FalconStor Software

Continuous Data Protector (CDP) Appliances

Maximum data protection and reliability for small-to-medium businesses and enterprise remote offices

FalconStor® Continuous Data Protector™ (CDP) Appliances change the traditional data protection paradigm from once-a-day backups to real-time, disk-based data protection. FalconStor CDP Appliances provide instant granular recovery to any point in time, for continuous data availability in both physical and virtual server environments.

Highlights

> Continuous availability through instant recovery from any type of data loss, from a single block to an entire data center

> TOTALLY Open™ architecture connects storage across vendor barriers, protocols, and virtual server environments

> Continuous or periodic protection for any-point-in-time recovery

> Integrated local and remote DR maximizes ROI

> Thin Provisioning maximizes disk utilization while reducing storage costs and power consumption

> Offloads backup overhead from production hosts

> Eliminates the backup window

> Application-aware Snapshot Agents, including Microsoft Windows certified agents, ensure 100% transactional integrity

> Microsoft VSS compliant

> Integrated Microsoft Exchange and Lotus Notes message recovery

> Integrated with Oracle RMAN, ASM

Continuous data protection with instant recovery

FalconStor CDP Appliances offer continuous real-time data journaling and periodic snapshots to protect business-critical applications and data stored locally or anywhere on the SAN. The FalconStor CDP DiskSafe™ Agent runs on Microsoft Windows hosts and performs mirroring of all primary storage, whether DAS- or SAN-based. Over time, the DiskSafe Agent sends changed data blocks to the FalconStor CDP Appliance in continuous or periodic mode, without impacting primary storage I/O.

To ensure data integrity, FalconStor TimeMark® snapshot technology coordinates with application-aware Snapshot Agents on each database, email, or file server to take 100% transactionally consistent snapshots. TimeMark snapshots can be mounted as a virtual volume, called a TimeView® image, for instant recovery at the individual file level or at the volume level for bare metal recovery. Data protection and instant recovery helps drive top-line growth, improves customer service and satisfaction, and increases business productivity.

Thin Replication for disaster recovery (DR)

For DR, FalconStor offers IP-based replication between FalconStor CDP Appliances. The Replication option includes encryption for security and compression for reduced bandwidth consumption. Replication uses patented FalconStor MicroScan™ technology, which detects changes at the sub-block level, reducing bandwidth requirements by as much as 70 to 90% compared with other similar solutions. Bootable recovery images can be maintained in a separate DR facility for fast business restoration and continuous data availability. Thin Replication can also be used to copy data from remote offices to a central facility, eliminating the need for hard-to-manage remote tape drives. These features work together to provide a competitive advantage, maintaining operations in case of site disasters.

Thin Provisioning for efficient disk utilization

FalconStor CDP Appliances include Thin Provisioning, which allocates physical storage space on an as-needed basis, using less actual physical storage than what is represented by virtual disks. This maximizes disk utilization efficiency while reducing storage costs and power consumption.

Backup acceleration

For organizations that need to maintain tape backup as part of their data protection strategy, the FalconStor HyperTrac™ Backup Accelerator option vastly accelerates backup to virtual or physical tape and overcomes backup window constraints. Backups are created from TimeMark snapshots and can be run during production with no impact on application hosts. This option helps companies meet regulatory compliance and corporate governance goals.

Scalable, flexible packaging

FalconStor CDP Appliances are available as storage appliances with internal storage, gateway appliances for external storage, and virtual appliances certified for VMware Virtual Infrastructure.

Specifications

Specifications	CDP-V4	CDP-S4	CDP-S6	CDP-S12	CDP-S24	CDPX-G50	CDP-G50	CDPX-G250	CDP-G250
Physical Characteristics									
Form factor	Software	Desktop	2U	2U	5U	2U	2U	2U	2U
RAM included / maximum	2GB/8GB	256MB	8GB	8GB/16GB	8GB/16GB	4GB/16GB	8GB/32GB	4GB/16GB	8GB/64GB
Internal drives	—	4	6	12	24	2 (OS only)	2 (OS only)	2 (OS only)	2 (OS only)
RAID level	—	5	5	6	6	1	1	1	1
Capacity, maximum (internal, raw)	4TB total	3TB	6TB	12TB	24TB	—	—	—	—
Capacity included (external)		—	—	—	—	20TB	20TB	250TB	250TB
Capacity, maximum (external)		—	—	—	—	50TB	50TB	250TB	250TB
Host Connections									
iSCSI support	Included	Included	Included	Included	Included	Included	Included	Included	Included
Fibre Channel (FC) support	—	—	Optional	Optional	Optional	Included	Included	Included	Included
4Gb Dual Port FC HBAs included	—	—	Optional	Optional	Optional	3*	2	3*	2
4Gb target / initiator ports	—	—	Optional	Optional	Optional	2 / 2	2 / 2	2 / 2	2 / 2
1Gb Ethernet ports	—	2	4	4	4	4	4	4	4
Advanced Features									
Virtual Storage	Included	Included	Included	Included	Included	Included	Included	Included	Included
Thin Provisioning	—	—	Included	Included	Included	Included	Included	Included	Included
Mirroring	—	—	Included	Included	Included	Included	Included	Included	Included
Zero Downtime Migration	—	—	—	—	—	Included	Included	Included	Included
Service Enabled Storage	—	—	—	—	—	Included	Included	Included	Included
High Availability (shared storage)	—	—	—	—	—	Included	Included	Included	Included
High Availability (cross-mirrored storage)	—	—	Included	Included	Included	—	—	—	—
DiskSafe	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
TimeMark snapshots per LUN	64	64	255	255	255	—	255	—	255
Replication (continuous or periodic) with compression and encryption	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional

CDPX appliances reserve two FC ports for connectivity to nearline appliances. If nearline appliances are not used, the FC ports can be used as target or initiator ports.

About FalconStor

FalconStor Software, Inc. (NASDAQ: FALC), the premier provider of TOTALLY Open™ Network Storage Solutions, delivers the most comprehensive suite of products for data protection and storage virtualization. Based on the award-winning IPStor® platform, products include the industry-leading Virtual Tape Library (VTL) with Single Instance Repository (SIR) for deduplication, Continuous Data Protector™ (CDP), Network Storage Server (NSS), and Replication option for disaster recovery and remote office protection. Our solutions are available from major OEMs and solution providers and are deployed by thousands of customers worldwide, from small businesses to Fortune 1000 enterprises.

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