

IBM TotalStorage® SAN Switch 3534-F08

IBM Storage and Server Interoperability Matrix

Last update: Jul. 8, 04

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AS/400	Micro Channel	Server
DYNIX	Multiprise	SP
DYNIX/ptx	Netfinity	TotalStorage
e (logo)	NUMA-Q	Versatile Storage Server
Enterprise Storage Server	OS/390	VM/ESA
ESCON	OS/400	VSE/ESA
ES/9000	PTX	xSeries
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[FASTT](#)

[Tape](#)

[NAS](#)

Notes:

1. [Firmware](#) version **3.1.2a** or later and Fabric Manager **4.1.1** are recommended.
2. Firmware version and operating mode for interoperability with [BladeCenter Servers](#) (page 21).
3. [Reference Information](#).
4. [Advanced Security Feature](#) is available with firmware version 3.1.0 or later.
5. Secure Fabric OS - [Field Upgrade Process](#). ([Hints and Tips](#)).
6. Any user of Quickloop should be advised to obtain a copy of the [Quickloop Best Practices Guide](#) and review the recommendations prior to setting up zoning.
7. [Full-Fabric Switch Feature](#) adds Advanced Zoning, Fabric Watch and connectivity for up to eight switches. PN 18P5060 (Feature Code 7320).
8. Advanced zoning activation is required for clustering with HACMP.
9. SAN Fibre Channel Switch 3534 Model F08 [Data Sheet](#) (pdf).
10. Technical support on **SAN file system** can be found at:
<http://www-1.ibm.com/servers/storage/support/virtual/sanfs.html>
11. Technical support on **SAN Volume Controller (SVC)** can be found at:
<http://www-1.ibm.com/servers/storage/support/virtual/2145.html>
12. Both tape and disk attached to the same HBA are not recommended.
13. We do not recommend attaching the NAS 300G to an **unzoned** switch configuration.
14. Planned availability dates represent current estimates and are subject to change or withdrawal at any time without notice.

ESS Connectivity

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

IBM [pSeries](#) and RS/6000 Servers

Description	Operating Systems	Additional Information
IBM TotalStorage Enterprise Storage Servers IBM 2105 Model <ul style="list-style-type: none"> • 750 • 800 • F10/F20 	AIX <ul style="list-style-type: none"> • Version 4 <ul style="list-style-type: none"> • 4.3.3 • 5L <ul style="list-style-type: none"> • Version 5.1 • Version 5.2 HACMP ¹	Available. Enterprise Storage Server Interoperability matrix Fibre Channel Host Bus Adapter firmware and driver level matrix.
	United Linux 1.0 ² <ul style="list-style-type: none"> • SuSE Linux Enterprise Server 8 • Turbolinux Enterprise Server 8 	Available.

IBM RS/6000 SP Servers

Description	Operating Systems	Additional Information
IBM TotalStorage Enterprise Storage Servers IBM 2105 Model <ul style="list-style-type: none"> • 750 • 800 • F10/F20 	AIX <ul style="list-style-type: none"> • Version 4 <ul style="list-style-type: none"> • 4.3.3 • 5L <ul style="list-style-type: none"> • Version 5.1 ML2 • Version 5.2 PSSP ¹	Available.

¹ See **ESS** Interoperability matrix for **AIX**, **HACMP**, **PSSP**, and **SDD** support information.

² 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

IBM iSeries Servers

Description	Operating Systems	Additional Information
IBM TotalStorage Enterprise Storage Servers IBM 2105 Model <ul style="list-style-type: none"> • 750 • 800 • F10/F20 	IBM iSeries Model <ul style="list-style-type: none"> • 270 • 800 • 810 • 820 • 825 • 830 • 840 • 870 • 890 OS/400 <ul style="list-style-type: none"> • V5R1³ or later 	Available Enterprise Storage Server Interoperability matrix Fibre Channel Host Bus Adapter firmware and driver level matrix. iSeries SAN information
	UnitedLinux⁴ <ul style="list-style-type: none"> • 1.0 	Available

³ Version 5 Release 2 or later

- Multiple ESS can be configured in zones/quick loops

Version 5 Release 1

- The 3534 Model F08 ports attached to iSeries must be running QuickLoop (RPQ # 8S0521).
- Multiple initiators (iSeries FC adapters) are supported in a zone/quick loop with a single ESS.

⁴ For detail of Linux support on iSeries can be found at:

- <http://www-1.ibm.com/servers/eserver/series/linux>

IBM xSeries, Netfinity Servers and other Intel-based Servers

Description	Operating Systems	Additional Information
IBM TotalStorage Enterprise Storage Servers IBM 2105 Model <ul style="list-style-type: none"> • 750 • 800 • F10/F20 	Microsoft Windows NT <ul style="list-style-type: none"> • Server 4.0 • Server 4.0 Enterprise Edition Microsoft Windows 2000 <ul style="list-style-type: none"> • Server • Advanced Server • Datacenter Server Microsoft Windows 2003⁵ <ul style="list-style-type: none"> • Standard Edition • Enterprise Edition • Datacenter Edition 	Available Enterprise Storage Server Interoperability matrix Fibre Channel Host Bus Adapter firmware and driver level matrix.
	Novell Netware <ul style="list-style-type: none"> • 5.1 • 6.0 	Available
	Red Hat Linux <ul style="list-style-type: none"> • 7.1 • 7.2 • 7.3 Red Hat Linux Advanced Server <ul style="list-style-type: none"> • 2.1 SuSE Linux <ul style="list-style-type: none"> • 7.2 • 7.3 SuSE Linux Enterprise Server (SLES) <ul style="list-style-type: none"> • 7 UnitedLinux <ul style="list-style-type: none"> • 1.0 	Available

⁵ 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
IBM TotalStorage Enterprise Storage Servers IBM 2105 Model <ul style="list-style-type: none"> • 750 • 800 • F10/F20 	Solaris <ul style="list-style-type: none"> • 2.6 • 7 • 8 • 9 	Available Enterprise Storage Server Interoperability matrix Fibre Channel Host Bus Adapter firmware and driver level matrix.

Hewlett-Packard Servers – HP- UX

Description	Operating Systems	Additional Information
IBM TotalStorage Enterprise Storage Servers IBM 2105 Model <ul style="list-style-type: none"> • 750 • 800 • F10/F20 	HP-UX <ul style="list-style-type: none"> • 11.0 • 11i 	Available Enterprise Storage Server Interoperability matrix Fibre Channel Host Bus Adapter firmware and driver level matrix.

Hewlett-Packard Servers –Tru64 UNIX

Description	Operating Systems	Additional Information
IBM TotalStorage Enterprise Storage Servers IBM 2105 Model <ul style="list-style-type: none"> • 750 • F10/F20 	AlphaServer 800, 1200, 2100, 4000, 4000A, 4100, 8200, 8400, DS10, DS20, DS20E, ES40, GS60, GS60E, GS140, GS80, GS160, GS320 Tru64 UNIX 4.0F, 4.0G, 5.0A, 5.1, 5.1A, 51B	Available Enterprise Storage Server Interoperability matrix Fibre Channel Host Bus Adapter firmware and driver level matrix.

FAStT 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/fastt/fastt900.html>
 - <http://www-1.ibm.com/servers/storage/support/fastt/fastt700.html>
 - <http://www-1.ibm.com/servers/storage/support/fastt/fastt600.html>
 - <http://www-1.ibm.com/servers/storage/support/fastt/fastt500.html>
 - <http://www-1.ibm.com/servers/storage/support/fastt/fastt200.html>
 - <http://www-1.ibm.com/servers/storage/support/fastt/fastt100.html>

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

Description	Operating Systems	Additional Information
IBM TotalStorage Storage Servers <ul style="list-style-type: none"> • FAStT900 • FAStT700 • FAStT600 • Dual Controller • Turbo 	AIX <ul style="list-style-type: none"> • Version 4 <ul style="list-style-type: none"> • 4.3.3 • 5L <ul style="list-style-type: none"> • Version 5.1 • Version 5.2 HACMP, PSSP (see note #2 page 8)	Available IBM TotalStorage FASTT Storage Interoperability matrix IBM Server Proven Interoperability matrix Fibre Channel Host Bus Adapter firmware and driver level matrix.
	United Linux 1.0⁶ <ul style="list-style-type: none"> • SuSE Linux Enterprise Server 8 	Available

⁶ 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/hardware/linux_facts.pdf

IBM xSeries and Netfinity Servers and other Intel-based Servers

Description	Operating Systems	Additional Information
<p>IBM TotalStorage Storage Servers</p> <ul style="list-style-type: none"> • FAST900 • FAST700 • FAST600 • Dual Controller • Single Controller • Turbo 	<p>Microsoft Windows NT</p> <ul style="list-style-type: none"> • Server 4.0 • Server 4.0 Enterprise Edition <p>Microsoft Windows 2000</p> <ul style="list-style-type: none"> • Server • Advanced Server <p>Microsoft Windows 2003</p> <ul style="list-style-type: none"> • Standard Edition • Enterprise Edition • Web Edition 	<p>Available</p> <p>IBM TotalStorage FAST Storage Interoperability matrix</p> <p>IBM Server Proven Interoperability matrix</p> <p>Fibre Channel Host Bus Adapter firmware and driver level matrix.</p>
	<p>Novell Netware</p> <ul style="list-style-type: none"> • 5.1 • 6.0 	<p>Available</p>
	<p>Red Hat Linux</p> <ul style="list-style-type: none"> • 7.x • 8.0 <p>Red Hat Enterprise Linux</p> <ul style="list-style-type: none"> • 2.1 <p>United Linux 1.0</p> <ul style="list-style-type: none"> • SuSE Linux Enterprise Server 8 • Turbolinux Enterprise Server 8 • Connectiva Enterprise Edition 	<p>Available</p>

SUN microsystems Servers

Description	Operating Systems	Additional Information
IBM TotalStorage Storage Servers <ul style="list-style-type: none"> • FAST900 • FAST700 • FAST600 <ul style="list-style-type: none"> • Dual Controller • Single Controller • Turbo 	Solaris <ul style="list-style-type: none"> • 2.6 • 7 • 8 • 9 	Available IBM TotalStorage FAST Storage Interoperability matrix IBM Server Proven Interoperability matrix Fibre Channel Host Bus Adapter firmware and driver level matrix.

Hewlett-Packard Servers – HP- UX

Description	Operating Systems	Additional Information
IBM TotalStorage Storage Servers <ul style="list-style-type: none"> • FAST900 • FAST700 • FAST600 <ul style="list-style-type: none"> • Dual Controller • Single Controller • Turbo 	HP-UX <ul style="list-style-type: none"> • 11.0 • 11i 	Available IBM TotalStorage FAST Storage Interoperability matrix IBM Server Proven Interoperability matrix Fibre Channel Host Bus Adapter firmware and driver level matrix.

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

Description	Operating Systems	Additional Information
IBM TotalStorage Storage Servers • FAST100	AIX • 5L • Version 5.1 • Version 5.2 HACMP, PSSP (see note #2 page 8)	Available. IBM TotalStorage FAST Storage Interoperability matrix IBM Server Proven Interoperability matrix Fibre Channel Host Bus Adapter firmware and driver level matrix.
	United Linux 1.0⁷ • SuSE Linux Enterprise Server 8	Available.

IBM xSeries and Netfinity Servers and other Intel-based Servers

Description	Operating Systems	Additional Information
IBM TotalStorage Storage Servers • FAST100	Microsoft Windows 2000 • Server • Advanced Server Microsoft Windows 2003 • Standard Edition • Enterprise Edition • Web Edition	Available. IBM TotalStorage FAST Storage Interoperability matrix IBM Server Proven Interoperability matrix Fibre Channel Host Bus Adapter firmware and driver level matrix.
	Red Hat Enterprise Linux • 3.0 United Linux 1.0 • SuSE Linux Enterprise Server 8 • Turbolinux Enterprise Server 8 • Connectiva Enterprise Edition	Available.

⁷ 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/hardware/linux_facts.pdf

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

Description	Operating Systems	Additional Information
IBM TotalStorage Storage Servers <ul style="list-style-type: none"> • FAST500 • FAST200 	AIX <ul style="list-style-type: none"> • Version 4 <ul style="list-style-type: none"> • 4.3.3 • 5L <ul style="list-style-type: none"> • Version 5.1 • Version 5.2 HACMP, PSSP (see note #2 page 8)	Available IBM TotalStorage FAST Storage Interoperability matrix IBM Server Proven Interoperability matrix Fibre Channel Host Bus Adapter firmware and driver level matrix.
	United Linux 1.0⁸ <ul style="list-style-type: none"> • SuSE Linux Enterprise Server 8 	Available

⁸ 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/hardware/linux_facts.pdf

IBM xSeries and Netfinity Servers and other Intel-based Servers

Description	Platform/Operating Systems	Additional Information
IBM TotalStorage Storage Servers <ul style="list-style-type: none"> • FAST500 • FAST200 	Microsoft Windows NT <ul style="list-style-type: none"> • Server 4.0 • Server 4.0 Enterprise Edition Microsoft Windows 2000 <ul style="list-style-type: none"> • Server • Advanced Server Microsoft Windows 2003 <ul style="list-style-type: none"> • Standard Edition • Enterprise Edition • Web Edition 	Available IBM TotalStorage FAST Storage Interoperability matrix IBM Server Proven Interoperability matrix Fibre Channel Host Bus Adapter firmware and driver level matrix.
	Novell Netware <ul style="list-style-type: none"> • 5.1 • 6.0 	Available
	Red Hat Linux <ul style="list-style-type: none"> • 7.x • 8.0 Red Hat Enterprise Linux <ul style="list-style-type: none"> • 2.1 United Linux 1.0 <ul style="list-style-type: none"> • SuSE Linux Enterprise Server 8 	Available

SUN microsystems Servers

Description	Operating Systems	Additional Information
IBM TotalStorage Storage Servers <ul style="list-style-type: none"> • FAStT500 • FAStT200 	Solaris <ul style="list-style-type: none"> • 2.6 • 7 • 8 • 9 	Available IBM TotalStorage FAStT Storage Interoperability matrix IBM Server Proven Interoperability matrix Fibre Channel Host Bus Adapter firmware and driver level matrix.

Hewlett-Packard Servers – HP- UX

Description	Operating Systems	Additional Information
IBM TotalStorage Storage Servers <ul style="list-style-type: none"> • FAStT500 • FAStT200 	HP-UX <ul style="list-style-type: none"> • 11.0 • 11i 	Available IBM TotalStorage FAStT Storage Interoperability matrix IBM Server Proven Interoperability matrix Fibre Channel Host Bus Adapter firmware and driver level matrix.

TAPE Connectivity

AVOID DYNAMIC ZONING CHANGES

As a recommendation, we advise that one avoid making zoning changes to your fabric while data is being transferred, if possible. There may be some risk in job interruption, especially with serial data during the Registered State Change Notifications (RSCN's) that are produced as a result of the zone change. Some HBA's are more prone to an interruption than others.

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

Description	Operating Systems	Additional Information
<p>Enterprise Tape System 3592 J1A in a 3494 or 3584 Tape Library.</p> <p>Enterprise Tape System 3590 E11/E1A and H11/H1A with Native FC Tape Drives. Standalone or in a 3494 Tape Library.</p> <p>All 3494 rules apply. i.e. ESCON/FICON owned drives cannot co-exist in the same frame as Open Systems drives.</p> <p>Ultrium 3584 UltraScalable Tape Library with Native FC Ultrium 2 drives only (Feature Code 1476).</p> <p>Ultrium 3583 Scalable Tape Library with Native FC Ultrium 2 drives.</p> <p>Ultrium 3582 Tape Library with Native FC Ultrium 2 drives.</p>	<p>SLES 8 for IBM zSeries 32-bit and 64-bit Server</p> <p>FICON or FICON Express Channels with FCP enablement firmware</p> <p>Longware</p> <ul style="list-style-type: none"> • FC 2315 • FC 2319 <p>Shortware</p> <ul style="list-style-type: none"> • FC 2318 • FC 2320 	<p>Available</p> <p>zSeries Support of Fibre Channel FCP Channels</p>

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

Description	Operating Systems	Additional Information
<p>Enterprise Tape System 3592 J1A in a 3494 or 3584 Tape Library, rack mounted or Silo Compatible Frame.</p>	<p>AIX</p> <ul style="list-style-type: none"> • Version 4 <ul style="list-style-type: none"> • 4.3.3 • 5L <ul style="list-style-type: none"> • Version 5.1 • Version 5.2 	<p>Available</p> <p>Fibre Channel Host Bus Adapter firmware and driver level matrix.</p>
<p>Enterprise Tape System 3590 E11/E1A and H11/H1A with Native FC Tape Drives. Standalone or in a 3494 Tape Library.</p> <p>Ultrium 3584 UltraScalable Tape Library with Native FC Ultrium 1 and 2 drives.</p> <p>Ultrium 3583 Scalable Tape Library with Native FC Ultrium 2 drives.</p> <p>Ultrium 3583 Scalable Tape Library with Integrated SDG Module.</p> <p>Ultrium 3582 Tape Library with Native FC Ultrium 2 drives.</p>	<p>United Linux 1.0⁹</p> <ul style="list-style-type: none"> • SuSE Linux Enterprise Server 8 	<p>Available</p>

⁹ 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/hardware/linux_facts.pdf

IBM iSeries Servers

Description	Operating Systems	Additional Information
<p>Enterprise Tape System 3592 J1A in a 3494 or 3584 Tape Library or rack mounted.</p> <p>Enterprise Tape System 3590 E11/E1A and H11/H1A with Native FC Tape Drives. Standalone or in a 3494 Tape Library.</p> <p>Ultrium 3584 UltraScalable Tape Library with Native FC Ultrium 1 and 2 drive models.</p> <p>Ultrium 3583 Scalable Tape Library with Native FC Ultrium 2 drives.</p> <p>Ultrium 3583 Scalable Tape Library with Integrated SDG Module.</p> <p>Ultrium 3582 Tape Library with Native FC Ultrium 2 drives.</p>	<p>IBM iSeries Model</p> <ul style="list-style-type: none"> • 270 • 800 • 810 • 820 • 825 • 830 • 840 • 870 • 890 <p>OS/400</p> <ul style="list-style-type: none"> • V5R1¹⁰ or later 	<p>Available</p> <p>Fibre Channel Host Bus Adapter firmware and driver level matrix.</p> <p>iSeries SAN information</p>

¹⁰ Version 5 Release 2 or later

- Support multiple tape devices in a fabric or QuickLoop zone.
- Fabric attach is preferred over QuickLoop.

Version 5 Release 1

- The 3534 Model F08 ports attached to iSeries must be running QuickLoop (RPQ #8S0521).
- Multiple initiators (iSeries FC adapters) are supported in a QuickLoop zone with a single tape subsystem.

IBM xSeries, Netfinity Servers and other Intel-based Servers

Description	Operating Systems	Additional Information
<p>Enterprise Tape System <u>3592 J1A</u> in a 3494 or 3584 Tape Library, rack mounted or Silo Compatible Frame.</p> <p>Enterprise Tape System <u>3590 E11/E1A and H11/H1A</u> with Native FC Tape Drives. Standalone or in a 3494 Tape Library or Silo Compatible Frame</p> <p>Ultrium <u>3584 UltraScalable</u> Tape Library with Native FC Ultrium 1 and 2 drives.</p> <p>Ultrium <u>3583 Scalable</u> Tape Library with Native FC Ultrium 2 drives.</p> <p>Ultrium <u>3583 Scalable</u> Tape Library with Integrated SDG Module</p> <p>Ultrium <u>3582</u> Tape Library with Native FC Ultrium 2 drives.</p>	<p>Microsoft Windows NT</p> <ul style="list-style-type: none"> • Server 4.0 • Server 4.0 Enterprise Edition <p>Microsoft Windows 2000</p> <ul style="list-style-type: none"> • Server • Advanced Server • Datacenter Server <p>Microsoft Windows 2003 Server</p> <ul style="list-style-type: none"> • Standard Edition • Enterprise Edition • Datacenter Edition • Web Edition 	<p>Available</p> <p>Fibre Channel <u>Host Bus Adapter</u> firmware and driver level matrix.</p>
	<p>Red Hat Enterprise Linux</p> <ul style="list-style-type: none"> • 2.1 <p>United Linux 1.0</p> <ul style="list-style-type: none"> • SuSE Linux Enterprise Server 8 • Turbolinux Enterprise Server 8 • Connectiva Enterprise Edition 	<p>Available</p> <p>Please review RMSS Technical Support Site.</p>

SUN microsystems Servers

Description	Operating Systems	Additional Information
<p>Enterprise Tape System 3590 E11/E1A and H11/H1A with Native FC Tape Drives. Standalone or in a 3494 Tape Library or Silo Compatible Frame</p> <p>Ultrium 3584 UltraScalable Tape Library with Native FC Ultrium 1 drives.</p> <p>Ultrium 3583 Scalable Tape Library with Integrated SDG Module</p>	<p>Solaris</p> <ul style="list-style-type: none"> • 2.6 • 7 • 8 • 9 	<p>Available</p> <p>Fibre Channel Host Bus Adapter firmware and driver level matrix.</p>
<p>Enterprise Tape System 3592 J1A in a 3494 or 3584 Tape Library, rack mounted or Silo Compatible Frame.</p> <p>Ultrium 3584 UltraScalable Tape Library with Native FC Ultrium 2 drives.</p> <p>Ultrium 3583 Scalable Tape Library with Native FC Ultrium 2 drives.</p> <p>Ultrium 3582 Tape Library with Native FC Ultrium 2 drives.</p>	<p>Solaris</p> <ul style="list-style-type: none"> • 7 • 8 • 9 	<p>Available</p>

Hewlett-Packard Servers – HP- UX

Description	Operating Systems	Additional Information
<p>Enterprise Tape System 3592 J1A in a 3494 or 3584 Tape Library, rack mounted or Silo Compatible Frame.</p> <p>Enterprise Tape System 3590 E11/E1A and H11/H1A with Native FC Tape Drives. Standalone or in a 3494 Tape Library or Silo Compatible Frame</p> <p>Ultrium 3584 UltraScalable Tape Library with Native FC Ultrium 1 and 2 drives.</p> <p>Ultrium 3583 Scalable Tape Library with Native FC Ultrium 2 drives.</p> <p>Ultrium 3583 Scalable Tape Library with Integrated SDG Module</p> <p>Ultrium 3582 Tape Library with Native FC Ultrium 2 drives.</p>	<p>HP-UX</p> <ul style="list-style-type: none"> • 11.0 • 11i 	<p>Available</p> <p>Fibre Channel Host Bus Adapter firmware and driver level matrix.</p> <p>For specific details and restrictions please see the readme file.</p>

NETWORK ATTACHED STORAGE ([NAS](#))

SAN switch 3534 Model F08 is interoperable with:

NAS Gateway 500

- 5198 Model 001

IBM eServer™ BladeCenter

Supported Switch, Firmware Versions and Operating Mode.

	Blade SW Module Firmware	2109-S16 & S08 3534-1RU Firmware	2109-F16 3534-F08 Firmware	2109-F32 2109-M1 Firmware	2005-H08 & H16 2109-M1 Firmware
BladeCenter					
2-port FC Switch Module	1.x	v2.6.1c or later (Interop Mode)	v3.0.2q, v3.1.2a or later, (Interop Mode)	Not supported	Not supported
2-port FC Switch Module	2.x	v2.6.1c or later (Interop Mode)	v3.0.2q, v3.1.2a or later, (Interop Mode)	v4.1.2e or later (Interop mode)	v4.2.0b or later, (Interop Mode)
Optical Pass-thru Module		v2.6.1c or later (Interop Mode not required)	v3.1.1c or later (Interop Mode not required)	v4.1.2e or later (Interop Mode not required)	v4.2.0b or later, (Interop Mode not required)
Brocade SAN Switch Module	v4.2.1 or later	v2.6.1c or later, (Interop Mode not required)	v3.1.1c or later, (Interop Mode not required)	v4.1.2e or later, (Interop Mode not required)	v4.2.0b or later, (Interop Mode not required)