



**Cisco MDS 9124 for IBM System Storage™ and  
Cisco MDS 9020, 9120, and 9140 Switches**

# Interoperability Matrix

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## What has changed?

1. SAN-OS firmware level updated for FCP
2. DS4200 support now correctly shown
3. iSCSI drivers updated
4. NSeries 7000 support now correctly shown
5. New BladeCenter FC Switch Module added
6. Updated Bladecenter firmware levels and interoperability modes
7. Updated heterogeneous SAN support for 2005-H16 and 2005-B16

## Notes:

1. The **MDS 9120, 9140, 9124, and 9020** Fabric Switches latest [firmware level is 3.1\(2b\)](#).
2. Information on the installation and safety requirements for the **MDS 9120, 9140, 9124, and 9020** Fabric Switches can be found at: [Cisco MDS 9000 Series Multilayer Switches Instruction Guide](#).
3. Switch Module information and available combinations can be found at: [Cisco MDS 9000 Family Fibre Channel Switching Modules](#).
4. Information on configuration for the Cisco MDS 9000 Series can be found at: [Cisco MDS 9000 Series Configuration Guides](#).
5. Maximum ISLs (physical hops): 7 (maximum 1 Longwave ISL)
6. Information on **MDS 9000 Storage Services Module** can be found at <http://www.cisco.com/en/US/products/ps6293/index.html>
7. Information on **MDS 9000 Caching Service Module** can be found at: <http://www.cisco.com/en/US/products/ps6007/index.html>
8. Technical support on **SAN file system** can be found at: <http://www-03.ibm.com/servers/storage/software/virtualization/sfs/interop.html>
9. Technical support on **SAN Volume Controller (SVC)** can be found at: <http://www-03.ibm.com/servers/storage/support/software/sanvc/>
10. Extended Buffer to Buffer Credits using 10Gb ISL line cards not supported.
11. Daylight Savings Time Change can be found at [http://www.cisco.com/en/US/products/ps5989/products\\_configuration\\_guide\\_chapter09186a0080664c0e.html](http://www.cisco.com/en/US/products/ps5989/products_configuration_guide_chapter09186a0080664c0e.html)

## ESS Connectivity

1. Please see **IBM TotalStorage Enterprise Storage Server [Interoperability Matrix](#)** for Licensed Internal Code (LIC) level.
2. For **PPRC FC Direct, FC-CWDM and FCIP support** see table 4 of **ESS Interoperability Matrix**.

### IBM [System p](#) and RS/6000 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 5L</b>  <b>HACMP <sup>1</sup></b>	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>
	<b>Linux <sup>2</sup></b>	Available.

### IBM RS/6000 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 5L</b>  <b>PSSP <sup>4</sup></b>	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>

<sup>1</sup> See **ESS Interoperability matrix for AIX, HACMP and PSSP support information.**  
<http://www.storage.ibm.com/hardsoft/products/ess/supserver.htm>

<sup>2</sup> Details for Linux support on pSeries and RS/6000 can be found at:  
[http://www-1.ibm.com/servers/eserver/pseries/hardware/linux\\_facts.pdf](http://www-1.ibm.com/servers/eserver/pseries/hardware/linux_facts.pdf)

### IBM [System i](#) Servers

Description	Platform/Operating Systems	Additional Information
<p><b>IBM TotalStorage <a href="#">Enterprise Storage Servers</a></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>OS/400 Linux</p>	<p>Available.</p> <p><b>IBM TotalStorage Enterprise Storage Server <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><b>System i SAN <a href="#">information</a></b></p>

**IBM [System x](#) and other Intel-based Servers**

Description	Operating Systems	Additional Information
<p><b>IBM TotalStorage <a href="#">Enterprise Storage Servers</a></b></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>Microsoft Windows 2000 Microsoft Windows 2003</p>	<p>Available.</p> <p><b>IBM TotalStorage Enterprise Storage Server <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><b>IBM Server Proven <a href="#">Interoperability matrix</a></b></p>
	<p>Novell Netware</p>	<p>Available.</p>
	<p>Red Hat Enterprise Linux Advanced Server</p> <p>SuSE Linux Enterprise Server (SLES)</p> <p>UnitedLinux</p>	<p>Available.</p>

### SUN Microsystems 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>	Solaris	Available.  <b>IBM TotalStorage Enterprise Storage Server <a href="#">Interoperability Matrix</a></b>  <b>Fibre Channel <a href="#">Host Bus Adapter</a></b> firmware and driver level matrix.

### Hewlett-Packard Servers – HP- UX

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>	HP-UX	Available.  <b>IBM TotalStorage Enterprise Storage Server <a href="#">Interoperability Matrix</a></b>  <b>Fibre Channel <a href="#">Host Bus Adapter</a></b> firmware and driver level matrix.

## DS8000 Connectivity

Please see **IBM TotalStorage DS 8000 [Interoperability Matrix](#)**

1. For Licensed Internal Code (LIC) level.
2. For **PPRC** FC Direct, FC-CWDM and FCIP support see table 4 of **ESS Interoperability Matrix**.

### IBM [System p](#) and RS/6000 Servers

Description	Operating Systems	Additional Information
<b>IBM TotalStorage <a href="#">EDS 8000 Series</a></b> <b>IBM Model</b> <ul style="list-style-type: none"> <li>• 8100 Model 921</li> <li>• 8300 Model 922</li> <li>• 8300 Model 9A2</li> </ul>	<b>AIX 5L</b>  <b>HACMP<sup>3</sup></b>	Available.  <b>IBM TotalStorage DS 8000 <a href="#">Interoperability Matrix</a></b>  <b>Fibre Channel <a href="#">Host Bus Adapter</a> firmware and driver level matrix.</b>
	<b>Linux<sup>4</sup></b>	Available.

### IBM RS/6000 SP Servers

Description	Operating Systems	Additional Information
<b>IBM TotalStorage <a href="#">EDS 8000 Series</a></b> <b>IBM Model</b> <ul style="list-style-type: none"> <li>• 8100 Model 921</li> <li>• 8300 Model 922</li> <li>• 8300 Model 9A2</li> </ul>	<b>AIX 5L</b>  <b>PSSP<sup>4</sup></b>	Available.  <b>IBM TotalStorage DS 8000 <a href="#">Interoperability Matrix</a></b>  <b>Fibre Channel <a href="#">Host Bus Adapter</a> firmware and driver level matrix.</b>

<sup>3</sup> See **ESS** Interoperability matrix for **AIX**, **HACMP** and **PSSP** support information.  
<http://www.storage.ibm.com/hardsoft/products/ess/supserver.htm>

<sup>4</sup> Details for Linux support on pSeries and RS/6000 can be found at:  
[http://www-1.ibm.com/servers/eserver/pseries/hardware/linux\\_facts.pdf](http://www-1.ibm.com/servers/eserver/pseries/hardware/linux_facts.pdf)

### IBM [System i](#) Servers

Description	Platform/Operating Systems	Additional Information
<p><b>IBM TotalStorage <a href="#">EDS 8000 Series</a></b>  <b>IBM Model</b></p> <ul style="list-style-type: none"> <li>• 8100 Model 921</li> <li>• 8300 Model 922</li> <li>• 8300 Model 9A2</li> </ul>	<p><b>OS/400</b></p> <p><b>Linux</b></p>	<p>Available.</p> <p><b>IBM TotalStorage DS 8000 <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><b>System i SAN <a href="#">information</a></b></p>

**IBM [System x](#) and other Intel-based Servers**

Description	Operating Systems	Additional Information
<b>IBM TotalStorage <a href="#">EDS 8000 Series</a></b> <b>IBM Model</b> <ul style="list-style-type: none"> <li>• 8100 Model 921</li> <li>• 8300 Model 922</li> <li>• 8300 Model 9A2</li> </ul>	<b>Microsoft Windows 2000</b> <b>Microsoft Windows 2003</b>	Available.  <b>IBM TotalStorage DS 8000 <a href="#">Interoperability Matrix</a></b>  <b>Fibre Channel <a href="#">Host Bus Adapter</a></b> firmware and driver level matrix.  <b>IBM Server Proven <a href="#">Interoperability matrix</a></b>
	<b>Novell Netware</b>	Available.
	<b>Red Hat Enterprise Linux Advanced Server</b>  <b>SuSE Linux Enterprise Server (SLES)</b>  <b>UnitedLinux</b>	Available.

### SUN Microsystems Servers

Description	Operating Systems	Additional Information
<b>IBM TotalStorage <a href="#">EDS 8000 Series</a></b> <b>IBM Model</b> <ul style="list-style-type: none"> <li>• 8100 Model 921</li> <li>• 8300 Model 922</li> <li>• 8300 Model 9A2</li> </ul>	Solaris	Available.  <b>IBM TotalStorage DS 8000 <a href="#">Interoperability Matrix</a></b>  <b>Fibre Channel <a href="#">Host Bus Adapter</a></b> firmware and driver level matrix.

### Hewlett-Packard Servers – HP- UX

Description	Operating Systems	Additional Information
<b>IBM TotalStorage <a href="#">EDS 8000 Series</a></b> <b>IBM Model</b> <ul style="list-style-type: none"> <li>• 8100 Model 921</li> <li>• 8300 Model 922</li> <li>• 8300 Model 9A2</li> </ul>	HP-UX	Available.  <b>IBM TotalStorage DS 8000 <a href="#">Interoperability Matrix</a></b>  <b>Fibre Channel <a href="#">Host Bus Adapter</a></b> firmware and driver level matrix.

## DS6000 Connectivity

Please see **IBM TotalStorage DS 6000 [Interoperability Matrix](#)**

3. For Licensed Internal Code (LIC) level.
4. For **PPRC** FC Direct, FC-CWDM and FCIP support see table 4 of ESS **Interoperability Matrix**.

### IBM [System p](#) and RS/6000 Servers

Description	Operating Systems	Additional Information
<b>IBM TotalStorage <a href="#">DS 6000 Series</a></b> <b>IBM 1750 Model</b> • DS 6800	AIX 5L  HACMP <sup>5</sup>	Available.  <b>IBM TotalStorage DS 6000 <a href="#">Interoperability Matrix</a></b>  <b>Fibre Channel <a href="#">Host Bus Adapter</a> firmware and driver level matrix.</b>
	Linux <sup>6</sup>	Available.

### IBM RS/6000 SP Servers

Description	Operating Systems	Additional Information
<b>IBM TotalStorage <a href="#">DS 6000 Series</a></b> <b>IBM 1750 Model</b> • DS 6800	AIX 5L  PSSP <sup>4</sup>	Available.  <b>IBM TotalStorage DS 6000 <a href="#">Interoperability Matrix</a></b>  <b>Fibre Channel <a href="#">Host Bus Adapter</a> firmware and driver level matrix.</b>

<sup>5</sup> See **ESS** Interoperability matrix for **AIX**, **HACMP** and **PSSP** support information.  
<http://www.storage.ibm.com/hardsoft/products/ess/supserver.htm>

<sup>6</sup> Details for Linux support on pSeries and RS/6000 can be found at:  
[http://www-1.ibm.com/servers/eserver/pseries/hardware/linux\\_facts.pdf](http://www-1.ibm.com/servers/eserver/pseries/hardware/linux_facts.pdf)

### IBM [System i](#) Servers

Description	Platform/Operating Systems	Additional Information
<b>IBM TotalStorage <a href="#">DS 6000 Series</a></b> <b>IBM 1750 Model</b> • DS 6800	OS/400 Linux	Available.  <b>IBM TotalStorage DS 6000 <a href="#">Interoperability Matrix</a></b>  <b>Fibre Channel <a href="#">Host Bus Adapter</a></b> firmware and driver level matrix.  <b>System i SAN <a href="#">information</a></b>

**IBM [System x](#) and other Intel-based Servers**

Description	Operating Systems	Additional Information
<b>IBM TotalStorage <a href="#">DS 6000 Series</a></b> <b>IBM 1750 Model</b> • DS 6800	<b>Microsoft Windows 2000</b> <b>Microsoft Windows 2003</b>	Available.  <b>IBM TotalStorage DS 6000 <a href="#">Interoperability Matrix</a></b>  <b>Fibre Channel <a href="#">Host Bus Adapter</a></b> firmware and driver level matrix.  <b>IBM Server Proven <a href="#">Interoperability matrix</a></b>
	<b>Novell Netware</b>	Available.
	<b>Red Hat Enterprise Linux Advanced Server</b>  <b>SuSE Linux Enterprise Server (SLES)</b>  <b>UnitedLinux</b>	Available.

### SUN Microsystems Servers

Description	Operating Systems	Additional Information
<b>IBM TotalStorage <a href="#">DS 6000 Series</a></b> <b>IBM 1750 Model</b> • DS 6800	Solaris	Available.  <b>IBM TotalStorage DS 6000 <a href="#">Interoperability Matrix</a></b>  <b>Fibre Channel <a href="#">Host Bus Adapter</a></b> firmware and driver level matrix.

### Hewlett-Packard Servers – HP- UX

Description	Operating Systems	Additional Information
<b>IBM TotalStorage <a href="#">DS 6000 Series</a></b> <b>IBM 1750 Model</b> • DS 6800	HP-UX	Available.  <b>IBM TotalStorage DS 6000 <a href="#">Interoperability Matrix</a></b>  <b>Fibre Channel <a href="#">Host Bus Adapter</a></b> firmware and driver level matrix.

## DS4000 (FAStT) Connectivity

For the most current supported configurations see the important notices and readme posted on DS 4000 product pages

### IBM [System p](#), 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="#">DS4800</a></li> <li>• <a href="#">DS4700</a></li> <li>• <a href="#">DS4500</a></li> <li>• <a href="#">DS4400</a></li> <li>• <a href="#">DS4300</a></li> <li>• Dual Controller</li> <li>• Turbo</li> <li>• <a href="#">DS4200</a></li> </ul>	<b>AIX 5L</b>	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>  <b>IBM Server Proven <a href="#">Interoperability matrix</a></b>
	<b>Linux</b> <sup>7</sup>	Available.

<sup>7</sup> Details for Linux support on pSeries and RS/6000 can be found at: [http://www-1.ibm.com/servers/eserver/pseries/hardware/linux\\_facts.pdf](http://www-1.ibm.com/servers/eserver/pseries/hardware/linux_facts.pdf)

**IBM [System x](#) 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="#">DS4800</a></li> <li>• <a href="#">DS4700</a></li> <li>• <a href="#">DS4500</a></li> <li>• <a href="#">DS4400</a></li> <li>• <a href="#">DS4300</a> <ul style="list-style-type: none"> <li>• Dual Controller</li> <li>• Turbo</li> </ul> </li> <li>• <a href="#">DS4200</a></li> </ul>	<b>Microsoft Windows 2000</b>  <b>Microsoft Windows 2003</b>	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>Novell Netware</b>	Available.
	<b>Red Hat Enterprise Linux</b>  <b>United Linux 1.0</b>	Available.

### SUN microsystems Servers

Description	Operating Systems	Additional Information
<b>IBM TotalStorage Storage Servers</b> <ul style="list-style-type: none"> <li>• <a href="#">DS4800</a></li> <li>• <a href="#">DS4700</a></li> <li>• <a href="#">DS4500</a></li> <li>• <a href="#">DS4400</a></li> <li>• <a href="#">DS4300</a> <ul style="list-style-type: none"> <li>• Dual Controller</li> <li>• Turbo</li> </ul> </li> <li>• <a href="#">DS4200</a></li> </ul>	Solaris	Available.  <b>IBM TotalStorage DS4000</b> <a href="#">Interoperability matrix</a>  <b>IBM Server Proven</b> <a href="#">Interoperability matrix</a>  <b>Fibre Channel <a href="#">Host Bus Adapter</a></b> firmware and driver level matrix.

### Hewlett-Packard Servers – HP- UX

Description	Operating Systems	Additional Information
<b>IBM TotalStorage Storage Servers</b> <ul style="list-style-type: none"> <li>• <a href="#">DS4800</a></li> <li>• <a href="#">DS4700</a></li> <li>• <a href="#">DS4500</a></li> <li>• <a href="#">DS4400</a></li> <li>• <a href="#">DS4300</a> <ul style="list-style-type: none"> <li>• Dual Controller</li> <li>• Turbo</li> </ul> </li> <li>• <a href="#">DS4200</a></li> </ul>	HP-UX	Available.  <b>IBM TotalStorage DS4000</b> <a href="#">Interoperability matrix</a>  <b>IBM Server Proven</b> <a href="#">Interoperability matrix</a>  <b>Fibre Channel <a href="#">Host Bus Adapter</a></b> firmware and driver level matrix.

### IBM [System p](#), RS/6000 and RS/6000-SP Servers

Description	Operating Systems	Additional Information
<b>IBM TotalStorage Storage Servers</b> • <a href="#">DS4100</a>	AIX	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>
	Linux <sup>8</sup>	Available.

### IBM [System x](#) and other Intel-based Servers

Description	Operating Systems	Additional Information
<b>IBM TotalStorage Storage Servers</b> • <a href="#">DS4100</a>	Microsoft Windows 2000	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>
	Microsoft Windows 2003	
	Red Hat Enterprise Linux  United Linux 1.0	Available.

<sup>8</sup> Details for Linux support on pSeries and RS/6000 can be found at:  
[http://www-1.ibm.com/servers/eserver/pseries/hardware/linux\\_facts.pdf](http://www-1.ibm.com/servers/eserver/pseries/hardware/linux_facts.pdf)

### IBM [System p](#), 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="#">FAStT500</a></li> <li>• <a href="#">FAStT200</a></li> </ul>	AIX 5L	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>
	Linux <sup>9</sup>	Available.

### IBM [System x](#) 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="#">FAStT500</a></li> <li>• <a href="#">FAStT200</a></li> </ul>	Microsoft Windows 2000	Available.
	Microsoft Windows 2003	<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>
	Red Hat Enterprise Linux	Available.
	United Linux 1.0	

<sup>9</sup> Details for Linux support on pSeries and RS/6000 can be found at:  
[http://www-1.ibm.com/servers/eserver/pseries/hardware/linux\\_facts.pdf](http://www-1.ibm.com/servers/eserver/pseries/hardware/linux_facts.pdf)

### SUN microsystems 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>	Solaris	Available.  <b>IBM TotalStorage DS4000</b> <a href="#">Interoperability matrix</a>  <b>IBM Server Proven</b> <a href="#">Interoperability matrix</a>  <b>Fibre Channel <a href="#">Host Bus Adapter</a></b> firmware and driver level matrix.

### Hewlett-Packard Servers – HP- UX

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>	HP-UX	Available.  <b>IBM TotalStorage DS4000</b> <a href="#">Interoperability matrix</a>  <b>IBM Server Proven</b> <a href="#">Interoperability matrix</a>  <b>Fibre Channel <a href="#">Host Bus Adapter</a></b> firmware and driver level matrix.



**IBM [System i](#) Servers**

Description	Platform/Operating Systems	Additional Information
<p><b>Enterprise Tape System <a href="#">3592 J1A, C06</a> in a 3494 or 3584 Tape Library or rack mounted.</b></p> <p><b>Enterprise Tape System <a href="#">3590 E11/E1A and H11/H1A</a> with Native FC Tape Drives. Standalone or in a 3494 Tape Library.</b></p> <p><b>Enterprise Tape System <a href="#">TS1120</a> (3952 E05) tape drive.</b></p> <p><b><a href="#">TS3310</a> Tape Library with Native Ultrium 3 drives</b></p> <p><b>Ultrium <a href="#">3584 UltraScalable</a> Tape Library with Native FC Ultrium 2 and 3 drives only</b></p> <p><b>Ultrium <a href="#">3583 Scalable</a> Tape Library with Native FC Ultrium 2 and 3 drives.</b></p> <p><b>Ultrium <a href="#">3582</a> Tape Library with Native FC Ultrium 2 and 3 drives.</b></p> <p><b>Ultrium <a href="#">3581-2U</a> IBM LTO Tape Autoloader</b></p> <p><b>Virtualization Engine <a href="#">TS7510</a></b></p>	<p>OS/400<sup>11</sup> Linux</p>	<p>Available.</p> <p><b>System i SAN <a href="#">information</a>.</b></p> <p><b>Fibre Channel <a href="#">Host Bus Adapter</a> firmware and driver level matrix.</b></p> <p>Please review <a href="#">RMSS Technical Support Site</a>.</p>

<sup>11</sup> Required PTF MF32002

**IBM [System x](#) and other Intel-based Servers**

Description	Operating Systems	Additional Information
<p><b>Enterprise Tape System <a href="#">3592 J1A, C06</a></b> in a 3494 or 3584 Tape Library, rack mounted or Silo Compatible Frame.</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 or Silo Compatible Frame.</p>	<p><b>Microsoft Windows 2000</b></p> <p><b>Microsoft Windows 2003 Server</b></p>	<p>Available.</p> <p><b>Fibre Channel <a href="#">Host Bus Adapter</a></b> firmware and driver level matrix.</p> <p><b>IBM Server Proven <a href="#">Interoperability matrix</a></b></p> <p>Please review <a href="#">RMSS Technical Support Site</a>.</p>
<p><b>Enterprise Tape System <a href="#">TS1120</a></b> (3952 E05) tape drive.</p> <p><b><a href="#">TS3310</a></b> Tape Library with Native Ultrium 3 drives</p> <p><b>Ultrium <a href="#">3584 UltraScalable</a></b> Tape Library with Native FC Ultrium 2 and 3 drives only</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><b>Ultrium <a href="#">3581-2U</a></b> IBM LTO Tape Autoloader</p> <p><b>Virtualization Engine <a href="#">TS7510</a></b></p>	<p><b>Red Hat Enterprise Linux</b></p> <p><b>United Linux 1.0</b></p>	<p>Available.</p> <p><b>Fibre Channel <a href="#">Host Bus Adapter</a></b> firmware and driver level matrix.</p> <p>Please review <a href="#">RMSS Technical Support Site</a>.</p>

### SUN microsystems Servers

Description	Operating Systems	Additional Information
<p><b>Enterprise Tape System</b>  <a href="#">3592 J1A, C06</a> in a 3494 or 3584 Tape Library, rack mounted or Silo Compatible Frame.</p> <p><b>Enterprise Tape System</b>  <a href="#">3590 E11/E1A and H11/H1A</a> with Native FC Tape Drives. Standalone or in a 3494 Tape Library or Silo Compatible Frame.</p> <p><b>Enterprise Tape System</b>  <a href="#">TS1120</a> (3952 E05) tape drive.</p> <p><a href="#">TS3310</a> Tape Library with Native Ultrium 3 drives</p> <p><b>Ultrium <a href="#">3584 UltraScalable</a></b> Tape Library with Native FC Ultrium 2 and 3 drives only</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><b>Ultrium <a href="#">3581-2U</a></b> IBM LTO Tape Autoloader</p> <p><b>Virtualization Engine <a href="#">TS7510</a></b></p>	<p><b>Solaris</b></p>	<p>Available.</p> <p><b>Fibre Channel <a href="#">Host Bus Adapter</a></b> firmware and driver level matrix.</p> <p>Please review <a href="#">RMSS Technical Support Site</a>.</p>

**Hewlett-Packard Servers – HP- UX**

Description	Operating Systems	Additional Information
<p><b>Enterprise Tape System</b>  <a href="#">3592 J1A, C06</a> in a 3494 or 3584 Tape Library, rack mounted or Silo Compatible Frame.</p> <p><b>Enterprise Tape System</b>  <a href="#">3590 E11/E1A and H11/H1A</a> with Native FC Tape Drives. Standalone or in a 3494 Tape Library or Silo Compatible Frame.</p> <p><b>Enterprise Tape System</b>  <a href="#">TS1120</a> (3952 E05) tape drive.</p> <p><a href="#">TS3310</a> Tape Library with Native Ultrium 3 drives</p> <p><b>Ultrium <a href="#">3584 UltraScalable</a></b> Tape Library with Native FC Ultrium 2 and 3 drives only</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><b>Ultrium <a href="#">3581-2U</a></b> IBM LTO Tape Autoloader</p> <p><b>Virtualization Engine <a href="#">TS7510</a></b></p>	<p>HP-UX</p>	<p>Available.</p> <p><b>Fibre Channel <a href="#">Host Bus Adapter</a></b> firmware and driver level matrix.</p> <p>Please see the <a href="#">readme</a> file for any restrictions.</p> <p>Please review <a href="#">RMSS Technical Support Site</a>.</p>

## **NETWORK ATTACHED STORAGE (NAS)**

Cisco MDS 9506, 9509, 9513 and MDS 9216A and 9216i for IBM System Storage Directors and Switches are interoperable with:

- NSeries 3700, 5200, 5500, 7000 – Supported with 2.1(2b) and above
- NAS Gateway 300G
  - 5196 Model G02
  - 5196 Model G27
- NAS Gateway 500
  - 5198 Model 001

## **IBM eServer Blade Center (BC)**

Information on interoperability and Technical Support can be found at [IBM eServer Blade Center](#).

<b>Description</b>	<b>Blade Switch Module Firmware</b>	<b>Cisco MDS 9000 SAN Family</b>
Cisco 10/20 port FCSM	3.1 (2a)	3.1 (2a)
Qlogic 2-port FCSM	2.0.1.9	3.1 (2a)
Qlogic 6-port FCSM	4.1.0.22	3.1 (2a)
Qlogic 10/20 port FCSM	5.5.2.05	3.1 (2a)
Optical Pass-Thru Module	N/A	N/A
Brocade 2/6 port FCSM	5.05a	3.1 (2a)
Brocade 10/20 port FCSM	5.05a	3.1 (2a)
McData 6/10/20 port FCSM	5.5.2.05*	3.1 (2a)

## **Heterogeneous SAN support**

The following configurations support InterVSAN Routing with or without NAT support

<b>IBM Switch</b>	<b>Support Firmware</b>	<b>Interop Modes</b>
IBM 3534-F08, 2109-F16	3.1.3a	1, 2, 3
IBM 2109-F32, M12	4.0.2d, 4.1.1, 4.1.2b	1
	4.2.0b, 4.2.2a	1, 3
IBM 2109-F32	4.4.0f	1, 2, 3
IBM 2109-F32, M48	5.0.1d, 5.0.3	1, 2, 3
IBM 2005-H16, B16	5.0.3	1, 3
IBM 2032-064, 2027-140, 2031-224, 2031-232	7.0, 7.0.1, 8.0	1, 4
InRange/CNT FC/9000	4.00.04.06	None

Mode 1 – Standard Interop Mode; Mode 2 – Legacy Switch Mode, Brocade PID=0; Mode 3 – Legacy Switch Mode, Brocade PID=1; Mode 4 – Native Mode

\* McData 10/20 port FCSM using McData Fabric Mode is NOT supported with Cisco MDS 9000 family products