

HPE Data Protector—Upgrade Matrix

The following identifies new features per release of HPE Data Protector from backup software version 7.0 up to the current release v9.05.

NEW TO DATA PROTECTOR 7	NEW TO DATA PROTECTOR 8	NEW TO DATA PROTECTOR 9
<p>7.0</p> <ul style="list-style-type: none"> • HPE StoreOnce Federated deduplication (source, backup server, backup target dedupe) • Granular Recovery Extension (GRE) for MS Exchange 2010 	<p>8.0</p> <ul style="list-style-type: none"> • Performance and scalability (new internal database PostgreSQL) • StoreOnce deduplication support for HPE-UX IA64 • Data Protector StoreOnce active bandwidth control • StoreOnce VSA support • HPE 3PAR snapshot support (ZDB) for HPE-UX with Oracle and SAP® • ZDB/IR support for StoreServ and StoreVirtual for Windows® 2012 • Microsoft® Exchange 2013 support 	<p>9.0</p> <ul style="list-style-type: none"> • Cached GRE for VMware® • New Backup to Disk device—SmartCache • Federated Catalyst support • Catalyst over Fibre Channel and secure communication with IPSec • New UI for Advanced Scheduler, Global options and Missed Job Execution
<p>7.01</p> <ul style="list-style-type: none"> • HPE StoreOnce Catalyst replication • VMware vCloud Director support • Microsoft Hyper-V 2012 incremental backup • Microsoft SQL 2012 Availability Group support • Instant Recovery (IR) for HPE 3PAR StoreServ (Windows) 	<p>8.1</p> <ul style="list-style-type: none"> • New license keys (Update from ovkey3 to ovkey4) • Advanced scheduler with option to set a job's priority • SAP HANA integration (Backint API integration) • Enhanced Zero Downtime Backup (ZDB)/IR for HPE 3PAR StoreServ—IR for HPE-UX and ZDB and IR for Linux® platforms (SAP and Oracle) • Microsoft Active Directory integration • VMware vSphere 5.5 and vCloud Director 5.5 support as well as VMware vCenter 5.5 Flex UI support for GRE • StoreOnce data-at-rest encryption • Data Protector Cell Manager support on non-clustered Windows 2012 	<p>9.01</p> <ul style="list-style-type: none"> • Backup to cloud for VMware virtual machines • Extensible Storage Provider framework for faster snapshot integration for 3rd party storage arrays • Zero Downtime support for NetApp for VMware environment • NetApp ONTAP 8.1.x and 8.2.x • Hyper-V 2012 R2 • Exchange 2013 SP1 on Windows 2012 R2
<p>7.01 patch</p> <ul style="list-style-type: none"> • Improved browsing speed for large VMware environments (filtering) • Improved backup speed for VMware virtual machines (buffering) • VMware 5.1 and GRE support • Restore flexibility—“restore as new VM” and keep old VM for forensics • Quota setting for StoreOnce stores • StoreOnce bandwidth throttling 	<p>8.11</p> <ul style="list-style-type: none"> • EMC Data Domain Boost (DD Boost) integration (flexible deduplication at source, backup server, and backup target) • Support for Oracle 12c, Windows 2012 R2, EMC VMAXe, NDMP 8.2 	<p>9.02</p> <ul style="list-style-type: none"> • Automated pause and resume of backup jobs (of lower priority jobs when a higher priority job queues up) • VMware GRE from HPE 3PAR snapshots • EMC DD Boost appliance to appliance replication management • Microsoft SQL Server 2014 support • MS Failover Cluster for Win 2012 and R2

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7.03 <ul style="list-style-type: none"> • Microsoft SharePoint 2013 (VDI, VSS, and GRE) • DB2 10.5 and 10.1 support • AIX 64 Bit Media Agent Support • BlueArc/HDS firmware 11 support (NDMP) • Enhanced Automated Disaster Recovery (EADR) for Windows 2012 • GRE for Linux virtual machines • Restart failed objects for virtual machines (Backup Resiliency) 		9.03 <ul style="list-style-type: none"> • Pure security enhancements • Updated Encrypted Control Communication (ECC) • New OpenSSL to cover Heartbleed and other issues
		9.04 <ul style="list-style-type: none"> • Automated Replication Synchronization between Cell Managers • Power-On and Live Migrate virtual machines from HPE 3PAR snapshots • HPE 3PAR Remote Copy support • Lustre file system support • VMware vSphere 6, VDDK 6 and VVOLs • Online backup support for MySQL • ZDB support for EMC VNX/VMAX
		9.05 <ul style="list-style-type: none"> • HPE StoreOnce RMC integration • HPE StoreOnce Catalyst support for AIX and Solaris • Fibre channel and SAS LTO-7 support • HPE Storage Optimizer GUI integration • Parallel VMDK backup • FIPS 140-2 compliance • HPE rebranding and versioning • Expanded support for EMC Data Domain Boost to AIX and Solaris platforms • Support for Boost over Fibre Channel (FC) for all supported platforms

The following identifies all new features per release and by capability area, for HPE Data Protector from version 7.0 up to our current release 9.05.

CAPABILITY	NEW TO DATA PROTECTOR 7	NEW TO DATA PROTECTOR 8	NEW TO DATA PROTECTOR 9.05
HPE first	<ul style="list-style-type: none"> • StoreOnce Federated deduplication (source, backup server, backup target dedupe) • Quota setting for StoreOnce stores • StoreOnce Catalyst replication • IR for HPE 3PAR StoreServ (Windows) 	<ul style="list-style-type: none"> • StoreOnce deduplication support for HPE-UX IA64 • Data Protector active bandwidth control for StoreOnce • StoreOnce VSA support • HPE 3PAR snapshot support (ZDB) for HPE-UX with Oracle and SAP • ZDB/IR support for StoreServ and StoreVirtual for Windows 2012 • Enhanced ZDB/IR for HPE 3PAR StoreServ—IR for HPE-UX and ZDB and IR for Linux platforms (SAP and Oracle) • StoreOnce data-at-rest encryption 	<ul style="list-style-type: none"> • Federated Catalyst support • Catalyst over Fibre Channel and secure communication with IPsec • StoreOnce RMC integration • StoreOnce Catalyst support for AIX and Solaris • Fibre channel and SAS LTO-7 support • HPE 3PAR Remote Copy support • HPE Storage Optimizer GUI integration
Virtualization enhancements	<ul style="list-style-type: none"> • Restart failed objects for virtual machines (Backup Resiliency) • Improved browsing speed for large VMware environments (filtering) • Improved backup speed for VMware virtual machines (buffering) • VMware 5.1 and GRE support • Restore flexibility—“restore as new VM” and keep old VM for forensics • VMware vCloud Director support • Microsoft Hyper-V 2012 incremental backup 	<ul style="list-style-type: none"> • VMware vSphere 5.5 and vCloud Director 5.5 support as well as VMware vCenter 5.5 Flex UI support for GRE 	<ul style="list-style-type: none"> • Cached GRE for VMware • Backup to cloud for VMware virtual machines • Hyper-V 2012 R2 • Parallel VMDK backup • VMware vSphere 6, VDDK 6 and VVOLs • Power-On and Live Migrate virtual machines from HPE 3PAR snapshots • VMware GRE from HPE 3PAR snapshots
Performance, scalability, and automation		<ul style="list-style-type: none"> • Backup software performance and scalability (new internal database PostgreSQL) 	<ul style="list-style-type: none"> • Automated pause and resume of backup jobs (of lower priority jobs when a higher priority job queues up) • A new Backup to Disk device—SmartCache
Disaster recovery	<ul style="list-style-type: none"> • EADR for Windows 2012 		<ul style="list-style-type: none"> • Automated Replication Synchronization between Cell Managers
Critical application support	<ul style="list-style-type: none"> • Granular Recovery Extension (GRE) for MS Exchange 2010 • GRE for Linux virtual machines • Microsoft SharePoint 2013 (VDI, VSS, and Granular Recovery Extension) • Microsoft SQL 2012 Availability Group support • DB2 10.5 and 10.1 support • AIX 64 Bit Media Agent Support 	<ul style="list-style-type: none"> • Microsoft Exchange 2013 support • SAP HANA integration (Backint API integration) • Support for Oracle 12c 	<ul style="list-style-type: none"> • Online backup support for MySQL • Exchange 2013 SP1 on Windows 2012 R2 • Microsoft SQL Server 2014 support • MS Failover Cluster for Win 2012 and R2
3rd party storage integration	<ul style="list-style-type: none"> • BlueArc/HDS firmware 11 support (NDMP) 	<ul style="list-style-type: none"> • EMC Data Domain Boost (DD Boost) integration (flexible deduplication at source, backup server, and backup target) • Support for EMC VMAXe, and NDMP 8.2 	<ul style="list-style-type: none"> • Extensible Storage Provider framework for faster snapshot integration for 3rd party storage arrays • ZDB support for NetApp for VMware environment • NetApp ONTAP 8.1.x and 8.2.x • Expanded support for EMC Data Domain Boost to AIX and Solaris platforms • Support for Boost over Fibre Channel (FC) for all supported platforms • EMC DD Boost appliance to appliance replication management • ZDB support for EMC VNX/VMAX

Support matrix

CAPABILITY	NEW TO DATA PROTECTOR 7	NEW TO DATA PROTECTOR 8	NEW TO DATA PROTECTOR 9.05
Security enhancements			<ul style="list-style-type: none">• Updated Encrypted Control Communication (ECC)• New OpenSSL to cover Heartbleed and other issues• FIPS 140-2 compliance
GUI, manageability, and usability		<ul style="list-style-type: none">• Advanced scheduler with option to set a job's priority• Microsoft Active Directory integration• Data Protector Cell Manager support on non-clustered Windows 2012	<ul style="list-style-type: none">• New UI for Advanced Scheduler, Global options and Missed Job Execution• HPE rebranding and versioning
Licensing	<ul style="list-style-type: none">• Capacity based licensing	<ul style="list-style-type: none">• New license keys (Update from ovkey3 to ovkey4)	



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