-in-times. These point-in-time backup files can be compressed and encrypted to minimize storage consumption and maximize security. Incremental backups can be consolidated to simplify backup image management.

## **Online Server and Desktop Point-In-Time Backup**

StorageCraft's backup engine can create online point-in-time backup image files of any or all of volumes on a system. These backup image files can be saved in a compressed and/or password encrypted format. Full or incremental point-in-time backups can be scheduled for automatic system protection as often as every minute. Server downtime is completely eliminated and the backup window is no longer a problem since you can take backups anytime of the day or night.

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## **Active Backup Image Files**

ShadowProtect backup image files are mountable as drive letters or mount points, both for read-only or read-write access. This flexibility allows scanning, sharing, updating or even working from a backup image file. They can also be shared as a network share for file and folder restore by the end user.

Because a mounted backup file looks just like the original volume, end users can quickly use Windows Explorer to search, find and recover files. When the backup image file is mounted as read-only, files can be copied from the backup image file without the ability to change the original back image file. File and folder restores become a simple drag and drop operation.

## **Writable Backup Image Files**

ShadowProtect is the only online backup and disaster recovery product that offers a writeable backup image. There are some clear advantages in having a writeable backup image file:

1. When mounted as a volume, administrators can run standard applications against the backup images. Products, such as SRM utilities can run reports directly against the backup image file instead of the real volume. The production servers will not see any performance hit since the scans can be done by mounting them on another system.
2. Before restoring a backup image file, the administrator may decide to add additional files and folders or remove them. This removes the need to create a brand new full backup every time minor changes are made to the original backup image file.
3. The administrator is not limited to only scanning a backup file for viruses, but can also remove the virus from the backup completely and update the existing backup image file.

## **Enhanced Backup through Microsoft Volume Shadow Copy Services (VSS)**

The Windows (VSS) framework provides an infrastructure that enables third-party storage backup programs, applications and the operating system for the most reliable backup and recovery. ShadowProtect Server and Desktop are both a Backup Requester and software Snapshot Provider to VSS. This enables ShadowProtect to use the existing volume snapshot found in XP and 2003 without installing additional drivers. For enhanced backup features such as rapid incremental or differential backups, use StorageCraft's volume snapshot driver. In both cases, reliable backups of the operating system and applications such as Exchange and SQL will be created.

## **Flexible Backup Options**

ShadowProtect provides three methods for taking backups. This gives administrators the ability to choose which backup type is best in their organization. The three backup types are:

- 1) Hot backup using StorageCraft's Volume Snapshot Manager – This type provides the best backup available by taking full, incremental and differential backups.

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- 2) Hot backup using Microsoft VSS – This type allows administrators to take full backups using the VSS framework and Microsoft volsnap.
- 3) Cold backup from the StorageCraft Recovery Environment – Create cold state backups from the recovery environment. This type is also beneficial when systems can't boot and you want a backup before you restore over the existing volume.

## Rapid Bare-Metal Recovery

StorageCraft's Recovery Environment allows for quick recovery from system failure. You can simply boot from the StorageCraft Recovery CD and restore entire systems including the operating system, applications, configuration settings and data within minutes. Within the recovery environment, we allow you to not only restore systems, but also back them up. This is useful in a number of scenarios:

- 1) If the system is unable to boot, StorageCraft allows you to back that system up before a destructive restore could destroy valuable data
- 2) ExactState backups, which are backups of volumes that are offline, can be taken when the best possible backup or cold backup is required.
- 3) Through ShadowProtect's remote management and remote control capabilities included as part of the StorageCraft Recovery CD, you can manage ShadowProtect recovery of files, folders or a bare-metal system recovery remotely.

Traditional Methods		StorageCraft ShadowProtect	
1	Repair hardware if necessary	1	Repair hardware if necessary
2	Collect all necessary OS media	2	Boot from recovery CD
3	Reload OS from CD	3	Restore entire system or selected files
4	Reboot	4	Reboot
5	Apply service packs (multiple)		
6	Reboot (this could take several reboots)		
7	Reload backup software from CD		
8	Patch backup to latest support level		
9	Reboot		
10	Load recovery tapes and restore data		

**Figure 2 - Bare-metal recovery**

StorageCraft ShadowProtect can perform bare-metal recovery in minutes. Administrators can simply boot to the StorageCraft Recovery Environment using the recovery CD and restore systems quickly and reliably.

## **StorageCraft Backup and Recovery Solutions**

**ShadowProtect Server Edition** – *Fast and reliable online backup and bare-metal recovery for Windows servers.*

**ShadowProtect Desktop Edition** – *Fast and reliable online backup and bare-metal recovery for Windows desktops and laptops.*

**ShadowProtect IT Edition** – *Complete backup and recovery without installing any software.*

## **Conclusion**

StorageCraft ShadowProtect solutions provide fast and reliable system recovery and data protection for your enterprise. StorageCraft's proven technology is found in many industry leading backup and recovery solutions today with millions of installs worldwide. The ShadowProtect solutions provide clear advantages to ensure your systems and data are protected.

## **Take the Next Step**

If you would like to evaluate one or all of the ShadowProtect solutions, you can download a full-featured trial version at [www.storagecraft.com](http://www.storagecraft.com) . Volume pricing and licensing is available for enterprise, OEM, government, education and non-profit organizations.

## **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.

Company Address:  
StorageCraft Technology Corporation  
180 West Election Road, Suite 230  
Draper, Utah 84020

Phone: 801.545.4700  
Fax: 801.545.4705  
Web: [www.storagecraft.com](http://www.storagecraft.com)  
General: [contactus@storagecraft.com](mailto:contactus@storagecraft.com)  
Sales: [sales@storagecraft.com](mailto:sales@storagecraft.com)

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