

## SOLUTION BRIEF

# Data Protection for SAP Environments

## Highlights

**The FalconStor Data Protection Solution for SAP Environments delivers the following benefits:**

- > Centralized data protection for all SAP solutions
- > Instant local and remote recovery
- > Continuous availability maximizes operational productivity
- > Nested snapshots reduce the amount of data copies for testing and development
- > Protects both applications and databases
- > Integrated database-aware snapshots for 100% transactional consistency
- > Thin Provisioning optimizes disk capacity utilization

## SAP solutions empower every aspect of business

SAP provides business software solutions for almost every aspect of business operations and decision-making, empowering organizations with the most recent, accurate, and relevant information they need to obtain a competitive advantage in any industry. The flagship product, SAP Business Suite, helps customers to flourish in competitive and uncertain economic environments. Products range from customer relationship management (CRM), product lifecycle management (PLM), enterprise resource planning (ERP), supply chain management, and supplier relationship management (SRM), to various business intelligence (BI) solutions. Customers often deploy a number of SAP products according to their unique environments and business needs.

Recognizing the investments customers have in various SAP solutions, FalconStor Software provides comprehensive data protection and recovery for SAP applications and business data.

## Continuous availability and protection of SAP environments

FalconStor solutions offer comprehensive data protection to ensure protection and availability of SAP business applications, including operating systems (OS) and underlying databases, eliminating business disruptions from any type of failure. Business operations can be recovered locally from out-of-band disk-based protection volumes, or remotely at a disaster recovery (DR) site, utilizing cost-effective WAN optimization technology from FalconStor. This unique approach to data protection provides instant recoverability through patented technology, resulting in more resilient business operations and reduced costs.

## Protection of application development

A majority of SAP customers deploy multiple instances of their business applications and databases to support production, development, testing, reporting, data mining, and support environments. When combined with the maintenance and management associated with the deployment of so many critical business applications, the ability to protect both applications and databases, no matter the location, imposes critical responsibility on company IT resources. The FalconStor® Continuous Data Protector (CDP) solution provides the most comprehensive and seamless data protection methodologies for SAP environments, regardless of server or storage hardware vendor, enabling an organization to meet the most demanding service level agreements (SLAs) and data regulatory requirements.

## Instant recovery and elimination of the backup window

FalconStor CDP is much more than a data protection solution; it can also complement or replace traditional tape-based backup to eliminate backup windows and other associated effects on IT systems. Customers can perform backups from FalconStor CDP recovery volumes or snapshots, with no impact on production systems. FalconStor CDP enables instant data and application recovery, either locally or at remote data centers. Leveraging the solution's TOTALLY Open™ architecture, customers have the option to use more affordable second-tier storage for data protection or backup needs, combined with Thin Provisioning, which improves disk utilization and decreases total cost of ownership (TCO). With FalconStor CDP, SAP customers

can achieve near-zero recovery time objectives (RTO) and recovery point objectives (RPO), and simplify management.

## Database awareness

As SAP solutions depend on database information for decision-making and management operations, FalconStor technology provides integrated support for all enterprise database solutions. FalconStor offers application-aware snapshot agents designed to work with solutions from major database vendors, including Oracle, Microsoft, IBM, and others. Each snapshot agent is fully integrated with operations of each vendor database.

When a scheduled or on-demand snapshot is requested, the snapshot agent notifies the database that a backup request is pending. This allows the database to suspend new requests and complete current or pending database transactions. When all current and pending transactions are complete, the snapshot agent takes a transactionally consistent point-in-time image of the database, suitable for recovery or restore operations. This eliminates recovery failures and ensures that administrators can confidently recover or restore SAP database volumes to known good points in time.

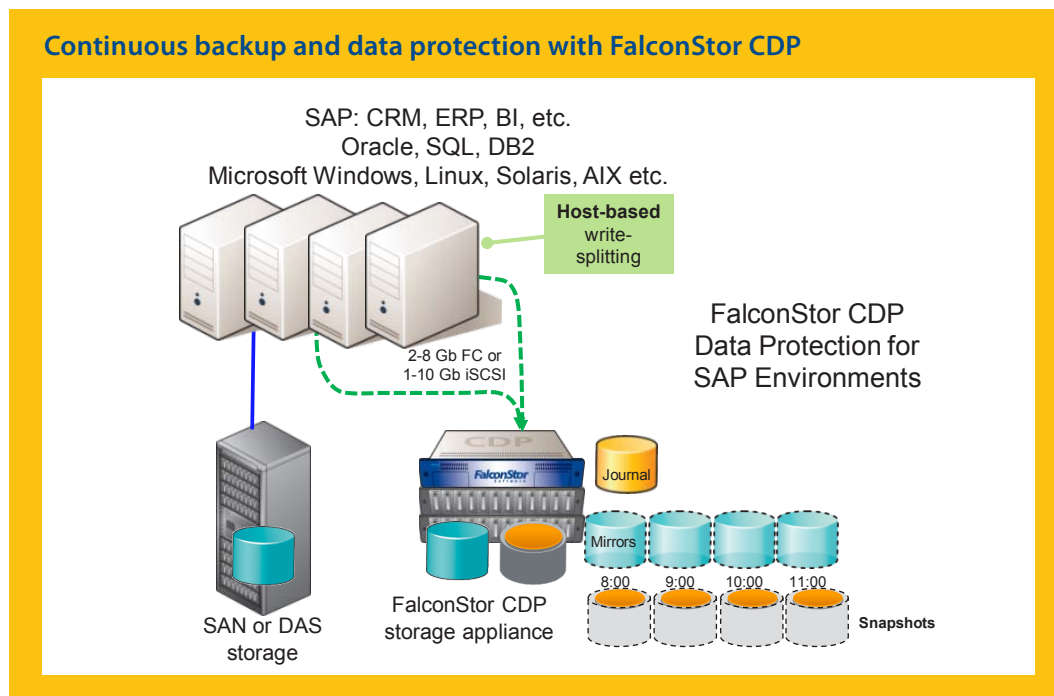
## Nested snapshots reduce overall costs

Conventional development and testing of SAP services involves multiple instances of both the application and underlying dataset. Each of these duplicate application and data volumes involves additional cost associated with physically provisioned disk capacity;

often greatly multiplying the fundamental disk capacity of the production environment. FalconStor CDP offers space efficient read-writeable snapshots (up to 255 per volume), consuming a fraction of production volume capacity. Additionally, as test or development environments require the ability to roll back to known good images of the application or data volume, FalconStor CDP enables the nesting of snapshots, which is the ability to take a snapshot of a snapshot for improved space efficiency. The deployment of these space efficient, nested-snapshots greatly reduces the number of data copies, overall disk capacity requirements, and associated storage costs.

## Thin Provisioning and WAN optimization

Traditional backup or business continuity solutions require full-volume mirrors or include duplicate data in snapshot images, both of which increase disk capacity requirements and decrease utilization efficiency. FalconStor CDP enables customers to use thinly provisioned volumes for data protection and recovery. This standard feature optimizes disk capacity utilization while reducing initial and ongoing costs for the customer. Remote replication is an additional capability of FalconStor CDP; enabling further protection of SAP applications and data at a remote DR site. WAN optimization is realized by compression, link awareness (the ability to sense link degradation and automatically switch from continuous to periodic replication), and FalconStor MicroScan™ technology. FalconStor MicroScan prevents remote transmission of duplicate data, resulting in bandwidth savings of as much as 95%.



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