



HPE Data Protector 10.0x Network Attached Storage (NAS) Support Matrix

Version: 1.2

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Network Attached Storage (NAS) solutions, in general, are specialized file-serving devices that support heterogeneous files in a high-capacity storage solution on Ethernet based networks. NAS solutions also provide specific features to simplify the tasks and reduce the resources associated with data storage and management. The objective of NAS technology is to simplify manageability and improve data access to clients and applications. A NAS solution will generally provide network accessible storage to a mix of clients and servers running different operating systems.

Data Protector has comprehensive support for NAS devices. Data Protector supports NAS devices either by using its native agents, which makes it the most efficient backup and recovery application with these devices or by using its NDMP Agent which uses industry standard NDMP protocol.

Various Data Protector components are supported on Windows and Linux based HPE NAS devices. Data Protector agents can be remotely or locally installed on these devices. The documentation for various Data Protector Windows agents applies to the supported Data Protector components on NAS devices.

What's New

1. Modified footnotes for Table 2: NAS appliances supported by DP via NDMP protocol
2. Modified Huawei OceanStor V3 Converged Storage NDMP version

The following table presents details of the NAS devices supported by Data Protector native agents:

Table 1: NAS appliances supported by Data Protector native agent

NAS appliances supported by Data Protector native agent					
NAS Type ¹	Data Protector Component				
	Cell Manager	Installation Server	Disk Agent	Media Agent	Cluster
HPE StoreEasy 1000 Storage	supported	supported	supported	supported	supported
HPE StoreEasy 3000 Storage	supported	supported	supported	supported	supported
HPE StoreEasy 5000 Storage	not supported	not supported	supported	supported	supported
HPE X9000	not supported	not supported	supported	supported	supported
HPE X9300	not supported	not supported	supported	supported	supported
HPE X9320	not supported	not supported	supported	supported	supported
HPE X9720	not supported	not supported	supported	supported	supported

- ¹ For supported devices, please see the *HPE Data Protector 10.0x Device Support Matrix*. Only those devices that are supported by the respective NAS device and are also listed in *HPE Data Protector 10.0x Device Support Matrix* are supported.

Data Protector also supports NAS appliances based on the industry standard NDMP protocol. There is a special NDMP Media Agent in Data Protector, that addresses the special backup and recovery needs of these NDMP based NAS appliances. However, please note that Data Protector AES Encryption and key management features are not available for NDMP Media Agent.

The following table presents details of the NAS devices supported by Data Protector via NDMP protocol

Table 2: NAS appliances supported by DP via NDMP protocol

NAS appliances supported by DP via NDMP protocol ^{1,2}		
Vendor	Version	Features
HPE StoreAll	HPE StoreAll OS v6.2.x, 6.3.x, 6.5.x, and 6.6.x	<ul style="list-style-type: none"> • NDMP v4 • Dump • Direct Access Restore (DAR & DDAR) • SAN & direct attached devices ³ • Device/Library sharing for SAN attached devices

HPE 3PAR StoreServ	3PAR OS v3.2.1, 3.2.2	<ul style="list-style-type: none"> • NDMP v4 • Dump • Direct Access Restore (DAR & DDAR) • SAN & direct attached devices ³ • Device/Library sharing for SAN attached devices
EMC	EMC VNX File 7.1, 8.1 ⁴	<ul style="list-style-type: none"> • NDMP v3 & v4 • Dump & NVB (VBB) • Direct Access Restore (DAR & DDAR) • SAN & direct attached devices ³ • Device/Library sharing for SAN attached devices
EMC	EMC Isilon OneFS 7.1, 7.2 ⁵ , 8.0 ⁴ , 8.1 ⁴	<ul style="list-style-type: none"> • NDMP v4 • Dump • Direct Access Restore (DAR & DDAR) • SAN & direct attached devices ³ • Device/Library sharing for SAN attached devices
NetApp	ONTAP 8.2.x ⁶ (7 Mode, C Mode), GX 10.0.3, 8.3.x (C Mode), 9.0.x (C Mode) ^{4,8} , 9.1 (C Mode) ^{4,8,10}	<ul style="list-style-type: none"> • NDMP v3 & v4 • Dump & SMTape • Direct Access Restore (DAR & DDAR) • SAN & direct attached devices ³ • Device/Library sharing for SAN attached devices • 3-way backup and restore • Cluster Aware Backup (CAB)⁷
Hitachi	Hitachi NAS platform version 10.x, 11.x and 12.x	<ul style="list-style-type: none"> • NDMP v3 & v4 • Dump • Direct Access Restore (DAR) • SAN & direct attached devices ³ • Device/Library sharing for SAN attached devices
Oracle	Oracle Sun ZFSSA 7000 Series ⁹	<ul style="list-style-type: none"> • NDMP v4 • Dump • Direct Access Restore (DAR & DDAR) • SAN & direct attached devices ³ • Device/Library sharing for SAN attached devices
Huawei	OceanStor V3 Converged Storage ^{11,12}	<ul style="list-style-type: none"> • NDMP v4 • Dump • Direct Access Restore (DAR & DDAR) • SAN & direct attached devices ³ • Device/Library sharing for SAN attached devices

- 1 NDMP Object Copy is not supported.
- 2 NDMP Media Copy is not supported.
- 3 For supported devices, please see the device support matrices of the respective NAS vendors. Only those devices which are supported by the respective NAS vendors and are also listed as supported in the *HPE Data Protector 10.0x Device Support Matrix* are supported.
- 4 Supported only on Windows 2012 R2, SLES 12.x (x64) and RHEL 7.x (x64).
- 5 Abort Import Session not supported.
- 6 NetApp ONTAP 8.1.x and 8.2.x SMTape is not supported in C Mode.
- 7 Cluster Aware Backup (CAB) is only supported for 8.x C Mode and 9.0.x C Mode.
- 8 Supported on HP-UX 11.31 (IA).
- 9 This device should be configured as NetApp.
- 10 Supported on Windows Server 2016 (x64).
- 11 Supported on Windows Server 2012 R2 (x64).
- 12 **To configure Huawei OceanStor device, select the NDMP Server Type as BlueArc.**

Table 3: HPE Data Protector NDMP Agent supported Platforms

HPE Data Protector NDMP Agent supported Platforms
HP-UX 11.11 (PA-RISC)
HP-UX 11.23, 11.31 (PA-RISC, Itanium)
Solaris (SPARC) 10, 11
Windows Server 2008 (64-bit) (x64)
Windows Server 2008 R2 (64-bit) (x64)
Windows Server 2012 (64 bit) (x64)
Windows Server 2012 R2 (64 bit) (x64)
SUSE Linux Enterprise Server 11 (32-bit)
Redhat Enterprise Linux 5.x, 6.x (32-bit) and (64-bit) ¹ (x64)
SUSE Linux Enterprise Server 11 (64-bit) ¹ (x64)
CentOS 6.x (64-bit) (x64)

- 1 Supports EMC Celerra and NetApp devices only.

HPE Data Protector NDMP Media Agent can be used as a gateway for StoreOnce deduplication targets on following platforms:

Table 4: HPE Data Protector NDMP Agent support for StoreOnce Deduplication

HPE Data Protector NDMP Agent support for StoreOnce Deduplication
Windows Server 2008 (64-bit) (x64)
Windows Server 2008 R2 (64-bit) (x64)
Windows Server 2012 (64 bit) (x64)
Windows Server 2012 R2 (64 bit) (x64)
HP-UX 11.23, 11.31 (64-bit) (Itanium)
Solaris 10, 11 (64-bit) (SPARC)
Redhat Enterprise Linux 5.x, 6.x (64-bit) (x64)
SUSE Linux Enterprise Server 11 (64-bit) (x64)
CentOS 6.x (64-bit) (x64)