

## Introduction

This guide provides up-to-date information on the Network Attached Storage (NAS) appliances supported by NetVault: Backup's NDMP, Snap Mirror to Tape and Snapshot management plugins as well as configurations and restrictions for each supported NAS appliance.

This document is only intended to provide guidance on what NAS devices are supported with the NDMP Plugins. A user should validate the compatibility of these appliances/OS prior to purchasing the product. Specific information on support can be found in the end-user release notes.

If you need additional information or require technical assistance please contact [BakBone Global Support Services](#)

## NDMP Transfer Models

The different topologies supported for each NAS are detailed in the [NDMP Plugin User's Guide](#).

## Supported Tape Drives and Libraries

All tape drives and libraries that are recommended by the NAS vendor and which are listed in the [NetVault Device Compatibility Matrices](#) are supported.

## NDMP Plugin NAS support

NAS Vendor	Vendor Software	Minimum Plugin Version Required	Comments
Adaptec	Snap Appliance Version 1.0	6.301	<ul style="list-style-type: none"> <li>✓ NDMP versions 3 and 4</li> <li>✓ All transfer models supported</li> <li>✓ DAR is not supported.</li> </ul>
BlueArc	BlueArc BOS 4.3.983.h	6.304	<ul style="list-style-type: none"> <li>✓ NDMP version 4 Only</li> <li>✓ All transfer models supported</li> </ul>
IBM	N Series Data ONTAP Release 7.2.3 Notes: <b>4 5 9</b>	6.500	<ul style="list-style-type: none"> <li>✓ NDMP version 4</li> <li>✓ All transfer models supported</li> <li>✓ DAR</li> </ul>
Isilon	OneFS v4.0x OneFS v4.7.x.x Notes: <b>1 4 5</b>	6.500	<ul style="list-style-type: none"> <li>✓ NDMP Version 4 Only</li> <li>✓ All transfer models supported</li> </ul>

**Notes:** BakBone Software generally assumes support for patch releases and 3<sup>rd</sup> digit OS revisions.

NAS Vendor	Vendor Software	Minimum Plugin Version Required	Comments
			<ul style="list-style-type: none"> <li>✓ DAR</li> <li>✓ DUMP backups<sup>1</sup></li> </ul>
EMC	Celerra NS and CX OS version 5.5.x Notes: <sup>4</sup> <sup>5</sup> <sup>6</sup> <sup>7</sup> <sup>8</sup>	6.500 Or 6.304 With the following patches: PCHW700 <sup>2</sup> EMCDV01 <sup>3</sup> EMCLB01 <sup>3</sup>	<ul style="list-style-type: none"> <li>✚ Supported:               <ul style="list-style-type: none"> <li>✓ NDMP version 4</li> <li>✓ Local Transfer Model Only (Non-Filer attached not supported)</li> <li>✓ DAR (Dump)</li> <li>✓ 3-Way</li> <li>✓ DDS or SSO</li> <li>✓ NDMP2D</li> <li>✓ DDAR</li> <li>✓ Int. Ckpts.</li> <li>✓ VBB</li> </ul> </li> <li>✚ Not Supported:               <ul style="list-style-type: none"> <li>✗ Filters</li> </ul> </li> </ul>
EMC	Celerra NS and CX OS version 5.4.14.x to 5.4.x.x	6.302	<ul style="list-style-type: none"> <li>✓ NDMP version 4</li> <li>✓ All transfer models supported</li> <li>✓ DAR</li> </ul>
MiraPoint	MiraPoint Message Server OS versions : - v3.7.5a - v3.82	6.304 <sup>1</sup>	<ul style="list-style-type: none"> <li>✓ NDMP version 4</li> <li>✓ All transfer models supported</li> </ul>
MiraPoint	MOS 3.9 Notes: <sup>4</sup> <sup>5</sup>	6.500	<ul style="list-style-type: none"> <li>✓ NDMP version 4</li> <li>✓ All transfer models supported</li> </ul>
Network Appliance	Data ONTAP 7.2.1 Data ONTAP 7.2.2 Data ONTAP 7.2.3 Notes: <sup>4</sup> <sup>5</sup>	6.500	<ul style="list-style-type: none"> <li>✓ NDMP version 4</li> <li>✓ All transfer models supported</li> <li>✓ DAR</li> <li>✓ UTF Support</li> </ul>
Network Appliance	Data ONTAP 7.2	6.304	<ul style="list-style-type: none"> <li>✓ NDMP version 4</li> <li>✓ All transfer models supported</li> <li>✓ DAR</li> </ul>
Network Appliance	Data ONTAP 7.1.x	6.304	<ul style="list-style-type: none"> <li>✓ NDMP version 4</li> <li>✓ All transfer models supported</li> <li>✓ DAR</li> </ul>
Network	Data ONTAP 7.0.x	6.301	<ul style="list-style-type: none"> <li>✓ NDMP version 4</li> </ul>

**Notes:** BakBone Software generally assumes support for patch releases and 3<sup>rd</sup> digit OS revisions.

NAS Vendor	Vendor Software	Minimum Plugin Version Required	Comments
Appliance			<ul style="list-style-type: none"> <li>✓ All transfer models supported</li> <li>✓ DAR</li> </ul>
Network Appliance	Data ONTAP 6.5.x	6.301	<ul style="list-style-type: none"> <li>✓ NDMP version 4</li> <li>✓ All transfer models supported</li> <li>✓ DAR</li> </ul>
Network Appliance	Data ONTAP 6.4.5	5.602	<ul style="list-style-type: none"> <li>✓ NDMP version 3</li> <li>✓ All transfer models supported</li> <li>✓ DAR</li> </ul>
ONStor	EverOn 2.2.3.2c Notes: ④ ⑤	6.304	<ul style="list-style-type: none"> <li>✓ NDMP version 4</li> <li>✓ All transfer models supported</li> <li>✓ DAR</li> <li>✓ UTF Support</li> </ul>
Pillar Data	AxiumONE 02.06.00 Notes: ④ ⑤	6.304 Requires the following patches: Pchy200.npk②	<ul style="list-style-type: none"> <li>✓ NDMP version 4</li> <li>✓ All transfer models supported</li> <li>✓ DAR</li> <li>✓ UTF Support</li> </ul>
SUN	STK5800 V1.1-82	6.304 Requires the following patches: PchA500.npk②	<ul style="list-style-type: none"> <li>✓ Non-DAR</li> <li>✓ Non-Local transfer models only</li> <li>✓ Filer Specific Format</li> </ul>
SUN	SUN 5xxx NAS Appliance OS version 4.21 SUN 5xxx NAS Appliance OS version 4.21M2 Notes: ④ ⑤	6.304 Requires the following patches: pchA400.npk②	<ul style="list-style-type: none"> <li>✓ NDMP version 4</li> <li>✓ All transfer models supported</li> <li>✓ DAR</li> <li>✓ UTF Support</li> </ul>
SUN	StorEdge OS version 4.1	6.301	<ul style="list-style-type: none"> <li>✓ NDMP version 3</li> <li>✓ All transfer models supported</li> <li>✓ DAR</li> </ul>
SUN	StorEdge OS version 4.02	6.301	<ul style="list-style-type: none"> <li>✓ NDMP version 3</li> <li>✓ All transfer models supported</li> <li>✓ DAR</li> </ul>

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NAS Vendor	Vendor Software	Minimum Plugin Version Required	Comments
StoreVault	Data ONTAP StoreVault Edition Version 7.0.3S4	6.304	<ul style="list-style-type: none"> <li>✓ NDMP version 4</li> <li>✓ All transfer models supported</li> <li>✓ DAR</li> </ul>
	Data ONTAP StoreVault Edition Version 7.2.1S1	6.500	<ul style="list-style-type: none"> <li>✓ NDMP version 4</li> <li>✓ All transfer models supported</li> <li>✓ DAR</li> </ul>

### NDMP related Notes and Caveats:

❶ Note: See NDMP Plugin Users Guide and EURN for details.

❷ Note: This patch is required for Basic NDMP capabilities

❸ Note: These patches are required for NDMP2D Capabilities (These are device templates).

❹ Caveat: EOM errors can be addressed with the following modifications:

Work around for filling tapes to span Media when Unexpected EOM Issues are encountered  
 Addition of Test On Sync=FALSE to the Config file ndmpversions.cfg.

Example for ONStor Filers:

**[ONStor-V4:Mover Server]**

Tape Postfix=h

Allow nonNdmp Transfers=true

Backup window = true

**Test On Sync=FALSE**

❺ Caveat: Backup fails “Failed to write trailer” error can be addressed with the following modifications:

With NetVault 7.45 Ensure the following for LTO drive template files:

**[SCSI Tape:Force Filemark Flush]**

Value = False

❻ Caveat: This is a Windows only issue (Linux works correctly).

**Notes:** BakBone Software generally assumes support for patch releases and 3<sup>rd</sup> digit OS revisions.

"Relocate option for NDMP restore does not relocate but renames instead" (reference BakBone NCG-257).

Example:

For files in /Test/2nd/3rd that have been backed up and a Relocate of subdirectory "2nd" is specified. Here is the expected and the actual results of this operation:

Original Filesystem	Expected Correct Result	Actual Incorrect Result (a rename instead of a relocate is performed)
/Test /2nd /3d	/2nd /3d	/Test /2nd /Test /2nd /3d

⚠️ **Caveat:** This is a Windows only issue (Linux works correctly).

"Double-Byte restores selections fail when localized content is displayed in the NDMP Restore Window" (reference BakBone NCG-260). File and directory names are garbled when restored.

⚠️ **Caveat:** Non Local backup fails to start.

Jobs targeted to a Non-Filer attached device fail due to NDMP\_CONNECT\_ERR resulting in a failed status (NCG-273).

📌 **Note:** Must manually select Netapp-v4-6 Filer Support when adding filer.

**Notes:** BakBone Software generally assumes support for patch releases and 3<sup>rd</sup> digit OS revisions.

## NDMP Plugin Supported Platforms

Platform	NDMP Plugin Version(s)	Earliest NetVault: Backup Release Supported
Windows x86 & x86-64	6.304, 6.500	7.4.5
Linux x86 & x86-64	6.304, 6.500	7.4.5
Solaris (SPARC) 8/9/10 (32/64-bit)	6.304, 6.500	7.4.5
AIX 5.2, 5.3 (32/64-bit)	6.304, 6.500	7.4.5
Mac OSX 10.3.x , 10.4.x (Universal Binary)	6.304, 6.500	7.4.5
HP-UX PA-RISC 11.0, 11i (32/64-bit)	6.304, 6.500	7.4.5
HP-UX Itanium 11.22, 11.23 (64-bit)	6.304, 6.500	7.4.5

Additional [NDMP Plugin Documentation](#) is available on the BakBone website.

## Snap Mirror to Tape Plugin NAS Support

NAS Vendor	Vendor Software	Minimum Plugin Version Required
Network Appliance	Data ONTAP 7.0.x-7.2.x	2.4
Network Appliance	Data ONTAP 6.5.x	2.4
StoreVault	Data ONTAP StoreVault Edition Version 7.0.3S4	2.4

## Snap Mirror to Tape Plugin Supported Platforms

Snap Mirror to Tape Plugin version	Minimum NetVault: Backup version required	Windows x86 & x86-64	Linux x86	Solaris (SPARC) 8/9/10 (32/64-bit)
2.4	7.4.5	•	•	•

Additional [Snap Mirror to Tape Documentation](#) is available on the BakBone website.

## Snapshot Manager Plugin NAS Support

NAS Vendor	Vendor Software	Minimum Plugin
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**Notes:** BakBone Software generally assumes support for patch releases and 3<sup>rd</sup> digit OS revisions.

		Version Required
Network Appliance	Data ONTAP 7.0.x-7.2.x	2.0
Network Appliance	Data ONTAP 6.5.x	2.0
StoreVault	Data ONTAP StoreVault Edition Version 7.0.3S4	2.0

## Snapshot Manager Plugin Supported Platforms

Platform	Snapshot Manager Plugin Version	Earliest NetVault: Backup Release Supported
Windows x86 & x86-64	2.0	7.4.5
Linux x86 & x86-64	2.0	7.4.5
Solaris (SPARC) 8/9/10 (32/64-bit)	2.0	7.4.5
AIX 5.2, 5.3 (32/64-bit)	2.0	7.4.5
Mac OSX 10.3.x , 10.4.x (Universal Binary)	2.0	7.4.5
HP-UX PA-RISC 11.0, 11i (32/64-bit)	2.0	7.4.5
HP-UX Itanium 11.22, 11.23 (64-bit)	2.0	7.4.5

Additional [Snapshot Manager Plugin Documentation](#) is available on the BakBone website.

**Notes:** BakBone Software generally assumes support for patch releases and 3<sup>rd</sup> digit OS revisions.