SOLUTION GUIDE

Disaster Recovery Planning Made Easy
Solutions for Growing Businesses

As the need for increased data storage grows in the business environment, so does the importance of protecting this data – whether stored on workstations or central servers. Just like having insurance, business professionals through-out the growth phases of their business recognize the need to provide protec-tion for their computer and network assets. This typically comes in the form of a disaster recovery plan.

Businesses realize that having a disaster recovery plan is critical to quickly recover important data. The effects of workstation and server disasters include: operational downtime, lost productivity and possibly lost customers and loss of future revenue. Every year, businesses worldwide lose billions of dollars recovering from data disasters.

Having an integrated suite of continuous data protection technologies can maintain system and network protection. FarStone's DriveClone software provides multiple solutions to address common business pain points associated with server and workstation data protection: Imaging, local and networked hard drive and partition cloning, System Snapshots, file version monitoring and Universal Restore (with bare metal recovery to any system). All of the solutions provide a host of easy to use and affordable ways for disaster recovery of servers and workstations. Unlike other traditional backup software, DriveClone suite has proved to be more reliable and affordable.

RELATED SMALL BUSINESS FACTS:

Current data protection practices:

- 25% of small businesses do not back up their files

- 50% back up computer files using an inefficient manual process (CD/DVD)

Impact after a system crash:

- 7% of owners said their business would fail or be in serious danger if data was lost

- 14% would be inoperable while they worked to restore the missing data

- 25% said they would remain in business but stand to lose clients and revenue

Source: KRC Research Survey

DriveClone products make your disaster recovery planning easy to implement and maintain.

Consider the following 3 phases in the Business Data Protection Lifecycle: Initial Setup, Growth and Recovery. Each phase has its own unique challenges which can be pain points for a typically busy business owner.   FarStone's All-In-One Data Protection solution – DriveClone series – offer businesses the effective solutions to solve common problems within each phase.

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Phase 1 - Initial Setup

A business is establishing and needs to configure one or more PCs & Servers. The Challenge: An IT department needs sufficient time to setup operating systems and deploy applications and services for each PC; these are time-consuming and complex tasks.

Solution #1: Universal Restore. Setup just one PC with all necessary applications and use DriveClone to make a complete system image of the PC. With Universal Restore, the system image can be deployed to all other PCs, even if they are of different hardware configurations. Universal Restore instantly reduces the cost of deployment in large scale.
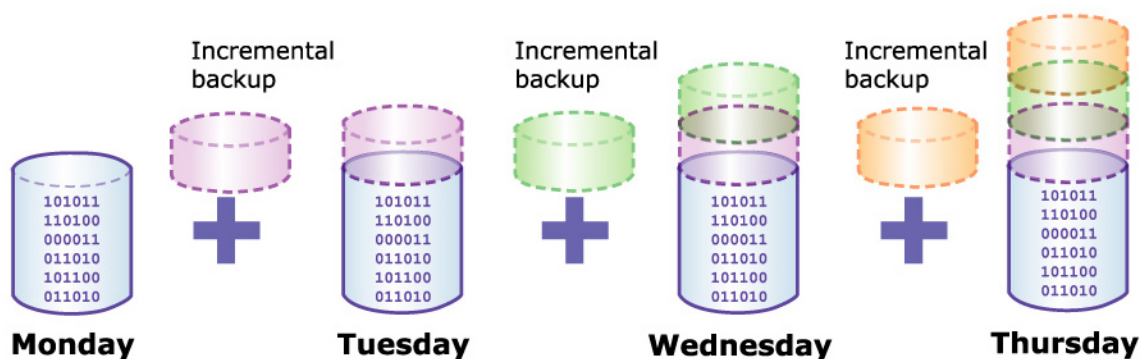
Solution #2: Complete Backup. Once the user has personalized their desktop, email account and other settings, they can use DriveClone to make a complete backup of the entire system in its preferred configuration. Everything is included in this backup image – OS, applications, data and system settings.

Phase 2 – Growth

D uring daily business operations, digital data is continually growing and servers and workstations are continually storing new content.

The Challenge: Continual data protection is crucial to business continuity in any business; companies must have an effective and affordable way to continually protect data with minimal involvement and manual processing by users. It should run seamlessly in the background.

Solution #1: Incremental Backup. Once a complete system image has been created, DriveClone can automatically backup new data on a scheduled basis, as frequently as every day.

Solution #2: System Snapshots. Users can set hourly backups in the form of snapshots. A low-level and super fast backup mechanism to protect your data in real-time, snapshots provides the ability to keep data protection as current as possible and reduce the gaps in backup coverage.
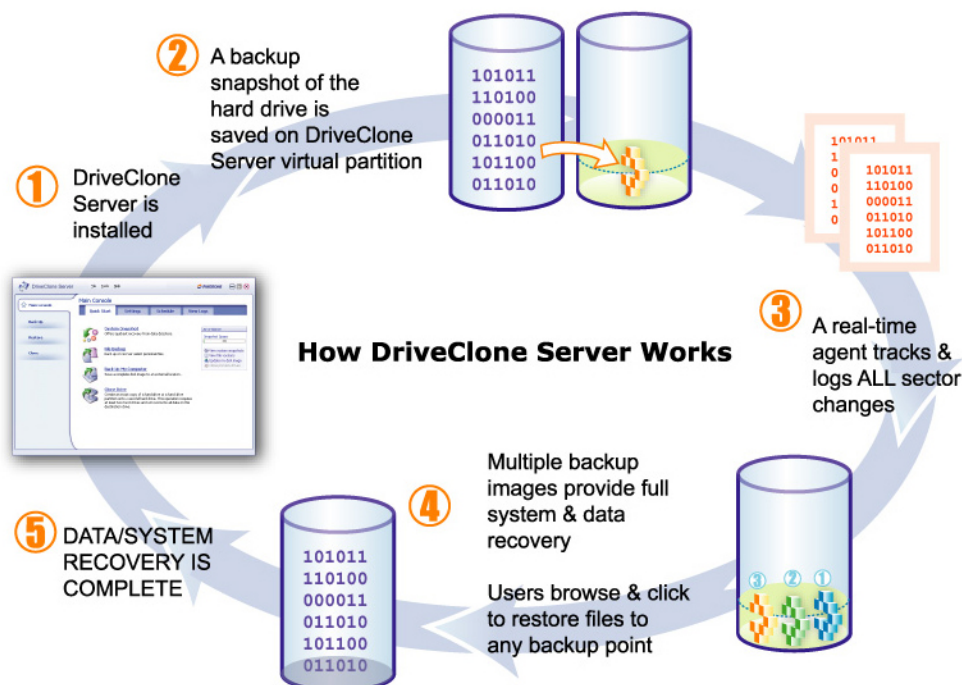
Phase 3 – Recovery

"**D**igital Disasters" simply happen – data can be accidentally overwritten or deleted or destroyed by a virus; malware can bring a system to a halt; an operating system can fail to start up and, most severely hardware can fail.

The Challenge: Accurately recovering lost system data in a timely manner to minimize downtime, lost productivity and the impact from lost customers and lost revenue.

Solution #1: System Snapshots. When a workstation user experiences system trouble, they are empowered to quickly fix it themselves. In only three mouse clicks, a user can quickly reset their system without needing to summon an IT person for assistance. In less than a minute, they have a working PC.

How DriveClone Server Works

① DriveClone Server is installed

② A backup snapshot of the hard drive is saved on DriveClone Server virtual partition

③ A real-time agent tracks & logs ALL sector changes

④ Multiple backup images provide full system & data recovery

Users browse & click to restore files to any backup point

⑤ DATA/SYSTEM RECOVERY IS COMPLETE

Solution #2: Bare-Metal Recovery. Even if a server or workstation is completely down due to hardware or OS failure, DriveClone can still recover the whole system from a pre-OS environment or bootable recovery CD. Disc Imaging is much more accessible, affordable and reliable than traditional tape backup methods.

Solution #3: Remote Recovery. An IT administrator can remotely recover a workstation or server in a managed console environment from a distance and effectively reduce the cost and time associated with system recovery.

Optimized for Server operations across many configurations and purposes!

DriveClone supports Volume Shadow Copy Service (VSS) – Backs up open database files while their applications are still running and ensures consistent backups of a volume. Supports VSS compatible databases such as Exchange, Oracle and SQL Server without taking them offline to make backups.

DriveClone supports PXE – Remotely deploys a bootable image file across a network and eliminates the need to create external bootable media.

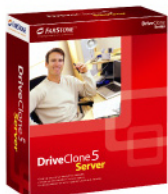**Partition Support** – Supports FAT32, NTFS, Linux EXT2/3 and other unknown partitions.

Hardware Support – Supports IDE, EIDE, SATA, PATA, SAS and SCSI hard drives and hardware RAID 0/1. Supports removable media such as CD-R/RW, DVD-R/RW, DVD+R/RW and USB 1.0/2.0 drives.

DriveClone 5 Series Features list

Features		DriveClone 5 Pro	DriveClone 5 Server
Boot from	USB Disk / CD / DVD	✓	✓
	Network (PXE Restore support) on Local Machine	✗	✓
Complete Backup			
Backup	Backup Level	Sector	Sector
	Hot Imaging (Live Backup)	✓	✓
	Clone Disk/Partition	✓	✓
	Incremental Backup	✓	✓
	Schedule Backup (Multiple Task/Project)	✓	✓
	Compression	✓	✓
	Password protection	✓	✓
	Image Integrity Check	✓	✓
	Create Recovery CD/DVD	✓	✓
	VSS Support*	✗	✓
Restore	Resize Partitions while Restore	✓	✓
	Mount image to retrieve individual folder or files with Windows Explorer	✓	✓
	Restore non-system partition in Windows	✓	✓
	Recover system in Pre-OS	✓	✓
	Bare mental recovery (Disaster reco very) via Start-up disc or Recovery CD/DVD	✓	✓
Advanced	Image Integrity check	✓	✓
	Create Start-up Disk	✓	✓
	Image Archive Splitting	✓	✓
	Universal Restore	✓	✓
	USB Hot Drive	✓	✓
File Backup			
Backup	Backup Level	File	File
	Backup your email, music, video, photos, ect.	✓	✓
	Backup selected files/folder	✓	✓
	Schedule Backup (Multiple Task/Project)	✓	✓
	Keep multiple version of each file in on Project	✓	✓
	Backup files to external Device, network or CD/DVD	✓	✓
Restore	Retrieve or Restore historic version of a file	✓	✓
	Restore all selected files in one time	✓	✓
System Snapshot			
Backup	Backup Level	Sector	Sector
	Create Snapshot manually or scheduled	✓	✓
	VSS Support*	✗	✓
	Instant system backup and store backup data to Secure Area (VP)	✓	✓
Restore	Recover manager	✓	✓
	Restore Snapshot manually or scheduled	✓	✓
	Preview/Mount Snapshot before restoring	✓	✓

ORDERING INFORMATION

FarStone DriveClone products can be ordered from a variety of international resellers.

DriveClone 5 Server
Part No. DC5SVR-1

DriveClone 5 Pro for workstations
Part No. DC5PRO-1

DriveClone 5 Network
Part No. DC5N-MGR