

<b><u>Compatibility List</u></b>	<b><u>First Page of Section</u></b>
<b>Tape Drives</b>	<b>2</b>
<b>Virtual Tape Libraries</b>	<b>5</b>
<b>Physical Tape Libraries</b>	<b>6</b>
<b>ACSLs Libraries</b>	<b>11</b>

**General Information**

Oracle Secure Backup supported tape devices will work with all supported operating systems unless otherwise noted in the comments.

Tape drives and tape libraries are independent; A supported library may utilize any supported tape drive as offered by the tape library manufacturer. Please confirm support for the tape drive and library.

Mixed media within one library is not supported by Oracle Secure Backup.

All devices on this matrix are considered to be supported by Oracle Secure Backup with all firmware versions currently supported by the manufacturer. The latest firmware version tested has been included as a reference. Oracle Secure Backup does not always test with newer firmware releases unless the vendor recommends re-testing based on a change(s) which may affect Oracle Secure Backup, however, newer versions are still supported. If a problem arises, it may be necessary to install the latest firmware tested until the issue resolved.

Oracle Secure Backup does not support tape drives or libraries that are not listed on this compatibility matrix.

SCSI and Fibre channel connectivity is qualified with all supported platforms. SAS connectivity is supported on Solaris SPARC, Linux, and Windows platforms.

If a tape device is no longer being manufactured, the availability has been noted as "Discontinued". Oracle Secure Backup continues to support these legacy devices as originally qualified.

The Virtual Tape Libraries (VTL) listed on this matrix are supported when configured to emulate tape drive(s) and/or tape libraries that are supported by Oracle Secure Backup.

This device support matrix is applicable to Oracle Secure Backup and Oracle Secure Backup Express as licensing permits.

This compatibility matrix includes the tape device "Product ID" which is the identifier that the device reports in response to a SCSI inquiry command.

If the Patch Req. column on this matrix indicates "yes", then the ob\_robots and ob\_drives files must be updated before deploying the device within an OSB domain. Please refer to My Oracle Support Note 420583.1 for instructions on obtaining and updating the files.

<b>Tape Drives</b>							
<b>Tape Format</b>	<b>Vendor</b>	<b>Drive Description / Model #</b>	<b>Product ID</b>	<b>Native Capacity (GB)</b>	<b>Latest Firmware Tested</b>	<b>Patch Req.</b>	<b>Comments</b>
3592	IBM	3592	03592J1A	Varies	172E		
3592	IBM	TS1130	03592EO6	Varies	2594		
9840	StorageTek	9840	9840	20			
9840	StorageTek	T9840B	T9840B	20			
9840-C	StorageTek	T9840C	T9840C	40			
9840-D	StorageTek	T9840D	T9840D	75	1.35		
9940-1	StorageTek	T9940A	T9940A	60			
9940-1	StorageTek	T9940B	T9940B	200			
AIT-1	Sony	SDX-400C	SDX-400C	25			
AIT-1	Sony	SDX-410C	SDX-410C	25			
AIT-2	Sony	SDX-500C	SDX-500C	50			
AIT-2	Sony	SDX-510C	SDX-510C	50			
AIT-3	Sony	SDX-700C	SDX-700C	130			
AIT-3	Sony	SDX-700V	SDX-700V	130	100		
AIT-4	Sony	SDX-900V	SDX-900V	200	101		
AIT-5	Sony	SDX-1100	SDX-1100	400	100		
DAT72	HP	DAT72	C7438A	36	ZP78		
DAT72	Quantum	Seagate DAT 72	DAT72	36	A1A0		
DAT72	Sun / StorageTek	StorEdge DAT 72	C7438A	36			
DAT160	HP	DAT160	DAT160	80			
DLT	Quantum	DLT-S4	DLT-S4	800	1414		
DLT	Quantum	DLT-V4	DLT-V4	160	800		
DLT	Sun / StorageTek	StorEdge DLT8000 Flexipack	DLT8000	40			
LTO	HP	Ultrium 215, 230, 232	Ultrium	100			
LTO	IBM	TotalStorage 3580	ULT3580	100			

Oracle Secure Backup 12.1 provides key management and support for LTO, T10000B, T10000C and T10000D tape drive encryption unless explicitly stated otherwise on this matrix. WORM functionality / tapes are not supported.

Revision Date: 5/2/2018

Tape Drives							
Tape Format	Vendor	Drive Description / Model #	Product ID	Native Capacity (GB)	Latest Firmware Tested	Patch Req.	Comments
LTO	IBM	TotalStorage T200 and T200/F	ULTRIUM-TD1	100			
LTO	Dell	PV110T, LTO	ULTRIUM06242	100			
LTO-2	Quantum	Ultrium 2 Half Height		200	1783		
LTO-2	HP	Ultrium 460	Ultrium 2	200			
LTO-2	HP	Ultrium 448 HH	Ultrium 2	200			
LTO-2	IBM	TotalStorage T400 and T400/F	ULTRIUM-TD2	200	4770		
LTO-2	StorageTek	StorEdge LTO 2	Ultrium 2	200			
LTO-3	Quantum	Ultrium 3 Full Height	ULTRIUM-TD3	400	1770		
LTO-3	HP	Ultrium 960	Ultrium 3	400	G27D		
LTO-3	HP	Ultrium 920 HH	Ultrium 3	400			
LTO-3	IBM	TotalStorage T800 and T800/F	ULTRIUM-TD3	400	59D2		
LTO-3	Dell	PV110T, LTO3	ULTRIUM-TD3	400	59D2		
LTO-3	StorageTek	Ultrium 960	Ultrium 3	400	G27D		
LTO-4	HP	Ultrium 1840	Ultrium 4	800	H22S		
LTO-4	HP	Ultrium 1760 HH	Ultrium 4	800	W22D		
LTO-4	IBM	Ultrium-4	ULTRIUM-TD4	800	7381		
LTO-4	IBM	Ultrium-4 HH	ULT3580-HH4	800	85v8		
LTO-4	Dell	Dell Powervault LTO4-120 FH	ULTRIUM-TD4	800	7381		
LTO-4	Quantum	Ultrium-4	ULTRIUM 4	800	2210		Drive encryption is
LTO-4	StorageTek	Ultrium-4	Ultrium or ULTRIUM-TD4	800			

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Tape Format	Vendor	Drive Description / Model #	Product ID	Native Capacity (GB)	Latest Firmware Tested	Patch Req.	Comments
LTO-5	Dell	Ultrium 5	ULTRIUM-TD5	1500	A6SA		
LTO-5	HP	Ultrium 3280	Ultrium 5	1500			
LTO-5	HP	Ultrium 3000 HH	Ultrium 5	1500	Y23Z		
LTO-5	IBM	Ultrium 5	ULTRIUM-TD5	1500	A6SA		
LTO-5	Quantum	Ultrium-5 - HH	ULTRIUM 5	1500	3082		
LTO-5	Quantum	Ultrium-5	ULTRIUM 5	1500	3082		
LTO-6	HP	Ultrium 6650	Ultrium 6	2500	J17D		
LTO-6	HP	Ultrium 6250 HH	Ultrium 6	2500	22GS		
LTO-6	IBM	ULTRIUM-TD6	ULTRIUM-TD6	2500	C9T4		
LTO-7	IBM	Ultrium 7 HH	Ultrium-HH7	6000	FA11		
LTO-7	IBM	Ultrium 7 FH	Ultrium-TD7	6000	FA14		
RXT	Spectra Logic	RXT Sabre	ULTRIUM-TD2	2500	4850		
SAIT	Sony	SDZ-100	SDZ-100	500	200		
SDLT220	Quantum	Super DLT 220	SuperDLT1	110			
SDLT220	StorageTek	StorEdge SDLT 220	SuperDLT1	110			
SDLT320	Quantum	Super DLT 320	SDLT320	160			
SDLT320	StorageTek	StorEdge SDLT 320	SDLT320	160			
SDLT600	Quantum	Super DLT600	SDLT600	300	1E1E		
SDLT600	StorageTek	Super DLT600	SDLT600	300	1E1E		
T10000	StorageTek	T10000A	T10000	500	1.32		Discontinued
T10000B	StorageTek	T10000B	T10000B	1000	1.37		
T10000C	StorageTek	T10000C	T10000C	5000	1.51		
T10000D	StorageTek	T10000D	T10000D	8500	4.06		
VS160	Quantum	VS160	DLT VS160	80			
VXA-2	Exabyte	VXA-2	VXA-2	80			

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Revision Date: 5/2/2018

## Virtual Tape Libraries

Vendor	Vendor / Model	Latest Firmware Tested	Patch Req.	Product ID	NDMP Direct Copy (Server-less Duplication)	Comments
Copan	Copan 200T					
EMC	EMC DL210, DL310, DL710, DL720, DL740, DL4100, DL4200, DL4400, DL4106, DL4206 & DL4406	3.1		svtIRobot		
EMC	EMC Disk Library 1500, 3000	1.0.0 build 6.1.329		Disk Library	Supported	NDMP Direct Copy supported referred to as "Path to Tape", (PTT) option on VTL
Data Domain	Data Domain Systems	6.0, 6.1.1				Changer: L180, TS3500, i2000, i6000 Tape Drive: IBM LTO-1, IBM LTO-2, IBM LTO-3, IBM LTO-4, IBM LTO-5, HP LTO-3, HP LTO-4
FalconStor	FalconStor VTL	5.0			Supported	NDMP Direct Copy supported; requires NDMP option on VTL
Fujitsu	ETERNUS CS800 VTL	1.4.1			Supported	
HP	D2D110 Backup System					iSCSI connectivity supported on Linux only, USB connectivity not supported
HP	D2D4324, D2D4312, D2D4112 G2 D2D4106i G2, D2D4106fc G2, D2D2504 G2 Backup Systems	2.2.17		MSL G3 Series		
HP	StoreOnce B6200 Backup, StoreOnce 4430 Backup, StoreOnce 4420 Backup, StoreOnce 4220 Backup, StoreOnce 4210 Backup	3.5.0		MSL G3 Series & EML E-Series		
HP	VLS6500					
HP	VLS9000, VLS12000	2.0				
Network Appliance	Netapp	OS versions: 5.5, 5.6.2 [#15983], 6.0.1				
Overland Storage	Overland Storage REO Series	425				iSCSI connectivity supported on Linux
Quantum	DXi3500	04.00.141				Discontinued
Quantum	DXi5500	04.00.141				Discontinued
Quantum	DXi6700	2.2_68		DXi6700	Supported*	
Quantum	DXi6802	2.2_68			Supported*	
Quantum	DXi7500	1.5		DXi7500	Supported*	Discontinued
Quantum	DXi8500, 2TB, 3TB	2.2_68		DXi8500	Supported*	
Sepaton	Sepaton S2100-ES2					
Spectra	Spectra nTier300, nTier500, nTier700					
Sun	Sun VTL Plus, Prime	3.15		VTL	Supported	

NDMP Direct Copy enables server-less tape duplication and is supported with virtual tape libraries as indicated above. The physical tape drives used for server-less duplication from virtual to physical tape may be shared drives (as in Storage Area Networks - SAN) or dedicated to the VTL. \* NDMP Direct Copy supported referred to as "Application Specific Path to Tape" option on VTL.

## Physical Tape Libraries

### ADIC

Vendor	Model	Latest Firmware Tested	Patch Req.	Product ID	Comments
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Please refer to the Quantum section for listing of supported ADIC tape libraries.

### Dell

Vendor	Model	Latest Firmware Tested	Patch Req.	Product ID	Comments
DELL	PowerVault 122T			PV-122T	
DELL	PowerVault 124T			PV-124T	
DELL	PowerVault 128T			C7200	
DELL	PowerVault 130T			PV-130T	
DELL	PowerVault 132T	227D		PV-132T	
DELL	PowerVault 136T	3.21		PV-136T	
DELL	PowerVault 160T	200A		Scalar i2000	
DELL	PowerVault ML6000	200G		Scalar i500	
DELL	PowerVault TL2000			3573-TL	
DELL	PowerVault TL4000			3573-TL	

# HP

Vendor	Model	Latest Firmware Tested	Patch Req.	Product ID	Comments
HP	1/8 Tape Autoloader			ThinStor	
HP	1/8 G2 Tape Autoloader	3.00		1x8 G2 AUTOLDR	
HP	DAT 72X10 Autoloader	1.00		DAT Autoloader	
HP	EML 71e Library	1373		EML E-Series	
HP	EML 103e Base Tape Library	1373		EML E-Series	
HP	EML 245e Library	1373		EML E-Series	
HP	EML 442e Library	1373		EML E-Series	
HP	EML 505e Library	1373		EML E-Series	
HP	MSL2024	7.00		MSL G3 Series	
HP	MSL4048	7.00		MSL G3 Series	
HP	MSL8096	7.00		MSL G3 Series	
HP	MSL5026DLX			MSL5000	
HP	MSL5026S2			MSL5000	
HP	MSL5026SL			MSL5000	
HP	MSL5030L1			MSL5000	
HP	MSL5052S2			MSL5000	
HP	MSL5052SL			MSL5000	
HP	MSL5060L1			MSL5000	
HP	MSL6000			MSL6000	
HP	MSL6030			MSL6030	
HP	MSL6060			MSL6060	
HP	MSL6480	1.1		MSL6480	
HP	ESL286E	7.00		ESL E-Series	
HP	ESL322E	7.00		ESL E-Series	
HP	ESL630E	7.00		ESL E-Series	
HP	ESL712E	7.00		ESL E-Series	
HP	ESL G3	651H		ESL G3 Series	
HP	SureStore DAT24x6 ( C1559)			C1559	
HP	SureStore DAT24x6 (C1557)			C1557	
HP	SureStore DAT40x6 (C5713)			C5713A	

## IBM

Vendor	Model	Latest Firmware Tested	Patch Req.	Product ID	Comments
IBM	3581 Ultrium Autoloader			ULT3581	
IBM	3582 Tape Library			ULT3582	
IBM	3583 Tape Library			ULT3583	
IBM	3584 Tape Library			03584	
IBM	TS2900 System Storage Library	3		3572-TL	
IBM	TS3100/3200 System Storage Library	1.1		3573-TL	
IBM	TS3310 System Storage Library			3576-MTL	
IBM	TS3500	8750		3584L22	

## Overland Storage

Vendor	Model	Latest Firmware Tested	Patch Req.	Product ID	Comments
Overland	LibraryPro			LIBRARYPRO	
Overland	LXB Series			LXB	
Overland	Neo 2000	429		NEO Series	Gbe NDMP option supported with minimum firmware version of 3.22, GbE iSCSI option supported on Linux
Overland	Neo 4100			NEO Series	
Overland	Neo 4200			NEO Series	
Overland	Neo 4300			NEO Series	
Overland	Neo 4400			NEO Series	
Overland	Neo 8000			NEO Series	



## NEC

Vendor	Model	Latest Firmware Tested	Patch Req.	Product ID	Comments
NEC	NEC T16A Autoloader	0001		T16A	
NEC	NEC T40A Library	0004		T40A	
NEC	NEC T40A-2 Library	0004		T40A2	

## Qualstar

Vendor	Model	Latest Firmware Tested	Patch Req.	Product ID	Comments
Qualstar	RLS-4000 Series			RLS	
Qualstar	RLS-5000 Series			RLS	
Qualstar	RLS-6000 Series			RLS	
Qualstar	RLS-8000 Series			RLS	
Qualstar	TLS-4000 Series			TLS-4	
Qualstar	TLS-5000 Series	2.22		TLS-5	
Qualstar	TLS-6000 Series			TLS-6	
Qualstar	TLS-8000 Series			TLS-8	

## Quantum

Vendor	Model	Latest Firmware Tested	Patch Req.	Product ID	Comments
ADIC	Scalar 10K	210A		Scalar 10k	Mixed media mode not supported.
ADIC	Scalar 24	107A		Scalar 24	
ADIC	Scalar 50			Scalar 50	
ADIC	Scalar 100			Scalar 100	
ADIC	Scalar i500	200G		Scalar i500	
ADIC	Scalar i2000	120A		Scalar i2000	
Quantum	P7000			P7000	
Quantum	PX 500			PX500	
Quantum	PX 720	3		PX720	
Quantum	Scalar i40 i80	120GTS004		Scalar i40-i80	
Quantum	Scalar i6000	606A		Scalar i6000	
Quantum	SuperLoader 3	002D		UHDL	
Quantum	Scalar i3 i6	110G		Scalar i3-i6	

## Sony

Vendor	Model	Latest Firmware Tested	Patch Req.	Product ID	Comments
Sony	Lib 81 / A3	106		LIB-81	
Sony	Lib - 162			LIB-162	
Sony	Lib - D81	104		LIB-D81	
Sony	Library 152			215	
Sony	Library 152E			215	
Sony	Library 302			215	
Sony	TSL-A500C			TSL-A500C	

## Spectra Logic

Vendor	Model	Latest Firmware Tested	Patch Req.	Product ID	Comments
Spectra Logic	10k			10000	
Spectra Logic	2k			215	
Spectra Logic	12k			GATOR	
Spectra Logic	20k			GATOR	
Spectra Logic	64k			GATOR	
Spectra Logic	T50	2000		PYTHON	
Spectra Logic	T120	2000		PYTHON	BlueScale 9.0 or greater must be used with SAIT drives
Spectra Logic	T950	2000		PYTHON	

## StorageTek

Vendor	Model	Latest Firmware Tested	Patch Req.	Product ID	Comments
StorageTek	L180 Library			L180	
StorageTek	L20 Tape Library			L20	
StorageTek	L40 Tape Library			L40	
StorageTek	L700 Library			L700	L700e(Single frame) support only. L700e (Dual Frame) is not supported.
StorageTek	StorEdge C2	002D		UHDL	
StorageTek	StorEdge C4			PX500	
StorageTek	StorEdge L8			FastStor	
StorageTek	StorEdge L180			L180	
StorageTek	StorEdge L700			L700	
StorageTek	SL24 Tape Autoloader			MSL G3 Series	Discontinued
StorageTek	SL48 Tape Library			MSL G3 Series	Discontinued
StorageTek	SL150	1000		SL150	
StorageTek	SL500			SL500	Discontinued
StorageTek	SL3000	2.02		SL3000	Advanced Exchange Module (AEM) is not supported.
StorageTek	SL8500 or SL3000			ACSLs-SCSI	Leverages ACSLS 8.0 SCSI Media Changer (SMC) and logical library capabilities

## ACSLs Supported Devices

Vendor	Model	Latest Firmware Tested	Patch Req.	Product ID	Comments
StorageTek	Powder Horn 9310			ACSLs	
StorageTek	Timber Wolf 9740			ACSLs	SCSI-Attached only
StorageTek	L20, L40, L80, L180			ACSLs	
StorageTek	L700e			ACSLs	
StorageTek	SL500			ACSLs	
StorageTek	SL1400			ACSLs	
StorageTek	SL3000			ACSLs	
StorageTek	L5500			ACSLs	
StorageTek	SL8500			ACSLs	
StorageTek	SL3000 or SL8500			ACSLs-SCSI	Logical libraries configured via ACSLS 8.0 SCSI Media Changer (SMC)
NOTE: All ACSLS supported devices require use of ACSLS version 7.x or higher.					