



HPE Data Protector

Adaptive backup and recovery

An intelligent and reliable backup software solution that is just as agile as today's modern IT environments, HPE Data Protector addresses the challenges of complexity, costs, and recoverability of protecting the dynamic and diverse nature of today's information.

HPE Data Protector is built on a unified architecture and delivers comprehensive data protection, real-time analytics, and guided optimization enabling an adaptive backup and recovery environment. With an adaptive approach to backup and recovery, organizations achieve simple, reliable, and cost-effective protection of information.

By standardizing the protection of information spread across locations, applications, formats, storage platforms, operating systems, and hypervisors, HPE Data Protector backup software provides business assurance from the core to the edge, across physical, virtual, and cloud infrastructures.

Key features and benefits

- **Real-time operational intelligence**—personalized or customizable dashboards and reports, root-cause analysis, scenario-based modeling and predictive analytics for resource balancing, and identification and resolution of potential conflicts and contentions
 - Dashboard reports provide valuable insights into key performance indicators of the backup and recovery process, and more importantly, they're interactive and customizable—allowing IT administrators to filter, change, and modify views.
 - Rapid root-cause analysis proactively identifies systematic or systemic issues before they cascade into outages and data loss that negatively impact business operations.
 - Built-in predictive analytics engine provides trends and scenario-based modeling, potential scheduling conflicts and resource contentions, and the impact of new workloads on backup infrastructure (physical capacity, network load, and device load)—enabling better management and future planning of backup resources.



- **Application consistent recovery**—leading business application integrations extend server backup, automated point-in-time recovery, and granular restores to application owners, enabling them to manage, drive, and service their own backup and recovery requirements based on the backup infrastructure defined by IT
 - Online extensions for leading business applications including Microsoft® Exchange, Microsoft SharePoint, Microsoft SQL, Oracle, SAP®, SAP HANA, IBM DB2, Sybase, and MySQL provides application-aware backup and recovery.
 - Automated transaction log backup and truncation enables application recovery down to the exact point in time.
 - HPE Data Protector Granular Recovery Extensions (GRE) enhances application management GUI with backup and recovery capabilities, and provides application owners with a self-service option to search and recover single items.
- **Advanced virtual server protection**—hypervisor integrations and support offer virtual machine protection inheritance, instant recovery options including Virtual Machine Power-on, process automation, analytics, and visualization for virtual environments
 - Native integrations with leading hypervisors including VMware® vSphere, Microsoft Hyper-V, and Citrix® Xen deliver agentless backup and protection policy inheritance.
 - Hardware-assisted agentless backup augments the standard hypervisor integrated agentless backup capabilities and leverages storage snapshot integration to complete the backup operation. By offloading the processing and movement of backup data from the hypervisor layer, HPE Data Protector improves virtual machine and hypervisor performance and availability.
 - Virtual Machine Power-on provides instant restore and access to virtual machines directly from backup repositories (HPE 3PAR and HPE Data Protector SmartCache) and the Live Migrate feature migrates virtual machines to production environments, while they are running.

- **Storage integrations and optimization**—array-based snapshot integrations provide zero-impact protection and rapid recovery; compression, federated deduplication, storage management, and analytics deliver cost efficiencies and better utilization of the IT infrastructure
 - Zero Downtime Backup software integration enables HPE Data Protector to create, backup, and catalog space-efficient, application-aware snapshots. The instant recovery feature meets the strictest levels of service and recovery expectations by staging the desired number of snapshots on the storage array itself. With a storage array being the first point of recovery, applications can be recovered instantly.
 - Integration with HPE StoreOnce Catalyst APIs and EMC Data Domain Boost (DD boost) APIs provides deduplication options that can be deployed at the application source (client side), the backup server (media server), and/or at the backup target (target side).
 - Besides standard disk-based backup appliances, tape, and cloud as backup targets, HPE Data Protector offers an intermediary backup target called SmartCache. This backup-to-disk target provides a new backup target option with all of the benefits of snapshots stored on the backup server cataloged and ready to be moved to the backup target, or kept ready for rapid-recovery operations.
- **Automated disaster recovery (bare metal recovery)**—centralized bare metal recovery from physical to physical, physical to virtual, virtual to virtual, and virtual to physical from any backup set at no additional cost
 - Integrated at the core of HPE Data Protector, Enhanced Automated Disaster Recovery (EADR) provides backup of application data as well as system data including operating system files, drivers, and files required for the initial boot process. Enabled with a simple check box in the HPE Data Protector GUI, EADR includes the necessary image information in full backups for a full system recovery.
 - Disaster recovery images can be created from any existing file system or image backup including object copies, without needing to create a separate special backup for system recovery.
- **Standardized protection**—a unified and flexible architecture enables centralized data protection across physical and virtual disparate operating systems and critical applications from core data centers to remote sites
 - With an understanding that many IT organizations have data and applications spread across different platforms, each with unique characteristics and APIs, HPE Data Protector's comprehensive support matrix covers data protection across a range of locations, applications, formats, storage platforms, operating systems, and hypervisors to a continuum of backup targets including disk, snapshots, tape, and cloud.
- **Information retention**—automated retention and replication management across different backup media, storage tiers, and locations for compliance and efficient long-term data retention
 - HPE Data Protector creates a tiered recovery architecture by managing data protection (backup, recovery, and replication) on primary storage devices, SmartCache (an intermediary backup target), disk-based backup appliances (both physical and virtual), tape, and cloud.
 - Automatic Replication Synchronization automatically shares metadata information between Data Protector Cell Managers that are managing two replicating backup devices (HPE StoreOnce or EMC Data Domain appliances) providing multiple options for restoring data and applications.

Data sheet

The value of HPE Data Protector

- **Comprehensive protection, based on a unified architecture**, delivers a centrally managed and standardized backup and disaster recovery process that extends from the core data center to the edge of your business.
- **Operational intelligence, from real-time analytics**, delivers actionable insight and awareness for rapid root-cause analysis, bridging data protection gaps, and proactive planning of future data protection needs.
- **Guided optimization, using recommendations and dynamic reporting**, results in cost and risk reductions, balanced resource utilization, automated job prioritization, and identification and resolution of data protection inefficiencies across the backup infrastructure.

Technical specifications

The HPE Data Protector Cell Manager software can be installed on Windows®, Linux®, and HPE-UX systems.

Languages supported:

English, French, Japanese, and Simplified Chinese

Learn more at
hpe.com/software/dataprotector



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