

Continuous Data Protector (CDP) *HC Series Appliances*

Unified backup, and disaster recovery (DR) for businesses of all sizes

FalconStor[®] Continuous Data Protector (CDP) HC Series Appliances expand the performance and scalability of the FalconStor CDP Appliance product line. FalconStor CDP HC Series Appliances offer high availability (HA) through a fully redundant architecture, including active/active controller configuration to provide maximum system and data availability. Capacity can expand to up to 336 drives per appliance. In addition to SAS and SATA disk drives, solid-state drive (SSD) expansion options are also available.

Highlights

- > Dual-controller active/active HA with low-cost scalability
- > VMware vCenter Site Recovery Manager support with failback automation
- > 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
- > No vendor lock-in; integrates with existing storage investments for high return on assets (ROA)
- > Real-time data migration through synchronous mirroring
- > Scalable up to 224 or 336 HDDs by SAS or SATA
- > Hot zone I/O acceleration with SSD, SAS, and SATA tiering
- > Integrated local/remote DR maximizes return on investment (ROI)
- > Integrated Microsoft Exchange and Lotus Notes message recovery
- > Backup acceleration for both physical and virtual environments



Maximum availability and performance

FalconStor CDP HC Series Appliances address stringent requirements of critical business applications. Performance capabilities allow transparent deployment 'in band,' or without server agents. These appliances support both Fibre Channel (FC) and iSCSI concurrently, so any and all server applications can be protected. A multi-port platform provides massive bandwidth scalability, load balancing, and efficiency, with near-instant recovery. The result is total enterprise data protection.

Continuous data protection with near-instant recovery

FalconStor CDP HC Series Appliances provide rapid recovery from system and data center failures. Continuous real-time data journaling and periodic snapshots enable recovery of email, files, and database objects in less than five minutes. Complete server recovery (bare-metal) can be performed in as little as 10 minutes locally and 30 minutes remotely.

Unified backup

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

Comprehensive DR

This solution features RecoverTrac[™] technology, a DR tool from FalconStor that automates remote failover of critical business servers and applications. RecoverTrac supports physical or virtual servers at the data center or a remote location.

WAN-optimized remote replication

Monthly bandwidth costs associated with remote replication represent a significant portion of total DR costs. FalconStor CDP HC Series Appliances leverage patented MicroScan[™] technology, which eliminates duplicate data and ensures data integrity, greatly reducing required bandwidth by as much as 99%.

Application-aware, space-efficient snapshots

FalconStor CDP provides 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 HC Series Appliances utilize 'Copy-on-First-Write' snapshot technology, which improves space efficiency and lowers capacity requirements while providing granular recovery points.

Specifications

CDP HC 650

Physical Characteristics	
Base form factor	iSCSI/FC
Number of storage controllers	Dual
Platform rack	4U for dual controller head, 3U for 16-bay disk expansion unit
RAM included	8GB
Storage RAID level	0, 1, 5, 6, 10
Disk type	SSD, SAS, SATA
Maximum # of disks supported	336
CPU cores	4 x 1.6 Ghz
Dimensions	Controller: 6.89 x 17.40 x 29.53 inches (175 x 442 x 750 mm) Disk expansion unit: 5.16 x 16.97 x 28.98 inches (131 x 431 x 736 mm)
Weight	Controller: 101.41 lb (46 kg) Fully loaded disk expansion unit: 88.18 lb (40 kg)
Power supply	AC voltage: 200 to 240 V – 100 to 127 V Frequency: 50/60 HZ
Maximum power consumption	Controller: 900 W Fully loaded disk expansion unit: 520 W
Temperature	50° to 95°F (10° to 35°C)
Humidity	20% to 80% (non-condensing)
Altitude	Operating: -200 to 10,000 feet (-60.96 to 3048 meters) Idle: -200 to 40,000 feet (-60.96 m to 12192 meters)
Host Connections	
# of iSCSI ports	8 x GbE
# of FC ports	8 x 4Gb/s
Advanced Features	
Thin Provisioning	Included
Synchronous data mirroring	Included
TimeMark snapshots per LUN	255
DiskSafe™ for Microsoft Windows or Linux	Included
Microsoft Windows/Linux/VMware snapshot agents	Included
DR (RecoverTrac)	Included
Remote replication: MicroScan, compression, encryption	Included
Email alerts	Included
Central client management (CCM)	Included
Support for VMware vCenter Site Recovery Manager with automated failback	Included

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, Microsoft Windows file systems — Linux: IBM Lotus Domino, Oracle, Sybase, MySQL, Linux file systems — Solaris: Oracle, Sybase, Informix, Solaris file systems — AIX: Oracle, IBM DB2, Informix, IBM Lotus Domino, AIX file systems — HP-UX: Oracle, Sybase, HP-UX file systems.

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