

IBM® TotalStorage® 3590 Enterprise Tape Drive Supported Servers “Interoperability” Matrix

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IBM TotalStorage 3590 Enterprise Tape Drive

The IBM TotalStorage Enterprise Tape Drive 3590 is supported in the environments shown below. The sales representative and/or customer is responsible for confirming that the specific host system configuration used (i.e. server model, operating system level, host adapter and SAN combination, etc.) is a valid and supported configuration.

Hewlett-Packard Servers
 IBM eServer™ iSeries™ and IBM AS/400®
 IBM eServer pSeries™ and IBM RS/6000®
 IBM eServer zSeries® Linux
 IBM NUMA-Q® Servers
 Intel™ Based Servers
 SUN Servers
 Tru64 Servers

IBM eServer zSeries and S/390® ESCON®/FICON™

Hewlett-Packard Servers

Ultra SCSI B and E and H Models		
Servers	Operating Systems	Host Adapters
HP 9000 Series	HP-UX	HP
HP: T, K, D Class	11.0 10.2 (B and E only)	HP28696A (PB)
HP: A, L, N, V Class or rp2xxx, rp5xxx, rp7xxx, rp8xxx series	11.0, 11i,	HPA4800A (PCI) HPA5159A (PCI)
Notes		
<ul style="list-style-type: none"> For V Class Servers, an Inline SCSI Terminator is required (feature 9798 on the 3590) 		
Fibre Channel E and H Models		
Servers	Operating Systems	Host Adapters/SAN
A, L, N, V Class or rp2xxx, rp5xxx, rp7xxx, rp8xxx series HP: ¹ rx1600, rx1620, rx2600, rx2620, rx4640, rx5670	HP-UX 11.0, 11i, 11i v2 (PCI, 64-bit)	FC HBA Search Tool
Notes		

- Requires 3590 E or H Model with feature 3510 or 9510 Fibre Channel attachment
 - Some restrictions apply. For more details see:
 - [HP/UX 11.0](#)
 - [HP/UX 11i](#)
 - For more details on IBM tape device drivers and drive microcode levels [click here](#)
1. Itanium 2 servers

IBM eServer iSeries and IBM AS/400

Ultra SCSI B and E and H Models		
Servers	Operating Systems	Host Adapters
9406 Advanced Series and E- Series that support the listed host adapters.	OS/400 B Model - V3R2 and later E Model - V4R1 and later H Model - V4R5 and later	FC 6534 FC 2729 FC 2749 FC 6501 (B and E only)
Fibre Channel E and H Models		
Servers	Operating Systems	Host Adapters/SAN
9406 Advanced Series and iSeries that support the listed host adapters.	OS/400 V5R1 and later	FC HBA Search Tool
Notes		
<ul style="list-style-type: none"> • Requires 3590 E and H Model with feature 3510 or 9510 Fibre Channel attachment • For more details on IBM tape device drivers and drive microcode levels click here • More details are also available in the redbook: IBM e(logo)server iSeries in Storage Area Networks: A guide to implementing FC disk and tape with iSeries click here 		

IBM NUMA-Q Servers and IBM eServer xSeries

Ultra SCSI B and E Models		
Servers	Operating Systems	Host Adapters
2000	DYNIX/ptx 4.4.7 4.5.1	10C-0210-54
Notes		
Support requires a 3590 device driver available through the NUMA-Q System Integration Services at a nominal monthly support fee. Orders should go through the local NUMA-Q sales team.		

Fibre Channel E Model		
Servers	Operating Systems	Host Adapters/SAN
X430 NUMA-Q (xSeries) platforms	DYNIX/ptx v4.5.2 DYNIX/ptx v4.6.1 DYNIX/ptx v4.5.3	FC HBA Search Tool
Notes		
<ul style="list-style-type: none"> Requires 3590-ACCE-00 device accessory kit which includes the device driver and documentation. 3590 support is limited to a single port connection. The device driver comes with the base OS CD These options are only supported by the 3590 E Model with the feature 3510 or 9510 Fibre Channel attachment For more details on IBM tape device drivers and drive microcode levels click here 		

Tru64

Fibre Channel E and H Models		
Servers	Operating Systems	Host Adapters/SAN
Compaq Alpha Servers that supports adapter listed under "Host Adapters"	Tru64 UNIX Version 5.1A (Revision 1885)	FC HBA Search Tool Some restrictions apply. For more details, click here .
Notes		
<ul style="list-style-type: none"> Requires 3590 E or H Model with feature 3510 or 9510 Fibre Channel attachment The 3590 drive is supported in the base Tru64 Operating System Level listed above. When the 3590 drive is used in a 3494 library, an IBM 3494 device driver is required. For more details on IBM tape device drivers and drive microcode levels click here 		

SUN Servers

Ultra SCSI B and E and H Models		
Servers	Operating Systems	Host Adapters
SUN SPARC, UltraSPARC, and Ultra/Enterprise Servers	Solaris 2.6, 7, 8 and 9	SUN X1062A, X1065A, X6541A ⁽¹⁾ , X4422A

Notes		
(1) SUN Adapter X 6541 requires a VHDC1 interposer/cable; feature code 9799 on the 3590		
Fibre Channel E and H Models		
Servers	Operating Systems	Host Adapters/SAN
SUN SPARC, UltraSPARC, and Ultra/Enterprise Servers	Solaris 2.6, 7, 8 and 9	FC HBA Search Tool
Notes		
<ul style="list-style-type: none"> Requires 3590 E or H Model with feature 3510 or 9510 Fibre Channel attachment For more details on IBM tape device drivers and drive microcode levels click here 		

IBM eServer pSeries and IBM RS/6000

Ultra SCSI B and E and H Models		
Servers	Operating Systems	Host Adapters
IBM AIX Servers	AIX 5L Version 5.1 and 5.2 for POWER-based servers	IBM FC 6204 FC 6207 FC 6209 FC 2412 (B and E only)
pLinux Servers	SuSE Linux Enterprise Server 8 Red Hat Enterprise Linux 4.0	IBM FC 5710, FC 5712, FC 6204, FC 6207, FC 6209, FC 2412 (B and E only)
Fibre Channel E and H Models		
Servers	Operating Systems	Host Adapters/SAN
IBM AIX Servers	AIX 5L Version 5.1 and 5.2 for POWER-based servers	FC HBA Search Tool
pLinux Servers	SuSE Linux Enterprise Server 8, 9 Red Hat Enterprise Linux 3.0, 4.0	FC HBA Search Tool
Notes		
<ul style="list-style-type: none"> Requires 3590 E or H Model with feature 3510 or 9510 Fibre Channel attachment For more details on IBM tape device drivers and drive microcode levels click here 		
AIX High Availability SAN Failover and Dynamic Load Balancing		
AIX High Availability Data Path Failover is designed to provide a failover mechanism in the AIX Atape		

device driver, that enables you to configure multiple redundant paths in a SAN environment with the 3590. In the event of a path or component failure, the failover mechanism is designed to automatically provide error recovery to retry the current operation using an alternate, pre-configured path without aborting the current job in progress. This allows you flexibility in SAN configuration, availability and management.

A function in the AIX Atape device driver, Dynamic Load Balancing, is also available for the 3590 Tape Drives used in an AIX SAN environment. The dynamic load balancing support is designed to optimize resources for devices that have physical connection to multiple Host Bus Adapters (HBA) in the same machine. When an application opens a device that has multiple HBA paths configured, the device driver determines which path has the HBA with the lowest usage, and assigns that path to the application. The device driver is designed to dynamically track the usage on each HBA as applications open and close devices, and balance the number of applications using each HBA in the machine. This may help optimize HBA resources and improves overall performance. For more information, please refer to the [IBM TotalStorage Tape Device Drivers Installation and User's Guide](#).

Intel Based Servers

Ultra SCSI B and E and H Models		
Servers	Operating Systems	Host Adapters
Linux Based Servers	Red Hat Enterprise Linux 3.0 details Red Hat Enterprise Linux 2.1 details SuSE Linux Enterprise Server 8 details	HVD: Adaptec AHA 2944, LVD: Adaptec 2940, 29160, 39160, 39320 ¹ , 29320ALP ¹ , IBM #13N2249 ¹
Microsoft Windows Servers	Windows Server 2003 Build 3790 or later Windows 2000 Server Build 2195 or later Windows NT™ Server Service Pack 6A or later	Adaptec AHA 2944 UW
Fibre Channel E and H Models		
Servers	Operating Systems	Host Adapters/SAN
Linux Based Servers	Red Hat Enterprise Linux 3.0, 4.0 details Red Hat Enterprise Linux 2.1 details SuSE Linux Enterprise Server 8, 9 details	FC HBA Search Tool

Microsoft Windows Servers	<p>Windows Server 2003 Build 3790 or later</p> <p>Windows 2000 Server Build 2195 or later</p> <p>Windows NT™ Server Service Pack 6A or later</p>	FC HBA Search Tool
Notes		
<ul style="list-style-type: none"> Requires 3590 E or H Model with feature 3510 or 9510 Fibre Channel attachment For more details on IBM tape device drivers and drive microcode levels click here <p>1. Linux Intel – 64 bit</p>		

IBM eServer zSeries with FCP Channels

Fibre Channel E and H Models		
Servers	Operating Systems	Host Adapters/SAN
zSeries Models 800 and 900	SuSE Linux Enterprise Server 8, 9 for IBM zSeries 31-bit and 64-bit Servers	FC HBA Search Tool
Notes		
<ul style="list-style-type: none"> Requires FCP firmware on FICON Channels For more zSeries specific requirements and supported switches, please see: http://www.ibm.com/servers/eserver/zseries/connectivity/index.html <p>For more details on IBM tape device drivers and drive microcode levels click here</p>		

IBM eServer zSeries and S/390 ESCON and FICON Channels

3592-J70 or 3590-A60 Control Unit Attachment		
Operating System	Minimum Levels ¹	Comments
OS/390®	Version 2 Release 10 and DFSMS®	PTFs are required for 3590 H support. PTFs are required for FICON support.

z/OS®	Version 1 Release 1 and subsequent releases and DFSMS	PTFs are required for 3590 H support. APAR OW47844 is recommended for FICON support.
z/VM®	Version 3 Release 1 and DFSMS/VM® FL221	PTFs are required for 3590 H support. ² In addition, VM62710 is required for FICON attachment.
	z/VM Version 4 Release 3 and subsequent releases and DFSMS/VM FL221.	PTFs are required for 3590 H support. ²
VSE/ESA™	Version 2 Release 6 and subsequent releases	Standalone drive support only.
TPF	Version 4 Release 1 and subsequent releases. Requires 3590-support PTFs.	3590 Model A60 with 3590 B Model Drives only.

Notes

- Support is for IBM TotalStorage Enterprise Tape Drive 3590 with the IBM TotalStorage Enterprise Tape Controller 3592 Model J70 or 3590 Model A60 attached to IBM eServer zSeries or S/390® Servers with ESCON or FICON channels. Support is for 3590 B, E or H models with the 3592 J70 or 3590 A60 unless otherwise noted.
- ¹ PTFs may be required. Refer to 3590 and specific processor PSP buckets for details.
- ² PTFs for APAR VM63073 are required for the CMS component of VM levels 310. PTFs for APAR VM63074 are required for the CP component of VM levels 310. PTFs for APAR VM63097 are required for DFSMS/VM FL221.

Related Links:

Additional Product Information is available: [3590 Tape Subsystem Publications](#)

For Supported Host Bus Adapters, please see the [HBA Search Tool](#)

For information on IBM tape device drivers and drive microcode levels, please see the [Attachment Matrix](#)

For more information on 3590 data storage media link to [IBM Storage Media](#)

The 3590 is supported by a variety of applications from Independent Software Vendors. For more information, link to the [Independent Software Vendor Matrices](#) for the 3590.

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