

## DISKSAFE AGENTS

DiskSafe is a host-based replication agent which delivers reliable data protection for Microsoft Windows and Linux Servers. DiskSafe protects physical and virtual hosts by replicating block-level data, either by partition or by entire disk to the Continuous Data Protector (CDP) target in the local environment. DiskSafe delivers real-time data protection for either DAS or SAN storage providing end-to-end data protection, remote disaster recovery, and backup as part of the Total Data Protection service.

### FEATURES

- Recover lost data in minutes
- Recover failed hosts in fifteen minutes
- Microsoft Windows and Linux Servers supported
- Block-level data protection
- FC and iSCSI support
- Cluster Support
- Minimal Host overhead
- 100% transactional integrity

### A New Approach to Protecting Hosts

Traditional DAS or SAN data protection environments load each server with lengthy periods of downtime for backup operations. Associated recovery methods are cumbersome, often go untested, and cause significant downtime for business application operations. As data volumes grow, administrators have increased difficulty completing backup operations within accepted backup windows; typically nights or weekends.

In contrast to this method, DiskSafe agents transfer business data to secondary storage, where backup operations are executed without any impact to production environments, completely eliminating the backup window and providing local and remote recovery data volumes. In addition to eliminating the backup window, DiskSafe dramatically increases the granularity of data protection. Instead of being protected once a day or once a week, application data can be protected continuously.

### How DiskSafe Works

The functionality of DiskSafe is that of a block-level I/O WRITE-Splitter. That is, every WRITE I/O operation of a server, file system, or application to primary storage is duplicated to secondary storage on the locally installed MicroPod. This block-level WRITE copy supports Fibre Channel (FC) or iSCSI networking.

This WRITE copy functionality can be set up for either continuous or periodic mode, accommodating any business requirement or network infrastructure. Data protection can extend from entire disks, disk partitions, or applications. As part of Total Data Protection, recovery of failed hosts and data is both local and remote and includes full backup, file or directory recovery, and individual email or database object recovery.

### Cluster Support

DiskSafe supports multi-node Microsoft Cluster Service in active-active or active-passive configurations. When a Microsoft Windows cluster node fails, DiskSafe seamlessly continues mirroring from the remaining nodes. When the failed node is restored, mirroring resumes automatically.

### Snapshot Scheduling and Data Retention

Snapshot schedules configured at the host level provide administrators with flexibility to set Recovery Point Objectives and data retention policies according to organizational requirements. For example, a protection policy could include journal protection for the most recent two hours, and 24 hourly, seven daily, four weekly, and 12 monthly snapshots. Configuration flexibility includes the ability to exclude weekends and holidays if required. Once established there are no further requirements for additional backup technologies or processes. Data is continually backed up and replicated to local and remote nScaLED cloud facilities.

DiskSafe is used as part of the nScaLED Total Data Protection service and is installed on-premise in customers primary data center facilities. DiskSafe software is licensed from FalconStor Software.



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### About nScaLED

We provide virtual data center services (cloud computing) to clients with zero tolerance for data loss or system downtime. Our clients routinely work with the most highly sensitive data and their business reputation depends on the confidentiality and reliability of critical systems and applications. Everything we do from our service level agreements, to system design and management practices support these requirements. Our cloud data centers operate as an extension to each client's existing primary data center facilities. We license market leading technologies from selected partners, integrate, automate and extend these with our own proprietary developments to streamline processes, and simplify data center operations for our clients.