

Continuous Data Protector (CDP) Appliances

Maximum data protection and business continuity for businesses and remote offices of all sizes

FalconStor® Continuous Data Protector (CDP) Appliances change the rules of traditional data protection. Data restore from periodic snapshots and daily backups is replaced by instant recovery from continuous snapshots with weekly backups. This provides immediate data recovery to any point in time for physical and virtual servers.

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
- > WAN-optimized replication with compression and encryption for fast, efficient remote DR
- > Thin Provisioning maximizes backup storage utilization, minimizing storage costs and power requirements
- > Integrated local and remote DR maximizes ROI
- > Offloads backup overhead from production hosts
- > Eliminates the backup window
- > Application-aware snapshot agents, including Microsoft Windows certified agents, ensure 100% transactional integrity
- > Compliant with Microsoft VSS
- > Integrated Microsoft Exchange and Lotus Notes message recovery
- > Integrated with Oracle RMAN, ASM



Continuous data protection with instant recovery

FalconStor CDP Appliances provide rapid recovery from system and data center failures caused by natural disasters or user-induced events such as deletion, corruption, or viruses. Continuous real-time data journaling and periodic snapshots provide service level-oriented recovery times of five minutes for email files and databases, ten minutes for systems, and 30 minutes for entire sites via remote disaster recovery (DR). Data protection and instant recovery helps drive top-line growth, improves customer service and satisfaction, and increases business productivity.

FalconStor CDP provides application-aware snapshot agents for Windows, UNIX, and Linux hosts and for numerous email, database, and file systems. FalconStor TimeMark® snapshots coordinate with application-aware snapshot agents to provide 100% transactionally consistent snapshots that can be mounted as a virtual volume for instant recovery of individual files or as volumes for bare metal recovery.

Tape backup acceleration

FalconStor CDP enhances tape backup by completely eliminating backup windows, accelerating backups, and centralizing backup operations. FalconStor HyperTrac™ Backup Accelerator speeds virtual or physical tape backup by using TimeMark snapshots, which can be created during production with no impact on host applications. FalconStor CDP also provides multiple points of recovery from snapshots, reducing the number of backups required from 365 daily to 52 weekly backups. Tape backup can then be re-purposed for long-term data retention for corporate compliance and governance requirements.

WAN-optimized replication

Heterogeneous WAN-optimized replication enables more cost-effective DR. Applications and file systems write more than just the actual changed data to disk. FalconStor MicroScan™ technology sends changes in 512 byte increments instead of the typical 32KB or higher increments sent by array-based solutions. Compression technology further reduces bandwidth requirements by up to 90% compared to array-based replication.

WAN-optimized replication also accelerates data replication between sites to enable rapid remote site recovery. Bootable recovery images can be maintained in a separate DR facility for fast recovery and immediate availability. WAN-optimized replication enables data to be copied from remote offices to a central site, eliminating the need for hard-to-manage remote tape drives.

Non-disruptive DR rehearsal

Many DR plans fail or take longer to recover than expected, impacting business operations. DR plans often go untested because doing so can cause serious disruptions to data center resources and may even induce a disaster. Compounding this problem is that daily tape backups are not typically validated because it is a difficult and time-consuming task. With FalconStor CDP, tape backup validations can be initiated and DR rehearsals can be conducted at any time without impacting production systems or business operations.

Thin Provisioning for efficient disk use

FalconStor CDP Appliances use Thin Provisioning, which allocates physical storage space on an as-needed basis. This uses less physical storage space than that required by protected disks and optimizes disk capacity allocation while reducing storage power consumption and costs.

Specifications

	CDP 303A	CDP 306A	CDP 507A	CDP 515A	CDP 530A	CDP 700F	CDPx 700F
Physical Characteristics							
Base form factor	2U	2U	2U+3U	2U+3U	2U+2x3U	2U	2U
Number of storage controllers	Single	Single	Single	Single	Single	Single/Dual	Dual
Appliance type	Storage	Storage	Storage	Storage	Storage	Gateway	Gateway
RAM included	8GB	8GB	16GB	16GB	16GB	16GB	16GB
RAID level	6	6	6	6	6	3rd party	3rd party
Capacity, raw	3TB	6TB	7.5TB	15TB	30TB	External storage licensed by capacity	Up to 1PB
Capacity, usable	1.8TB	3.6TB	6TB	12TB	24TB		
Disk type	SATAII	SATAII	SATAII	SATAII	SATAII	3rd party	3rd party
CPU cores	4	4	8	8	8	8	8
Power supply	Redundant 750W hot-plug auto-switching 110/220V	Redundant 750W hot-plug auto-switching 110/220V	Redundant 700W hot-plug auto-switching 110/220V; Dual 478W 100/240V per module	Redundant 700W hot-plug auto-switching 110/220V; Dual 478W 100/240V per module	Redundant 700W hot-plug auto-switching 110/220V; Dual 478W 100/240V per module	Redundant 700W hot-plug auto-switching 110/220V	Redundant 700W hot-plug auto-switching 110/220V
Host Connections							
iSCSI support	Included	Included	Included	Included	Included	Included	Included
1Gb Ethernet ports	4	4	4	4	4	4	4
Fibre Channel (FC) support	Optional	Optional	Optional	Optional	Optional	Included	Included
4Gb Dual Port FC HBAs (included with FC option)	1	1	1	1	1	2	2
InfiniBand support	—	—	—	—	—	Optional	Optional
Advanced Features							
Virtual storage	Included	Included	Included	Included	Included	Included	—
Thin mirroring	Included	Included	Included	Included	Included	Included	—
Synchronous data mirroring	—	—	—	—	—	—	Included
Zero downtime migration	—	—	—	—	—	—	Included
TimeMark snapshots per LUN	256	256	256	256	256	256	—
Data journaling	Included	Included	Included	Included	Included	Included	—
High availability (shared storage)	—	—	—	—	—	Included	Included
Replication (continuous or periodic) with compression and encryption	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Email alerts	Included	Included	Included	Included	Included	Included	Included
Central client management	Included	Included	Included	Included	Included	Included	Included
Environmental Requirements							
BTU	2697	2697	4127	4127	5557	2697	2697
Temperature	Operating: 50° to 95°F (10° to 35°C)			Storage: -40° to 149°F (-40° to 65°C)			
Relative humidity	Operating: 20% to 80% (non-condensing)			Storage: 5% to 95% (non-condensing)			
Altitude	Operating: -50 to 10,000 ft (-16 to 3048 m)			Storage: -50 to 35,000 ft (-16 to 10,600 m)			

Snapshot agents are available for the following environments: Microsoft Windows: Microsoft Exchange Server, Microsoft SQL Server, IBM Lotus Domino, Oracle, Sybase, Informix, IBM DB2, SAP, Pervasive SQL, Microsoft Volume Shadow Copy Service, Windows file systems — Linux: IBM Lotus Domino, Oracle, Linux file systems — Solaris: Oracle, Sybase, IBM Lotus Domino, Solaris file systems — AIX: Oracle, IBM DB2, Informix, IBM Lotus Domino, AIX file systems — HP-UX: Oracle, Sybase, HP-UX file systems.

For more information, visit www.falconstor.com or contact your local FalconStor representative.

Corporate Headquarters
USA
+1 631 777 5188
salesinfo@falconstor.com

European Headquarters
France
+33 1 39 23 95 50
salesemea@falconstor.com

Asia-Pacific Headquarters
Taiwan
+866 4 2259 1868
salesasia@falconstor.com

FalconStor
Software

Information in this document is provided "AS IS" without warranty of any kind, and is subject to change without notice by FalconStor, which assumes no responsibility for any errors or claims herein. Copyright © 2009 FalconStor Software. All Rights Reserved. FalconStor Software, FalconStor, TOTALLY Open, TimeMark, HyperTrac, and Microscan are trademarks or registered trademarks of FalconStor Software, Inc. in the United States and other countries. All other company and product names contained herein are or may be trademarks of the respective holder. CDPASSA4091012