

Overview

HPE Data Protector

Enterprise-class backup and recovery software for heterogeneous environments

HPE Data Protector is a core-to-edge data protection solution that standardizes and consolidates backup processes, allowing enterprises to reduce cost and complexity of their backup operations while delivering improved reliability and business resiliency. By standardizing the protection of data spread across locations, applications, formats, storage platforms, operating systems, and hypervisors, Data Protector backup software provides business assurance needed by today's data-driven enterprise. When combined with its companion products in the HPE Adaptive Backup and Recovery Suite, Data Protector becomes a solution that allows to adapt and optimize your environment at all phases of the data protection cycle in order to meet your operational and business goals.

Key product features

Standardized protection: A unified and scalable architecture enables centralized management across physical and virtualized environments, disparate OSs, and business applications from core data centers to remote sites.

Application-consistent recovery: Leading business application integrations extend backup, automated point-in-time recovery, and granular restores to application owners enabling them to manage, drive, and service their own requirements.

Advanced virtual server protection: Hypervisor integrations and support offer virtual machine protection inheritance, tiered recovery options, process automation, analytics, and visualization for virtual environments.

Storage integrations: With compression, federated deduplication, storage management, and analytics, organizations achieve increased scalability and cost-efficiency, and better utilization of the IT infrastructure.

Cloud as storage tier: Native integrations or via a gateway offer a scalable, cost-efficient (pay-as-you grow) capacity expansion for enhanced IT agility with reduced administration overhead.

Automated DR: 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.

Information retention: Automated retention and replication management across different backup media, storage tiers, and locations for compliance and efficient long-term data retention.

Adaptive Backup and Recovery: A foundation of an adaptive approach to manage and protect data at each phase of the data protection cycle when coupled with HPE Storage Optimized and HPE Backup Navigator.

What's new in HPE Data Protector 9.09

HPE Data Protector 9.09 provides enhanced integration with StoreOnce Catalyst, Security Enhancements, enhanced Telemetry support and New Platform support.

- **Windows Mount Proxy support with StoreOnce Catalyst** – Customers can now use a Windows-based mount proxy for power on, live migrate and granular recovery of VMware VMs from a StoreOnce Catalyst repository
- **Security Enhancements** – Data Protector 9.09 has updated OpenSSL libraries and binaries, meaning increased security. We have also upgraded various internal binaries in the product, and reviewed and hardened various modules to ensure even greater stability. Instead of having to open potentially thousands of ports, customers will now only need to open 3

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ports between DP and their backup clients through the firewall.

- **Enhanced Telemetry Support** – Telemetry support allows gathering of customer configuration data including OS, patch levels, versions etc. to allow a better supportability experience. In the future we will introduce a call-home functionality which will enable quicker resolutions and a more informed product team.
 - **New Platform Support** – This release adds support for NetApp ONTAP 9 C-Mode and NDMP support for EMC VNX File 8.x
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HPE Backup Navigator

HPE Backup Navigator is a highly interactive and intuitive analytics, reporting and monitoring application that combines visualization and real-time backup analytics to simplify and optimize the backup and recovery experience for HPE Data Protector environments.

- **Intelligent dashboards** – Gain valuable insights into the key performance indicators of the backup and recovery process from interactive and customizable dashboard reports.
 - **Real-Time predictive analytics** - Gain visual foresight into the backup and recovery process based on daily use, along with trending and forecasting algorithms to reveal future performance and capacity gaps and requirements .
 - **Rapid root-cause analysis and problem solving** - Proactively detect and address potential resource conflicts and systematic/systemic issues before they cascade into outages and data loss that negatively impact business operations.
 - **Collaboration and cross-system support** - Automate the report creation process, allowing them to be scheduled and shared within the organization, or securely isolated and made available to external customers relying on the service.
 - **Flexible reporting** – Customize and tailor reports to match the specific needs of the operator, organization, or customer, relying on the details for decision-making and taking appropriate action.
 - **"What-if" scenario evaluation** - Get intelligent insights into backup and recovery operations before new datasets are included , i.e. whether or not service-level agreements remain achievable, the impacts to the backup infrastructure, and the best ways to balance the demands of new datasets within the existing infrastructure.
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What's new in HPE Backup Navigator 9.51

- Support for the latest versions of Data Protector 9.08 and 9.09
- Custom reports within Backup Navigator using a single, easy to use wizard.
- Performance improvements for data collection and reporting, enhanced monitoring for performance
- Enhancements for reports including adding 'application type', 'backup type' and more to the 'list of sessions report', along with a new application **status report**
- Alerts when a monitor alert created has failed, enabling a faster time-to-restore for IT operations teams.
- Other improvements such as rendering reports in .svg instead of .png/.jpg, ability to interrupt report generation, and the ability to acknowledge and resolve multiple alerts at once have been added to this release.

HPE Data Protector Operations Manager integration

HPE Data Protector Smart Plug-in for HPE Operations Manager 9.0 and HPE Data Protector Management Pack 9.0 enable real-time intelligent monitoring, analysis, isolation, remediation and reporting solution for HPE Data Protector environments. IT administrators can always be up-to-date by continually monitoring the health and state of each component of the backup infrastructure.. HPE Data Protector Smart Plug-in for HPE Operations Manager is an extension to HPE Operations Manager while HPE Data Protector Management Pack is offered as an extension for Microsoft Systems Center Operations Manager. These products provide the following benefits:

- **Real-time discovery, visualization and utilization analysis** - proactively monitor, cross-correlate, and auto-detect issues that impact backup and recovery operations in heterogeneous virtualized and physical infrastructures
- **Instant diagnostics and actionable insight** – separates cause from effect and dramatically accelerates diagnosis in simple or complex backup infrastructures providing actionable information by pinpointing the real root cause of data protection

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problems more quickly and accurately

- **Context-sensitive issue isolation with assistive remediation** – configurable alerting for correlated events, sustained conditions and escalations enabling the IT staff to remain abreast of critical issues in the backup and recovery infrastructure with assistive troubleshooting
 - **Collaboration and cross-system support** - automate the report creation process, allowing them to be scheduled and shared within the organization, or securely isolated and made available to external customers relying on the backup and recovery service.
 - **Flexible visualization and reporting** – intelligent insights can be presented graphically and tailored to the needs of the IT administrator enabling them to discover ways to improve utilization, identify unused components to better load balance workloads, identify whether service-level agreements remain achievable, and visualize the precise information needed to enable proactive decision making and taking the most appropriate action
- Manage and control backup and recovery operations** – context-sensitive orchestration of the HPE Data Protector backup and recovery technology stack (backup target(s)-to-cells-to-cell managers-to-backup agents) and control over the actions that can be taken on each to achieve a well-defined and fully optimized data protection posture

HPE Storage Optimizer

HPE Storage Optimizer software is a compelling new option for IT departments looking to cut the cost and complexity of storing and managing vast volumes of unstructured data. It is an analytics-driven solution that combines some of the best features of HPE ControlPoint file analytics software with advanced features from our policy-based storage tiering and information optimization capabilities. It offers you:

- Increased cost containment with added intelligence
- Better infrastructure management
- Enhanced ability to meet internal objectives
- Take a giant step forward toward a holistic information governance strategy

What's new in Storage Optimizer 5.40

- Increased performance and speed of operations to analyze more files
 - Enhanced dashboard reporting with usage details to allow customers to compare against their capacity license purchased
 - Support for Federal Information Processing Standards (FIPS) security module
 - Improved Logging for Edge Filesystem Connector
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Licenses, Services and Warranties

Distribution Media DVD (physical), download (electronic)

Documentation

Data Protector software manuals are available in PDF format. Install the PDF files during the Data Protector software setup procedure by selecting the English Documentation (Guides, Help) component on Windows or the OB2-DOCS component on UNIX. Once installed, the manuals reside in the <Data_Protector_home>\docs directory on Windows and in the /opt/omni/doc/C/ directory on UNIX. Data Protector software support matrices can be found at the above mentioned locations in the support_matrices sub-directory. You can also find the manuals in PDF format at <http://softwaresupport.hpe.com/>

Data Protector software also provides Help topics and context-sensitive (F1) Help for Windows and UNIX platforms. You can access the Help from the top-level directory of any installation DVD-ROM without installing Data Protector:

- Open DP_help.chm (on Windows)
- Unpack the zipped tar file DP_help.tar.gz, and access the Help system through DP_help.htm (on UNIX)

The latest version of the Acrobat Reader software is available at: <http://www.adobe.com>.

Documentation

The HPE Data Protector documentation set consists of the following guides:

HPE Data Protector Getting Started Guide

This guide provides an overview of the basic Data Protector functionality and is designed to help you get started with the product

HPE Data Protector Concepts Guide

This guide describes Data Protector concepts and provides background information on how Data Protector works. It is intended to be used with the task-oriented online Help.

HPE Data Protector Installation and Licensing Guide

This guide describes how to install the Data Protector software, taking into account the operating system and architecture of your environment. This guide also gives details on how to upgrade Data Protector, as well as how to obtain the proper licenses for your environment.

HPE Data Protector Troubleshooting Guide

This guide describes how to troubleshoot problems you may encounter when using Data Protector.

HPE Data Protector Disaster Recovery Guide

This guide describes how to plan, prepare for, test, and perform a disaster recovery.

HPE Data Protector Integration Guides

These guides describe how to configure and use Data Protector to back up and restore various databases and applications. They are intended for backup administrators or operators. There are six guides:

- **HPE Data Protector Integration Guide for Microsoft Applications: SQL Server, SharePoint Server, and Exchange Server**

This guide describes the integrations of Data Protector with the following Microsoft applications: Microsoft SQL Server, Microsoft SharePoint Server, and Microsoft Exchange Server.

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- **HPE Data Protector Integration Guide for Oracle and SAP**
This guide describes the integrations of Data Protector with Oracle Server, SAP R/3, and SAP MaxDB.
- **HPE Data Protector Integration Guide for IBM Applications: Informix, DB2, and Lotus Notes/Domino**
This guide describes the integrations of Data Protector with the following IBM applications: Informix Server, IBM DB2 UDB, and Lotus Notes/Domino Server.
- **HPE Data Protector Integration Guide for Sybase, Network Node Manager, and Network Data Management Protocol Server**
This guide describes the integrations of Data Protector with Sybase Server, HPE Network Node Manager, and Network Data Management Protocol Server.
- **HPE Data Protector Integration Guide for Virtualization Environments**
This guide describes the integrations of Data Protector with virtualization environments: VMware Virtual Infrastructure and VMware vSphere, Microsoft Hyper-V, and Citrix XenServer.
- **HPE Data Protector Integration Guide for Microsoft Volume Shadow Copy Service**
This guide describes the integration of Data Protector with the Microsoft Volume Shadow Copy Service. This guide also documents application writer specifics.

HPE Data Protector Zero Downtime Backup Concepts Guide

This guide describes Data Protector zero downtime backup and instant recovery concepts and provides background information on how Data Protector works in a zero downtime backup environment. It is intended to be used with the task-oriented HPE Data Protector Zero Downtime Backup Administrator's Guide and the HPE Data Protector Zero Downtime Backup Integration Guide.

HPE Data Protector Zero Downtime Backup Administrator's Guide

This guide describes how to configure and use the integration of Data Protector with HPE P6000 EVA Disk Array Family, HPE P9000 XP Disk Array Family, HPE P4000 SAN Solutions, NetApp and EMC Symmetrix Remote Data Facility and TimeFinder. It is intended for backup administrators or operators. It covers the zero downtime backup, instant recovery, and the restore of file systems and disk images.

HPE Data Protector Zero Downtime Backup Integration Guide

This guide describes how to configure and use Data Protector to perform zero downtime backup, instant recovery, and standard restore of Oracle Server, SAP R/3, Microsoft Exchange Server, and Microsoft SQL Server databases.

HPE Data Protector Integration Guide

This guide describes how to configure and use the following:

- IBM Informix Server integration, IBM DB2 UDB integration, and IBM Lotus Notes/Domino Server integration.
- Microsoft SQL server integration, Microsoft SQL Server 2007/2010/2013 integration, Microsoft SharePoint Server VSS based solution, Microsoft Exchange Server 2007 integration, Microsoft Exchange Server 2010 integration, and Microsoft Exchange Single Mailbox integration.
- Oracle Server integration, SAP R/3 integration, SAP MaxDB integration, and SAP HANA Appliance integration.
- Sybase Server integration, Network Data Management Protocol Server integration, and NetApp SnapManager solution.
- VMware - Virtual Environment integration and Microsoft Hyper-V - Virtual Environment integration.

HPE Data Protector Product Announcements, Software Notes, and References

This guide gives a description of new features of the latest release of HPE Data Protector software. It

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also provides information on installation requirements, required patches, and limitations, as well as known issues and workarounds.

HPE Data Protector Command Line Interface Reference

This guide describes the Data Protector command-line interface, command options and their usage as well as providing some basic command-line examples.

Support Matrices

For a detailed list of application platforms, hardware, operating systems supported please refer to the Data Protector matrices located at the <https://softwaresupport.hpe.com>

Software Licensing

NOTE: Beginning with Data Protector 8.10, new license key passwords will be issued. All old passwords (issued for DP versions prior to 8.10) are no longer valid and not recognized by HPE Data Protector 8.10. For newly purchased licenses, you need to select the product version (7.00 or earlier, 8.00 or 8.10) when requesting a password. A password generated for HPE Data Protector 8.10 will not work with any previous version of Data Protector. Existing Data Protector customers need to have a valid active support agreement in place, covering the quantity and types of licenses eligible to upgrade their license passwords.

HPE Data Protector supports 2 licensing schemes:

- Traditional licensing based on features and backup targets - available for all versions of HPE Data Protector software
- Capacity Based Licensing - available with HPE Data Protector 7.01 and above

Traditional Licensing

Data Protector supports essentially three different backup targets (snapshot, disk and tape). Depending on which one used, you would license one or all targets as they also can be combined. In addition you can control the performance of the backup by parallelizing use of targets. The product structure is modular and offers a lot of flexibility. You can order the license that provides the Data Protector software functionality, which best meets the specific requirements of your environment.

The Data Protector software product structure and licensing consists of three main categories:

- The Starter Packs: A management server (Cell Manager) is supported on HP-UX, Windows and Linux.
- Backup targets such as:
 - Tape drive licenses, referred to as Drive Extensions
 - Advanced Backup to Disk, licensed by capacity and
 - Zero Downtime Backup, licensed by capacity
- Data Protector Functional Extensions: The functional extensions licenses are required once per instance (system, library and terabyte) for on-line backup of databases and applications, the Manager-of-Managers functionality, for libraries with more than 60 media slots, encryption, Instant Recovery, NDMP, Granular Recovery Extension. The Starter Pack and Drive extensions and Library extensions passwords are bound to the Cell Manager and are valid for the entire Data Protector cell. Clients do not require any license for file system or disk image backups. Licenses of the Functional Extensions category either apply only to a specific client that is protected or cover the entire cell, depending on the license type.

NOTE: The UNIX product licenses operate on the UNIX, Windows and Linux platforms, providing the functionality regardless of the platform, while the Windows product licenses operate on the Windows

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and Linux platforms only. Passwords are bound to the Cell Manager and are valid for the entire Data Protector cell. Clients do not require any license for file system or disk image backups.

Capacity Based Licensing

The Data Protector Capacity Based License (CBL) product structure is based on the volume of primary data protected by HPE Data Protector. The capacity is measured in "Front End Terabytes" or Front End TB. The total amount of Front End Terabytes is defined as the aggregate amount of source data being backed up from all systems. Per system it is measured as the largest full backup. That is, the total amount of source data backed up. The licensing in this product structure is perpetual and covers existing or new infrastructure and applications. For additional detail please refer to the HPE Data Protector Capacity Based Licensing section later in this document.

The following features are included in the Data Protector Capacity Based License:

- Cell Managers & Manager of Managers
- Tape Drives and Libraries
- Online Backup & Granular Recovery Extensions
- Zero Downtime Backup & Instant Recovery for HP and non-HP arrays
- Advanced Backup to Disk & NDMP
- Extended Online Backup

In addition to the Data Protector Capacity Based License (CBL) product structure, two new licenses are introduced called the Adaptive Backup and Recovery (ABR) Suite Premium Edition and the Adaptive Backup and Recovery (ABR) Suite Ultimate Edition.

The ABR Suite Premium Edition includes the Data Protector Capacity Based License and Backup Navigator capacity based license. The ABR Suite Ultimate Edition includes the Data Protector Capacity Based License, Backup Navigator capacity based license and the Storage Optimizer license.

The complementary products that are also sold separately are:

- Software encryption
- HPE Backup Navigator
- Data Protector Management Pack
- Data Protector Smart Plug-in for HPE Operations Manager
- HPE Storage Optimizer

NOTE: Traditional and Capacity product structures can be utilized by the same customer but they cannot be combined on the same Cell Manager or MoM environment. The complementary products listed are the exception to this as these license can be combined with both Data Protector Traditional and Capacity Based Licensing methods. Migration from traditional product structure to capacity based product structure is supported – please contact your authorized Hewlett Packard Enterprise sales representative for details. Both licensing models are valid for any size of environment.

NOTE: For more information on IDOL integration and Integrated Cloud Backup, please contact your Hewlett Packard Enterprise sales representative.

Additional license authorizations and restrictions applicable to your software product are found at:
<http://www.hp.com/go/SWlicensing>

Software Warranty

Hewlett Packard Enterprise warrants only that the software media will be free of physical defects for a period of ninety (90) days from delivery. For more information about HPE Global Limited Warranty and

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Technical Support, visit: <http://h40059.www4.hp.com/warranty/support/tc.php>

HPE Software Support

HPE Foundation Care 24x7 Service

HPE Foundation Care 24x7 connects you to Hewlett Packard Enterprise 24 hours a day, seven days a week for assistance on resolving issues - hardware onsite response within four hours and software call back within two hours after opening your case. Make HPE your first call for hardware or software questions; Collaborative Support is included in all Foundation Care Services for this product and provides troubleshooting assistance on software such as Microsoft Server, Red Hat Linux, VMware and more. Three years' coverage recommended with HPE Care Pack Service.

NOTE: Support is NOT bundled with the software license and must be ordered separately. Orders that do not include a minimum of a 1-year support contract will be rejected.

For more information on these support offerings, please see: <http://www8.hp.com/us/en/software-solutions/customer-technical-support-services/>

HPE Services: Scalable, Flexible and Reliable

The HPE QuickStart Services provide customers with improved speed and confidence in IT infrastructure deployment, and prepare their IT staff and processes for operational success. These services are a suite of scalable, clearly defined service engagements that provide product and solution deployment consistent with HPE specifications. QuickStart Services help ensure a successful implementation, improve the productivity of your technical staff and allow your IT resources to stay focused on their core tasks and business priorities.

For more information contact your Hewlett Packard Enterprise sales representative or authorized business partner.

HPE Education

HPE Education is a well-established training department that strives at all times to deliver the best possible learning experience. With a team of experienced trainers and subject matter experts from around the world, our department offers you well designed training courses that range from Infrastructure Technologies, Pan-Enterprise Search, eDiscovery, Content Management, Customer Interactions through to Business Process Management, Records Management and eCommerce.

To learn more about HPE Education training offerings, including course detail, please visit https://inter.viewcentral.com/events/cust/default.aspx?cid=arcsight&pid=1&lid=5&bu_id=7,10

HPE Financial Services

HPE Financial Services provides innovative financing and financial asset management programs to help customers cost-effectively acquire, manage, and ultimately retire their HPE solutions. For more information on these services, please contact your Hewlett Packard Enterprise sales representative or visit: <http://www8.hp.com/us/en/hp-financial-services/index.html>

Configuration Information

Traditional Licensing

All UNIX Licenses-To-Use (LTU) can be used for Microsoft Windows, Linux systems if applicable

Step 1 - Starter Packs

Product Name	Description	Part Number	
HPE Data Protector Starter Packs	License Only		
	E-Delivery	for HP-UX	B6951BAE
	E-Delivery	for Windows	B6961BAE
	E-Delivery	for Linux	B6961CAE
		Media Only (DP 9.0)	
		English	TD586EA
		French	TD586EF
		Japanese	TD586EJ
		Simplified Chinese	TD586ES
		Media Only (DP 9.0)	
	E-Delivery	English	TD586EAE
	E-Delivery	French	TD586EFE
	E-Delivery	Japanese	TD586EJE
	E-Delivery	Simplified Chinese	TD586ESE
		Media Only (DP 8.1)	
		English	TD586DA
		French	TD586DF
		Japanese	TD586DJ
		Simplified Chinese	TD586DS
		Media Only (DP 8.1)	
E-Delivery	English	TD586DAE	
E-Delivery	French	TD586DFE	
E-Delivery	Japanese	TD586DJE	
E-Delivery	Simplified Chinese	TD586DSE	

NOTE: Please, make sure that latest patches are applied, in order to have access to the latest functionality and level of localization. Patches can be found at <http://support.openview.hp.com/selfsolve/patches>

The Starter Pack license is the foundation of a Data Protector backup environment and is required in all installations. It includes the license-to-use (LTU) for:

- one management server (cell manager) on the specified platform
- unlimited number of backup clients (agents) on any platform
- one drive license (B6951xx contains 1xB6953AA, and B6961xx contains 1xB6963AA)
- built in media management
- libraries up to 60 slots
- System Disaster Recovery options

Configuration Information

- sophisticated reporting (in Data Protector GUI and via the web)
- Service-centric management through integrations into HPE software. This license is obligatory.

Individual licenses are required for additional drives and additional functionality. All UNIX Starter Pack licenses can also be used as a substitute for a Windows, and or Linux Starter Pack.

The base Data Protector media kit consists of 3 DVDs, including HPE Data Protector for all platforms, all integrations into other HPE software, and electronic manuals.

Step 2 - Drive and Library Extensions

HPE Data Protector Backup Drive	Description	Part Number
E-Delivery	for UNIX, NAS, SAN	B6953AAE
HPE Data Protector Backup Drive	Description	Part Number
E-Delivery	for Windows, NetWare, Linux (Intel)	B6963AAE

For SAN, UNIX, NAS:

Includes the license-to-use (LTU) for one drive, directly attached to a UNIX, OpenVMS system, a NAS device or used in a SAN.

A drive can be a tape drive, a file device, or Magneto Optical drive.

At any given moment, you need as many licenses as there are drives in use for any operation, such as formatting, backup, media and object copying, media and object verifying, object mirroring, scanning, and disaster recovery. To allow all drives to be used simultaneously, you need as many licenses as there are configured drives. For example, in an object copy operation, all devices used require licenses, including the source and target backup devices. Licenses are not required for restore.

- Drive licenses cannot be shared between multiple Cells.
- This license can also be used as a substitute for the Windows, NetWare, and Linux license. However, if the drive is not used in a SAN, it is more affordable to use B6963AA.
- This license is required for NAS systems managed via NDMP (for example Network Appliance Filers and EMC Celerra File Servers), or NAS systems requiring a Data Protector proprietary Device Server (Media Agent), (for example HPE NAS 8000). NAS systems powered by Windows, NetWare, or standard Linux, which can run a standard Data Protector Device Server (Media Agent), require only the Data Protector drive extensions for Windows, NetWare, Linux (B6963AA).

For Windows, NetWare, Linux:

Includes the license-to-use (LTU) for one drive directly attached to a Windows, NetWare, or Linux (Intel) system. A drive can be a tape drive, a file device, or Magneto Optical drive.

At any given moment, you need as many licenses as there are drives in use for any operation, such as formatting, backup, media and object copying, media and object verifying, object mirroring, scanning, and disaster recovery. To allow all drives to be used simultaneously, you need as many licenses as there are configured drives. For example, in an object copy operation, all devices used require licenses, including the source and target backup devices. Licenses are not required for restore.

- Drive licenses cannot be shared between multiple Cells.
- In case that multiple systems access the drive in a SAN, the drive extension for UNIX, NAS, SAN (B6953AA) is required. A Fiber Channel point-to-point connection is not considered a SAN.

Configuration Information

- This license is valid for drives attached to NAS devices powered by Windows, NetWare or Linux, which can run a standard Data Protector Device Server (Media Agent).

For supported drives please refer to the Data Protector support matrixes at the following web link:

<http://www.hpe.com/software/dataprotector>

HPE Data Protector Library extension	Description	Part Number E-Delivery
E-Delivery	with 61-250 slots	B6957BAE
E-Delivery	with unlimited slots	B6958BAE
E-Delivery	upgrade to unlimited slots library	B6958CAE
Includes the license-to-use (LTU) for managing tape libraries with the number of physically available slots within one Data Protector Cell. Required once per library.		
<ul style="list-style-type: none"> STK silos using ACSLS and GRAU/EMASS library systems using DAS require the unlimited slots license. This license is based on the physical slots inside the library, not logical slots. For example Data Protector allows partitioning a physical 120 slots library into two logical 60 slots libraries. Still one 61 - 250 slots library extension is required Libraries with the capability to create virtual partitions also require the license based on the number of physically available slots once per physical library. In case of library sharing between multiple Cells, the Manager-of-Managers LTU is required for each Cell to license the library across all Cells with one license. Otherwise, one license is required for each Cell. For supported libraries please refer to the Data Protector support matrixes under: https://softwaresupport.hpe.com 		

Step 3 - Functional Extensions

HPE Data Protector On-line extension	Description	Part Number E-Delivery
E-Delivery	for UNIX	B6955BAE
E-Delivery	for Windows, Linux	B6965BAE
Includes the license-to-use (LTU) to perform on-line backup of databases and applications running on the specified platform. Required per server, it does not matter how many databases are running on the system. Even if databases of different types are running on the same system, only one license is required. As a general rule, every system responsible for storing application data to be protected in an online state requires a Data Protector online backup LTU.		
<ul style="list-style-type: none"> If a system runs multiple partitions, this LTU is required for each partition. In a cluster environment, each system participating in the cluster requires a LTU. In an Oracle RAC (Real Application Cluster) each cluster node with an installed Application Agent requires one Online Backup LTU. Online Backup LTUs are required when using Zero Downtime Backup to protect applications. Open file backup and restore using the Windows file system snapshot feature VSS (Volume Shadow copy Service) does not require the Online Backup LTU. However, Online Backup of databases, which are not part of the operating system, requires this Online Backup extension. System configuration backup does not require the Online Backup LTU. Required for MS Exchange Single Mailbox backup 		

Configuration Information

- Each node with a configured Oracle DataGuard standby database in Data Protector requires this license.
- Not required for HPE Network Node Manager Online Backup
- Not required for HPE Systems Insight Manager Online Backup.
- For supported databases please refer to the Data Protector support matrixes at: <https://softwaresupport.hpe.com>

Online Backup Licensing in Virtual Environments

- vStorage API for data protection (VADP) and VMware ESX/ESXi Server backup require one Online Backup LTU for Windows, Linux license per ESX/ESXi server
NOTE: VCB-host, vCenter Server and the VMware vCloud Director integration doesn't require a separate license as it is covered by the license per ESX host
- Microsoft Hyper-V environments require one Online Backup LTU for Windows/Linux license per physical Hyper-V server.
- Additional Online Backup LTU is highly recommended for each virtual machine that contains application-specific agents.
- For virtual environments, the same licensing requirements apply for array assisted snapshots - see ZDB&IR licensing description for more details.
- Online backup of an application/database on a VMware Virtual Machine requires one license per virtual machine. Previous script-based solutions can continue to be used without additional licensing, but those scripts are no longer supported by HPE and need to be maintained by the customer on versions Data Protector 6.1 and beyond.

Online Backup Licensing for Microsoft SharePoint

- For SharePoint environments, an Online Backup LTU is required for each physical or virtual system that contains persistent data, such as content databases or index servers.

HPE Data Protector Granular Recovery Extension

	Description	Part Number
E-Delivery	for 1-server Includes the license to restore single items from a backup done on a single server with a Data Protector Online Backup extension (in this case the DP Online Backup LTU is required).	TB737AAE

For other backup sources like offline backups or 3rd party backup of the GRE supported applications, one GRE license is needed per target server to which items will be recovered with GRE. The GRE license is locked to that server for 1 year; afterwards it can be used for a different server

Granular Recovery Extension Licensing for Microsoft SharePoint

- For SharePoint environments, a Granular Recovery Extension is required for each physical or virtual server that contains a content database which backup acts as a source for recovering a single document, a directory or an entire site.

Granular Recovery Extension Licensing for VMware

- For VMware, a Granular Recovery Extension (GRE) license is required for each ESX server that hosts one or multiple VM virtual machines during backup and which files are recovered using GRE.

One DP Online Backup LTU is required per system to perform a backup that can be used for Granular Recovery.

Granular Recovery Extension Licensing for Exchange

Configuration Information

The Granular Recovery Extension (GRE) for Microsoft Exchange 2010 requires a GRE license for each Exchange server that hosts one or multiple databases that needs to be backed up.

HPE Data Protector Encryption extension	Description	Part Number
E-Delivery	for 1-server/workstation	BB618AAE
E-Delivery	for 10-servers/workstations	BB618BAE
Includes the license-to-use (LTU) and media to encrypt all backup data of one HPE Data Protector client server or workstation with the HPE Data Protector AES 256 bit encryption software. Required once for each HPE Data Protector client (Agent / Application Agent) with encryption configured.		
<ul style="list-style-type: none"> • Tape drive based encryption is free of charge and does not require this license. • In a cluster environment, each system participating in the cluster requires a LTU. 		

HPE Data Protector Manager-of-Managers extension	Description	Part Number
E-Delivery	for UNIX	B6956AAE
E-Delivery	for Windows	B6966AAE
Includes the license-to-use (LTU) for each Data Protector management server (Cell Manager), running on the specified platform, to be part of a Manager-of-Managers environment.		
<ul style="list-style-type: none"> • Required to share tape libraries between multiple Data Protector cells. • Required in addition to the Cell Manager license. • Ideal solution for central backup management of branch offices. • B6956AA (Unix MoM) can also be used for a Windows management server (Cell Manager) if required 		

HPE Data Protector Advanced Backup to Disk extension	Description	Part Number
E-Delivery	for 1 TB	B7038AAE
E-Delivery	for 10 TB	B7038BAE
E-Delivery	for 100 TB	B7038CAE
<ul style="list-style-type: none"> • Includes the license-to-use (LTU) for 1 TB of backup disk storage. Required once per terabyte (TB) usable native capacity of backup disk storage. The "Advanced Backup to Disk" license is required to backup to a Data Protector File Library and to a Data Protector Backup To Disk Device Type, and can be used instead of drive licenses to backup to a Virtual Tape Library. • Usable native capacity of a HPE Data Protector Backup To Disk device is the size on disk of the Backup To Disk device consumed by all protected HPE Data Protector backups. This includes Data Protector StoreOnce Software Store, StoreOnce Catalyst, Data Domain Boost, Smart Cache and Cloud. • For Automated Replication Synchronization, only the source repository needs to be licensed to the source Cell Manager and the target repository needs to be licensed to the target Cell Manager. • The capacity contained in the Cloud Backup to Disk type will not count towards the Advanced Backup to Disk license capacity for the Data Protector 9.01 version of VMware Object Copy to HPE Helion cloud functionality. • Usable native capacity of a HPE Data Protector File Library is the available size on disk for the file library, as reported by the file system. 		
<ul style="list-style-type: none"> - HPE Data Protector synthetic full and virtual full backup: Virtual full backups and the incremental backups to be consolidated into a synthetic / virtual full backup must be 		

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stored in the HPE Data Protector file library, which requires this license.

Usable native capacity of a Virtual Tape Library (VTL) is the size on disk of the virtual tape library consumed by all protected HPE Data Protector backups as reported by the VTL.

- For each VTL you can choose whether to use the backup to disk or tape drive licensing model. Within one VTL, both concepts cannot be mixed.
- By default, HPE Data Protector treats VTL devices as ordinary libraries (such as SCSI II libraries). To utilize the advanced backup to disk licenses, the device must be marked as a VTL during the device configuration. See the online Help index entry: "virtual tape library" for more information.
- If the VTL has a built-in capability to migrate backup data to cheaper disk or tape, the migrated storage capacity must also be fully licensed. No drive and library licenses are required for the tape library exclusively controlled by the VTL, but the used capacity of all tapes in the physical tape library must be licensed. In some cases it may be more cost-effective to use the tape drive licensing model instead (B6953AA and B6963AA). This requirement does not apply when HPE Data Protector object copy is used to migrate the backup data to another disk or tape.
 - Licensing for HPE VLS Automigration - Automigration is a VLS media copy feature in Data Protector and can free up additional capacity on a VLS device by migrating data. Therefore, licensing for the migrated data is required, and the capacity of the media used for migration needs to be added to the total disk capacity of the VLS. In some cases it may be more cost effective to switch to drive licensing completely, as described above.
 - Licensing for VTL Replication: In cases where Data Protector is actively managing source and target devices in a replication set-up, licensing is required for both devices. In cases where Data Protector is not actively managing the target device, only the source device needs to be licensed. This includes the VLS Echo Copy feature, which is treated as replication.
- If HPE Data Protector is using the VTL exclusively, it is recommended to license a quantity matching the capacity of the VTL. HPE calls the physical VTL capacity "usable native capacity". Other vendors call it "raw capacity"
- If Advanced Backup to Disk licensing was purchased before July 1st, 2008, Hewlett Packard Enterprise is fully committed to protect customers' investments. This means you can choose to use this license for the VTL under the previous licensing terms: "Usable native capacity of a VTL is the space occupied by protected backups and protected backup copies and mirrors according to the Data Protector internal database. To keep virtual tape library licensing stress free and simple a compression rate of 2:1 is assumed for VTLs with no extra charge." Please note that using the previous model only makes sense if you do not use compression or deduplication technology. Otherwise, a better value is provided through the new licensing model.
- Due to this size on disk licensing concept, compression rates and deduplication rates do not need to be considered. The RAID configuration also does not need to be considered.
- For StoreOnce Recovery Manager Central (RMC) Zero Downtime Backup (ZDB) "disk + Express Protect" copies to StoreOnce Catalyst the Advanced Backup to Disk license is not required for the Express Protect copies made directly from 3PAR
- 1 TB = 1024 GB, 1 GB = 1024 MB, 1 MB = 1024 KB, 1 KB = 1024 bytes
- In case of central licensing with MoM, at minimum 1 TB needs to be assigned to each Cell using the Advanced Backup to Disk functionality. Separate individual licenses for each cell manager are not required, however"

HPE Data Protector		Description	Part Number
Zero Downtime Backup (ZDB) extension	E-Delivery	for UNIX 1TB	B7025CAE
	E-Delivery	for UNIX 10 TB	B7025DAE
	E-Delivery	for Linux 1 TB	TD588AAE

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E-Delivery	for Linux 10TB	TD589AAE
E-Delivery	for Windows 1TB	TD590AAE
E-Delivery	for Windows 10TB	TD591AAE

Includes the license-to-use (LTU) for one terabyte (TB) of "used primary disk space capacity" of UNIX, Linux, or Windows based backup, utilizing the snapshot capabilities of the disk array supported by Data Protector

"Used primary disk space capacity" is the total capacity of all primary disks on the disk array used by of UNIX, Linux, or Windows systems. The primary disks contain the application data and are protected by Data Protector.

In the case of the ZDB for Windows:

- via VSS disk array hardware provider
- or via Data Protector disk array native agents

The total capacity of primary disks represents the total true usable capacity of these disks; independent of the total size of the application data. Data Protector does not require licenses for the capacity consumed by the secondary volumes, mirrors, and snapshots that are used for data protection.

Used capacity differs from raw capacity in that RAID overhead is excluded. This means the RAID configuration does not need to be considered.

Please, be aware that the ZDB licenses for UNIX or Linux can also be used for Linux and Windows systems

For Zero Downtime Backup protection of VMware the ZDB for UNIX or Linux license is required.

For Zero Downtime Backup integration with StoreOnce Recovery Manager Central (RMC) the Zero Downtime Backup license is not required for used primary disk space capacity when the integration with RMC is used. Other licensing requirements such as online licenses still apply.

NOTE: A Data Protector Online Backup LTU (B6955BA, B6965BA) is additionally required per system to protect all applications using ZDB.

For supported applications please refer to the Data Protector support matrixes available at: <http://www.hpe.com/software/dataprotector>

HPE Data Protector Instant Recovery extension

	Description	Part Number
E-Delivery	for UNIX 1TB	B7028AAE
E-Delivery	for UNIX 10 TB	B7028DAE
E-Delivery	for Linux 1 TB	TD592AAE
E-Delivery	for Linux 10TB	TD593AAE
E-Delivery	for Windows 1TB	TD594AAE
E-Delivery	for Windows 10TB	TD595AAE

Includes the license-to-use (LTU) for one terabyte (TB) of "used primary disk space capacity" of UNIX, Linux, or Windows based backup utilizing the snapshot capabilities of the disk array supported by Data Protector.

"Used primary disk space capacity" is the total capacity of all primary disks on the disk array that are used by UNIX, Linux, or Windows systems. The primary disks contain the application data and are protected by Data Protector

Configuration Information

In the case of the IR for Windows:

- via VSS disk array hardware provider
- or via Data Protector disk array native agents

The total capacity of primary disks represents the total true usable capacity of these disks; independent of the total size of the application data. Data Protector does not require licenses for the capacity consumed by the secondary volumes, mirrors, and snapshots that are used for data protection.

Used capacity differs from raw capacity in that RAID overhead is excluded. This means the RAID configuration does not need to be considered.

Instant Recovery license is not required for VMware VADP array snapshot retention or recovery from snapshot operations.

Please, be aware that these IR licenses for UNIX can also be used for Linux and Windows systems.

NOTE: Requires an equivalent licensing of Zero Downtime Backup.

HPE Data Protector Direct Backup using NDMP

	Description	Part Number E-Delivery
E-Delivery	Direct Backup for NDMP, 1TB LTU	B7022BAE
E-Delivery	Direct Backup for NDMP, 10TB LTU	B7022DAE
E-Delivery	Direct Backup for NDMP, 100TB LTU	TD186AAE

Includes the license-to-use (LTU) to backup 1 TB, 10 TB or 100 TB of 1 NDMP Server. Required once per terabyte (TB) used disk space, for each file server being backed up via NDMP (e.g. Network Appliance Filers or EMC Celerra File Servers).

- Used disk space capacity is the total capacity of all volumes of the file server being backed up via NDMP. This amount represents the total usable capacity of these volumes, and matches with their configured LDEV sizes

Zero Downtime Backup for non-HPE Arrays

	Description LTU Only	Part Number
E-Delivery	DP ZDB non HPE Array UX 1TB SW E-LTU	H7P92AAE
E-Delivery	DP ZDB non HPE Array UX 10TB SW E-LTU	H7P93AAE
E-Delivery	DP ZDB non HPE Array Lin 1TB SW E-LTU	H7P94AAE
E-Delivery	DP ZDB non HPE Array Lin 10TB SW E-LTU	H7P95AAE
E-Delivery	DP ZDB non HPE Array Win 1TB SW E-LTU	H7P96AAE
E-Delivery	DP ZDB non HPE Array Win 10TB SW E-LTU	H7P97AAE

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Extended Online Backup

	Description LTU Only	Part Number
E-Delivery	HPE DP Extended Online backup for Win/Lin E-LTU	H7U62AAE

This license is valid for use with either Traditional or Capacity based Data Protector implementations. Includes the license-to-use (LTU) to perform on-line backup of MySQL and PostgreSQL databases and applications running on the specified platform. Required per server, it does not matter how many databases are running on the system. As a general rule, every system responsible for storing MySQL or PostgreSQL application data to be protected in an online state requires a Data Protector Extended online backup LTU.

Single Server Editions

HPE Data Protector, Single Server Edition	Description	Part Number E-Delivery
	LTU Only	
E-Delivery	for HP-UX	B7020BAE
E-Delivery	for Windows	B7030BAE
	Migration To Starter Pack	
E-Delivery	for HP-UX	B7021AAE
E-Delivery	for Windows	B7031AAE

Includes the license to backup one single server on the specified platform with an unlimited number of UNIX and/or Windows workstations, one backup drive; and the ability to manage one autochanger/library with up to 10 slots.

The Single Server Edition for Windows can only manage Windows workstations

To obtain the following functionality the Single Server Edition has to be migrated to the Starter Pack via the migration LTU:

- additional backup clients (agents) on any platform
- additional backup drives
- the ability to manage autoloaders/libraries with more than 10 slots
- systems disaster recovery
- sophisticated reporting (in the Data Protector GUI and via the web)
- SAN support (with the management server for HP-UX)
- service-centric management through integrations into HPE Software

Once migrated, additional drives as well as further additional functionality can be ordered via separate LTUs.

To order the migration LTU, a single server edition LTU is required.

NOTE: An upgrade from Single Server edition to Capacity Based license model is not supported.

Configuration Information

HPE Data Protector Capacity Based Licensing

Capacity Tiers	Description	Part Number E-Delivery
	LTU Only	
E-Delivery	DP per TB, 1-9 TB LTU	TF521AAE
E-Delivery	DP per TB, 10-49TB LTU	TF542AAE
E-Delivery	DP per TB, 50-99 TB LTU	TF543AAE
E-Delivery	DP per TB, 100-249 TB LTU	TF544AAE
E-Delivery	DP per TB, 250-499 TB LTU	TF558AAE
E-Delivery	DP per TB, 500TB-1 PB LTU	TF561AAE
E-Delivery	DP per TB, >1PB	TF582AAE
	Media Only (DP 9.0)	
	English	TD586EA
	French	TD586EF
	Japanese	TD586EJ
	Simplified Chinese	TD586ES
	Media Only (DP 9.0)	
E-Delivery	English	TD586EAE
E-Delivery	French	TD586EFE
E-Delivery	Japanese	TD586EJE
E-Delivery	Simplified Chinese	TD586ESE
	Media Only (DP 8.1)	
	English	TD586DA
	French	TD586DF
	Japanese	TD586DJ
	Simplified Chinese	TD586DS
	Media Only (DP 8.1)	
E-Delivery	English	TD586DAE
E-Delivery	French	TD586DFE
E-Delivery	Japanese	TD586DJE
E-Delivery	Simplified Chinese	TD586DSE

The Capacity Based License (CBL) product structure is based on the volume of primary data protected by HPE Data Protector. The capacity is measured in "Front End Terabytes" or Front End TB. The total amount of Front End Terabytes is defined as the aggregate amount of source data being backed up from all systems. Per system it is measured as the largest full backup. That is, the total amount of source data backed up. The licensing in this product structure is perpetual and covers existing or new infrastructure and applications. Capacity calculation details:

- For a full & incremental backup concept, only full are considered
- For an incremental forever, a "synthetic" full is used

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- Only objects with a status of “completed” or “completed with errors” are included in the calculation
- Only objects which are still under protection are included in the calculation
- The capacity per system is calculated as an aggregation of the largest size of each unique object for that system still under protection

Limitations:

- Backup of the same database with multiple agents will be counted multiple times. Some examples of scenarios where capacity will be counted multiple times:
 - A file system backup of a database using VSS and an application integration agent of the same database.
 - A virtual environment integration backup of a virtual machine and a file system backup of the same data within that virtual machine.
- When an Oracle backup object name format is externally reconfigured in such a way that Data Protector is not be able to resolve the Oracle database name from the object name the unique capacity will be counted multiple times. To avoid this the reconfigured object name must include the Oracle database name and be in the format “<DBID_*.dbf”.

The capacity based license includes the following features of HPE Data Protector software:

- Cell Managers & Manager of Managers
- Tape Drives and Libraries
- Online Backup & Granular Recovery Extensions
- Zero Downtime Backup & Instant Recovery for HP and non-HP arrays
- Advanced Backup to Disk & NDMP
- HPE Extended Online Backup

The complementary products that are sold separately are:

- Encryption software
- HPE Backup Navigator
- Data Protector Management Pack
- Data Protector Smart Plug-in for HPE Operations Manager
- Storage Optimizer

The capacity purchase tier in Data Protector capacity based license scheme is determined by the total TB of DP capacity license owned by the customer.

- An initial purchase of a 63 TB would be at the HPE DP per TB, 50-99 TB tier: 63X TF543AAE

Total capacity owned after the purchase determines the tier from which the purchase should be made. Here is an example scenario where a customer purchases an 8 TB of DP capacity first and then makes subsequent purchases of a 5TB and a 50 TB of DP capacity. Here is what each order will include:

- An initial purchase of an 8 TB capacity will be at the HPE DP per TB, 1-9 TB tier: 8X TF521AA
- The second purchase of 5 more TB will be at HPE DP per TB, 10-49 TB tier: 5X TF542AA
- The next purchase of 50 TB will be HPE DP per TB, 50-99 TB tier: 50X TF543AA

Here are some example scenarios for Capacity Based licensing:

- If a customer has 200 TB of data to protect and backs up to a dedupe store that only uses 20 TB they would still need 200 TB capacity license

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- If a customer has 100 TB of data but only protects 10 TB of this data they would only need a 10 TB capacity license
- If a customer backs up the same 10 TB multiple times, only a 10 TB capacity license is needed.

In case of central licensing with MoM, at minimum 1 TB needs to be assigned to each Cell Manager.

NOTE: 1 PB = 1024 TB, 1 TB = 1024 GB, 1 GB = 1024 MB, 1 MB = 1024 KB, 1 KB = 1024 bytes

NOTE: Traditional and Capacity product structures can be utilized by the same customer but they cannot be combined on the same Cell Manager or MoM environment. The complementary products listed are the exception to this as these license can be combined with both Data Protector Traditional and Capacity Based Licensing methods. Migration from traditional product structure to capacity based product structure is supported – please contact your authorized Hewlett Packard Enterprise sales representative for details. Both licensing models are valid for any size of environment.

NOTE: For more information on IDOL integration and Integrated Cloud Backup, please contact your Hewlett Packard Enterprise sales representative.

Adaptive Backup and Recovery Suite Premium Edition

Capacity Based Tiering	Description	Part Number E-Delivery
	LTU Only	
E-Delivery	DP per TB, 1-249 TB LTU	P8C07AAE
E-Delivery	DP per TB, 250-499 TB LTU	P8C08AAE
E-Delivery	DP per TB, 500-1PB LTU	P8C09AAE
E-Delivery	DP per TB, >1PB LTU	P8C10AAE
E-Delivery	DP capacity to ABR Premium (1-249TB)	P8C04AAE
E-Delivery	DP capacity to ABR Premium (250-499TB)	P8C05AAE
E-Delivery	DP capacity to ABR Premium (500TB-1PB)	P8C06AAE
E-Delivery	DP capacity to ABR Premium (1PB+)	P8C17AAE

The Adaptive Backup and Recovery (ABR) Suite Premium Edition includes Data Protector capacity based license and Backup Navigator license. Upgrades from Data Protector capacity based licenses to the ABR Premium Edition.

Adaptive Backup and Recovery Suite Ultimate Edition

Capacity Based Tiering	Description	Part Number E-Delivery
E-Delivery	DP per TB, 1-249 TB LTU	P8C64AAE
E-Delivery	DP per TB, 250-499 TB LTU	P8C65AAE
E-Delivery	DP per TB, 500-1PB LTU	P8C66AAE
E-Delivery	DP per TB, >1PB LTU	P8C67AAE
E-Delivery	DP capacity to ABR Ultimate(1-249TB)	P8C75AAE
E-Delivery	DP capacity to ABR Ultimate (250-499TB)	P8C76AAE
E-Delivery	DP capacity to ABR Ultimate (500TB-1PB)	P8C77AAE
E-Delivery	DP capacity to ABR Ultimate (1PB+)	P8C78AAE
E-Delivery	DP+BN to ABR Ultimate (1-249TB)	P8C69AAE
E-Delivery	DP+BN to ABR Ultimate (249TB-499TB)	P8C70AAE
E-Delivery	DP+BN to ABR Ultimate (500TB-1PB)	P8C71AAE
E-Delivery	DP+BN to ABR Ultimate (1PB+)	P8C72AAE
E-Delivery	ABR Premium to ABR Ultimate (1-249TB)	P8C79AAE

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E-Delivery	ABR Premium to ABR Ultimate (249-499TB)	P8C80AAE
E-Delivery	ABR Premium to ABR Ultimate (500TB-1PB)	P8C81AAE
E-Delivery	ABR Premium to ABR Ultimate (1PB+)	P8C82AAE

The Adaptive Backup and Recovery (ABR) Suite Ultimate Edition includes Data Protector capacity based license, Backup Navigator license and Storage Optimizer licenses. Upgrades from Data Protector capacity based licenses or Data Protector and Backup Navigator licenses as well as ABR Premium Suite are available to the ABR Premium Edition

HPE Data Protector Complementary Products

HPE Backup Navigator

Description

Part Number E-Delivery

LTU Only

E-Delivery	HPE Backup Navigator per TB, 1-9TB SW E-LTU	A8G54AAE
E-Delivery	HPE Backup Navigator per TB, 10-49TB SW E-LTU	A8G55AAE
E-Delivery	HPE Backup Navigator per TB, 50-99TB SW E-LTU	A8G56AAE
E-Delivery	HPE Backup Navigator per TB, 100-249TB SW E-LTU	A8G57AAE
E-Delivery	HPE Backup Navigator per TB, 250-499TB SW E-LTU	A8G58AAE
E-Delivery	HPE Backup Navigator per TB, 500-1000TB SW E-LTU	A8G59AAE
E-Delivery	HPE Backup Navigator 1PB+ SW E-LTU	A8G60AAE

This license is valid for use with either Traditional or Capacity based Data Protector implementations. One LTU is required per TB of primary data protected by HPE Data Protector. The capacity calculation is the same as for the Data Protector capacity based licensing.

E-Delivery	HPE Backup Navigator Token License SW E-LTU	P8C03AAE
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This license is valid for use with either Traditional or Capacity based Data Protector implementations. Each LTU represents a token. The number of tokens needed is based on the amount and type of licenses installed on the Data Protector cell manager(s).

E-Delivery	HPE Backup Navigator Single Cell Manager Upgrade LTU	H759AAE
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This license is valid for use with either Traditional or Capacity based Data Protector implementations. One LTU is required per Backup Navigator Single Cell Manager to upgrade to multiple Data Protector Cell Managers and enable capacity expansion with HPE Backup Navigator capacity licenses. H7U58AAE + H7U59AAE = (qty 10 of A8G55AAE). The capacity calculation is the same as for the Data Protector capacity based licensing.

Media Only (Backup Navigator 9.3)

E-Delivery	English Media Only (Backup Navigator	H7P25EA
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Configuration Information

		9.3)	
		English	H7P25EAE
DP SPI for HPE Ops Mgr	E-Delivery	HPE DP SPI for HPE Ops Manager SW E-LTU	H7U60AAE
		Media Only (DP SPI for HPE Ops Mgr 9.0)	
	E-Delivery	English	H7U61AAE
		This license is valid for use with either Traditional or Capacity based Data Protector implementations. One LTU is required per Data Protector Cell Manager. Includes integration with HPE Operations Manager.	
DP Management Pack	E-Delivery	HPE DP Management Pack SW E-LTU	H7P27AAE
		Media Only (DP Management Pack 9.0)	
	E-Delivery	English	H7P26BAE
		This license is valid for use with either Traditional or Capacity based Data Protector implementations. One LTU is required per Data Protector Cell Manager. Includes integration with Microsoft System Center Operations Manager.	
HPE Storage Optimizer	E-Delivery Only		
		DP per TB, 1-249 TB LTU	P8C60AAE
		DP per TB, 250-499 TB LTU	P8C61AAE
		DP per TB, 500-1PB LTU	P8C62AAE
		DP per TB, >1PB LTU	P8C63AAE
		One LTU is required per TB for unstructured data by HPE Storage Optimizer. Storage Optimizer lets you intelligently manage unstructured data and distribute information across multiple storage repositories, including the cloud.	

For more information on Hewlett Packard Enterprise Data Protector software

- <http://www.hpe.com/software/dataprotector>

To learn more about HPE Information Management solutions, visit

- <http://www8.hp.com/us/en/software-solutions/information-management/>

Summary of Changes

Date	Version History	Action	Description of Change:
27-Mar-2017	From Version 58 to 59	Changed	Added section on Data Protector 9.0.9, Backup Navigator 9.51 and Storage Optimizer 5.4. Removed all physical SKUs from the list.
09-Dec-2016	From Version 57 to 58	Changed	Added section on Backup Navigator 9.50 and Token based licensed. Also added the new ABR Premium and Ultimate license details and Storage Optimizer SKUs
14-Oct-2016	From Version 56 to 57	Changed	Added section on what's new with Data Protector 9.08
24-Jun-16	From Version 55 to 56	Changed	Added section on what's new with Data Protector 9.07 and Backup Navigator 9.40
8-Apr-16	From Version 54 to 55	Changed	Changes were made throughout quickspecs
22-Jan-16	From Version 53 to 54	Changed	Content updated on the entire document
4-Sep-15	From Version 52 to 53	Changed	Changes were made throughout quickspecs
24-Apr-15	From Version 51 to 52	Changed	Updated the Integration Guide detail, Backup Navigator 9.1 product numbers, Capacity license description
13-Feb-15	From Version 50 to 51	Changed	Changes on the Licenses, Services and Warranties Section
16-Jan-15	From Version 49 to 50	Changed	Changes were made throughout quickspecs
4-Aug-14	From Version 48 to 49	Changed	Changes were made throughout quickspecs
9-May-14	From version 47 to 48	Changed	Updated HP Software Support
17-Jan-14	From Version 46 to 47	Changed	Changes made to the Overview: Key Product Highlights, Software Licensing and Configuration Information sections.
1-Sep-13	From Version 45 to 46	Changed	Changes made to the Countries available under Media
10-Jun-13	From Version 44 to 45	Changed	Changes made throughout the QuickSpec
4-Dec-12	From Version 43 to 44	Changed	Changes made in the Overview, Installation Server and Client System Requirements, and Configuration.
24-Oct-12	From Version 42 to 43	Changed	Changes made throughout the QuickSpec
14-Sep-12	From Version 41 to 42	Changed	Changes made to the Configuration Information section
26-Aug-12	From Version 40 to 41	Changed	Changes made throughout the QuickSpec
29-Jun-12	From Version 39 to 40	Changed	Changes made to Installation Server and Client System Requirements and Configuration sections.
11-May-12	From Version 38 to 39	Changed	Changes made throughout the QuickSpec
21-Dec-11	From Version 37 to 38	Changed	Changes made throughout the QuickSpec
7-Sep-11	From Version 36 to 37	Changed	Minor edit made in Step 3 of the Configuration section
24-Jun-11	From Version 35 to 36	Changed	Minor edits were made throughout
9-Jun-11	From Version 34 to 35	Removed	Mentions of StorageWorks were removed
2-Jun-11	From Version 33 to 34	Removed	Duplicate text was removed from Step 3
8-Apr-11	From Version 32 to 33	Changed	Changes were made throughout
9-Jul-10	From Version 31 to 32	Changed	Revisions were made throughout the QuickSpec, including changing Data Protector to version 6.11, completely revising Configuration Information and adding all mentions of Granular recovery
26-Mar-10	From Version 30 to 31	Added	To learn more, visit www.hp.com/im was added to the Copyright.
16-Oct-09	From Version 29 to 30	Changed	HP Services: Scalable, Flexible and Reliable was updated in the Licenses, Services and Warranties section and Step 3 of the Configuration Information section.
12-Jun-09	From Version 28 to 29	Changed	Updated version numbers for HP-UX (PA-RISC) and HP-UX (IA64) for Software Pre-Requisites in the Hardware and Software Pre-Requisites section Modified link for Software Warranty in the Licenses, Services

Summary of Changes

			<p>and Warranties section</p> <p>Revised part numbers for HP-UX, Sun Solaris and Windows for HP Data Protector, Single Server Edition in the Configuration Information section</p> <p>Removed Licenses history from HP Software Support 9x5 and added Rapid call-back for the most critical (Severity 1) problems to HP Software Support 24x7 for Software Support in the Licenses, Services and Warranties section</p> <p>Removed link from HP Services: Scalable, Flexible and Reliable in the Licenses, Services and Warranties section</p>
3-Apr-09	From Version 27 to 28	Changed	HP Data Protector On-line extension and HP Data Protector Advanced Backup to Disk extension were updated in Step 3 of the Configuration section and Business Problems and Customer Benefits were removed with the Customer Benefits section.
9-Jan-09	From Version 26 to 27	Added	NOTE to HP Software Support in the Licenses, Services and Warranties section.
29-Dec-08	From Version 25 to 26	Changed	Changes were made throughout the entire QuickSpec, excluding the Application Platforms section
27-Jun-08	From Version 24 to 25	Added	Added a note to the Licenses, Services and Warranties/Software Product Support section
		Changed	Minor grammatical and formatting changes were made throughout the Quickspec
25-Jan-08	From Version 23 to 24	Changed	Changed the title and all occurrences of "HP Data Protector Software" to "HP Data Protector software"
7-Sep-07	From Version 22 to 23	Changed	Changes made within the What's New section and in Step 2 of the Configuration Information section.
13-Jul-07	From Version 21 to 22	Changed	Changes made within the Configuration Information section only
19-Jun-07	From Version 20 to 21	Changed	Changes made throughout the QuickSpec except for the Application Platforms section
11-Jun-07	From Version 19 to 20	Added	Added EMEA version
13-Apr-07	From Version 18 to 19	Changed	Step 2 of the Configuration Information section was reformatted.
12-Feb-07	From Version 17 to 18	Changed	Changes made throughout the entire QuickSpec except for the Hardware Support and Application Platforms sections. NOTE that the title has changed.
24-Nov-06	From Version 16 to 17	Changed	The URL in the Software Product Support object was changed.
		Changed	The Part Number for Windows, Netware, Linux in HP OpenView Storage Data Protector Backup Drive was corrected
13-Nov-06	From Version 15 to 16	Changed	Updated the What's New section and the CONFIGURATION INFORMATION section was rewritten
1-Sep-06	From Version 14 to 15	Changed	Updated the What's New section and Step 1 in the CONFIGURATION INFORMATION section
2-Jun-06	From Version 13 to 14	Changed	Updated Steps 1 and 3 in the CONFIGURATION INFORMATION section
		Added	Added a NOTE to the CONFIGURATION INFORMATION section

Summary of Changes

5-May-06	From Version 12 to 13	Changed	Removed the "not" from "cannot" in Step 3 of the Configuration Information Section
24-Apr-06	From Version 11 to 12	Changed	The entire QuickSpec was rewritten
1-Aug-05	From Version 10 to 11	Changed	A URL in Step 3 of the Configuration Information section was corrected.
14-Jan-05	From Version 9 to 10	Changed	Only minor grammatical corrections were made
3-Nov-04	From Version 8 to 9	Changed	Only minor grammatical corrections were made.
1-Nov-04	From Version 7 to 8	Changed	The entire QuickSpec was rewritten
23-Jun-04	From Version 6 to 7	Changed	The only change was made in the Backup Agents section of Application Platforms
24-Feb-04	From Version 5 to 6	Removed	Removed mention of EVA models from the Data Protector models section.
9-Oct-03	From Version 4 to 5	Changed	Configuration information
30-Sep-03	From Version 3 to 4	Changed	Changes for this announcement applied to all sections of the QuickSpec. Please note the title has been changed as well. Models and Configuration Information: Cell Manager has been replaced with Starter Pack.
25-Aug-03	From Version 2 to 3	Changed	Document was reformatted.
23-Jul-03	From Version 1 to 2	Changed	2 URLs were updated



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C04109270 - 11671 - Worldwide - V59 - 27-March-2017