

# Strengthen cyber-resilience with HPE StoreOnce Systems

HPE StoreOnce Systems

# Transforming the simplicity, performance, and agility of your hybrid cloud data protection



## Data is your most valuable currency

We're living in an era of digital transformation, where the accessibility of emerging digital technologies enables you to reimagine your business in new ways—creating new experiences, new products and services, and new efficiencies. Data is the engine of your digital transformation and is your most valuable currency.

With new strains of ransomware and other malware threats on the rise and data continuing to grow from edge to the cloud, your enterprise and customer data are more at risk than ever. In this fast-morphing environment, organizations must act quickly to protect business-critical data. Attacks happen. It's not a matter of if, but when. As long as cybercriminals believe your data has value, they'll continue to exploit vulnerabilities and find innovative ways to encrypt critical data.

## Data protection is increasingly challenging

Data protection is a crucial line of defense against cyber threats. Secure backup images of critical business data and applications allow companies to roll back in time to recover applications and data before the point of ransomware infection. Including data protection in your cybersecurity framework is a requirement for cyber resilience.

## HPE StoreOnce systems

HPE StoreOnce is an advanced solution designed to provide optimized storage for recovery and data protection in enterprise, mid-sized environments, small and remote offices. It employs advanced data reduction technology, which minimizes the amount of storage required by eliminating duplicate copies of data, thereby reducing costs and improving efficiency. HPE StoreOnce enables rapid backup and recovery, integrates seamlessly with popular backup applications, and supports cloud connectivity for hybrid data protection strategies. With features such as scalable architecture and robust security, HPE StoreOnce helps organizations ensure their critical data is safeguarded against loss, ransomware, and other threats.

### — Robust foundation for cyber resilience

HPE StoreOnce is a data protection solution that ensures robust cyber resilience for data stored both on-premises and in multi-cloud environments. It features integrated multi-factor authentication, encryption of backup data during transmission and storage, and configurable immutability to prevent unauthorized changes or deletion. Enhanced security is further provided through dual authorization and air-gapped protection using HPE StoreOnce Cloud Bank Storage or HPE Storage Tape.

### — Transforming protected copies into insights

With the advanced performance capabilities of the all-flash HPE StoreOnce 7700, additional use cases protected data for B10000 becomes possible. It is feasible to mount a read-only volume restore point to a designated scan host. This functionality supports applications such as cyber forensics, test and development, and analytics, allowing organizations to verify the integrity and cleanliness of both the restore point and the protected volume. As a result, businesses can transform their backup data from being merely an insurance policy to becoming a valuable source of actionable insights.

— **Take control of data growth:** A scalable portfolio of physical and software-defined HPE StoreOnce systems provides you with a wide range of capacity points and >100 PB (effective capacity) PB<sup>1</sup> in a single system (HPE StoreOnce + HPE StoreOnce

Cloud Bank Storage). HPE StoreOnce makes every gigabyte of your storage go further with intelligent deduplication that reduces your backup costs and footprint with 60:1 data reduction<sup>2</sup> on-premises and in the cloud. Some of the additional benefits include reduced network bandwidth cost, enhanced backup performance, and ability to retain more data with predictable cost at cloud scale.

### — Efficient protection across the enterprise

The new HPE StoreOnce Gen 5 Systems deliver affordable data protection for small branch and remote offices to medium-sized, large enterprises and service providers. These ultra dense backup appliances can scale from 18 TB to 576 TB (usable) locally in a 2U Form Factor. These new appliances save on data center space (up to 80%)<sup>3</sup> and power consumption (up to 24%)<sup>4</sup> by using a single chassis design rather than having additional drive expansion enclosures. This makes larger capacity configurations simpler and reduces cost to deploy and operate. The StoreOnce Gen 5 Systems include

- a. HPE StoreOnce 3720—HPE StoreOnce 3720 protects workloads in remote, branch and small offices and can scale from 18TB to 72TB (usable capacity locally) in a 2U form factor.
- b. HPE StoreOnce 3760—HPE StoreOnce 3760 meets the protection requirements of mid-sized organizations and can scale from 108TB to 216TB (usable capacity locally) in a 2U form factor.
- c. HPE StoreOnce 5720—HPE StoreOnce 5720 is engineered to provide an optimal balance of performance and scalability for midsized and enterprise customers while maintaining cost efficiency. It can scale up to 576TB (usable capacity locally) all in a 4U form factor.
- d. HPE StoreOnce 7700—The new all-flash HPE StoreOnce 7700 offers significantly improved performance, prioritizes energy efficiency and space optimization, and retains advanced security features to support cyber resilience. It accelerates the backup and restore processes, scales up to 552TB (usable capacity locally) making it suitable for environments with demanding recovery point and recovery time objectives (RPO/RTO).

<sup>1</sup> Up to 60:1 data reduction of protected data on local and cloud storage

<sup>2</sup> Up to 60:1 dedupe ratio as compared to a fully hydrated backup

<sup>3</sup> Comparison of fully populated HPE StoreOnce 7700 with HPE StoreOnce 5260

<sup>4</sup> Comparison of maximum configuration power consumption of HPE StoreOnce 7700 with HPE StoreOnce 5260

## — Integrated protection

The HPE StoreOnce system can be utilized in conjunction with the HPE Alletra Storage MP B10000 system to deliver integrated storage volume protection against cybersecurity threats, including ransomware. By extending protection capabilities to include crash-consistent volume backups on HPE StoreOnce systems, organizations can safeguard data with snapshots that maintain write order integrity following a sudden system crash or power outage. This process ensures that interdependent files are backed up to the same point in time.

Integrated protection provides a unified approach to safeguarding volumes for HPE Alletra Storage MP B10000 systems. By consolidating snapshots and backups within a single B10000 protection policy, this solution streamlines operational processes. This integration not only simplifies management but also contributes to achieving faster and more precise Recovery Point Objectives (RPOs) as well as improved Recovery Time Objectives (RTOs), ensuring that data can be restored with greater efficiency and accuracy.

Integrated protection is available for HPE Alletra Storage MP B10000 systems running OS v10.5.50 and later, and HPE StoreOnce 3720, HPE StoreOnce 3760, HPE StoreOnce 5720 and HPE StoreOnce 7700.

- **Help optimize cloud investment:** HPE StoreOnce with HPE StoreOnce Cloud Bank Storage delivers simple, efficient, and reliable backup to the cloud. It lets you seamlessly cloud-enable your storage, backup, and enterprise apps, as well as natively integrate your choice of cloud service provider without the need for a separate gateway or virtual appliance. You can reduce the time, cost, and network bandwidth for your cloud storage with highly efficient deduplicated data transfer as well as store encrypted, self-describing backup data for long term retention. Users can store up to 4x usable capacity<sup>5</sup> of the HPE StoreOnce System with HPE Cloud Bank Storage.
- **Reduce complexity:** HPE StoreOnce takes the time and stress out of data protection, reducing management time with multisystem and multisite visibility and management—from a single pane of glass. It empowers your application owners with self-service protection, enabling them to easily and efficiently control end-to-end protection for their applications—from the data center to the cloud—using familiar native user interfaces.

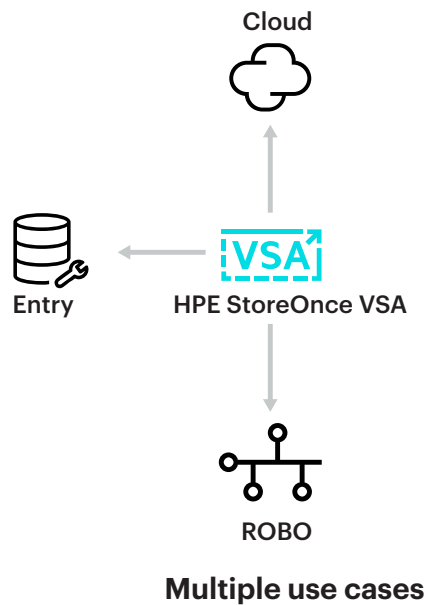


Figure 1. Software-defined protection for virtual and cloud environments

- **Experience agile software-defined protection for virtual and cloud environments:** HPE StoreOnce VSA extends the deployment options for HPE StoreOnce with the agility and flexibility of a virtual appliance, removing the need to install dedicated data protection hardware. All the features of the purpose-built HPE StoreOnce systems are available in a software-defined backup target of up to 500 TB usable capacity, which can be configured in 1 TB increments. An HPE StoreOnce VSA license server simplifies license management for large or dynamic virtual storage appliance (VSA) deployments (Figure 1).
- **Integrated ecosystem:** HPE StoreOnce is integrated with a rich ecosystem of leading backup independent software like Commvault and Veeam and backup applications. Users can start protecting their workloads without changing their existing backup software. The extensive compatibility testing program from Hewlett Packard Enterprise helps ensure that HPE StoreOnce systems work with leading operating systems, data protection software, and business applications.
- **Protect your edge sites with HPE SimpliVity integration:** Additional protection for your HPE SimpliVity deployments at distributed edge sites with automated, application-aware policies to seamlessly replicate apps and data directly to a centralized HPE StoreOnce appliance for compliance and long-term retention.

<sup>5</sup> Up to 4x usable capacity with HPE StoreOnce 7700. For other HPE StoreOnce Systems including HPE StoreOnce VSA it can store up to 2x usable capacity of the HPE StoreOnce Systems

## Summary

As data grows at an exponential rate, enterprises will need to modernize their data protection edge to cloud to protect their workloads. HPE StoreOnce helps to keep your data protected while reducing cost, risk, and complexity. Protecting your data at the edge, on-premises, and in the cloud will enable you to meet demanding SLAs—keeping your business moving ahead.

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