Support HPE StoreOnce with Unlimited, Compliance-Ready Tier-Two Storage

As data volumes continue to expand, many organizations are looking for a way to add storage to their HPE StoreOnce environment or thinking about backing up the valuable data already stored on it. Luckily, it's now easy to do both. With the software-defined storage and backup solution from SUSE and Micro Focus, you can complement and support StoreOnce with a second tier of cost-effective, infinitely scalable storage.

SUSE Enterprise Storage and Micro Focus Data Protector at a Glance:

- **Scalable:**
  Grow your storage without limits.

- **Compliance-ready:**
  Keep backup copies and store data in secondary locations to meet regulatory demands.

- **Cost-effective:**
  Use industry-standard hardware and the SUSE node-based subscription model to control costs.

- **Easy to set up:**
  Get file, block and object storage in one system, plus native integration with HPE StoreOnce and HPE Cloud Bank.

- **Products:**
  SUSE Enterprise Storage
  Micro Focus Data Protector

Data storage demands are growing at such a rate today that even the largest storage appliances will soon be overwhelmed. That's not the fault of the appliance—almost every current storage solution is quickly being outpaced by storage demands.

Many enterprises are turning to a tiered storage solution that is complemented by software-defined storage (SDS). SDS offers flexibility, intuitive administration and an affordable total cost of ownership that keeps ever-growing storage from devouring your IT budget.

Supplementing the HPE StoreOnce solution that's already working for you with a second tier of SDS makes sense. SUSE® Enterprise Storage paired with Micro Focus Data Protector can help you do exactly that.

Increasing your capacity isn't the only benefit, however. Data Protector is an advanced backup and data recovery solution that enables you to back up the valuable data in your appliance by sending it to a SUSE Enterprise Storage cluster.

You might have to store additional copies of that data for compliance reasons, or you might want to move copies of the data offsite to ensure its safety in the event of a regional disaster. The SUSE and Micro Focus solution can solve either challenge.

Adding Data Protector and SUSE Enterprise Storage to your storage environment gives you a holistic, multi-tier storage solution that can keep up with today's ever-growing demands.

Keeping Pace with Growing Storage Demands
The combined solution from SUSE and Micro Focus offers the best way to face today's storage challenges and support your HPE StoreOnce environment.

Together, SUSE Enterprise Storage and Micro Focus Data Protector can easily integrate with, complement and support HPE StoreOnce environments to provide a second tier of unlimited, compliance-ready storage.

EASY IMPLEMENTATION AND MANAGEMENT
One quality that makes the combined solution such a good complement to HPE StoreOnce is its ease of implementation and management. Data Protector was once HPE software and because of that shared history, it works seamlessly with HPE StoreOnce and HPE Cloud Bank.

Data Protector's ability to predictively track service-level agreements (SLAs) also makes it easier for IT teams to manage and ensure adherence to SLAs.
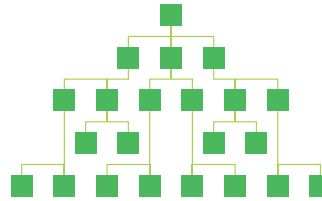
SUSE Enterprise Storage comes with the DeepSea installation and cluster setup tool and the openATTIC user interface, both of which make it simpler to get your storage solution up and running quickly. SUSE Enterprise Storage is self-healing and self-managing. That means it can automatically detect changing conditions and redistribute workloads if a node goes down. Built-in fault tolerance helps to ensure that you don't lose any data.

You can configure SUSE Enterprise Storage to support block, object or file storage. SUSE Enterprise Storage unifies these storage types and manages it all as object storage behind the scenes to take advantage of that method's speed and scalability.
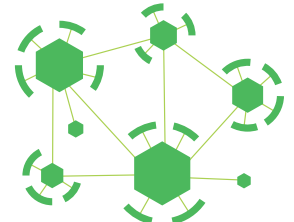
Block Storage **File Storage** **Object Storage**

Figure 1.

SCALABLE
Micro Focus Data Protector and SUSE Enterprise Storage have no limits to the amount of data they can scale to handle. SUSE Enterprise Storage is based on the open source SDS solution Ceph, and it has a clustered architecture. Simply add standard server hardware and the cluster rebalances, enabling you to grow along with your data.

The solution's scalability also makes it easy to increase throughput (terabytes per hour). By adding server capacity to the cluster, you boost performance and reduce bottlenecks.

SUSE Enterprise Storage enables you to take advantage of the cost-efficiencies and reliability of industry-standard hardware to provide unlimited storage for your organization. Data Protector enables you to use that storage to supplement HPE StoreOnce so you don't have to replace your appliance.

The solution also helps you control the costs of scaling.

COST-EFFECTIVE
Using SUSE Enterprise Storage, a single system administrator can easily manage 3 to 4 PB of data. That's six times more than an administrator in an equivalent block-storage environment. The system can scale even further horizontally, so you can maintain control of your IT budget as your storage grows.

SUSE Enterprise Storage offers node-based pricing (as opposed to per-giga-byte pricing), making it the lowest-priced

option for enterprise disk-to-disk backup, as well as other storage tasks.[1] By increasing the size of your storage nodes, you can increase capacity without raising your software costs.

COMPLIANCE-READY

The solution can help you address compliance demands as well. Data Protector offers automated retention and replication management across different tiers and locations—such as between StoreOnce and SUSE Enterprise Storage—for compliance and efficient long-term data retention.

Since both HPE StoreOnce systems and Data Protector use the same deduplication API, you can share data between deduplication stores created on StoreOnce appliances and those created on SUSE Enterprise Storage. This enables your remote sites to keep a local copy of the backup while also sending a copy to a central or disaster recovery site. This local copy of the deduplicated backup data can help you restore files faster when needed.

Components of the Solution

SUSE ENTERPRISE STORAGE

SUSE Enterprise Storage runs as an extension on SUSE Linux Enterprise Server, a secure, open source server operating system that helps you accelerate innovation, improve system reliability, comply with evolving security requirements and adopt new technologies.

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1 *See exactly how SUSE Enterprise Storage stacked up against other options in IT Brand Pulse's 5 Year TCO Case Study.*

SUSE Enterprise Storage offers:

- *Fast setup and deployment, usually requiring less than two hours' configuration time after hardware is unpacked and ready*
- *Automation that saves IT administrators time and effort*
- *Faster time to recovery in the event of disasters and unplanned downtime*
- *Ultimate scalability to handle massive data sets and virtually unlimited growth potential*

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You can build a SUSE Enterprise Storage cluster on any standard hardware platform, including HPE ProLiant, Apollo, Cloudline or Synergy systems.

MICRO FOCUS DATA PROTECTOR

Data Protector is an enterprise-grade backup and disaster recovery solution for large, complex and heterogeneous IT environments. Built on an adaptive architecture that combines security and analytics, it can help you meet your continuity needs reliably and cost-effectively.

Micro Focus Data Protector offers:

- *Standardized protection that works across diverse environments*
- *Compression, federated deduplication, storage management and analytics to help you better use your infrastructure*
- *Automated, centralized bare-metal recovery from physical to physical, physical to virtual, virtual to virtual and virtual to physical*
- *A highly reliable and secure backup environment with low overhead*
- *Predictive analytics, automation and other tools to efficiently manage the backup environment*

A Valuable Partnership

SUSE and Micro Focus have been working together for years to provide enterprise-grade software solutions that enable businesses to stay competitive with transformative technologies. We offer complete solutions that provide security, bring operational efficiencies and deliver a platform for innovation.

Both companies have long-term relationships with HPE as well. Micro Focus is now the home of HPE's enterprise software division, and HPE and SUSE have 25 years of joint engineering and innovation. SUSE is HPE's preferred partner for Linux, OpenStack and Cloud Foundry solutions.

Together these close partnerships mean you can be confident in your solutions.

> "The stability of SUSE Enterprise Storage is a massive benefit—the cluster is extremely stable, and has proven itself to be highly tolerant of the failure of individual disks. Very little maintenance is required to keep it running smoothly."[2]

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