



HPE Data Protector 8.10 Network Attached Storage (NAS) Support Matrix

Version: 1.9

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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 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

There are no updates for this version.

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 |

| NAS applications supported by Data Protector native agent | | | | | |
|---|--------------------------|---------------------|------------|-------------|-----------|
| NAS Type ¹ | Data Protector Component | | | | |
| | Cell Manager | Installation Server | Disk Agent | Media Agent | Cluster |
| 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 8.10 Device Support Matrix*. Only those devices that are supported by the respective NAS device and are also listed in *HPE Data Protector 8.10 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 ^{7,6} | | |
|---|------------------------------|---|
| Vendor | Version | Features |
| HPE | X9000, X9300, X9320 X9720 | <ul style="list-style-type: none"> • 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 | <ul style="list-style-type: none"> • NDMP v3 & v4 • Dump & NVB (VBB) • Direct Access Restore (DAR & DDAR) • SAN & direct attached devices ¹ • Device/Library sharing for SAN attached devices |

| NAS applications supported by DP via NDMP protocol ^{7,6} | | |
|---|--|---|
| Vendor | Version | Features |
| EMC | EMC VNX File 7.0, 7.1 | <ul style="list-style-type: none"> • NDMP v3 & v4 • Dump & NVB (VBB) • Direct Access Restore (DAR & DDAR) • SAN & direct attached devices ¹ • Device/Library sharing for SAN attached devices |
| NetApp | ONTAP pre 7.3.x ² | <ul style="list-style-type: none"> • 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 ^{4,6} , 8.0.x ⁴ (7 Mode), 8.1.x ^{5,8} (7 Mode), 8.1.x ^{5,8} (C Mode), 8.2.x ⁸ (7 Mode), 8.2.x ⁸ (C Mode), 8.3.x ⁸ (C Mode), GX 10.0.3 | <ul style="list-style-type: none"> • NDMP v3 & v4 • Dump & SMTape • Direct Access Restore (DAR & DDAR) • SAN & direct attached devices ¹ • Device/Library sharing for SAN attached devices |
| Hitachi | Hitachi NAS platform version 6.x, 7.x, 8.x, 10.x, and 11.x | <ul style="list-style-type: none"> • 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 | <ul style="list-style-type: none"> • 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 | <ul style="list-style-type: none"> • 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 8.10 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.
- 5 DAR is not supported.
- 6 NDMP Object Copy is not supported.
- 7 NDMP 3-way backup and restore are not supported.
- 8 NDMP Media Copy is not supported.

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.

HPE Data Protector NDMP Media Agent can be used as a gateway for StoreOnce deduplication targets on following 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
Windows XP, Windows Vista (32-bit)
Windows Vista (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)
Redhat Enterprise Linux (RHEL) 5.x, 6.0, 6.1, 6.2, 6.3 (32-bit)
SUSE Linux Enterprise Server 10, 11 (32-bit)
Redhat Enterprise Linux (RHEL) 5.x, 6.x, 7.0 (64-bit) (x64)
SUSE Linux Enterprise Server 10, 11 (64-bit) (x64)

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)