

## Continuous Data Protector (CDP) Appliances

Unified backup and disaster recovery (DR) with instant availability

*FalconStor® Continuous Data Protector (CDP) Appliances change the rules of traditional data protection, allowing you to implement instant recovery and remote disaster recovery (DR) for physical or virtual servers, in a fully configured turnkey appliance. Application-aware snapshot agents protect critical data for most business applications and databases, including those from Microsoft, Oracle, and VMware.*

### Highlights

- > Continuous availability through instant recovery from any type of data loss, from a single block to an entire data center
- > 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 return on investment (ROI)
- > Automated DR for physical and virtual environments
- > Eliminates the backup window
- > Application-aware snapshot agents, including Microsoft Windows certified agents, ensure 100% transactional integrity (for a complete list, see certification matrix at [www.falconstor.com/matrix](http://www.falconstor.com/matrix))
- > Compliant with Microsoft VSS
- > Integrated Microsoft Exchange and Lotus Notes message recovery
- > Simplified capacity-based delivery mechanism



### Continuous data protection with instant recovery

FalconStor CDP Appliances provide rapid recovery from system and data center failures. Continuous real-time data journaling and periodic snapshots enable recovery of emails, files, and database objects in less than five minutes. In addition, you can recover local servers in as little as 10 minutes, and perform remote DR in as little as 30 minutes.

### Unified backup and recovery

FalconStor CDP Appliances greatly reduce or eliminate tape-based backup operations and costs. The in-network nature of the solution's recovery volumes, and up to 255 snapshots, provides flexible and comprehensive recovery points. When necessary, tape backup jobs can be executed from these snapshots, completely eliminating the traditional backup window and associated performance bottlenecks.

### Automated DR for physical and virtual environments

FalconStor® RecoverTrac™ technology represents a significant advancement in data protection, providing automated DR of critical business application servers and associated data volumes. This flexible and comprehensive recovery tool supports physical and virtual servers, including mixed environments. Single or multiple recovery locations are supported, as well as local and remote recovery. Supported recovery types include physical-to-physical (P2P for identical servers), physical-to-virtual (P2V), and virtual-to-virtual (V2V).

### WAN-optimized replication

Monthly bandwidth costs associated with remote replication represent a significant portion of total DR costs. FalconStor CDP Appliances leverage patented MicroScan™ technology from FalconStor, which eliminates duplicate data and ensures data integrity, reducing required bandwidth by as much as 95%.

### File-based data protection with FileSafe

In addition to block-based data protection, FalconStor CDP Appliances include FileSafe™ technology, which provides file-based data protection (CIFS or NFS) across multiple operating systems and applications. Simple to implement, FileSafe provides flexible ways to replicate and back up data to FalconStor CDP Appliances, including data in open files, and enables you to quickly recover individual files or folders.

### Application-aware, space-efficient snapshot agents

FalconStor CDP Appliances provide application-aware snapshot agents for Microsoft Windows, UNIX, and Linux, as well as for most popular business applications. TimeMark® snapshots provide 100% transactionally consistent snapshots that can be mounted for instant recovery of individual files, or as entire volumes for bare metal recovery. In addition, FalconStor CDP Appliances utilize 'Copy-on-First-Write' snapshot technology, which improves space efficiency and lowers capacity requirements while providing granular recovery points.

## Specifications

	CDP SA102	CDP SA306	CDP SA312	CDP SA515	CDP SA516	12TB Expansion	24TB Expansion
<b>Physical Characteristics</b>							
Form factor: Head	Tower	2U rackmount	2U rackmount	2U rackmount	2U rackmount	—	—
Form factor: Storage	—	—	—	3U rackmount	3U rackmount	—	—
RAID controllers	Internal	Internal and external				—	—
CPU cores	4	4	4	4	4	—	—
Memory	4GB	8GB	8GB	16GB	16GB	—	—
Hard drives	2 hot-swap	6 hot-swap	6 hot-swap	2 (system) + 15 (data) hot-swap	6 (system) + 15 (data) hot-swap	—	—
Disk type	1TB, 7200RPM, 3.5 in SATA	1TB, 7200RPM, 3.5 in SATA	2TB, 7200RPM, 3.5 in SATA	160GB, 7200RPM, 3.5 in SATA (system); 1TB, 7200RPM, 3.5 in SATA (data)	100GB, 2.5 in, SLC SSD (system); 1TB, 7200RPM, 3.5 in SATA (data)	1TB, 7200RPM, 3.5 in SATA	2TB, 7200RPM, 3.5 in SATA
RAID level	1	6	6	1 (system), (data) 6	5 (system), (data) 6	—	—
Base capacity (usable)	1TB	4TB	8TB	12TB	12TB	12TB	24TB
Power supply: Head	Non-redundant 375W	2 x hot-swap high output 870W				—	—
Power supply: Storage	—	—	—	2 x hot-swap 488W		—	—
Ethernet ports	2 x Gb Ethernet	4 x Gb Ethernet w/TOE enabled				—	—
Dimensions: Head	17.3 x 8.6 x 20.5 in (44 x 21.8 x 52.1 cm)	3.4 x 17.4 x 26.8 in (8.6 x 44.3 x 66 cm)				—	—
Dimensions: Storage	—	—	—	5.1 x 17.5 x 18.9 in (13.1 x 44.6 x 48 cm)		—	—
Weight: Head	51.8 lb (23.5 kg)	57.5 lb (26.1 kg)				—	—
Weight: Storage	—	—	—	78 lb (35.4 kg)		—	—
<b>Environmental Requirements</b>							
Power: Head	100-240V, 5.8-2.9A, 50/60Hz	100-240V, 7-3.5A, 50/60Hz				—	—
Power: Storage	—	—	—	100-200V, 7.2-3.6A, 47/63Hz		—	—
Head output: Head	1672 BTU/hr	2968 BTU/hr	2968 BTU/hr	2968 BTU/hr	2968 BTU/hr	—	—
Head output: Storage	—	—	—	1430 BTU/hr		—	—
<b>Advanced Features</b>							
Application snapshots	Included	Included	Included	Included	Included	—	—
TimeMark snapshots per LUN	255	255	255	255	255	—	—
Thin Provisioning	Included	Included	Included	Included	Included	—	—
Synchronous data mirroring	Included	Included	Included	Included	Included	—	—
Data journaling	Included	Included	Included	Included	Included	—	—
Remote replication	Included	Included	Included	Included	Included	—	—
Automated DR via RecoverTrac	Included	Included	Included	Included	Included	—	—
Email alerts	Included	Included	Included	Included	Included	—	—
Reporting	Included	Included	Included	Included	Included	—	—
Central Client Manager™ (CCM)	Included	Included	Included	Included	Included	—	—

For more information, visit [www.falconstor.com/CDP](http://www.falconstor.com/CDP) or contact your local FalconStor representative.

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