

## Continuous Data Protector (CDP)

### DISK BACKUP, INSTANT RECOVERY, REPLICATION, & AUTOMATED DR

FalconStor<sup>®</sup> Continuous Data Protector (CDP) is a disk-based backup and recovery solution that provides comprehensive data protection functions such as mirroring, snapshots, journaling, remote replication, and automated disaster recovery (DR) from an application service perspective. This all-inclusive, disk-based solution enables data assurance, addressing the critical business recovery challenges facing organizations today. FalconStor CDP 7.0 provides a comprehensive set of enhanced features, including expanded scalability and an increased number of highly granular, application-consistent snapshots. This enables IT administrators to define and meet demanding service level agreements (SLAs), even in the most complex heterogeneous environments, enabling data growth management and performance, business continuity, and cost containment.

Data Growth Management & Performance	
<b>Increased snapshot volume: Up to 1,000 per LUN</b>	<p>FalconStor CDP v7 enables up to 1,000 snapshots, increasing recovery-point granularity and length of retention. Combined with a large library of application-specific snapshot agents, this ensures data integrity for mission-critical business applications.</p> <p>For comprehensive snapshot management, intuitive wizards enable users to set flexible scheduling policies for keeping, discarding, and reclaiming snapshot resource area volumes. Reclamation schedules free available space while snapshot retention policies set preservation patterns. Users can define policies based on parameters including age, number, and frequency of snapshots.</p>
<b>Maximum LUN size increased to 64TB</b>	<p>As application data grows, so too must corresponding storage volumes. Additionally, as disk drive densities increase to 3TB, LUN sizes must increase to support performance-based RAID configurations to achieve optimal I/O performance. With FalconStor CDP 7.0, the LUN size has increased from 16TB to 64TB. This is a key competitive differentiator, as most vendors only support 16TB LUNs.</p>
<b>Block size allocation</b>	<p>Allows different block sizes across storage pools, locking corresponding, contiguous free space for each resource and reducing fragmentation, especially for thinly provisioned resources.</p>
<b>Performance enhancements</b>	<p>Performance enhancements include software optimization, improved multithreaded efficiency, and enhanced utilization of multi-core CPUs. This improves replication, encryption, and compression performance by 300% or more.</p>
<b>Alternative READ-mirror</b>	<p>FalconStor CDP 7.0 eliminates READ contention for mission-critical application data volumes, improving data access performance. Alternate-READ-Mirror is a duplicate mirror that reduces I/O bottlenecks associated with single target READ volumes, while providing simultaneous READ access to two identical volumes. These may be implemented within a single FalconStor NSS server or high-availability (HA) storage server cluster pair.</p>



[www.falconstor.com/demos](http://www.falconstor.com/demos)

# What's New in Version 7.0: FalconStor CDP

Business Continuity	
<b>HA failover enhancements</b>	A dedicated Storage Cluster Interlink (SCI) provides continuous synchronized I/O of mirror, snapshot, HotZone®, and SafeCache™ metadata between HA storage controller pairs. This enables rapid failover and reduces the time required to load the data from disk, reducing HA failover to mere seconds versus 30-60 seconds in most other HA configurations.
<b>VMware support enhancements, including VAAI support</b>	While VMware vSphere replication provides heterogeneous support for VMware Site Recovery Manager (SRM 5), it only supports tier 2 and smaller environments, and does not support application consistency or failback. FalconStor CDP enhances the capabilities of VMware SRM 5 by providing failover and failback for both physical and virtual servers. The RecoverTrac™ tool for automated disaster recovery (DR) extends physical server site failover into a VMware Site Recovery Manager recovery plan, working in tandem with VMware technology. Additionally, FalconStor CDP provides failover and failback across heterogeneous storage environments, ensuring application consistency.
<b>Bundled service-oriented disaster recovery (DR)</b>	<p>The RecoverTrac tool from FalconStor automates DR processes, extending the functionality of FalconStor CDP by allowing users to create jobs that manage the recovery process for multiple host machines in a group or “farm”. In the event of an emergency, RecoverTrac can quickly recover hosts, bringing them back online simultaneously or sequentially to the best recovery point.</p> <p>Performance enhancements to RecoverTrac in FalconStor CDP 7.0 include automatic recovery management of up to 50 hosts and 200 devices per RecoverTrac server across multiple sites. Additionally, RecoverTrac supports up to 60 disks per VMware virtual machine for physical-to-virtual (P2V) recovery, offering automated DR for physical-to-physical (P2P), virtual-to-virtual (V2V), and P2V.</p>
<b>Replication improvements</b>	<p>A replication throttle can be configured on the target to limit the maximum replication speed, minimizing any potential impact on network traffic. In addition, Continuous Data Replication (CDR) has been optimized for improved usability and performance.</p> <p>In addition, replication can be scheduled to execute immediately on the completion of a snapshot to ensure the highest level of data assurance and granularity in order to achieve and exceed recovery point and recovery time objectives (RPO/RTO).</p>
Cost Containment	
<b>Support for FCoE</b>	<p>FCoE support has been added to FalconStor CDP 7.0, including support for QLogic QLE8152 and QLAE8142 Converged Network Adapters (CNAs), and for the CISCO MDS 5010 FCoE switch. FalconStor CDP servers can automatically detect these specific CNAs.</p> <p>FalconStor CDP 7.0 also enhances support for VSphere 5 by providing a software FCoE adapter. This enables FCoE capabilities without the need to use specific hardware adapters, creating a more agile and flexible infrastructure.</p>
<b>Improved SNMP management</b>	SNMP enables remote and global management of network resources for improved utilization, identification and mitigation of bottlenecks, and centralized management. FalconStor CDP 7.0 provides improved MIB and SNMP support with over 700 new data elements and alert enhancements for optimized service level agreement (SLA) reporting. Popular tested environments include: Microsoft System Center Operations Manager (SCOM), HP OpenView NNM, HP Network Node Manager (NNM), CA Unicenter, IBM Tivoli NetView, and BMC Patrol. Data elements and alerts include: Accounting, statistics, performance, and fault management (disk failures, threshold violations, and alerts generated) according to availability, performance, configuration, and security.

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