

IBM TotalStorage™ FAStT Interoperability Matrix

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FASTT900 Supported OSs

	IBM xSeries	IBM pSeries	Compaq Proliant	Dell PowerEdge	HP NetServer	HP PA-RISC	Sun Fire	Sun Enterprise
Windows NT 4.0 ¹	1		1	1	1			
Windows 2000 Server ²	✓		✓	✓	✓			
Windows 2000 Adv. Server ²	✓		✓	✓	✓			
Novell NetWare 6.0	✓		✓	✓	✓			
Red Hat Linux Adv. Server 2.1 ³	✓		✓	✓	✓			
VMWare ESX 1.5.1	✓		✓	✓	✓			
SuSE Linux Enterprise Server 7, 8 ⁴	✓		✓	✓	✓			
AIX 4.3.3, 5.1, 5.2		✓						
HP UX 11, 11i						✓		
Solaris 2.6, 7, 8							✓	✓

1. [Microsoft Windows NT v4 with Service Pack 6a – support available 2Q 2003](#)

2. Microsoft Windows 2000 Server & Advanced Server with Service Pack 3

3. Red Hat Adv. Server 2.1 with Kernel 2.4.9-e.10

4. SLES 8 with kernel 2.4.19-64gb and 2.4.19-4gb

Notes:

- Please refer to the AIX README files for additional configuration details and limitations
 - Support based on Minimum Server Requirements:
 - Intel Platforms: Pentium II 450MHz Processor, 512MB memory
 - Sun: 480MHz Sun SPARC Processor, 1GB memory
- HP PA-RISC: 440 MHz Processor, 1GB memory

FASTT900 Supported HBAs

	IBM xSeries	IBM pSeries	Compaq ProLiant	Dell PowerEdge	HP NetServer	HP PA-RISC	Sun Fire	Sun Enterprise
IBM FC - 00N6881/FC2102	✓		✓	✓	✓			
IBM FC2/66-19K1246/FC2103	✓		✓	✓	✓			
IBM FC2/133-24P0960/FC2104	✓		✓	✓	✓			
IBM FC 6227		✓						
IBM FC 6228		✓						
Compaq 64bit/66MHz			✓					
HP D8602B					✓			
HP A3740						✓		
HP A3591B						✓		
HP A6795A						✓		
HP A5158A						✓		
JNI FC64-1063-N							✓	✓
JNI FCE-1063							✓	✓
JNI FCE2-1063							✓	✓
JNI FCE-1473							✓	✓
JNI FCI-1063-N							✓	✓
JNI FCE-6410							✓	✓
JNI FCE-6460							✓	✓
JNI FCE2-6412							✓	✓
Qlogic QLA2200F - IBM 00N6881/FC2102 ¹	✓		✓	✓	✓			
Qlogic QLA2310 - IBM 19L1246/FC2130 ¹	✓		✓	✓	✓			
Qlogic QLA2340 - IBM 24P0960/FC2104 ²	✓		✓	✓	✓			
Qlogic QLA2342 ²	✓		✓	✓	✓			
Qlogic QLA2300F ²	✓		✓	✓	✓			

1. Qlogic adapters are only supported if used in conjunction with IBM FASTT BIOS and Device Driver plus the QLA2202F is only supported in the IBM NAS 300G.
2. Qlogic adapters are only supported if used in conjunction with IBM FASTT FC-2 BIOS and Device Driver.

Note:

1GB HBA will continue to operate at 1GB when attached to a 2GB devices.

When attaching 1Gb HBAs directly to a 2Gb FASTT controller the ports on the FASTT controller must be manually set to 1Gb to allow the HBA to see the FASTT controller.

FASTT700 Supported OSs

	IBM xSeries	IBM pSeries	Compaq Proliant	Dell PowerEdge	HP NetServer	HP PA-RISC	Sun Fire	Sun Enterprise
Windows NT 4.0 ¹	✓		✓	✓	✓			
Windows 2000 Server ²	✓		✓	✓	✓			
Windows 2000 Adv. Server ²	✓		✓	✓	✓			
Novell NetWare 5.1, 6.0	✓		✓	✓	✓			
Red Hat Linux 7.1, 7.2 ³ , 7.3 ⁴	✓		✓	✓	✓			
Red Hat Linux Adv. Server 2.1 ⁵	✓		✓	✓	✓			
SuSE Linux 7.3	✓		✓	✓	✓			
Turbo Linux 7.0	✓		✓	✓	✓			
SuSE Linux Enterprise Server 7, 8 ⁶	✓		✓	✓	✓			
AIX 4.3.3, 5.1, 5.2		✓						
HP UX 11, 11i						✓		
Solaris 2.6, 7, 8							✓	✓

1. Microsoft Windows NT v4 with Service Pack 6a
2. Microsoft Windows 2000 Server & Advanced Server with Service Pack 3
3. Red Hat Linux 7.2 with kernel 2.4.9-34
4. Red Hat Linux 7.3 with kernel 2.4.18-10
5. Red Hat Adv. Server 2.1 with Kernel 2.4.9-e.10
6. SLES with kernel 2.4.19-64gb and 2.4.19-4gb

Notes:

- Please refer to the AIX README files for additional configuration details and limitations
- Support based on Minimum Server Requirements:
 - Intel Platforms: Pentium II 450MHz Processor, 512MB memory
 - Sun: 480MHz Sun SPARC Processor, 1GB memory
 - HP PA-RISC: 440 MHz Processor, 1GB memory

FASTT700 Supported HBAs

	IBM xSeries	IBM pSeries	Compaq ProLiant	Dell PowerEdge	HP NetServer	HP PA-RISC	Sun Fire	Sun Enterprise
IBM FC - 00N6881/FC2102	✓		✓	✓	✓			
IBM FC2/66-19K1246/FC2103	✓		✓	✓	✓			
IBM FC2/133-24P0960/FC2104	✓		✓	✓	✓			
IBM FC 6227		✓						
IBM FC 6228		✓						
Compaq 64bit/66MHz			✓					
HP D8602B					✓			
HP A3740						✓		
HP A3591B						✓		
HP A6795A						✓		
HP A5158A						✓		
JNI FC64-1063-N							✓	✓
JNI FCE-1063							✓	✓
JNI FCE2-1063							✓	✓
JNI FCE-1473							✓	✓
JNI FCI-1063-N							✓	✓
JNI FCE-6410							✓	✓
JNI FCE-6460							✓	✓
JNI FCE2-6412							✓	✓
Qlogic QLA2200F – IBM 00N6881/FC2102 ¹	✓		✓	✓	✓			
Qlogic QLA2310 – IBM 19L1246/FC2130 ¹	✓		✓	✓	✓			
Qlogic QLA2340 – IBM 24P0960/FC2104 ²	✓		✓	✓	✓			
Qlogic QLA2342 ²	✓		✓	✓	✓			
Qlogic QLA2300F ²	✓		✓	✓	✓			

1. Qlogic adapters are only supported if used in conjunction with IBM FASTT BIOS and Device Driver plus the QLA2202F is only supported in the IBM NAS 300G.
2. Qlogic adapters are only supported if used in conjunction with IBM FASTT FC-2 BIOS and Device Driver.

Note:

1GB HBA will continue to operate at 1GB when attached to a 2GB devices. When attaching 1Gb HBAs directly to a 2Gb FASTT controller the ports on the FASTT controller must be manually set to 1Gb to allow the HBA to see the FASTT controller

FASTT500 Supported OSs

	IBM xSeries	IBM pSeries	Compaq Proliant	Dell PowerEdge	HP NetServer	HP PA-RISC	Sun Fire	Sun Enterprise
Windows NT 4.0 ¹	✓		✓	✓	✓			
Windows 2000 Server ²	✓		✓	✓	✓			
Windows 2000 Adv. Server ²	✓		✓	✓	✓			
NetWare 5.1, 6.0	✓		✓	✓	✓			
Red Hat Linux 7.1, 7.2 ³ , 7.3 ^{4,5}	✓		✓	✓	✓			
Red Hat Linux Adv. Server 2.1 ^{5,6}	✓		✓	✓	✓			
SuSE Linux 7.3	✓		✓	✓	✓			
Turbo Linux 7.0	✓		✓	✓	✓			
AIX 4.3.3, 5.1, 5.2		✓						
HP UX 11, 11i						✓		
Solaris 2.6, 7, 8							✓	✓
SuSE Linux Enterprise Server 7, 8 ^{5,7}	✓		✓	✓	✓			

1. Windows NT v4 with Service Pack 6a
2. Windows 2000 Server & Advanced Server with Service Pack 3
3. Red Hat Linux 7.2 with kernel 2.4.9-34
4. Red Hat Linux 7.3 with kernel 2.4.18-10
5. Red Hat Linux v7.3, Advanced Server and SLES are only supported on FASTT Storage Manager v8.21 or later
6. Red Hat Linux Adv. Server 2.1 with kernel 2.4.18.10
7. SLES 8 with kernel 2.4.19-64gb and 2.4.19-4gb

Notes:

- Please refer to the AIX README files for additional configuration details and limitations.
- Support based on Minimum Server Requirements:
 - Intel Platforms: Pentium II 450MHz Processor, 512MB memory
 - Sun: 480MHz Sun SPARC Processor, 1GB memory
 - HP PA-RISC: 440 MHz Processor, 1GB memory

FASTT500 Supported HBAs

	IBM xSeries	IBM pSeries	Compaq Proliant	Dell PowerEdge	HP NetServer	HP PA-RISC	Sun Fire	Sun Enterprise
IBM FC - 00N6881/FC2102	✓		✓	✓	✓			
IBM FC2/66-19K1246/FC2103	✓		✓	✓	✓			
IBM FC2/133-24P0960/FC2104	✓		✓	✓	✓			
IBM FC 6227		✓						
IBM FC 6228		✓						
Compaq 64bit/66MHz			✓					
HP D8602B					✓			
HP A3740						✓		
HP A3591B						✓		
HP A6795A						✓		
HP A5158A						✓		
JNI FC64-1063-N							✓	✓
JNI FCE-1063							✓	✓
JNI FCE2-1063							✓	✓
JNI FCE-1473							✓	✓
JNI FCI-1063-N							✓	✓
JNI FCE-6410							✓	✓
JNI FCE-6460							✓	✓
JNI FCE2-6412							✓	✓
Qlogic QLA2200F - IBM 00N6881/FC2102 ¹	✓		✓	✓	✓			
Qlogic QLA2310 - IBM 19L1246/FC2130 ¹	✓		✓	✓	✓			
Qlogic QLA2340 - IBM 24P0960/FC2104 ²	✓		✓	✓	✓			
Qlogic QLA2342 ²	✓		✓	✓	✓			
Qlogic QLA2300F ²	✓		✓	✓	✓			

1. Qlogic adapters are only supported if used in conjunction with IBM FASTT BIOS and Device Driver plus the QLA2202F is only supported in the IBM NAS 300G.
2. Qlogic adapters are only supported if used in conjunction with IBM FASTT FC-2 BIOS and Device Driver.

Note:

1GB HBA will continue to operate at 1GB when attached to a 2GB devices. When attaching 1Gb HBAs directly to a 2Gb FASTT controller the ports on the FASTT controller must be manually set to 1Gb to allow the HBA to see the FASTT controller

FASTT200 Supported OSs

	IBM xSeries	IBM pSeries	IBM Numa	Compaq Proliant	Dell PowerEdge	HP NetServer	HP PA-RISC	Sun Fire	Sun Enterprise
Windows NT 4.0 ¹	✓			✓	✓	✓			
Windows 2000 Server ²	✓			✓	✓	✓			
Windows 2000 Adv. Server ²	✓			✓	✓	✓			
NetWare 5.1, 6.0	✓			✓	✓	✓			
Red Hat Linux 7.1, 7.2 ³ , 7.3 ^{4,5}	✓			✓	✓	✓			
Red Hat Linux Adv. Server 2.1 ^{5,6}	✓			✓	✓	✓			
SuSE Linux 7.3 ⁴	✓			✓	✓	✓			
SuSE Linux Enterprise Server 7, 8 ^{5,7}	✓			✓	✓	✓			
Turbo Linux 7.0	✓			✓	✓	✓			
Dynix 4.4.10, 4.5.3, 4.6.1			✓						
AIX 4.3.3, 5.1, 5.2		✓							
HP UX 11, 11i							✓		
Solaris 2.6, 7, 8								✓	✓

1. Windows NT v4 with Service Pack 6a
2. Windows 2000 Server & Advanced Server with Service Pack 2
3. Red Hat Linux 7.2 with kernel 2.4.9-34
4. Red Hat Linux 7.3 with kernel 2.4.18-10
5. Red Hat Linux v7.3, Advanced Server and SLES are only supported on FASTT Storage Manager v8.21 or later
6. Red Hat Linux Adv. Server 2.1 with kernel 2.4.9-e.3
7. SLES 8 with kernel 2.4.19-64gb and 2.4.19-4gb

Notes:

- Please refer to the AIX README files for additional configuration details and limitations.
- Support based on Minimum Server Requirements:
 - Intel Platforms: Pentium II 450MHz Processor, 512MB memory
 - Sun: 480MHz Sun SPARC Processor, 1GB memory
 - HP PA-RISC: 440 MHz Processor, 1GB memory

FASTT200 Supported HBAs

	IBM xSeries	IBM pSeries	IBM Numa	Compaq Proliant	Dell PowerEdge	HP NetServer	HP PA-RISC	Sun Fire	Sun Enterprise
IBM FC - 00N6881/FC2102	✓			✓	✓	✓			
IBM FC2/66-19K1246/FC2103	✓			✓	✓	✓			
IBM FC2/133-24P0960/FC2104	✓			✓	✓	✓			
IBM FC 6227		✓							
IBM FC 6228		✓							
Compaq 64bit/66MHz				✓					
HP D8602B									
HP A3740							✓		
HP A3591B									
HP A5158A							✓		
IOC-0210-54			✓						
JNI FC64-1063-N								✓	✓
JNI FCE-1063								✓	✓
JNI FCE2-1063								✓	✓
JNI FCE-1473								✓	✓
JNI FCI-1063-N								✓	✓
JNI FCE-1064								✓	✓
JNI FCE-6460								✓	✓
JNI FCE2-6412								✓	✓
Qlogic QLA2200F – IBM 00N6881/FC2102 ¹	✓			✓	✓	✓			
Qlogic QLA2310 – IBM 19L1246/FC2130 ¹	✓			✓	✓	✓			
Qlogic QLA2340 – IBM 24P0960/FC2104 ²	✓			✓	✓	✓			
Qlogic QLA2342 ²	✓			✓	✓	✓			
Qlogic QLA2300F ²	✓			✓	✓	✓			

1. Qlogic adapters are only supported if used in conjunction with IBM FASTT BIOS and Device Driver plus the QLA2202F is only supported in the IBM NAS 300G.
2. Qlogic adapters are only supported if used in conjunction with IBM FASTT FC-2 BIOS and Device Driver.

Note:

- 1GB HBA will continue to operate at 1GB when attached to a 2GB devices. When attaching 1Gb HBAs directly to a 2Gb FASTT controller the ports on the FASTT controller must be manually set to 1Gb to allow the HBA to see the FASTT controller.

Supported HBAs by OS

	Windows NT 4.0	Windows 2000	NetWare 5.1, 6.0	Red Hat Linux 7.1, 2, 3 and AS	SuSE Linux 7.3, SLES	Turbo Linux 7.0	Dynix 4.4.10, 4.5.3, 4.6.1	AIX 4.3.3, 5.1, 5.2	HP-UX 11, 11i	Solaris 2.6,7,8
IBM FASTT	✓	✓	✓	✓	✓	✓				
IBM FASTT FC-2	✓	✓	✓	✓	✓	✓				
IBM FASTT FC2-133	✓	✓	✓	✓	✓	✓				
IBM FC 6227								✓		
IBM FC 6228								✓		
Compaq 64bit/66MHz		✓	✓							
HP D8602B		✓	✓							
HP A3740									✓	
HP A3591B									✓	
HP A5158A									✓	
IOC-0210-54							✓			
JNI FC64-1063-N										✓
JNI FCE-1063										✓
JNI FCE2-1063										✓
JNI FCE-1473										✓
JNI FCI-1063-N										✓
JNI FCE-1064										✓
JNI FCE-6460										✓
JNI FCE2-6412										✓
Qlogic QLA2200F - IBM 00N6881/FC2102 ¹	✓	✓	✓	✓	✓	✓				
Qlogic QLA2310 - IBM 19L1246/FC2130 ¹	✓	✓	✓	✓	✓	✓				
Qlogic QLA2340 - IBM 24P0960/FC2104 ²	✓	✓	✓	✓	✓	✓				
Qlogic QLA2342 ²	✓	✓	✓	✓	✓	✓				
Qlogic QLA2300F	✓	✓	✓	✓	✓	✓				

Supported SAN Fabric

	FAStT 200	FAStT 500	FAStT 700	FAStT900
IBM TotalStorage Switch				
IBM 3534-F08	✓	✓	✓	✓
IBM 2109-S08	✓	✓	✓	✓
IBM 2109-S16	✓	✓	✓	✓
IBM 2109-F16	✓	✓	✓	✓
IBM 2109-F32	✓	✓	✓	✓
IBM 2109-M12	✓	✓	✓	✓
McDATA Switch				
2031-016	✓	✓	✓	✓
2031-032	✓	✓	✓	✓
2031-216	✓	✓	✓	✓
2031-232	✓	✓	✓	✓
2031-224	✓	✓	✓	✓
2032-064	✓	✓	✓	✓
2032-140	✓	✓	✓	✓
INRANGE Switch				
2042-001	✓	✓	✓	✓
2042-128	✓	✓	✓	✓
2042-256	✓	✓	✓	✓
FC Managed Hub				
IBM 3534-1RU	✓	✓	✓	

Clustering Support

	FAStT 200	FAStT 500	FAStT 700	FAStT900
Microsoft Cluster Services	✓	✓	✓	✓
Novell Cluster Services	✓	✓	✓	✓
IBM HACMP ^{1,3}	✓ ³	✓	✓	2Q 03
PSSP, GPFS/RVSD Support ²		✓	✓	✓ ²
HP MC/Service Guard	✓	✓	✓	✓
Solaris 8 with Veritas Cluster Server 1.3 and 2.0	✓	✓	✓	✓
Veritas Volume Manager 3.1,3.2 (using RDAC or DMP for multi-pathing AIX only)	✓	✓	✓	✓
GPFS for Linux ³	✓ ³	✓	✓	✓

1. For the most current supported HACMP configurations see the HACMP config file posted on:

<http://ssddom02.storage.ibm.com/techsup/webnav.nsf/support/fastt200downloads>

<http://ssddom02.storage.ibm.com/techsup/webnav.nsf/support/fastt500downloads>

<http://ssddom02.storage.ibm.com/techsup/webnav.nsf/support/fastt700downloads>

2. For the most current supported PSSP, GPFS/RVSD configurations see the PSSP-GPFS config file posted on:

<http://ssddom02.storage.ibm.com/techsup/webnav.nsf/support/fastt700downloads> and

<http://ssddom02.storage.ibm.com/techsup/webnav.nsf/support/fastt500downloads>

3. Supported only with the FAStT200HA

Note:

- GPFS Linux supported on selected xSeries servers running RH 7.2, 7.3 or SuSE Linux Enterprise Server 7 or 8. Refer to the IBM Linux and eServer Cluster support pages.
 - <http://ibm.com/servers/eserver/clusters>
 - <http://ibm.com/linux>

FASTT Storage Manager and Flash Copy Supported Features

	Windows NT 4.0	Windows 2000	NetWare 5.1, 6.0	¹ Red Hat 7.1, 2, 3 and AS	SLES 7, 8	SuSE Linux 7.3	Turbo Linux 7.0	Dynix 4.4.10, 4.5.3, 4.6.1	AIX 4.3.3, 5.1, 5.2 ²	HP-UX 11, 11i	Solaris 2.6, 7, 8
FASTT200											
Storage Manager 7.10	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓
Storage Manager 8.0	✓	✓	✓	✓		✓	✓				
Storage Manager 8.2	✓	✓	✓	✓		✓	✓				
Storage Manager 8.21	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓
Storage Manager 8.3	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓
FlashCopy ³	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓
FASTT500											
Storage Manager 7.10	✓	✓	✓	✓		✓	✓		✓	✓	✓
Storage Manager 8.0	✓	✓	✓	✓		✓	✓				
Storage Manager 8.2	✓	✓	✓	✓		✓	✓				
Storage Manager 8.21	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓
Storage Manager 8.3	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓
FlashCopy ³	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓
Remote Mirroring ⁴	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓
FASTT700											
Storage Manager 8.0	✓	✓	✓	✓		✓	✓				
Storage Manager 8.2	✓	✓	✓	✓		✓	✓				
Storage Manager 8.21	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓
Storage Manager 8.3	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓
FlashCopy ³	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓
Remote Mirroring ⁴	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓
FASTT900											
Storage Manager 8.0											
Storage Manager 8.2											
Storage Manager 8.21											
Storage Manager 8.3	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓
FlashCopy ³	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓
Remote Mirroring ⁴	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓

IBM TotalStorage™ FAStT Interoperability Matrix

Notes:

1. Red Hat Linux v7.1, 7.2 and 7.3 are only supported on FAStT Storage Manager v8.21
2. AIX5.2 is supported on FAStT Storage Manager 8.21 and 8.3 only
3. FlashCopy for AIX with FAStT Storage Manager 8.21 supports FAStT200, FAStT500 and FAStT700 only. Storage Manager 8.3 supports all FAStT Controllers.
4. Remote Mirror Option for AIX, Solaris and HP-UX is supported on FAStT Storage Manager 8.3 only.

FASTT Storage Manager 8.21/8.3 (FASTT900) Support Matrix

	FASTT 200	FASTT500	FASTT700	FASTT900	Heterogeneous Support	Dynamic Function
AIX 4.3.3 ,5.1,5.2	✓	✓	✓	✓	✓	2
SUN Solaris 2.6, 7 and 8	✓	✓	✓	✓	✓	1
HP-UX 11, 11i	✓	✓	✓	✓	✓	1
Windows NT 4.0	✓	✓	✓	✓	✓	1
Windows 2000	✓	✓	✓	✓	✓	1
Windows 2000 Adv. Server	✓	✓	✓	✓	✓	1
NetWare 5.1, 6.0	✓	✓	✓	✓ ³	✓	1
Red Hat Linux Advanced Server 2.1	✓	✓	✓	✓	✓	1
Red Hat Linux 7.1, 7.2, 7.3,	✓	✓	✓		✓	1
SuSE Linux 7.3, 8.0, SLES 7, 8 ³	✓	✓	✓	✓ ⁴		1
Turbo Linux 7.0		✓	✓			1
IBM Dynix 4.4.10, 4.5.3, 4.6.1	✓					1

1. Support for:

- DSS – Dynamic Segment Sizing
- DRM – Dynamic RAID Migration
- DCE – Dynamic Capacity Expansion
- DVE – Dynamic Volume Expansion

2. DCE, DSS and DRM support planned for 1Q 2003. DVE support planned for 2H 2nd half 2003.

3. FASTT900 Supports Netware 6.0 only on SM8.3.

4. FASTT900 supports SLES 7 and 8 only on SM8.3.

Minimum Server Hardware Requirements

	Processor	Memory
Intel Based	Pentium II 450MHz	512MB
SUN	480MHz SPARC	1GB
HP PA-RISC	440 MHz	1GB
IBM pSeries	All pSeries servers, RS/6000, RS/6000 SP	

Note:

- Refer to the IBM Server Proven web site for the latest compatibility information
<http://www.pc.ibm.com/us/compat/storage/fcmatrix.html>