Hewlett Packard Enterprise

HPE Data Protector 9.0x
Network Attached Storage (NAS) Support Matrix

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 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.

Updates/changes to individual fields within the Matrix will be highlighted in RED.

What's New

1. Updated the support of EMC Isilon OneFS 8.1

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

Table 1: NAS applications supported by Data Protector native agent

NAS applications supported by Data Protector native agent					
NAS Type[1]	Data Protector Component				
	Cell Manager	Installation Server	Disk Agent	Media Agent	Cluster
NAS 500s	supported	supported	supported	supported	supported
NAS 1200s	supported	supported	supported	supported	n/a
NAS 1500s	supported	supported	supported	supported	supported
NAS 2000s	supported	supported	supported	supported	supported
NAS 4000s	supported	supported	supported	supported	supported
NAS 8000s	supported	supported	supported	supported	supported
NAS 9000s	supported	supported	supported	supported	supported
e7000	supported	supported	supported	supported	supported
B2000	supported	supported	supported	supported	supported
B3000	supported	supported	supported	supported	supported
BL460c	supported	supported	supported	supported	supported
DL 100 Storage Server [2]	supported	supported	supported	supported	supported
DL 100 G2 Storage Server [2]	supported	supported	supported	supported	supported
DL 320s Storage Server [2]	supported	supported	supported	supported	supported
DL 380G4 Storage Server [2]	supported	supported	supported	supported	supported
DL 380G5 Storage Server [2]	supported	supported	supported	supported	supported
DL 580 G2 Storage Server [2]	supported	supported	supported	supported	supported
DL 585 Storage Server [2]	supported	supported	supported	supported	supported
DL 585 G2 Storage Server [2]	supported	supported	supported	supported	supported
ML 110 Storage Server [2]	supported	supported	supported	supported	supported
ML 110 G2 Storage Server [2]	supported	supported	supported	supported	supported
ML 310 G2 Storage Server[2]	supported	supported	supported	supported	supported
ML 310 G3 Storage Server[2]	supported	supported	supported	supported	supported
ML 310 G4 Storage Server[2]	supported	supported	supported	supported	supported
ML 350G4 Storage Server [2]	supported	supported	supported	supported	supported
ML 350G4p Storage Server [2]	supported	supported	supported	supported	supported
ML 350G5 Storage Server [2]	supported	supported	supported	supported	supported
ML 370G4 Storage Server [2]	supported	supported	supported	supported	supported
HPE 400 AiO	supported	supported	supported	supported	supported
HPE 600 AiO	supported	supported	supported	supported	supported
HPE 1200 AiO	supported	supported	supported	supported	supported
HPE SBC 600c AiO	supported	supported	supported	supported	supported

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 X1000	supported	supported	supported	supported	supported
HPE X1600	supported	supported	supported	supported	supported
HPE X3000	supported	supported	supported	supported	supported
HPE X5000	supported	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 9.0x Device Support Matrix*. Only those devices that are supported by the respective NAS device and are also listed in *HPE Data Protector 9.0x Device Support Matrix* are supported.

[2]   Includes support for all sub-models, for example, Ext. SATA Model, Ext. SCSI Model, SAN Storage Model and so on

Data Protector also supports NAS applications 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 applications. 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 applications supported by DP via NDMP protocol

NAS applications supported by DP via NDMP protocol[4,6,7]		
Vendor	**Version**	**Features**
HPE StoreAll	HPE IBRIX OS v6.0.x HPE IBRIX OS v6.1.x HPE StoreAll OS v6.2.x, 6.3.x, 6.5.x, and 6.6.x	• NDMP v4 • Dump • Direct Access Restore (DAR & DDAR) • SAN & direct attached devices [1] • Device/Library sharing for SAN attached devices
HPE 3PAR StoreServ	3PAR OS v3.2.1, 3.2.2	• NDMP v4 • Dump • Direct Access Restore (DAR & DDAR) • SAN & direct attached devices [1] • Device/Library sharing for SAN attached devices
EMC	EMC Celerra 5.6, 6.0	• NDMP v3 & v4 • Dump & NVB (VBB) • Direct Access Restore (DAR & DDAR) • SAN & direct attached devices [1] • Device/Library sharing for SAN attached devices
EMC	EMC VNX File 7.0, 7.1, 8.1[11]	• NDMP v3 & v4 • Dump & NVB (VBB) • Direct Access Restore (DAR & DDAR) • SAN & direct attached devices [1] • Device/Library sharing for SAN attached devices
EMC	EMC Isilon OneFS 7.1, 7.2[9], 8.0[11], 8.1[11]	• NDMP v4 • Dump • Direct Access Restore (DAR & DDAR) • SAN & direct attached devices [1] • Device/Library sharing for SAN attached devices
NetApp	ONTAP pre 7.3.x [2]	• NDMP v3 & v4 • Dump • Direct Access Restore (DAR & DDAR) • SAN & direct attached devices [1] • Device/Library sharing for SAN attached devices
NetApp	ONTAP 7.3.x, 8.0.x (7 Mode), 8.1.x [5] (7, Mode, C Mode) 8.2.x [5] (7 Mode, C Mode), GX 10.0.3, 8.3.x (C Mode), 9.0.x (C Mode)[11,13], 9.1.x (C Mode)[14]	• NDMP v3 & v4 • Dump & SMTape • Direct Access Restore (DAR & DDAR) • SAN & direct attached devices [1] • Device/Library sharing for SAN attached devices • 3-way backup and restore • Cluster Aware Backup (CAB)[10]
Hitachi	Hitachi NAS platform version 6.x, 7.x, 8.x, 10.x, 11.x and 12.x	• NDMP v3 & v4 • Dump • Direct Access Restore (DAR) • SAN & direct attached devices [1] • Device/Library sharing for SAN attached devices
IBM	System Storage N3300 Model A10[3], ONTAP 7.3.2	• NDMP v3 & v4 • Dump & SMTape • Direct Access Restore (DAR & DDAR)

		• SAN & direct attached devices [1]
		• Device/Library sharing for SAN attached devices
Oracle	Oracle Sun ZFSSA 7000 Series[3]	• NDMP v4
		• Dump
		• Direct Access Restore (DAR & DDAR)
		• SAN & direct attached devices [1]
		• Device/Library sharing for SAN attached devices

[1]   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 9.0x Device Support Matrix* are supported.

[2]   Due to the supportability issues, Data Protector only supports the following sub versions of ONTAP 7.0.1:
For ONTAP 7.0.1.R1 Stream – 7.0.1R1P7D7 and for ONTAP 7.0.1.1 Stream – 7.0.1.1D4.
No such restrictions apply for ONTAP versions 7.0.5, 7.1.x or 7.2.x

[3]   This device should be configured as NetApp.

[4]   NDMP Media Copy is supported on Linux and Windows clients only for ONTAP 7.3.x and 8.0.x (7 Mode).

[5]   NetApp ONTAP 8.1.x and 8.2.x SMTape is not supported in C Mode.

[6]   NDMP Object Copy is not supported (except where explicitly stated).

[7]   NDMP Media Copy is not supported for EMC hardware.

[8]   NDMP Media Copy is not supported.

[9]   Abort Import Session not supported.

[10]   Cluster Aware Backup (CAB) is only supported for 8.x C Mode and 9.0.x C Mode.

[11]   Supported only on Windows 2012 R2, SLES 12.x (x64) and RHEL 7.x (x64).

[12]   NDMP Object Copy is supported.

[13]   Supported on HPUX 11.31 (IA).

[14]   Supported on Windows 2008 R2 (x64)

The supported operating system "Windows Server 2003" includes support for all editions of Windows Server 2003 and Windows Server 2003 R2 including Windows Unified Data Storage Server where applicable.

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) 9, 10, 11
Windows XP, Windows Vista (32-bit)
Windows Vista (64-bit) (x64)
Windows 7 (32-bit) and (64-bit) (x64)
Windows 8, 8.1 (64-bit) (x64)
Windows Server 2003, Windows Server 2008 (32-bit)
Windows Server 2003 (64-bit) (Itanium, x64)
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 10, 11 (32-bit)
Redhat Enterprise Linux 5.x, 6.x (32-bit) and (64-bit)[1] (x64)
SUSE Linux Enterprise Server 10, 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 10, 11 (64-bit) (x64)
CentOS 6.x (64-bit) (x64)