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**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.

Tape Drives								
Tape Format	Vendor	Drive Description / Model #	Product ID	Native Capacity (GB)	Latest Firmware Tested	Patch Req.	Comments	Device Availability from Vendor
3592	IBM	3592	03592J1A	Varies	172E			
3592	IBM	TS1130	03592EO6	Varies	2594			
9840	StorageTek	9840	9840	20				Discontinued
9840	StorageTek	T9840B	T9840B	20				Discontinued
9840-C	StorageTek	T9840C	T9840C	40				Discontinued
9840-D	StorageTek	T9840D	T9840D	75	1.35			
9940-1	StorageTek	T9940A	T9940A	60				Discontinued
9940-1	StorageTek	T9940B	T9940B	200				Discontinued
AIT-1	Sony	SDX-400C	SDX-400C	25				Discontinued
AIT-1	Sony	SDX-410C	SDX-410C	25				Discontinued
AIT-2	Sony	SDX-500C	SDX-500C	50				Discontinued
AIT-2	Sony	SDX-510C	SDX-510C	50				Discontinued
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	0101			
AIT-5	Sony	SDX-1100	SDX-1100	400	0100			
DAT72	HP	StorageWorks DAT72	C7438A	36	ZP78			
DAT72	Quantum	Seagate DAT 72	DAT72	36	A1A0			
DAT72	Sun / StorageTek	StorEdge DAT 72	C7438A	36				Discontinued
DAT160	HP	StorageWorks DAT160	DAT160	80				
DLT	Quantum	DLT-S4	DLT-S4	800	1414			
DLT	Quantum	DLT-V4	DLT-V4	160	0800			
DLT	Sun / StorageTek	StorEdge DLT8000 Flexipack	DLT8000	40				Discontinued
LTO	HP	Ultrium 215, 230, 232	Ultrium	100				Ultrium 215 and 230 have been Discontinued
LTO	IBM	TotalStorage 3580	ULT3580	100				

Oracle Secure Backup 10.3 provides key management and support for LTO-4, LTO-5, T10000B and T10000C tape drive encryption unless explicitly stated otherwise on this matrix. WORM functionality / tapes are not supported.

Tape Drives								
Tape Format	Vendor	Drive Description / Model #	Product ID	Native Capacity (GB)	Latest Firmware Tested	Patch Req.	Comments	Device Availability from Vendor
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			Discontinued
LTO-2	HP	Ultrium 460	Ultrium 2	200				Discontinued
LTO-2	HP	StorageWorks 448	Ultrium 2	200				
LTO-2	IBM	TotalStorage T400 and T400/F	ULTRIUM-TD2	200	4770			
LTO-2	StorageTek	StorEdge LTO 2	Ultrium 2	200				Discontinued
LTO-3	Quantum	Ultrium 3 Full Height	ULTRIUM-TD3	400	1770			Discontinued
LTO-3	HP	Ultrium 960	Ultrium 3	400	G27D			
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-4	Ultrium	800	H22S			
LTO-4	HP	StorageWorks LTO1760, Half height	Ultrium	800	W22D			
LTO-4	IBM	Ultrium-4	ULTRIUM-TD4	800	7381			
LTO-4	IBM	Ultrium-4 HH	ULT3580-HH4	800	85v8	Yes		
LTO-4	Dell	Dell Powervault LTO4-120 FH	ULTRIUM-TD4	800	7381			
LTO-4	Quantum	Ultrium-4	ULTRIUM 4	800	2210		Drive encryption is not supported.	
LTO-4	StorageTek	Ultrium-4	Ultrium or ULTRIUM-TD4	800				

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Tape Drives								
Tape Format	Vendor	Drive Description / Model #	Product ID	Native Capacity (GB)	Latest Firmware Tested	Patch Req.	Comments	Device Availability from Vendor
LTO-5	HP	Ultrium 3280	Ultrium	1500				
LTO-5	HP	Ultrium 3000 HH	Ultrium	1500	Y23Z			
LTO-5	IBM	Ultrium 5	ULTRIUM-TD5	1500	A6SA	Yes	Drive encryption is not supported.	
LTO-5	Quantum	Ultrium-5 - HH	ULTRIUM 5	1500	3082	Yes		
LTO-5	Quantum	Ultrium-5	ULTRIUM 5	1500	3082	Yes		
RXT	Spectra Logic	RXT Sabre	ULTRIUM-TD2		4850			
SAIT	Sony	SDZ-100	SDZ-100	500	200			
SDLT220	Quantum	Super DLT 220	SuperDLT1	110				Discontinued
SDLT220	StorageTek	StorEdge SDLT 220	SuperDLT1	110				Discontinued
SDLT320	Quantum	Super DLT 320	SDLT320	160				Discontinued
SDLT320	StorageTek	StorEdge SDLT 320	SDLT320	160				Discontinued
SDLT600	Quantum	Super DLT600	SDLT600	300	1E1E			
SDLT600	StorageTek	Super DLT600	SDLT600	300	1E1E			Discontinued
T10000	StorageTek	T10000A	T10000	500	1.32			
T10000B	StorageTek	T10000B	T10000B	1000	1.37	Yes		
T10000C	StorageTek	T10000C	T10000C	5000	1.51	Yes		
VS80	Quantum	VS80	VS80	40				Discontinued
VS160	Quantum	VS160	DLT VS160	80				
VXA-1	Exabyte	VXA-1	VXA-1	33				
VXA-2	Exabyte	VXA-2	VXA-2	80				

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## Virtual Tape Libraries

Vendor	Vendor / Model	Latest Firmware Tested	Patch Req.	Product ID	NDMP Direct Copy (Server-less Duplication)	Comments	Device Availability from Vendor
ADIC	Pathlight VX	240A		Pathlight VX		Requires vendor firmare version: 2.4.1.	
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	DD 460	4.0.3.0-31088					
FalconStor	FalconStor VTL	5.0			Supported	NDMP Direct Copy supported; requires NDMP option on VTL	
Fujitsu	ETERNUS CS800 VTL	1.4.1			Supported		
HP	StorageWorks D2D110 Backup System					iSCSI connectivity supported on Linux only, USB connectivity not supported	
HP	StorageWorks D2D4112 Backup System	EL21		MSL G3 Series			
HP	VLS6500						Discontinued
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	0425				iSCSI connectivity supported on Linux	
Quantum	DXi3500	04.00.141					
Quantum	DXi5500	04.00.141					Discontinued
Quantum	DXi6700	1.4.1		DXi6700	Supported*		
Quantum	DXi7500	1.4.1		DXi7500	Supported*		
Quantum	DXi8500	1.4.1		DXi8500	Supported*		
Sepaton	Sepaton S2100-ES2						
Spectra	Spectra nTier300, nTier500, nTier700						
Sun	Sun VTL Plus, Prime	3.15		VTL	Supported		Discontinued

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	Device Availability from Vendor
Please refer to the Quantum section for listing of supported ADIC tape libraries.						

### Breece Hill

Vendor	Model	Latest Firmware Tested	Patch Req.	Product ID	Comments	Device Availability from Vendor
Breece Hill	8-Pak	1.38		108		
Breece Hill	10-Pak	1.47		110		
Breece Hill	15-Pak (Q2.15)			Q2		Discontinued
Breece Hill	50-Pak (Q4.50)			4.50		
Breece Hill	Q140			Q140		
Breece Hill	Q210			Q210		Discontinued
Breece Hill	Q4.30 DLT Library			Q4		Discontinued
Breece Hill	Q47			Quad 47		Discontinued
Breece Hill	Q7			Quad 7		Discontinued
Breece Hill	Q70			Q70		Discontinued
Breece Hill	QSx70 (Saguaro)			QSx70		Discontinued

## Dell

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

## Exabyte

Vendor	Model	Latest Firmware Tested	Patch Req.	Product ID	Comments	Device Availability from Vendor
Exabyte	110L			Exabyte 110L		
Exabyte	17D			Exabyte 17D		Discontinued
Exabyte	18D			Exabyte 18D		Discontinued
Exabyte	215			Exabyte 215		
Exabyte	221L			Exabyte 221L		
Exabyte	230D			Exabyte 230D		Discontinued
Exabyte	430			Exabyte 430		
Exabyte	EZ17			Exabyte EZ17		
Exabyte	Magnum20			Magnum20		
Exabyte	X200			Exabyte X200		Discontinued
Exabyte	X80			Exabyte X80		Discontinued
Exabyte	AutoPak 1x10			VXA AutoPak 1x10		

## HP

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

## IBM

Vendor	Model	Latest Firmware Tested	Patch Req.	Product ID	Comments	Device Availability from Vendor
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	Device Availability from Vendor
Overland	LibraryPro			LIBRARYPRO		Discontinued
Overland	LXB Series			LXB		Discontinued
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	Device Availability from Vendor
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	Device Availability from Vendor
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	Device Availability from Vendor
ADIC	FastStor 2			FastStor		Discontinued
ADIC	Scalar 10K	210A		Scalar 10k	Mixed media mode not supported.	
ADIC	Scalar 24	107A		Scalar 24		Discontinued
ADIC	Scalar 50			Scalar 50		Discontinued
ADIC	Scalar 100			Scalar 100		Discontinued
ADIC	Scalar i500	200G		Scalar i500		
ADIC	Scalar i2000	120A		Scalar i2000		
Quantum	M1500			1500		Discontinued
Quantum	M2500			M2500		Discontinued
Quantum	P4000			P4000		Discontinued
Quantum	P7000			P7000		Discontinued
Quantum	PX 500			PX500		Discontinued
Quantum	PX 720	3		PX720		
Quantum	Scalar i40	120GTS004	Yes	Scalar i40-i80		
Quantum	Scalar i80	120GTS004	Yes	Scalar i40-i80		
Quantum	Scalar i6000	606A	Yes	Scalar i6000		
Quantum	SuperLoader	002D		UHDL		Discontinued
Quantum	SuperLoader 3	002D		UHDL		

## Sony

Vendor	Model	Latest Firmware Tested	Patch Req.	Product ID	Comments	Device Availability from Vendor
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	Device Availability from Vendor
Spectra Logic	10k			10000		
Spectra Logic	2k			215		
Spectra Logic	12k			GATOR		Discontinued
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	Device Availability from Vendor
StorageTek	9704 Tape Library (LAGO LS/340)			LS-340		Discontinued
StorageTek	L180 Library			L180		Discontinued
StorageTek	L20 Tape Library			L20		Discontinued
StorageTek	L40 Tape Library			L40		Discontinued
StorageTek	L700 Library			L700	L700e(Single frame) support only. L700e (Dual Frame) is not supported.	Discontinued
StorageTek	StorEdge C2	002D		UHDL		Discontinued
StorageTek	StorEdge C4			PX500		Discontinued
StorageTek	StorEdge L8			FastStor		Discontinued
StorageTek	StorEdge L180			L180		Discontinued
StorageTek	StorEdge L700			L700		Discontinued
StorageTek	SL24 Tape Autoloader			MSL G3 Series		
StorageTek	SL48 Tape Library			MSL G3 Series		
StorageTek	SL500			SL500		
StorageTek	SL3000	2.02		SL3000	Advanced Exchange Module (AEM) is not supported.	
StorageTek	SL8500 or SL3000			ACSL S-SCSI	Leverages ACSLS 8.0 SCSI Media Changer (SMC) capabilities	

## ACSL S Supported Devices

Vendor	Model	Latest Firmware Tested	Patch Req.	Product ID	Comments	Device Availability from Vendor
StorageTek	Powder Horn 9310			ACSL S		Discontinued
StorageTek	Timber Wolf 9740			ACSL S	SCSI-Attached only	Discontinued
StorageTek	L20, L40, L80, L180			ACSL S		Discontinued
StorageTek	L700e			ACSL S		Discontinued
StorageTek	SL500			ACSL S		
StorageTek	SL1400			ACSL S		Discontinued
StorageTek	SL3000			ACSL S		
StorageTek	L5500			ACSL S		Discontinued
StorageTek	SL8500			ACSL S		
StorageTek	SL3000 or SL8500			ACSL S-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.						