

Interoperation Matrix Input Worksheet

Product Information

Product Type: IBM System Storage Virtualization Engine for Tape
Product Model/Name: TS7650G
Product Version: TS7650G R1
Connectivity Protocol: Fiber Channel
Code Level: R1
Drive Code Level (for Tape only):
Host Platform: SUN

Action:

Group Relationships

OS Group	Note	HBA Group	Note	SAN Group
Solaris8		Solaris8		SAN Switches
Solaris9		Solaris9		SAN Switches
Solaris10		Solaris10		SAN Switches

Group Definitions

Operating System Group Definitions

OS Group Name	Vendor	OS Name	Kernel	Note
Solaris8	SUN	Solaris8		
Solaris9	SUN	Solaris9		
Solaris10	SUN	Solaris10		

HBA Group Definitions

HBA Group Name	Vendor	HBA Name	Driver level	Driver firmware
Solaris8	Emulex	LP9002L	5.02c	3.90a7
	Emulex	LP9002C	5.02c	3.90a7
	Emulex	LP9002S	5.02c	3.90a7
	Emulex	LP9002C	6.01c	3.92a2
	Emulex	LP9002L	6.01c	3.92a2
	Emulex	LP9002S	6.01c	3.92a2
	Emulex	LP9002S	6.01f	
	Emulex	LP9002L	6.01f	
	Emulex	LP9002C	6.01f	
	Emulex	LP9002L	4.21e	3.91a3
	Emulex	LP9002C	4.21e	3.91a3
	Emulex	LP9002S	4.21e	3.91a3
	Emulex	LP9402DC	5.02x	3.91a3
	Emulex	LP10000	6.01c	6.01c
	Emulex	LP10000	4.08	3.02.14
	Emulex	LP10000	4.13	3.02.15
	Qlogic	QLA2310	3.14	
	Qlogic	QLA2340	3.14	
	Qlogic	QLA2342	3.14	
	Qlogic	QLA2310	5.03	
	Qlogic	QLA2340	5.03	
	Qlogic	QLA2342	5.03	
	Qlogic	QLA2460	5.03	
	Qlogic	QLA2462	5.03	
	Qlogic	QLE2460	5.03	
	Qlogic	QLE2462	5.03	

Solaris9

Emulex	LP9002L	5.01e-1	3.82a1
Emulex	LP9002C	5.01e-1	3.82a1
Emulex	LP9002S	5.01e-1	3.82a1
Emulex	LP9002L	5.01e-1	3.90a7
Emulex	LP9002C	5.01e-1	3.90a7
Emulex	LP9002S	5.01e-1	3.90a7
Emulex	LP9002L	5.01e-1	3.91a3
Emulex	LP9002C	5.01e-1	3.91a3
Emulex	LP9002S	5.01e-1	3.91a3
Emulex	LP9002L	5.01e-1	3.92a2
Emulex	LP9002C	5.01e-1	3.92a2
Emulex	LP9002S	5.01e-1	3.92a2
Emulex	LP9002L	5.01e-1	3.93a0
Emulex	LP9002S	5.01e-1	3.93a0
Emulex	LP9002C	5.01e-1	3.93a0
Emulex	LP9002L	5.02c	3.82a1
Emulex	LP9002C	5.02c	3.82a1
Emulex	LP9002S	5.02c	3.82a1
Emulex	LP9002L	5.02c	3.90a7
Emulex	LP9002C	5.02c	3.90a7
Emulex	LP9002S	5.02c	3.90a7
Emulex	LP9002L	5.02c	3.91a3
Emulex	LP9002S	5.02c	3.91a3
Emulex	LP9002C	5.02c	3.91a3
Emulex	LP9002L	5.02c	3.92a2
Emulex	LP9002S	5.02c	3.92a2
Emulex	LP9002C	5.02c	3.92a2
Emulex	LP9002L	5.02c	3.93a0
Emulex	LP9002S	5.02c	3.93a0
Emulex	LP9002C	5.02c	3.93a0
Emulex	LP9002L	6.02g	3.82a1
Emulex	LP9002S	6.02g	3.82a1
Emulex	LP9002C	6.02g	3.82a1
Emulex	LP9002L	6.02g	3.90a7
Emulex	LP9002S	6.02g	3.90a7
Emulex	LP9002C	6.02g	3.90a7
Emulex	LP9002L	6.02g	3.91a3
Emulex	LP9002C	6.02g	3.91a3
Emulex	LP9002S	6.02g	3.91a3
Emulex	LP9002L	6.02g	3.92a2
Emulex	LP9002S	6.02g	3.92a2
Emulex	LP9002C	6.02g	3.92a2
Emulex	LP9002L	6.02g	3.93a0
Emulex	LP9002C	6.02g	3.93a0
Emulex	LP9002DC	6.02g	3.93a0
Emulex	LP9800	5.01e-1	1.81a1
Emulex	LP9800	5.01e-1	1.90a4
Emulex	LP9800	6.01	1.81a1
Emulex	LP9802	6.01	1.90a4
Emulex	LP9802	5.01e-1	1.81a1
Emulex	LP9802	5.01e-1	1.90a4
Emulex	LP9802	6.01	1.81a1
Emulex	LP9802	6.01	1.90a4
Emulex	LP10000	5.01e-1	1.81a1
Emulex	LP11000		1.92a1
Emulex	LP11000		2.72a2
Emulex	LP11002		1.92a1
Emulex	LP11002		2.72a2
Emulex	LPe11000		1.92a1
Emulex	LPe11000		2.72a2
Emulex	LPe11002		1.92a1
Emulex	LPe11002		2.72a2

	Qlogic	QLA2310	SFS 4.4.6	1.14.09
	Qlogic	QLA2340	SFS 4.4.6	1.14.09
	Qlogic	QLA2342	SFS 4.4.6	1.14.09
	Qlogic	QLA2310	SFS 4.4.6	3.2.15 IP
	Qlogic	QLA2340	SFS 4.4.6	3.2.15 IP
	Qlogic	QLA2342	SFS 4.4.6	3.2.15 IP
	Qlogic	QLA2310	4.13.01	1.14.09
	Qlogic	QLA2340	4.13.01	1.14.09
	Qlogic	QLA2342	4.13.01	1.14.09
	Qlogic	QLA2310	4.13.01	3.2.15 IP
	Qlogic	QLA2340	4.13.01	3.2.15 IP
	Qlogic	QLA2342	4.13.01	3.2.15 IP
	Qlogic	QLA2460	5.03	
	Qlogic	QLA2462	5.03	
	Qlogic	QLE2460	5.03	
	Qlogic	QLE2462	5.03	
Solaris10	Emulex	LP10000	6.10g	1.91a5
	Emulex	LP10000	11.10	1.91a5
	Emulex	LP10000	6.11c	1.91a5
	Emulex	LP11000	6.10g	2.70a5
	Emulex	LP11002	6.10g	2.70a5
	Emulex	LP11000	6.10g	2.72a2
	Emulex	LP11002	6.10g	2.72a2
	Emulex	LPe11000		2.72a2
	Emulex	LPe11002		2.72a2
	SUN			
	Emulex			
	OEM	SUN SG	Default	Default
	SUN			
	Emulex			
	OEM	XPCI1FC	Default	Default
	SUN			
	Emulex			
	OEM	EM2	Default	Default
	Qlogic	QLA2460	5.03	Default
	Qlogic	QLA2462	5.03	Default
	Qlogic	QLA2460	Default	Default
	Qlogic	QLA2462	Default	Default
	Qlogic	QLE2460	5.03	Default
	Qlogic	QLE2462	5.03	Default
	Qlogic	QLE2460	Default	Default
	Qlogic	QLE2462	Default	Default

SAN Group Definitions					
SAN Group Name	Vendor	SAN Name	SAN Firmware level	Note	
SAN Switches	Brocade	SilkWorm 2400	2.2.1a		
	Brocade	SilkWorm 2800	2.2.1a		
	Brocade	SilkWorm 2400	a2.3.0		
	Brocade	SilkWorm 2800	a2.3.0		
	Brocade	SilkWorm 4100	4.4.0e		
	Brocade	SilkWorm 4100	5.0.3a		
	Brocade	SilkWorm 4100	5.1.0a		
	Brocade	Silkworm 48000	4.4.0e		
	Brocade	Silkworm 48000	5.0.3a		
	Brocade	Silkworm 48000	5.1.0a		
	McData	Sphereon™ 4400	V08.01.01 4		
	McData	Sphereon™ 4700	V08.01.01 4		
	Qlogic	SANbox 5200	v5.0.1.10.0		
	Qlogic	SANbox 5600	v5.0.1.10.0		
		Cisco	MDS 9506 (2062-D04)		
		Cisco	MDS 9513 (2062-E11)		
		Cisco	MDS 9216 (2026-D01)		
		Cisco	MDS 9134 (2053-434)		
		Cisco	MDS 9509 (2062-D07-T07)		
		Cisco	MDS 9140 (2061-040)		
		Cisco	MDS 9124 (2053-424)		
		Cisco	MDS 9120 (2061-020)		
		Cisco	MDS 9222i (2054-E01)		
		Inrange	FC9000	4.3.0.2	

Interoperation Matrix Input Worksheet

Product Information
Product Type:
Product Model/Name:
Product Version:
Connectivity Protocol:
Code Level:
Drive Code Level (for Tape only):
Host Platform:

IBM System Storage Virtualization Engine for Tape
 TS7650G
 TS7650G R1
 Fiber Channel
 R1
 HP

Action: New

Group Relationships

OS Group	Note	HBA Group	Note	SAN Group	Note	Features Group
HP		HP		SAN Switches SAN Switches		TS7650 TS7650

Group Definitions

Operating System Group Definitions

OS Group Name	Vendor	OS Name	Kernel	Note
HP	HP	HP-UX11.iv2		

HBA Group Definitions

HBA Group Name	Vendor	HBA Name	Driver level	Driver firmware	Note
HP	Emulex	LPe11002	2.50a6	LPFC B.05.32.03 Light Pulse Adapter Driver	
	Tachyon	A5158A		Native	
	Tachyon	A6795A		Native	

SAN Group Definitions

SAN Group Name	Vendor	SAN Name	SAN Firmware level	Note	
SAN Switches	Brocade	SilkWorm 2400	2.2.1a		
	Brocade	SilkWorm 2800	2.2.1a		
	Brocade	SilkWorm 2400	a2.3.0		
	Brocade	SilkWorm 2800	a2.3.0		
	Brocade	SilkWorm 4100	4.4.0e		
	Brocade	SilkWorm 4100	5.0.3a		
	Brocade	SilkWorm 4100	5.1.0a		
	Brocade	Silkworm 48000	4.4.0e		
	Brocade	Silkworm 48000	5.0.3a		
	Brocade	Silkworm 48000	5.1.0a		
	McData	Sphereon™ 4400	V08.01.01 4		
	McData	Sphereon™ 4700	V08.01.01 4		
	Qlogic	SANbox 5200	v5.0.1.10.0		
	Qlogic	SANbox 5600	v5.0.1.10.0		
		Cisco	Cisco MDS 9506 (2062-D04)		
		Cisco	Cisco MDS 9513 (2062-E11)		
		Cisco	Cisco MDS 9216 (2026-D01)		
		Cisco	Cisco MDS 9134 (2053-434)		
		Cisco	Cisco MDS 9509 (2062-D07-T07)		
		Cisco	Cisco MDS 9140 (2061-040)		
		Cisco	Cisco MDS 9124 (2053-424)		
		Cisco	Cisco MDS 9120 (2061-020)		
		Cisco	Cisco MDS 9222i (2054-E01)		
		Inrange	FC9000	4.3.0.2	

Features Group Definitions

Features Group Name	Vendor	Features Name	Version	Note
TS7650	DTC	Virtual Tape Library	VTF	
	IBM	Virtual Tape Device	ULTRIUM-TD2	

ATL Virtual Library P3000
QUANTUMVirtual Tape Device DLT7000

Note

Note Text

Interoperation Matrix Input Worksheet

Product Information
Product Type: IBM System Storage Virtualization Engine for Tape
Product Model/Name: TS7650G
Product Version: TS7650G R1
Connectivity Protocol: Fiber Channel
Code Level: R1
Drive Code Level (for Tape only):
Host Platform: IBM System x, Intel, AMD

Action: New

Group Relationships

OS Group	Note	HBA Group	Note	SAN Group	Note	Features Group	Note
Windows 2003		Windows 2003		SAN Switches		TS7650	
Linux RedHat 4		Linux RedHat 4		SAN Switches		TS7650	

Group Definitions

Operating System Group Definitions

OS Group Name	Vendor	OS Name	Kernel	Note
Windows 2003	Windows	Microsoft Windows Server 2003 SP2		
		Microsoft Windows Server 2003 R2		
	Red Hat Enterprise Linux 4.5	Red Hat		

HBA Group Definitions

HBA Group Name	Vendor	HBA Name	Driver level	Driver firmware	Note
Windows 2003	Emulex	LP9002L	5-5.01a0-1	3.82a1	
	Emulex	LP9002S	5-5.01a0-1	3.82a1	
	Emulex	LP9002C	5-5.01a0-1	3.82a1	
	Emulex	LP9002L	5-5.01a0-1	3.90a7	
	Emulex	LP9002S	5-5.01a0-1	3.90a7	
	Emulex	LP9002C	5-5.01a0-1	3.90a7	
	Emulex	LP9002L	5-5.01a0-1	3.91a3	
	Emulex	LP9002S	5-5.01a0-1	3.91a3	
	Emulex	LP9002C	5-5.01a0-1	3.91a3	
	Emulex	LP9002L	5-5.01a0-1	3.92a2	
	Emulex	LP9002S	5-5.01a0-1	3.92a2	
	Emulex	LP9002C	5-5.01a0-1	3.92a2	
	Emulex	LP9002L	5-5.01a0-1	3.93a0	
	Emulex	LP9002S	5-5.01a0-1	3.93a0	
	Emulex	LP9002C	5-5.01a0-1	3.93a0	
	Emulex	LP9002L	5-2.4.a3	3.82a1	
	Emulex	LP9002S	5-2.4.a3	3.82a1	
	Emulex	LP9002C	5-2.4.a3	3.82a1	
	Emulex	LP9002L	5-2.4.a3	3.90a7	
	Emulex	LP9002S	5-2.4.a3	3.90a7	
	Emulex	LP9002C	5-2.4.a3	3.90a7	
	Emulex	LP9002L	5-2.4.a3	3.91a3	
	Emulex	LP9002S	5-2.4.a3	3.91a3	
	Emulex	LP9002C	5-2.4.a3	3.91a3	
	Emulex	LP9002L	5-2.4.a3	3.92a2	
	Emulex	LP9002S	5-2.4.a3	3.92a2	
	Emulex	LP9002C	5-2.4.a3	3.92a2	
	Emulex	LP9002L	5-2.4.a3	3.39a0	
	Emulex	LP9002S	5-2.4.a3	3.39a0	
	Emulex	LP9002C	5-2.4.a3	3.39a0	
	Emulex	LP9002L	5.20a9	3.82a1	
	Emulex	LP9002S	5.20a9	3.82a1	
Emulex	LP9002C	5.20a9	3.82a1		
Emulex	LP9002L	5.20a9	3.90a7		
Emulex	LP9002S	5.20a9	3.90a7		
Emulex	LP9002C	5.20a9	3.90a7		
Emulex	LP9002L	5.20a9	3.91a3		

Emulex	LP9002S	5.20a9	3.91a3
Emulex	LP9002C	5.20a9	3.91a3
Emulex	LP9002L	5.20a9	3.92a2
Emulex	LP9002S	5.20a9	3.92a2
Emulex	LP9002C	5.20a9	3.92a2
Emulex	LP9002L	5.20a9	3.39a0
Emulex	LP9002S	5.20a9	3.39a0
Emulex	LP9002C	5.20a9	3.39a0
Emulex	LP9002L	2.30.a2	3.82a1
Emulex	LP9002S	2.30.a2	3.82a1
Emulex	LP9002C	2.30.a2	3.82a1
Emulex	LP9002L	2.30.a2	3.90a7
Emulex	LP9002S	2.30.a2	3.90a7
Emulex	LP9002C	2.30.a2	3.90a7
Emulex	LP9002L	2.30.a2	3.91a3
Emulex	LP9002S	2.30.a2	3.91a3
Emulex	LP9002C	2.30.a2	3.91a3
Emulex	LP9002L	2.30.a2	3.92a2
Emulex	LP9002S	2.30.a2	3.92a2
Emulex	LP9002C	2.30.a2	3.92a2
Emulex	LP9002L	2.30.a2	3.93a0
Emulex	LP9002S	2.30.a2	3.93a0
Emulex	LP9002C	2.30.a2	3.93a0
Emulex	LP9002DC	2.30.a2	3.93a0
Emulex	LP9800	5.2.23a6	1.90a4
Emulex	LP9802	5.2.23a6	1.90a4
Emulex	LP10000	5.22a8	1.90a4
Emulex	LP10000	5-2.23a6	
Emulex	LP10000	5-2.4.a2	1.91a1
Emulex	LP10000	5-2.4.a3	1.91a1
Emulex	LP10000	5.30a2	1.91a5
Emulex	LP10000	1.30a6	
Emulex	LP10000	2.41a1	
Emulex	LP1050	5.30A2	1.90A4
Emulex	LP11000	5-2.41a1	2.10a10
Emulex	LP11000	1.20.a7	2.70.a5
Emulex	LP11000	2.00a12	2.72a2
Emulex	LPe11000	2.00a12	2.72a2
Emulex	LP11002	5-2.41a1	2.10a10
Emulex	LP11002	1.20.a7	2.70.a5
Emulex	LP11002	2.00a12	2.72a2
Emulex	LPe11002	2.00a12	2.72a2
Qlogic	QLA2310	9.0.2.17	3.0.3.13
Qlogic	QLA2310	9.1.0.16	3.0.3.16
Qlogic	QLA2340	9.0.2.17	3.0.3.13
Qlogic	QLA2340	9.1.0.16	3.0.3.16
Qlogic	QLA2342	9.0.2.17	3.0.3.13
Qlogic	QLA2342	9.1.0.16	3.0.3.16
Qlogic	QLA2460	9.1.4.15	3.03.21
Qlogic	QLA2460	9.1.2.19	4.00.23
Qlogic	QLA2462	9.1.4.15	3.03.21
Qlogic	QLA2462	9.1.2.19	4.00.23
Emulex	LP10000	8.0.16.32	1.46
Qlogic	QLA2462	Default	1.46
Qlogic	QLA 2310	Default	1.46
Qlogic	QLA 2340	Default	1.46
Qlogic	QLA 2342	Default	1.46

Linux RedHat 4

SAN Group Definitions				
SAN Group Name	Vendor	SAN Name	SAN Firmware level	Note
SAN Switches	Brocade	SilkWorm 2400	2.2.1a	
	Brocade	SilkWorm 2800	2.2.1a	
	Brocade	SilkWorm 2400	a2.3.0	
	Brocade	SilkWorm 2800	a2.3.0	
	Brocade	SilkWorm 4100	4.4.0e	
	Brocade	SilkWorm 4100	5.0.3a	
	Brocade	SilkWorm 4100	5.1.0a	
	Brocade	Silkworm 48000	4.4.0e	
	Brocade	Silkworm 48000	5.0.3a	
	Brocade	Silkworm 48000	5.1.0a	
	McData	Sphereon™ 4400	V08.01.01 4	
	McData	Sphereon™ 4700	V08.01.01 4	
	Qlogic	SANbox 5200	v5.0.1.10.0	
	Qlogic	SANbox 5600	v5.0.1.10.0	
	Cisco	Cisco MDS 9506 (2062-D04)		
	Cisco	Cisco MDS 9513 (2062-E11)		
	Cisco	Cisco MDS 9216 (2026-D01)		
	Cisco	Cisco MDS 9134 (2053-434)		
	Cisco	Cisco MDS 9509 (2062-D07-T07)		
	Cisco	Cisco MDS 9140 (2061-040)		
	Cisco	Cisco MDS 9124 (2053-424)		
	Cisco	Cisco MDS 9120 (2061-020)		
	Cisco	Cisco MDS 9222i (2054-E01)		
	Inrange	FC9000	4.3.0.2	

Features Group Definitions				
Features Group Name	Vendor	Features Name	Version	Note
TS7650	DTC	Virtual Tape Library	VTF	
	IBM	Virtual Tape Device	ULTRIUM-TD2	
	ATL	Virtual Library	P3000	
	QUANTUM	Virtual Tape Device	DLT7000	

Note	Note Text

Interoperation Matrix Input Worksheet

Product Information

Product Type: IBM System Storage Virtualization Engine for Tape
 Product Model/Name: TS7650G
 Product Version: TS7650G R1
 Connectivity Protocol: Fiber Channel
 Code Level: R1
 Drive Code Level (for Tape only):
 Host Platform: IBM System p

Action: New

Group Relationships

OS Group	Note	HBA Group	Note	SAN Group	Note	Features Group	Note
AIX5.2		AIX5.2		SAN Switches		TS7650	
AIX5.3		AIX5.3		SAN Switches		TS7650	
AIX6.1		AIX6.1		SAN Switches		TS7650	

Group Definitions

Operating System Group Definitions

OS Group Name	Vendor	OS Name	Kernel	Note
AIX5.2	IBM	IBM AIX5.2		
AIX5.3	IBM	IBM AIX5.3		
AIX6.1	IBM	IBM AIX6.1		

HBA Group Definitions

HBA Group Name	Vendor	HBA Name	Driver level	Driver firmware	Note
AIX5.2	Emulex	IBM6228	Built-in	3.82.a1	
	Emulex	IBM6228	Built-in	3.90a7	
	Emulex	IBM6228	Built-in	3.91a3	
	Emulex	IBM6239	Built-in	1.81a1	
	Emulex	IBM5716	Built-in	1.81a1	
	Emulex	IBM5716	Built-in	1.90a4	
	Emulex	IBM 5758	Built-in	2.10a10	
AIX5.3	Emulex	IBM 5716	Built-in	1.9x13	
	Emulex	IBM 5716	Built-in	1.91a5	
	Emulex	IBM 5716	Built-in	1.90a4	
	Emulex	IBM 5758	Built-in	2.10a10	
AIX6.1	Emulex	IBM5716	Built-in	Built-in	
	Emulex	IBM5759	Built-in	Built-in	
	Emulex	IBM5773	Built-in	Built-in	
	Emulex	IBM5774	Built-in	Built-in	
	Emulex	IBM5758	Built-in	Built-in	

SAN Group Definitions

SAN Group Name	Vendor	SAN Name	SAN Firmware level	Note
SAN Switches	Brocade	SilkWorm 2400	2.2.1a	
	Brocade	SilkWorm 2800	2.2.1a	
	Brocade	SilkWorm 2400	a2.3.0	
	Brocade	SilkWorm 2800	a2.3.0	
	Brocade	SilkWorm 4100	4.4.0e	
	Brocade	SilkWorm 4100	5.0.3a	
	Brocade	SilkWorm 4100	5.1.0a	
	Brocade	Silkworm 48000	4.4.0e	
	Brocade	Silkworm 48000	5.0.3a	
	Brocade	Silkworm 48000	5.1.0a	
	McData	Sphereon™ 4400	V08.01.01 4	
	McData	Sphereon™ 4700	V08.01.01 4	
	Qlogic	SANbox 5200	v5.0.1.10.0	
	Qlogic	SANbox 5600	v5.0.1.10.0	
	Cisco	Cisco MDS 9506 (2062-D04)		
	Cisco	Cisco MDS 9513 (2062-E11)		

Cisco	Cisco MDS 9216 (2026-D01)	
Cisco	Cisco MDS 9134 (2053-434)	
Cisco	Cisco MDS 9509 (2062-D07-T07)	
Cisco	Cisco MDS 9140 (2061-040)	
Cisco	Cisco MDS 9124 (2053-424)	
Cisco	Cisco MDS 9120 (2061-020)	
Cisco	Cisco MDS 9222i (2054-E01)	
Inrange	FC9000	4.3.0.2

Features Group Definitions				
Features Group Name	Vendor	Features Name	Version	Note
TS7650	DTC	Virtual Tape Library	VTF	
	IBM	Virtual Tape Device	ULTRIUM-TD2	
	ATL	Virtual Library	P3000	
	QUANTUM	Virtual Tape Device	DLT7000	

Note	Note Text
------	-----------