

# **McDATA / CNT UltraNet Multi-service Director 2042-N16 FICON & FCP IBM Storage and Server Interoperability Matrix**

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[DS8000](#)

[DS6000](#)

[DS4000](#) (and FASSt Family)

[Tape](#)

[NAS](#) and NetAPP

[SVC](#)

### Notes:

- 1 UltraNet Multi-service Director (UMD) 2042-N16 (FICON and FCP) must be at minimum firmware package 1.1.0.
- 2 The latest available firmware is 1.5
- 3 Full interoperability with the FC/9000 Fibre Channel Directors 2042-001, 2042-128 and 2042-256 (FICON and FCP) at minimum firmware package 5.0.0.
- 4 The minimum supported EM version is 9.0.0.
- 5 Intermixing FICON (with or without CUP) and FCP attachment on the same Director requires ESS Licensed Internal Code (LIC) level 1.5.1 or later.
- 6 FCP maximum fabric size tested is three interswitch hops with four Directors (UMD or FC/9000).
- 7 Maximum of one longwave or extended longwave link interswitch hop per fabric path.
- 8 Maximum of one hop is supported for FICON cascading. Minimum required firmware level 4.1.0.6.
- 9 Maximum of the two cascaded directors with FICON/FCP intermix is supported.
- 10 Technical support on SAN File System can be found at: [IBM TotalStorage support: SAN File System.](#)
- 11 Technical support on SAN Volume Controller (SVC) can be found at: [IBM TotalStorage support: SAN Volume Controller.](#)
- 12 [Tivoli® Storage Manager.](#)
- 13 Contact IBM service for firmware package at: 1-800-657-6897 or 1-800-ibm-serv.

## ESS Connectivity

Please see **IBM TotalStorage Enterprise Storage Server** [Interoperability Matrix](#) for Licensed Internal Code (LIC) level.

### IBM **zSeries** Servers Models z900, z990 and G5/G6

Description	Operating Systems	Additional Information
<p><b>IBM TotalStorage</b></p> <p><a href="#">IBM DS8000 Family</a></p> <p><a href="#">IBM DS6000 Family</a></p> <p><a href="#">Enterprise Disk Systems</a></p> <p><b>IBM 2105 Model</b></p> <ul style="list-style-type: none"> <li>• 750</li> <li>• 800</li> <li>• F10/F20</li> </ul>	<p><b>IBM z/OS level 1.4.1 or later</b></p> <p><b>FICON or FICON Express Channel:</b></p> <p><b>Longwave:</b>  <b>G5/G6:</b></p> <ul style="list-style-type: none"> <li>• FC-2314</li> </ul> <p><b>zSeries:</b></p> <ul style="list-style-type: none"> <li>• FC-2315</li> <li>• FC-2319</li> </ul> <p><b>Shortwave:</b>  <b>G5/G6:</b></p> <ul style="list-style-type: none"> <li>• FC-2316</li> </ul> <p><b>zSeries:</b></p> <ul style="list-style-type: none"> <li>• FC-2318</li> <li>• FC-2320</li> </ul>	<p>Available.</p> <p><b>IBM TotalStorage DS8000</b>  <a href="#">Interoperability Guide</a></p> <p><b>IBM TotalStorage DS6000</b>  <a href="#">Interoperability Guide</a></p> <p><b>IBM TotalStorage Enterprise Storage Server</b>  <a href="#">Interoperability Matrix</a></p> <p><b>zSeries <a href="#">I/O Connectivity</a></b></p> <p>For more information visit  <a href="#">FC/9000 Model 64/128/256 Directors and CNT UMD</a></p>

### IBM **zSeries** Server

Description	Operating Systems	Additional Information
<p><b>IBM TotalStorage</b></p> <p><a href="#">IBM DS 8000 Family</a></p> <p><a href="#">IBM DS 6000 Family</a></p> <p><a href="#">Enterprise Disk Systems</a></p> <p><b>IBM 2105 Model</b></p> <ul style="list-style-type: none"> <li>• 750</li> <li>• 800</li> <li>• F10/F20</li> </ul>	<p><b>ZSeries z800</b></p> <ul style="list-style-type: none"> <li>• 2066</li> </ul> <p><b>zSeries z890</b></p> <ul style="list-style-type: none"> <li>• 2086</li> </ul> <p><b>zSeries z900 and z990</b></p> <ul style="list-style-type: none"> <li>• 2064</li> </ul> <p><b>UnitedLinux (FCP only)</b></p> <ul style="list-style-type: none"> <li>• 1.0 (SP2)</li> </ul> <p><b>Longwave</b></p> <ul style="list-style-type: none"> <li>• FC 2315</li> <li>• FC 2319</li> </ul> <p><b>Shortwave</b></p> <ul style="list-style-type: none"> <li>• FC 2318</li> <li>• FC 2320</li> </ul>	<p>Available.</p> <p>SLES 8 for IBM zSeries 32-bit and 64-bit Server.</p>

**IBM pSeries, RS/6000 and SP Servers**

Description	Operating Systems	Additional Information
<b>IBM TotalStorage <a href="#">Enterprise Storage Servers</a></b> <b>IBM 2105 Model</b> <ul style="list-style-type: none"> <li>• 750</li> <li>• 800</li> <li>• F10/F20</li> </ul>	<b>AIX</b> <ul style="list-style-type: none"> <li>• Version 4                             <ul style="list-style-type: none"> <li>• 4.3.3</li> </ul> </li> <li>• 5L                             <ul style="list-style-type: none"> <li>• Version 5.1</li> <li>• Version 5.2</li> </ul> </li> </ul> PSSP/RVSD <sup>1</sup>	Available.  <b>IBM TotalStorage Enterprise Storage Server <a href="#">Interoperability Matrix</a></b>  <b>Fibre Channel <a href="#">Host Bus Adapter</a> firmware and driver level matrix.</b>  For more information visit <a href="#">FC/9000 Model 64/128/256 Directors and CNT UMD</a>
<b>IBM TotalStorage Enterprise Storage Servers</b> <b>IBM 2105 Model</b> <ul style="list-style-type: none"> <li>• 750</li> <li>• 800</li> <li>• F10/F20</li> </ul>	<b>United Linux 1.0 <sup>1</sup></b> <ul style="list-style-type: none"> <li>• SuSE Linux Enterprise Server 8</li> <li>• Turbolinux Enterprise Server 8</li> </ul>	Available.

**IBM iSeries Servers**

Description	Platform/Operating Systems	Additional Information
<b>IBM TotalStorage <a href="#">Enterprise Storage Servers</a></b> <b>IBM 2105 Model</b> <ul style="list-style-type: none"> <li>• 750</li> <li>• 800</li> <li>• F10/F20</li> </ul>	iSeries and eServer i5 <ul style="list-style-type: none"> <li>• 270</li> <li>• 800</li> <li>• 810</li> <li>• 820</li> <li>• 825</li> <li>• 830</li> <li>• 840</li> <li>• 870</li> <li>• 890                             <ul style="list-style-type: none"> <li>▪ 520 <sup>2</sup></li> <li>▪ 550 <sup>3</sup></li> <li>▪ 570 <sup>4</sup></li> </ul> </li> </ul> <b>OS/400</b> <ul style="list-style-type: none"> <li>• V5R2 or later</li> </ul>	Available  <b>Enterprise Storage Server <a href="#">Interoperability Matrix</a></b>  <b>iSeries SAN <a href="#">information</a></b>  For more information visit <a href="#">FC/9000 Model 64/128/256 Directors and CNT UMD</a>

<sup>1</sup> Details for Linux support on pSeries and RS/6000 can be found at:  
<http://www-1.ibm.com/servers/eserver/pseries/linux/>

<sup>2</sup> V5R3 or later

<sup>3</sup> V5R3 or later

<sup>4</sup> V5R3 or later

**IBM xSeries, Netfinity Servers and other Intel-based Servers**

Description	Operating Systems	Additional Information
<p><b>IBM TotalStorage <u>Enterprise Storage Servers</u></b>  <b>IBM 2105 Model</b></p> <ul style="list-style-type: none"> <li>• 750</li> <li>• 800</li> <li>• F10/F20</li> </ul>	<p><b>Microsoft Windows NT</b></p> <ul style="list-style-type: none"> <li>• Server 4.0</li> <li>• Server 4.0 Enterprise Edition</li> </ul> <p><b>Microsoft Windows 2000</b></p> <ul style="list-style-type: none"> <li>• Server</li> <li>• Advanced Server</li> <li>• Datacenter Server</li> </ul> <p><b>Microsoft Windows 2003</b> <sup>5</sup></p> <ul style="list-style-type: none"> <li>• Standard Edition</li> <li>• Enterprise Edition</li> <li>• Datacenter Edition</li> </ul>	<p>Available.</p> <p><b>IBM TotalStorage Enterprise Storage Server <u>Interoperability Matrix</u></b></p> <p><b>Fibre Channel <u>Host Bus Adapter</u></b> firmware and driver level matrix.</p> <p>For more information visit <a href="#">FC/9000 Model 64/128/256 Directors and CNT UMD</a></p>
	<p><b>Novell Netware</b></p> <ul style="list-style-type: none"> <li>• 5.0</li> <li>• 5.1</li> <li>• 6.0</li> </ul>	<p>Available.</p>
	<p><b>Red Hat Linux Advanced Server</b></p> <ul style="list-style-type: none"> <li>• 2.1</li> <li>• 3.0</li> </ul> <p><b>SuSE Linux Enterprise Server (SLES)</b></p> <ul style="list-style-type: none"> <li>• 8</li> </ul> <p><b>UnitedLinux</b></p> <ul style="list-style-type: none"> <li>• 1.0</li> </ul>	<p>Available.</p>

<sup>5</sup> Requires ESS LIC level 2.2.0, or later. Windows 2003 is not supported on the Emulex LP7000E, QLogic QLA2100F, and IBM P/N 01K7297 host adapters.

**SUN microsystems Servers**

Description	Operating Systems	Additional Information
<p>IBM TotalStorage <a href="#">Enterprise Storage Servers</a></p> <p>IBM 2105 Model</p> <ul style="list-style-type: none"> <li>• 750</li> <li>• 800</li> <li>• F10/F20</li> </ul>	<p>Solaris</p> <ul style="list-style-type: none"> <li>• 2.6</li> <li>• 7</li> <li>• 8</li> <li>• 9</li> </ul>	<p>Available.</p> <p>IBM TotalStorage Enterprise Storage Server <a href="#">Interoperability Matrix</a></p> <p>Fibre Channel <a href="#">Host Bus Adapter</a> firmware and driver level matrix.</p> <p>For more information visit <a href="#">FC/9000 Model 64/128/256 Directors and CNT UMD</a></p>

**Hewlett-Packard Servers – HP- UX**

Description	Operating Systems	Additional Information
<p>IBM TotalStorage <a href="#">Enterprise Storage Servers</a></p> <p>IBM 2105 Model</p> <ul style="list-style-type: none"> <li>• 750</li> <li>• 800</li> <li>• F10/F20</li> </ul>	<p>HP-UX</p> <ul style="list-style-type: none"> <li>• 11.0</li> <li>• 11i</li> </ul>	<p>Available.</p> <p>IBM TotalStorage Enterprise Storage Server <a href="#">Interoperability Matrix</a></p> <p>Fibre Channel <a href="#">Host Bus Adapter</a> firmware and driver level matrix.</p> <p>For more information visit <a href="#">FC/9000 Model 64/128/256 Directors and CNT UMD</a></p>

## DS8000 Connectivity

Please see **IBM TotalStorage DS8000 [Interoperability Matrix](#)** for Licensed Machine Code (LMC) level and availability.

### IBM 9672 Enterprise G5 or G6 and IBM 2064, 2066 and 2086 IBM eServer™ zSeries® Servers

Description	Operating Systems (FICON)	Additional Information
<b>IBM TotalStorage <a href="#">DS8000</a></b> <ul style="list-style-type: none"> <li>• DS8100 2107-921</li> <li>• DS8300 2107-922 2107-9A2</li> </ul>	<b>z/OS</b> Version 1 Release 4 Version 1 Release 5 Version 1 Release 6 <b>z/OS.e</b> Version 1 Release 4 Version 1 Release 5 Version 1 Release 6 <b>z/VM</b> Version 4 Release 4 Version 5 Release 1 VSE/ESA Version 2 Release 7 <b>Transaction Processing Facility (TPF)</b> Version 4 Release 1	Available.  <b>IBM TotalStorage DS8000 <a href="#">Interoperability Matrix</a></b>  For more information visit <a href="#">FC/9000 Model 64/128/256 Directors and CNT UMD</a>

### IBM 2064, 2066 and 2086 IBM eServer™ zSeries® Servers

Description	Operating Systems (FCP)	Additional Information
<b>IBM TotalStorage <a href="#">DS8000</a></b> <ul style="list-style-type: none"> <li>• DS8100 2107-921</li> <li>• DS8300 2107-922 2107-9A2</li> </ul>	<b>Linux</b> SuSE SLES 8 <sup>6</sup> Submarine  <b>z/VM</b> Version 5 Release 1	Available.  <b>IBM TotalStorage DS8000 <a href="#">Interoperability Matrix</a></b>  For more information visit <a href="http://www.McDATA.com">www.McDATA.com</a>

<sup>6</sup> SLES 8 for IBM zSeries 32-bit and 64-bit Server.



**IBM [pSeries](#), RS/6000, eServer p5 and RS/6000-SP Servers**

Description	Operating Systems	Additional Information
<p>IBM TotalStorage <a href="#">DS8000</a></p> <ul style="list-style-type: none"> <li>• DS8100 2107-921</li> <li>• DS8300 2107-922 2107-9A2</li> </ul>	<p><b>AIX</b> 5.1 5.2 5.3</p> <p><b>HACMP</b> 5.1.0 5.2.0</p> <p><b>SUSE</b> SLES 8 SLES 9</p> <p><b>Red Hat</b> RHEL 3.0 U3</p>	<p>Available.</p> <p><b>IBM TotalStorage DS8000</b> <a href="#">Interoperability Matrix</a></p> <p><b>Fibre Channel <a href="#">Host Bus Adapter</a></b> firmware and driver level matrix.</p> <p>For more information visit <a href="#">FC/9000 Model 64/128/256 Directors</a> and <a href="#">CNT UMD</a></p>

**IBM eServer iSeries™ Servers**

Description	Platform/Operating Systems	Additional Information
<p>IBM TotalStorage <a href="#">DS8000</a></p> <ul style="list-style-type: none"> <li>• DS8100 2107-921</li> <li>• DS8300 2107-922 2107-9A2</li> </ul>	<p><b>i5/OS</b> • V5R3</p> <p><b>OS/400</b> • V5R2 or later</p> <p><b>Linux</b> United Linux • 1.0 Red Hat • Rel 3 U3 SuSE Linux Enterprise Server for iSeries • 9</p>	<p>Available</p> <p><b>IBM TotalStorage DS8000</b> <a href="#">Interoperability Matrix</a></p> <p><b>iSeries SAN <a href="#">information</a></b></p> <p>For more information visit <a href="#">FC/9000 Model 64/128/256 Directors</a> and <a href="#">CNT UMD</a></p>

**IBM xSeries, Netfinity Servers and other Intel-based Servers**

Description	Operating Systems	Additional Information
<p><b>IBM TotalStorage <u>DS8000</u></b></p> <ul style="list-style-type: none"> <li>• DS8100 2107-921</li> <li>• DS8300 2107-922 2107-9A2</li> </ul>	<p><b>Microsoft Windows 2000</b></p> <ul style="list-style-type: none"> <li>• Server</li> <li>• Advanced Server including Cluster service</li> <li>• Datacenter Server</li> </ul> <p><b>Microsoft Windows Server 2003</b></p> <ul style="list-style-type: none"> <li>• Standard Edition</li> <li>• Enterprise Edition including cluster service</li> <li>• Datacenter Edition including cluster service</li> </ul>	<p>Available.</p> <p><b>IBM TotalStorage DS8000 <u>Interoperability Matrix</u></b></p> <p><b>Fibre Channel <u>Host Bus Adapter</u></b> firmware and driver level matrix.</p> <p>For more information visit <a href="#">FC/9000 Model 64/128/256 Directors and CNT UMD</a></p>
	<p><b>Novell Netware</b></p> <ul style="list-style-type: none"> <li>• 6.0</li> <li>• 6.5</li> </ul>	<p>Available.</p>
	<p><b>Red Hat Enterprise Linux</b></p> <ul style="list-style-type: none"> <li>• 2.1</li> <li>• 3.0</li> </ul> <p><b>SuSe</b></p> <p>SLES 8</p> <p><b>Asianux 1.0</b></p> <p>Red Flag Linux Datacenter</p> <ul style="list-style-type: none"> <li>• v4.1</li> </ul> <p>Red Flag Linux Advanced Server</p> <ul style="list-style-type: none"> <li>• v4.1</li> </ul>	<p>Available.</p>

**SUN microsystems Servers**

Description	Operating Systems	Additional Information
<p><b>IBM TotalStorage <a href="#">DS8000</a></b></p> <ul style="list-style-type: none"> <li>• DS8100 2107-921</li> <li>• DS8300 2107-922 2107-9A2</li> </ul>	<p><b>Solaris</b></p> <ul style="list-style-type: none"> <li>• 8</li> <li>• 9</li> </ul>	<p>Available.</p> <p><b>IBM TotalStorage DS8000 <a href="#">Interoperability Matrix</a></b></p> <p><b>Fibre Channel <a href="#">Host Bus Adapter</a></b> firmware and driver level matrix.</p> <p>For more information visit <a href="#">FC/9000 Model 64/128/256 Directors and CNT UMD</a></p>

**Hewlett-Packard Servers – HP- UX**

Description	Operating Systems	Additional Information
<p><b>IBM TotalStorage <a href="#">DS8000</a></b></p> <ul style="list-style-type: none"> <li>• DS8100 2107-921</li> <li>• DS8300 2107-922 2107-9A2</li> </ul>	<p><b>HP-UX</b></p> <ul style="list-style-type: none"> <li>• 11i</li> <li>• 11iv2</li> </ul>	<p>Available.</p> <p><b>IBM TotalStorage DS8000 <a href="#">Interoperability Matrix</a></b></p> <p><b>Fibre Channel <a href="#">Host Bus Adapter</a></b> firmware and driver level matrix.</p> <p>For more information visit <a href="#">FC/9000 Model 64/128/256 Directors and CNT UMD</a></p>

## DS6000 Connectivity

Please see **IBM TotalStorage DS6000 [Interoperability Matrix](#)** for Licensed Machine Code (LMC) level and availability.

### IBM 9672 Enterprise G5 or G6 and IBM 2064, 2066 and 2086 IBM eServer™ [zSeries®](#) Servers

Description	Operating Systems (FICON)	Additional Information
<b>IBM TotalStorage <a href="#">DS6000</a></b> <ul style="list-style-type: none"> <li>DS6800 1750-111</li> </ul>	<b>z/OS</b> Version 1 Release 4 Version 1 Release 5 Version 1 Release 6 <b>z/OS.e</b> Version 1 Release 4 Version 1 Release 5 Version 1 Release 6 <b>z/VM</b> Version 4 Release 4 Version 5 Release 1 VSE/ESA Version 2 Release 7 <b>Transaction Processing Facility (TPF)</b> Version 4 Release 1	Available.  <b>IBM TotalStorage DS6000 <a href="#">Interoperability Matrix</a></b>  For more information visit <a href="#">FC/9000 Model 64/128/256 Directors</a> and <a href="#">CNT UMD</a>

### IBM 2064, 2066 and 2086 IBM eServer™ [zSeries®](#) Servers

Description	Operating Systems (FCP)	Additional Information
<b>IBM TotalStorage <a href="#">DS6000</a></b> <ul style="list-style-type: none"> <li>DS6800 1750-111</li> </ul>	<b>Linux</b> SuSE SLES 8 <sup>7</sup> Submarine	Available.  <b>IBM TotalStorage DS6000 <a href="#">Interoperability Matrix</a></b>  For more information visit <a href="#">FC/9000 Model 64/128/256 Directors</a> and <a href="#">CNT UMD</a>

<sup>7</sup> SLES 8 for IBM zSeries 32-bit and 64-bit Server.

**IBM [pSeries](#), RS/6000, eServer p5 and RS/6000-SP Servers**

Description	Operating Systems	Additional Information
<p>IBM TotalStorage <a href="#">DS6000</a></p> <ul style="list-style-type: none"> <li>• DS6800 1750-111</li> </ul>	<p><b>AIX</b> 5.1 5.2 5.3</p> <p><b>HACMP</b> 5.1.0 5.2.0</p> <p><b>SUSE</b> SLES 8</p> <p><b>Red Hat</b> RHEL 3.0 U3</p>	<p>Available.</p> <p><b>IBM TotalStorage DS6000</b> <a href="#">Interoperability Matrix</a></p> <p><b>Fibre Channel <a href="#">Host Bus Adapter</a></b> firmware and driver level matrix.</p> <p>For more information visit <a href="#">FC/9000 Model 64/128/256 Directors</a> and <a href="#">CNT UMD</a></p> <p>For information about McDATA visit <a href="http://www.McDATA.com">www.McDATA.com</a></p>

**IBM eServer [iSeries](#)™ Servers**

Description	Platform/Operating Systems	Additional Information
<p>IBM TotalStorage <a href="#">DS6000</a></p> <ul style="list-style-type: none"> <li>• DS6800 1750-111</li> </ul>	<p><b>i5/OS</b> • V5R3</p> <p><b>OS/400</b> • V5R2 or later</p> <p><b>Linux</b> Red Hat • Rel 3.0 U3</p>	<p>Available</p> <p><b>IBM TotalStorage DS6000</b> <a href="#">Interoperability Matrix</a></p> <p><b>iSeries SAN <a href="#">information</a></b></p> <p>For more information visit <a href="#">FC/9000 Model 64/128/256 Directors</a> and <a href="#">CNT UMD</a></p>

**IBM xSeries, Netfinity Servers and other Intel-based Servers**

Description	Operating Systems	Additional Information
<p>IBM TotalStorage <a href="#">DS6000</a></p> <ul style="list-style-type: none"> <li>• DS6800 1750-111</li> </ul>	<p><b>Microsoft Windows 2000</b></p> <ul style="list-style-type: none"> <li>• Server</li> <li>• Advanced Server including Cluster service</li> <li>• Datacenter Server</li> </ul> <p><b>Microsoft Windows Server 2003</b></p> <ul style="list-style-type: none"> <li>• Standard Edition</li> <li>• Enterprise Edition including cluster service</li> <li>• Datacenter Edition including cluster service</li> </ul>	<p>Available.</p> <p><b>IBM TotalStorage DS6000 <a href="#">Interoperability Matrix</a></b></p> <p><b>Fibre Channel <a href="#">Host Bus Adapter</a></b> firmware and driver level matrix.</p> <p>For more information visit <a href="#">FC/9000 Model 64/128/256 Directors and CNT UMD</a></p> <p>For more information visit <a href="http://www.McDATA.com">www.McDATA.com</a></p>
	<p><b>Novell Netware</b></p> <ul style="list-style-type: none"> <li>• 5.1</li> <li>• 6.0</li> <li>• 6.5</li> </ul>	<p>Available.</p>
	<p><b>Red Hat Enterprise Linux</b></p> <ul style="list-style-type: none"> <li>• 2.1</li> <li>• 3.0</li> </ul> <p><b>SuSe</b></p> <p>SLES 8</p> <p><b>Asianux 1.0</b></p> <p>Red Flag Linux Datacenter</p> <ul style="list-style-type: none"> <li>• v4.1</li> </ul> <p>Red Flag Linux Advanced Server</p> <ul style="list-style-type: none"> <li>• v4.1</li> </ul>	<p>Available.</p>

**SUN microsystems Servers**

Description	Operating Systems	Additional Information
<p>IBM TotalStorage <a href="#">DS6000</a></p> <ul style="list-style-type: none"> <li>• DS6800 1750-111</li> </ul>	<p>Solaris</p> <ul style="list-style-type: none"> <li>• 8</li> <li>• 9</li> </ul>	<p>Available.</p> <p><b>IBM TotalStorage DS6000 <a href="#">Interoperability Matrix</a></b></p> <p><b>Fibre Channel <a href="#">Host Bus Adapter</a></b> firmware and driver level matrix.</p> <p>For more information visit <a href="#">FC/9000 Model 64/128/256 Directors and CNT UMD</a></p>

**Hewlett-Packard Servers – HP- UX**

Description	Operating Systems	Additional Information
<p>IBM TotalStorage <a href="#">DS6000</a></p> <ul style="list-style-type: none"> <li>• DS6800 1750-111</li> </ul>	<p>HP-UX</p> <ul style="list-style-type: none"> <li>• 11i</li> <li>• 11iv2</li> </ul>	<p>Available.</p> <p><b>IBM TotalStorage DS6000 <a href="#">Interoperability Matrix</a></b></p> <p><b>Fibre Channel <a href="#">Host Bus Adapter</a></b> firmware and driver level matrix.</p> <p>For more information visit <a href="#">FC/9000 Model 64/128/256 Directors and CNT UMD</a></p>

## DS4000 Connectivity

- 1 We do not recommend attaching the **IBM FAStT** on the same Intel server as the **TotalStorage Enterprise Storage Server**. Both devices may be attached to the same switch.
- 2 For the most current supported **HACMP**, **PSSP**, **GPFS/RVSD** configurations see the **important notices** and readmes posted on:
  - <http://www-1.ibm.com/servers/storage/support/disk/ds4500/>
  - <http://www-1.ibm.com/servers/storage/support/disk/ds4400/>
  - <http://www-1.ibm.com/servers/storage/support/disk/ds4300/>
  - <http://www-1.ibm.com/servers/storage/support/disk/ds4300/>
  - <http://www-1.ibm.com/servers/storage/support/fastt/fastt200.html>

### IBM pSeries, RS/6000 and RS/6000-SP Servers

Description	Operating Systems	Additional Information
<b>IBM TotalStorage Storage Servers</b> <ul style="list-style-type: none"> <li>• <a href="#">DS4500 (formerly FAStT900)</a></li> <li>• <a href="#">DS4400 (formerly FAStT700)</a></li> <li>• <a href="#">DS4300 (formerly FAStT600)</a></li> <li>• Dual Controller</li> <li>• Turbo</li> </ul>	<b>AIX</b> <ul style="list-style-type: none"> <li>• Version 4                             <ul style="list-style-type: none"> <li>• 4.3.3</li> </ul> </li> <li>• 5L                             <ul style="list-style-type: none"> <li>• Version 5.1</li> <li>• Version 5.2</li> </ul> </li> </ul>	Available  <b>IBM TotalStorage DS4000 Interoperability Matrix</b>  <b>Fibre Channel Host Bus Adapter</b> firmware and driver level matrix.  For more information visit <a href="#">FC/9000 Model 64/128/256 Directors and CNT UMD</a>
	<b>United Linux 1.0</b> <sup>8</sup> <ul style="list-style-type: none"> <li>• SuSE Linux Enterprise Server 8</li> </ul>	Available

<sup>8</sup> SuSE Linux Enterprise Server 8 supports pSeries and RS/6000 only at this time, details for Linux support on pSeries and RS/6000 can be found at: <http://www-1.ibm.com/servers/eserver/pseries/linux/>



**IBM xSeries, Netfinity Servers and other Intel-based Servers**

Description	Operating Systems	Additional Information
<p><b>IBM TotalStorage Storage Servers</b></p> <ul style="list-style-type: none"> <li>• <a href="#">DS4500 (formerly FAStT900)</a></li> <li>• <a href="#">DS4400 (formerly FAStT700)</a></li> <li>• <a href="#">DS4300 (formerly FAStT600)</a></li> <li>• Dual Controller</li> <li>• Single Controller</li> <li>• Turbo</li> </ul>	<p><b>Microsoft Windows NT</b></p> <ul style="list-style-type: none"> <li>• Server 4.0</li> <li>• Server 4.0 Enterprise Edition</li> </ul> <p><b>Microsoft Windows 2000</b></p> <ul style="list-style-type: none"> <li>• Server</li> <li>• Advanced Server</li> </ul> <p><b>Microsoft Windows 2003</b></p> <ul style="list-style-type: none"> <li>• Standard Edition</li> <li>• Enterprise Edition</li> <li>• Web Edition</li> </ul>	<p>Available</p> <p><b>IBM TotalStorage DS4000 <a href="#">Interoperability Matrix</a></b></p> <p><b>IBM Server Proven <a href="#">Interoperability matrix</a></b></p> <p><b>Fibre Channel <a href="#">Host Bus Adapter</a> firmware and driver level matrix.</b></p> <p>For more information visit <a href="#">FC/9000 Model 64/128/256 Directors and CNT UMD</a></p>
	<p><b>Novell Netware</b></p> <ul style="list-style-type: none"> <li>• 5.1</li> <li>• 6.0</li> </ul>	<p>Available</p>
	<p><b>Red Hat Linux</b></p> <ul style="list-style-type: none"> <li>• 7.x</li> <li>• 8.0</li> </ul> <p><b>Red Hat Enterprise Linux</b></p> <ul style="list-style-type: none"> <li>• 2.1</li> </ul> <p><b>United Linux 1.0</b></p> <ul style="list-style-type: none"> <li>• SuSE Linux Enterprise Server 8</li> <li>• Turbolinux Enterprise Server 8</li> <li>• Connectiva Enterprise Edition</li> </ul>	<p>Available</p>

**SUN microsystems Servers**

Description	Operating Systems	Additional Information
<p><b>IBM TotalStorage Storage Servers</b></p> <ul style="list-style-type: none"> <li>• <a href="#">DS4500 (formerly FAStT900)</a></li> <li>• <a href="#">DS4400 (formerly FAStT700)</a></li> <li>• <a href="#">DS4300 (formerly FAStT600)</a></li> <li>• Dual Controller</li> <li>• Single Controller</li> <li>• Turbo</li> </ul>	<p><b>Solaris</b></p> <ul style="list-style-type: none"> <li>• 2.6</li> <li>• 7</li> <li>• 8</li> <li>• 9</li> </ul>	<p>Available</p> <p><b>IBM TotalStorage DS4000 <a href="#">Interoperability Matrix</a></b></p> <p><b>Fibre Channel <a href="#">Host Bus Adapter</a> firmware and driver level matrix.</b></p> <p>For more information visit <a href="#">FC/9000 Model 64/128/256 Directors and CNT UMD</a></p>

**Hewlett-Packard Servers – HP- UX**

Description	Operating Systems	Additional Information
<p><b>IBM TotalStorage Storage Servers</b></p> <ul style="list-style-type: none"> <li>• <a href="#">DS4500 (formerly FAStT900)</a></li> <li>• <a href="#">DS4400 (formerly FAStT700)</a></li> <li>• <a href="#">DS4300 (formerly FAStT600)</a></li> <li>• Dual Controller</li> <li>• Single Controller</li> <li>• Turbo</li> </ul>	<p><b>HP-UX</b></p> <ul style="list-style-type: none"> <li>• 11.0</li> <li>• 11i</li> </ul>	<p>Available</p> <p><b>IBM TotalStorage DS4000 <a href="#">Interoperability Matrix</a></b></p> <p><b>Fibre Channel <a href="#">Host Bus Adapter</a> firmware and driver level matrix.</b></p> <p>For more information visit <a href="#">FC/9000 Model 64/128/256 Directors and CNT UMD</a></p>

**IBM [pSeries](#), RS/6000 and RS/6000-SP Servers**

Description	Operating Systems	Additional Information
<b>IBM TotalStorage Storage Servers</b> <ul style="list-style-type: none"> <li>• <a href="#">DS4100 (formerly FAStT100)</a></li> </ul>	<b>AIX</b> <ul style="list-style-type: none"> <li>• 5L                             <ul style="list-style-type: none"> <li>• Version 5.1</li> <li>• Version 5.2</li> </ul> </li> </ul>	Available.  <b>IBM TotalStorage DS4000 <a href="#">Interoperability Matrix</a></b>  <b>IBM Server Proven <a href="#">Interoperability matrix</a></b>  <b>Fibre Channel <a href="#">Host Bus Adapter</a> firmware and driver level matrix.</b>  For more information visit <a href="#">FC/9000 Model 64/128/256 Directors and CNT UMD</a>
	<b>United Linux 1.0<sup>9</sup></b> <ul style="list-style-type: none"> <li>• SuSE Linux Enterprise Server 8</li> </ul>	Available.

**IBM [xSeries](#) and Netfinity Servers and other Intel-based Servers**

Description	Operating Systems	Additional Information
<b>IBM TotalStorage Storage Servers</b> <ul style="list-style-type: none"> <li>• <a href="#">DS4100 (formerly FAStT100)</a></li> </ul>	<b>Microsoft Windows 2000</b> <ul style="list-style-type: none"> <li>• Server</li> <li>• Advanced Server</li> </ul> <b>Microsoft Windows 2003</b> <ul style="list-style-type: none"> <li>• Standard Edition</li> <li>• Enterprise Edition</li> <li>• Web Edition</li> </ul>	Available.  <b>IBM TotalStorage DS4000 <a href="#">Interoperability Matrix</a></b>  <b>IBM Server Proven <a href="#">Interoperability matrix</a></b>  <b>Fibre Channel <a href="#">Host Bus Adapter</a> firmware and driver level matrix.</b>
	<b>Red Hat Enterprise Linux</b> <ul style="list-style-type: none"> <li>• 3.0</li> </ul> <b>United Linux 1.0</b> <ul style="list-style-type: none"> <li>• SuSE Linux Enterprise Server 8</li> <li>• Turbolinux Enterprise Server 8</li> <li>• Connectiva Enterprise Edition</li> </ul>	Available.

<sup>9</sup> SuSE Linux Enterprise Server 8 supports pSeries and RS/6000 only at this time, details for Linux support on pSeries and RS/6000 can be found at: <http://www-1.ibm.com/servers/eserver/pseries/linux/>

**IBM pSeries, RS/6000 and RS/6000-SP Servers**

Description	Operating Systems	Additional Information
<b>IBM TotalStorage Storage Servers</b> <ul style="list-style-type: none"> <li>• <a href="#">FAST500</a></li> <li>• <a href="#">FAST200</a></li> </ul>	<b>AIX</b> <ul style="list-style-type: none"> <li>• Version 4                             <ul style="list-style-type: none"> <li>• 4.3.3</li> </ul> </li> <li>• 5L                             <ul style="list-style-type: none"> <li>• Version 5.1</li> <li>• Version 5.2</li> </ul> </li> </ul>	Available  <b>IBM TotalStorage DS4000 <a href="#">Interoperability Matrix</a></b>  <b>Fibre Channel <a href="#">Host Bus Adapter</a> firmware and driver level matrix.</b>  For more information visit <a href="#">FC/9000 Model 64/128/256 Directors and CNT UMD</a>
	<b>United Linux 1.0<sup>10</sup></b> <ul style="list-style-type: none"> <li>• SuSE Linux Enterprise Server 8</li> </ul>	Available

<sup>10</sup> SuSE Linux Enterprise Server 8 supports pSeries and RS/6000 only at this time, details for Linux support on pSeries and RS/6000 can be found at: <http://www-1.ibm.com/servers/eserver/pseries/linux/>

**IBM xSeries, Netfinity Servers and other Intel-based Servers**

Description	Operating Systems	Additional Information
<b>IBM TotalStorage Storage Servers</b> <ul style="list-style-type: none"> <li>• <a href="#">FASt500</a></li> <li>• <a href="#">FASt200</a></li> </ul>	<b>Microsoft Windows NT</b> <ul style="list-style-type: none"> <li>• Server 4.0</li> <li>• Server 4.0 Enterprise Edition</li> </ul> <b>Microsoft Windows 2000</b> <ul style="list-style-type: none"> <li>• Server</li> <li>• Advanced Server</li> </ul> <b>Microsoft Windows 2003</b> <ul style="list-style-type: none"> <li>• Standard Edition</li> <li>• Enterprise Edition</li> <li>• Web Edition</li> </ul>	Available  <b>IBM TotalStorage DS4000 <a href="#">Interoperability Matrix</a></b>  <b>Fibre Channel <a href="#">Host Bus Adapter</a></b> firmware and driver level matrix.  For more information visit <a href="#">FC/9000 Model 64/128/256 Directors and CNT UMD</a>
	<b>Novell Netware</b> <ul style="list-style-type: none"> <li>• 5.1</li> <li>• 6.0</li> </ul>	Available.
	<b>Red Hat Linux</b> <ul style="list-style-type: none"> <li>• 7.x</li> <li>• 8.0</li> </ul> <b>Red Hat Enterprise Linux</b> <ul style="list-style-type: none"> <li>• 2.1</li> </ul> <b>United Linux 1.0</b> <ul style="list-style-type: none"> <li>• SuSE Linux Enterprise Server 8</li> </ul>	Available.

**SUN microsystems Servers**

Description	Operating Systems	Additional Information
<p>IBM TotalStorage Storage Servers</p> <ul style="list-style-type: none"> <li>• <a href="#">FAStT500</a></li> <li>• <a href="#">FAStT200</a></li> </ul>	<p>Solaris</p> <ul style="list-style-type: none"> <li>• 2.6</li> <li>• 7</li> <li>• 8</li> <li>• 9</li> </ul>	<p>Available</p> <p><b>IBM TotalStorage DS4000 <a href="#">Interoperability Matrix</a></b></p> <p><b>Fibre Channel <a href="#">Host Bus Adapter</a></b> firmware and driver level matrix.</p> <p>For more information visit <a href="#">FC/9000 Model 64/128/256 Directors and CNT UMD</a></p>

**Hewlett-Packard Servers – HP- UX**

Description	Operating Systems	Additional Information
<p>IBM TotalStorage Storage Servers</p> <ul style="list-style-type: none"> <li>• <a href="#">FAStT500</a></li> <li>• <a href="#">FAStT200</a></li> </ul>	<p>HP-UX</p> <ul style="list-style-type: none"> <li>• 11.0</li> <li>• 11i</li> </ul>	<p>Available</p> <p><b>IBM TotalStorage DS4000 <a href="#">Interoperability Matrix</a></b></p> <p><b>Fibre Channel <a href="#">Host Bus Adapter</a></b> firmware and driver level matrix.</p> <p>For more information visit <a href="#">FC/9000 Model 64/128/256 Directors and CNT UMD</a></p>

## TAPE Connectivity

### IBM [zSeries](#) Servers Models z900, z990 and G5/G6

Description	Operating Systems	Additional Information
<p><b>IBM TotalStorage Enterprise Tape Controller <a href="#">3592</a> Model J70 or <a href="#">3590</a> Model A60</b></p> <p><b>FICON Attachment</b>  <b>Longwave:</b>  <ul style="list-style-type: none"> <li>• FC-3434 (2 Gb)</li> <li>• FC-3432 (1 Gb)</li> </ul> <b>Shortwave:</b>  <ul style="list-style-type: none"> <li>• FC-3435 (2 Gb)</li> <li>• FC-3433 (1 Gb)</li> </ul> </p> <p><b>IBM TotalStorage Enterprise Automated Tape Library 3494</b></p> <p><b>IBM TotalStorage Virtual Tape Server 3494-B10/B20</b> in Standalone or Peer to Peer configurations <sup>11</sup></p> <p><b>IBM TotalStorage Enterprise Tape Drive Frame 3590 Model A14</b></p> <p><b>IBM TotalStorage Silo Compatible Tape Drive Frame</b></p>	<p><b>IBM 9672 Enterprise G5 or G6 and zSeries Servers</b></p> <p><b>FICON Channel Card</b>  <b>Longwave:</b>  <b>G5/G6:</b>  <ul style="list-style-type: none"> <li>• FC-2314</li> </ul> <b>zSeries:</b>  <ul style="list-style-type: none"> <li>• FC-2315</li> <li>• FC-2319</li> </ul> <b>Shortwave:</b>  <b>G5/G6:</b>  <ul style="list-style-type: none"> <li>• FC-2316</li> </ul> <b>zSeries:</b>  <ul style="list-style-type: none"> <li>• FC-2318</li> <li>• FC-2320</li> </ul> </p> <p><b>zSeries z800</b>  <ul style="list-style-type: none"> <li>• 2066</li> </ul> <b>zSeries z890</b>  <ul style="list-style-type: none"> <li>• 2086</li> </ul> <b>zSeries z900 and z990</b>  <ul style="list-style-type: none"> <li>• 2064</li> </ul> </p>	<p>Available.</p> <p><a href="#">J70 Switch Support Matrix</a></p> <p><a href="#">VTS Switch Support Matrix</a></p>

<sup>11</sup> R7.2 (2.30.720.42) or higher required.

**IBM [zSeries](#) Servers Model z800 and z900**

Description	Operating Systems	Additional Information
<p><b>Enterprise Tape System <a href="#">3592 J1A</a></b> in a 3494 or 3584 Tape Library.</p> <p><b>Enterprise Tape System <a href="#">3590 E11/E1A and H11/H1A</a></b> with Native FC Tape Drives. Standalone or in a 3494 Tape Library</p> <p><b>All 3494 rules apply.</b></p> <p>i.e. ESCON/FICON owned drives cannot coexist in the same frame as Open Systems drives.</p> <p><b>Ultrium <a href="#">3584 UltraScalable</a></b> Tape Library with Native FC Ultrium 2 and 3 drives only. (Feature Code 1476)</p>	<p><b>SLES 8 for IBM zSeries 32-bit and 64-bit Server</b></p> <p><b>FICON or FICON Express Channels</b> with FCP enablement firmware</p> <p><b>Longware</b></p> <ul style="list-style-type: none"> <li>• FC 2315</li> <li>• FC 2319</li> </ul> <p><b>Shortware</b></p> <ul style="list-style-type: none"> <li>• FC 2318</li> <li>• FC 2320</li> </ul>	<p>Available.</p> <p>For more information visit <a href="#">FC/9000 Model 64/128/256 Directors and CNT UMD</a></p>



**IBM [pSeries](#), RS/6000 and RS/6000-SP Servers**

Description	Operating Systems	Additional Information
<p><b>Enterprise Tape System <a href="#">3592 J1A</a></b> in a 3494 or 3584 Tape Library, rack mounted or Silo Compatible Frame.</p> <p><b>Ultrium <a href="#">3584 UltraScalable</a></b> Tape Library with Native FC Ultrium 2 and 3 drive models.</p>	<p><b>AIX</b></p> <ul style="list-style-type: none"> <li>• Version 4                             <ul style="list-style-type: none"> <li>• 4.3.3</li> </ul> </li> <li>• 5L                             <ul style="list-style-type: none"> <li>• Version 5.1</li> <li>• Version 5.2</li> </ul> </li> </ul>	<p>Available.<sup>12</sup></p> <p><b>Fibre Channel <a href="#">Host Bus Adapter</a></b> firmware and driver level matrix.</p> <p>For more information visit <a href="#">FC/9000 Model 64/128/256 Directors and CNT UMD</a></p>
<p><b>Ultrium <a href="#">3583 Scalable</a></b> Tape Library with Native FC Ultrium 2 and 3 drives.</p> <p><b>Ultrium <a href="#">3583 Scalable</a></b> Tape Library with Integrated SDG Module</p> <p><b>Ultrium <a href="#">3582</a></b> Tape Library with Native FC Ultrium 2 and 3 drives.</p>	<p><b>United Linux 1.0</b><sup>13</sup></p> <ul style="list-style-type: none"> <li>• SuSE Linux Enterprise Server 8</li> </ul>	<p>Available</p>

<sup>12</sup> Native Fibre Ultrium 2 LTO tape drives and 3592 drives are supported on UMD. All other Native Fibre Tape drives require IBM San Switch models F32, H16, H08 in Interoperability Mode for Arbitrated Loop Support.

<sup>13</sup> Details for Linux support on pSeries and RS/6000 can be found at: <http://www-1.ibm.com/servers/eserver/pseries/linux/>

**IBM [iSeries](#) Servers**

Description	Platform/Operating Systems	Additional Information
<p><b>Enterprise Tape System <a href="#">3592 J1A</a></b> in a 3494 or 3584 Tape Library, stand alone or rack mounted.</p> <p><b>Ultrium <a href="#">3584 UltraScalable</a></b> Tape Library with Native FC Ultrium 1, 2, and 3 drive models.</p> <p><b>Ultrium <a href="#">3583 Scalable</a></b> Tape Library with Native FC Ultrium 2 and 3 drives.</p> <p><b>Ultrium <a href="#">3582</a></b> Tape Library with Native FC Ultrium 2 and 3 drives.</p>	<p>iSeries and eServer i5</p> <ul style="list-style-type: none"> <li>• 270</li> <li>• 800</li> <li>• 810</li> <li>• 820</li> <li>• 825</li> <li>• 830</li> <li>• 840</li> <li>• 870</li> <li>• 890</li> </ul> <ul style="list-style-type: none"> <li>▪ 520 <sup>14</sup></li> <li>▪ 550 <sup>15</sup></li> <li>▪ 570 <sup>16</sup></li> </ul> <p><b>OS/400</b></p> <ul style="list-style-type: none"> <li>• V5R2 or later</li> </ul>	<p>Available</p> <p><b>iSeries SAN <a href="#">information</a>.</b></p>

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<sup>14</sup> V5R3 or later

<sup>15</sup> V5R3 or later

<sup>16</sup> V5R3 or later

**IBM xSeries, Netfinity Servers and other Intel-based Servers**

Description	Operating Systems	Additional Information
<p><b>Enterprise Tape System <u>3592 J1A</u></b> in a 3494 or 3584 Tape Library, rack mounted or Silo Compatible Frame.</p> <p><b>Ultrium <u>3584 UltraScalable</u></b> Tape Library with Native FC Ultrium 2 and 3 drives.</p> <p><b>Ultrium <u>3583 Scalable</u></b> Tape Library with Native FC Ultrium 2 and 3 drives.</p> <p><b>Ultrium <u>3583 Scalable</u></b> Tape Library with Integrated SDG Module</p>	<p><b>Microsoft Windows NT</b></p> <ul style="list-style-type: none"> <li>• Server 4.0</li> <li>• Server 4.0 Enterprise Edition</li> </ul> <p><b>Microsoft Windows 2000</b></p> <ul style="list-style-type: none"> <li>• Server</li> <li>• Advanced Server</li> <li>• Datacenter Server</li> </ul> <p><b>Microsoft Windows 2003 Server</b></p> <ul style="list-style-type: none"> <li>• Standard Edition</li> <li>• Enterprise Edition</li> <li>• Datacenter Edition</li> <li>• Web Edition</li> </ul>	<p>Available. <sup>17</sup></p> <p><b>Fibre Channel <u>Host Bus Adapter</u></b> firmware and driver level matrix.</p> <p>For more information visit <a href="#">FC/9000 Model 64/128/256 Directors and CNT UMD</a></p>
<p><b>Ultrium <u>3582</u></b> Tape Library with Native FC Ultrium 2 and 3 drives.</p>	<p><b>Red Hat Enterprise Linux</b></p> <ul style="list-style-type: none"> <li>• 2.1</li> <li>• 3.0</li> </ul> <p><b>United Linux 1.0</b></p> <ul style="list-style-type: none"> <li>• SuSE Linux Enterprise Server 8</li> <li>• Turbolinux Enterprise Server 8</li> <li>• Connectiva Enterprise Edition</li> </ul>	<p>Available.</p> <p>Please review <a href="#">RMSS Technical Support</a> Site.</p>

<sup>17</sup> Native Fibre Ultrium 2 LTO tape drives and 3592 drives are supported on UMD. All other Native Fibre Tape drives require IBM San Switch models F32, H16, H08 in Interoperability Mode for Arbitrated Loop Support.

**SUN microsystems Servers**

Description	Operating Systems	Additional Information
<p><b>Ultrium <a href="#">3583</a> Scalable</b> Tape Library with Integrated SDG Module</p>	<p><b>Solaris</b></p> <ul style="list-style-type: none"> <li>• 2.6</li> <li>• 7</li> <li>• 8</li> <li>• 9</li> </ul>	<p>Available. <sup>18</sup></p> <p><b>Fibre Channel <a href="#">Host Bus Adapter</a></b> firmware and driver level matrix.</p> <p>For more information visit <a href="#">FC/9000 Model 64/128/256 Directors and CNT UMD</a></p>
<p><b>Enterprise Tape System <a href="#">3592 J1A</a></b> in a 3494 or 3584 Tape Library, rack mounted or Silo Compatible Frame.</p> <p><b>Ultrium <a href="#">3584</a> UltraScalable</b> Tape Library with Native FC Ultrium 2 and 3 drives.</p> <p><b>Ultrium <a href="#">3583</a> Scalable</b> Tape Library with Native FC Ultrium 2 and 3 drives.</p> <p><b>Ultrium <a href="#">3582</a></b> Tape Library with Native FC Ultrium 2 and 3 drives.</p>	<p><b>Solaris</b></p> <ul style="list-style-type: none"> <li>• 7</li> <li>• 8</li> <li>• 9</li> </ul>	<p>Available.</p>

<sup>18</sup> Native Fibre Ultrium 2 LTO tape drives and 3592 drives are supported on UMD. All other Native Fibre Tape drives require IBM San Switch models F32, H16, H08 in Interoperability Mode for Arbitrated Loop Support.

**Hewlett-Packard Servers – HP- UX**

Description	Operating Systems	Additional Information
<p><b>Enterprise Tape System <a href="#">3592 J1A</a></b> in a 3494 or 3584 Tape Library, rack mounted or Silo Compatible Frame.</p> <p><b>Ultrium <a href="#">3584 UltraScalable</a></b> Tape Library with Native FC Ultrium 2 and 3 drives.</p> <p><b>Ultrium <a href="#">3583 Scalable</a></b> Tape Library with Native FC Ultrium 2 and 3 drives.</p> <p><b>Ultrium <a href="#">3583 Scalable</a></b> Tape Library with Integrated SDG Module</p> <p><b>Ultrium <a href="#">3582</a></b> Tape Library with Native FC Ultrium 2 and 3 drives.</p>	<p><b>HP-UX</b></p> <ul style="list-style-type: none"> <li>• 11.0</li> <li>• 11i</li> </ul>	<p>Available.<sup>19</sup></p> <p><b>Fibre Channel <a href="#">Host Bus Adapter</a></b> firmware and driver level matrix.</p> <p>For more information visit <a href="#">FC/9000 Model 64/128/256 Directors and CNT UMD</a></p> <p>For specific details and restrictions please see the <a href="#">readme</a> file.</p>

<sup>19</sup> Native Fibre Ultrium 2 LTO tape drives and 3592 drives are supported on UMD. All other Native Fibre Tape drives require IBM San Switch models F32, H16, H08 in Interoperability Mode for Arbitrated Loop Support.

## NETWORK ATTACHED STORAGE ([NAS](#))

UMD Fibre Channel Director 2042-001, 2042-128 and 2042-256 are interoperable with:

- IBM System Storage N5000
- IBM System Storage N3700
- IBM System Storage N series Software
- IBM System Storage N series Solutions

NAS Gateway 300G

- 5196 Model G26
- 5196 Model G27

NAS Gateway 500

- 5198 Model 001

[Additional information on Network Attached Storage interoperability](#)

## IBM eServer™ [BladeCenter](#)

Supported Switch, Firmware Versions and Operating Mode.

BladeCenter with 2.x Switch Module Firmware

- 2-port FC Switch Module (Part #: 48P7062)
- Optical Pass-thru Module

## SAN VOLUME CONTROLLER [SVC](#)

2042-N16 is interoperable with:

- SVC 2145 V1.2.0

[SAN Volume Controller](#) is designed to help you simplify your storage infrastructure, utilize your storage resources more efficiently, improve personnel productivity and increase your application availability. SAN Volume Controller is designed to pool storage volumes from IBM and non-IBM disk arrays into a single reservoir of capacity which can be managed from a central point. SAN Volume Controller enables migrating data between disk arrays without disrupting the applications and moves copy services into the network where they can be applied across the entire storage reservoir.