



## Client Operating System Interoperability

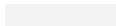
		SAN / DAS	NAS	Tape / VTL	CAS	Object Store	Cloud Storage	Remarks
Apple	iOS		•			•	•	
	macOS	•	•	•	•	•	•	
Linux	Amazon Linux	•	•	•	•	•	•	
	Amazon Linux 2	•	•	•	•	•	•	
	Red Hat Linux 7.2	•	•	•	•	•	•	
	Red Hat Linux 8.0	•	•	•	•	•	•	
	Red Hat Linux 9.0	•	•	•	•	•	•	
	Red Hat Enterprise Linux ES	•	•	•	•	•	•	
	Red Hat Enterprise Linux AS 2.1 (RHEL 2.1)	•	•	•	•	•	•	
	Red Hat Enterprise Linux AS 3 (RHEL 3)	•	•	•	•	•	•	
	Red Hat Enterprise Linux AS 4 (RHEL 4)	•	•	•	•	•	•	
	Red Hat Enterprise Linux 5 (RHEL 5)	•	•	•	•	•	•	
	Red Hat Enterprise Linux 6 (RHEL 6)	•	•	•	•	•	•	
	Red Hat Enterprise Linux 7 (RHEL 7)	•	•	•	•	•	•	
	Red Hat Enterprise Linux 8 (RHEL 8)	•	•	•	•	•	•	
	Red Hat Enterprise Linux 9 (RHEL 9)	•	•	•	•	•	•	
	SUSE Linux 7.2	•	•	•	•	•	•	
	SUSE Linux 8.0	•	•	•	•	•	•	
	SUSE Linux Enterprise Server 9.x (SLES 9)	•	•	•	•	•	•	
	SUSE Linux Enterprise Server 10.x (SLES 10)	•	•	•	•	•	•	
	SUSE Linux Enterprise Server 11.x (SLES 11)	•	•	•	•	•	•	
	SUSE Linux Enterprise Server 12.x (SLES 12)	•	•	•	•	•	•	
	SUSE Linux Enterprise Server 15 (SLES 15)	•	•	•	•	•	•	
	SUSE Linux Open Enterprise Server 9.0	•	•	•	•	•	•	
	SUSE Linux Professional 9.0	•	•	•	•	•	•	
SUSE Linux Professional 9.1	•	•	•	•	•	•		
SUSE Linux Professional 9.2	•	•	•	•	•	•		
SUSE Linux Professional 9.3	•	•	•	•	•	•		
TurboLinux 7	•	•	•	•	•	•		
TurboLinux 8	•	•	•	•	•	•		
TurboLinux 10	•	•	•	•	•	•		
FreeBSD	FreeBSD 4.0	•	•	•	•	•	•	
	FreeBSD 4.5	•	•	•	•	•	•	
	FreeBSD 4.8	•	•	•	•	•	•	
	FreeBSD 5.1	•	•	•	•	•	•	
	FreeBSD 5.3	•	•	•	•	•	•	
HP-UX	HP-UX 10.20 on PA-RISC	•	•	•	•	•	•	
	HP-UX 11.0 on PA-RISC	•	•	•	•	•	•	
	HP-UX 11i v1/11.11 on PA-RISC	•	•	•	•	•	•	
	HP-UX 11i v2/11.23 on PA-RISC	•	•	•	•	•	•	
	HP-UX 11i v1.6/11.22	•	•	•	•	•	•	
	HP-UX 11i v2/11.23	•	•	•	•	•	•	
IBM AIX	AIX 4.2 on PowerPC	•	•	•	•	•	•	

	AIX 4.3 on PowerPC	●	●	●	●	●	●
	AIX 5.1 on PowerPC	●	●	●	●	●	●
	AIX 5.2 on PowerPC	●	●	●	●	●	●
	AIX 5.3 on PowerPC	●	●	●	●	●	●
	AIX 6.x on PowerPC	●	●	●	●	●	●
	AIX 7.x on PowerPC	●	●	●	●	●	●
IBM i	OS/400 6.1	●	●	●	●	●	●
	OS/400 7.x	●	●	●	●	●	●
IBM z/OS	z/OS	●	●	●	●	●	●
Google	Android		●			●	●
Oracle Linux	Oracle Linux	●	●	●	●	●	●
	Oracle Linux with Unbreakable Enterprise Kernel (UEK)	●	●	●	●	●	●
Oracle Solaris	SunOS 5.6 on SPARC	●	●	●	●	●	●
	Solaris 7 on SPARC	●	●	●	●	●	●
	Solaris 8 on SPARC	●	●	●	●	●	●
	Solaris 9 on SPARC	●	●	●	●	●	●
	Solaris 10 on SPARC	●	●	●	●	●	●
	Solaris 11 on SPARC	●	●	●	●	●	●
	Solaris 7 on x86	●	●	●	●	●	●
	Solaris 8 on x86	●	●	●	●	●	●
	Solaris 9 on x86	●	●	●	●	●	●
	Solaris 10 on x86	●	●	●	●	●	●
	Solaris 11 on x86	●	●	●	●	●	●
Tru64 UNIX	Tru64 UNIX 4.0F/4.0G/5.1A on Alpha	●	●	●	●	●	●
SCO	UnixWare 7.1.4 on x86	●	●	●	●	●	●
	OpenServer 5.0.5 on x86	●	●	●	●	●	●
	OpenServer 5.0.7 on x86	●	●	●	●	●	●
	OpenServer 6 on x86	●	●	●	●	●	●
OpenVMS	OpenVMS 7.3.2 on Alpha	●	●	●	●	●	●
	OpenVMS 8.2-1	●	●	●	●	●	●
Microsoft	Windows 95	●	●	●	●	●	●
	Windows 98/Me	●	●	●	●	●	●
	Windows NT	●	●	●	●	●	●
	Windows 2000	●	●	●	●	●	●
	Windows Server 2000	●	●	●	●	●	●
	Windows XP	●	●	●	●	●	●
	Windows Vista	●	●	●	●	●	●
	Windows 7	●	●	●	●	●	●
	Windows Server 2008	●	●	●	●	●	●
	Windows 8	●	●	●	●	●	●
	Windows 8.1	●	●	●	●	●	●
	Windows Server 2012	●	●	●	●	●	●
	Windows 10	●	●	●	●	●	●
	Windows Server 2016	●	●	●	●	●	●
	Windows Server 2019	●	●	●	●	●	●
	Windows 11	●	●	●	●	●	●
	Windows Server 2022	●	●	●	●	●	●
Micro Focus / Novell	NetWare 6.5 OES	●	●	●	●	●	●
Apple	Mac OS 8	●	●	●	●	●	●
	Mac OS 9	●	●	●	●	●	●
	Mac OS X	●	●	●	●	●	●
	macOS	●	●	●	●	●	●

Legend:



indicates the item is fully supported



indicates the item is not supported



indicates the item is under development and may be supported in future release(s)

# Host Operating System Compatibility

		Security																Key Management										High Availability				Monitoring		Management	
		Encryption	Access Control	Integrity	AES	3DES	DES	CAST5 and CAST6	RC2, RC4, RC5 and RC6	Blowfish	Twofish	Camellia	ARIA, SEED	RSA	Bloombase KeyCastle	PKCS#11 <sup>11</sup>	OASIS KMIP <sup>13</sup>	Clustering	SNMP <sup>9</sup>	Email	Web-based Console <sup>10</sup>	Text-based Console	REST Management API												
Apple	macOS	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	12	•	•	•	•	•												
Bloombase OS	Bloombase OS for x86	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•												
	Bloombase OS for x86-64	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•												
	Bloombase OS for AMD64	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•												
	Bloombase OS for PowerPC	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•												
	Bloombase OS for AArch32/A32 or ARM32	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•												
	Bloombase OS for AArch64/A64 or ARM64	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•												
HP-UX	HP-UX 11 on PA-RISC	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	12	•	•	•	•	•												
	HP-UX 11	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	12	•	•	•	•	•												
IBM AIX	AIX 5.x on PowerPC	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	12	•	•	•	•	•												
	AIX 6.x on PowerPC	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	12	•	•	•	•	•												
	AIX 7.x on PowerPC	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	12	•	•	•	•	•												
Linux	Amazon Linux	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	12	•	•	•	•	•												
	Amazon Linux 2	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	12	•	•	•	•	•												
	Fedora Core 4	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	12	•	•	•	•	•												
	Oracle Linux	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	12	•	•	•	•	•												
	Oracle Linux with Unbreakable Enterprise Kernel (UEK)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	12	•	•	•	•	•												
	Red Hat Enterprise Linux AS 4 (RHEL 4)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	12	•	•	•	•	•												
	Red Hat Enterprise Linux 5 (RHEL 5)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	12	•	•	•	•	•												
	Red Hat Enterprise Linux 6 (RHEL 6)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	12	•	•	•	•	•												
	Red Hat Enterprise Linux 7 (RHEL 7)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	12	•	•	•	•	•												
	Red Hat Enterprise Linux 8 (RHEL 8)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	12	•	•	•	•	•												
	Red Hat Enterprise Linux 9 (RHEL 9)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	12	•	•	•	•	•												
	SUSE Linux Enterprise Server 9.x (SLES 9)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	12	•	•	•	•	•												
	SUSE Linux Enterprise Server 10.x (SLES 10)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	12	•	•	•	•	•												
	SUSE Linux Enterprise Server 11.x (SLES 11)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	12	•	•	•	•	•												
	SUSE Linux Enterprise Server 12.x (SLES 12)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	12	•	•	•	•	•												
	SUSE Linux Enterprise Server 15 (SLES 15)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	12	•	•	•	•	•												
	SUSE Linux Professional 10.0	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	12	•	•	•	•	•												
	SUSE Linux Professional 10.1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	12	•	•	•	•	•												
Ubuntu	Ubuntu Linux 5.0.4	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	12	•	•	•	•	•												
Microsoft	Windows 7	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	12	•	•	•	•	•												
	Windows Server 2008	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	12	•	•	•	•	•												
	Windows 8	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	12	•	•	•	•	•												
	Windows Server 2012	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	12	•	•	•	•	•												
	Windows 10	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	12	•	•	•	•	•												

	Windows Server 2016	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	12	●	●	●	●	●
	Windows Server 2019	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	12	●	●	●	●	●
	Windows 11	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	12	●	●	●	●	●
	Windows Server 2022	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	12	●	●	●	●	●
Oracle Solaris	Solaris 10 on SPARC	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	12	●	●	●	●	●
	Solaris 11 on SPARC	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	12	●	●	●	●	●
	Solaris 10 on x86	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	12	●	●	●	●	●
	Solaris 11 on x86	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	12	●	●	●	●	●

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Notes:

- 1 Host protocol refers to the communications protocol between storage clients and Bloombase StoreSafe
- 2 iSCSI is Internet Small Computer System Interface, an Internet Protocol (IP)-based storage networking standard for linking data storage facilities, developed by the Internet Engineering Task Force (IETF). By carrying SCSI commands over IP networks, iSCSI is used to facilitate data transfers over intranets and to manage storage over long distances.
- 3 With iSCSI HBA or generic network interface card(s) installed, can be on copper or optical-fiber interconnects
- 4 Storage protocol refers to the communications protocol between Bloombase StoreSafe appliances and storage sub-systems
- 5 Fiber-channel HBA card(s) required
- 6 iSCSI HBA or generic network interface card(s) installed
- 7 With Ultra SCSI card(s) installed
- 8 Applicable iSCSI devices only
- 9 SNMP versions 1, 2c, 3
- 10 Web-based management console secured by SSL over HTTP
- 11 Check out section "Hardware Security Module Interoperability" below
- 12 Only fault-tolerant cluster with central multi-processing synchronization control can be employed for cluster purpose
  - Virtual server utilities
  - Hardware clustering, e.g. blade systems
- 13 Check out section "OASIS KMIP Key Manager Interoperability" below
- 14 Check out section "Vendor Proprietary Key Manager Interoperability" below

## Physical Appliance Platform Interoperability

		Support	Remarks
AMD	AMD64 EPYC	●	
	AMD64 Opteron	●	
Ampere	Altra	●	
Apple	M1	●	
Arm	AArch32/A32 or ARM32	●	
	AArch64/A64 or ARM64	●	
	Neoverse	●	
AWS	Graviton2	●	
Cisco	UCS B-Series	●	
	UCS C-Series	●	
Dell	PowerEdge Series	●	
HPE	Integrity Series	●	

	Blade Series	●	
	ProLiant Series	●	
	Moonshot System	●	
IBM	PureFlex Series	●	
	PowerLinux Series	●	
	BladeCenter Series	●	
	Power3 Series	●	
	Power4 Series	●	
	Power4+ Series	●	
	Power5 Series	●	
	Power5+ Series	●	
	Power6 Series	●	
	PowerPC 970MP Series	●	
	PA8700 architecture	●	
	PA8800 architecture	●	
	PA8900 architecture	●	
Intel	IA64 (Intel 64-bit architecture)	●	
	IA64 Dual Core Montecito	●	
	Intel EM64T architecture	●	
Oracle / Sun	UltraSPARC II Series	●	
	UltraSPARC III Series	●	
	UltraSPARC IV Series	●	
	UltraSPARC T1 Series	●	
	UltraSPARC T2/T2+ Series	●	
	SPARC64-V Series	●	
	SPARC64-VI Series	●	
	SPARC64-VII Series	●	

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### Virtual Hypervisor Platform Interoperability

		Support	Remarks
Citrix	XenServer	●	
IBM	PowerVM	●	
Microsoft	Hyper-V	●	
Oracle	VM Server	●	
	VM VirtualBox	●	
Parallels	Desktop	●	
Red Hat	KVM	●	
VMware	ESXi	●	
	ESX	●	
	Fusion	●	
	VM Server	●	
	VM Workstation	●	

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## Hyper-Converged Infrastructure (HCI) Interoperability

		Support	Remarks
Cisco	HyperFlex HX-Series	●	
Dell EMC	VxRail	●	
Microsoft	Azure Stack HCI	●	
Nutanix	HCI	●	
VMware	VMware Cloud on AWS	●	
	VMware Cloud on Dell EMC	●	

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## Cloud Platform Interoperability

		Support	Remarks
Amazon	Amazon Web Services (AWS)	●	
IBM	IBM Cloud / SoftLayer / Bluemix	●	
Google	Google Cloud Platform (GCP)	●	
Microsoft	Azure	●	
Rackspace	Rackspace	●	
Oracle	Oracle Cloud Infrastructure (OCI)	●	

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## Network Attached Storage (NAS) / File Server / Filer Interoperability

		Support	Remarks
Dell	PowerVault NX series	●	
	EqualLogic FS series	●	
	EqualLogic PS series	●	
	Compellent FS series	●	
	Dell EMC	Celerra NS series	●
	Celerra NS20	●	
	Celerra NS40/40G	●	
	Celerra NS80/80G	●	
	Celerra NSX	●	
	Celerra NX4	●	
	VNX/VNXe series	●	
Fujitsu	ETERNUS 2000 series	●	
	ETERNUS 4000 series	●	
	ETERNUS 6000 series	●	
	ETERNUS 8000 series	●	
Generic	FC JBOD	●	
	SCSI JBOD	●	

HDS	AMS/WMS series	●	
	HUS 100 series	●	
	Lightning 9900V series	●	
	SMS/AMS2000 series	●	
	Thunder 9500V series	●	
	TMS1000	●	
	TagmaStore USP/NSC series	●	
	USPV/USPVM	●	
	HNAS/NAS Platform 3xxx series	●	
	Titan 3000 series	●	
	Mercury 50 series	●	
	Mercury 100 series	●	
HPE	EVA4400	●	
	StorageWorks EVA 4000/6000/8000 series	●	
	StorageWorks EVA4100/6100/8100	●	
	StorageWorks P10000/12000	●	
	StorageWorks XP128/1024	●	
	StorageWorks XP20000/24000	●	
	3PAR InServ S200, 400, 800	●	
	Dot Hill P2000 MSA	●	
	LeftHand P4000	●	
	LeftHand P4000 Virtual SAN Appliance Software (VSA)	●	
Huawei	OceanStor Dorado5000 V3, Dorado6000 V3	●	
	OceanStor 5300 V3, 5500 V3, 5600 V3, 5800 V3, 6800 V3, 18000 V3	●	
	OceanStor S2600T/S5500T/S5600T/S5800T/S6800T	●	
IBM	Storwize V7000	●	
	ESS 750/800 series	●	
	ESS 2105 Shark F10, F20	●	
	ESS 2105 Shark models 750, 800	●	
	FAST 500	●	
	SAN VC	●	
	System Storage N series	●	
	System Storage DS6000 series	●	
	System Storage DS8000 series	●	
	TotalStorage DS4000 series	●	
	System Storage N3000 series	●	
	System Storage N6000 series	●	
	System Storage N7000 series	●	
Microsoft	Windows Storage Server 2008	●	
	Windows Storage Server 2012	●	
	Windows Storage Server 2016	●	
	Windows Storage Server 2019	●	
	Windows Storage Server 2022	●	
NEC	iStorage 1000	●	
	iStorage 2000	●	
NetApp	FAS2000/FAS900/FAS200 series	●	
	FAS3000/V3000 series	●	
	FAS6000/V6000 series	●	
	R200 NearStore Series	●	
	Engenio E2600, E4600, E5600, E6000	●	
	Engenio S2600, S2800, S5600	●	
Nihon Unisys	SANArena 1530, 1570	●	
	SANArena 2000 Series	●	
Oracle	Sun StorEdge 3310/3320	●	
	Sun StorageTek 3510/3511	●	
	Sun StorageTek 6130/6140	●	
	Sun StorageTek 6920/6940	●	
	Sun StorageTek 9900 series	●	
	Sun StorageTek 9985/9990 series	●	
	Sun StorageTek 9985V	●	
	Sun StorageTek 9990V	●	
	Sun StorEdge T3	●	
	Sun StorEdge T3+, 3910, 3960	●	

	StorageTek FlexLine 200/300 series	●	
	Sun ZFS Storage 7xxx series	●	
	Exadata Storage Server	●	
	Pillar Data Axiom 300/500	●	
HPE / SGI	IS500, TP9300, 9400, 9500, 9700	●	
SUSE	SUSE Enterprise Storage (SES)	●	
VMware	vSphere Storage Appliance	●	

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**Storage Area Network (SAN) / Direct Attached Storage (DAS) / Disk Array Interoperability**

		Support	Remarks
Dell	EqualLogic FS Series	●	
	EqualLogic PS Series	●	
	Compellent SC series	●	
Dell EMC	CLARiiON AX series	●	
	CLARiiON CX series including CX3 and CX4	●	
	Symmetrix 3000 series	●	
	Symmetrix 8000 series	●	
	Symmetrix DMX series	●	
	Symmetrix VMAX series	●	
	VNX/VNXe series	●	
Fujitsu	ETERNUS 2000 series	●	
	ETERNUS 4000 series	●	
	ETERNUS 6000 series	●	
	ETERNUS 8000 series	●	
Generic	FC JBOD	●	
	SCSI JBOD	●	
HDS	AMS/WMS series	●	
	HUS 100 series	●	
	Lightning 9900V series	●	
	SMS/AMS2000 series	●	
	Thunder 9500V series	●	
	TMS1000	●	
	TagmaStore USP/NSC series	●	
	USP/NSC series	●	
	USPV/USPVM	●	
	VSP	●	
HPE	2000 G2 series	●	
	EVA4400	●	
	EVA 4000/6000/8000 series	●	
	EVA4100/6100/8100	●	
	XP10000/12000	●	
	XP128/1024	●	
	XP20000/24000	●	
	3PAR InServ S200, 400, 800	●	
	MSA 1500	●	
	P2000 G3 MSA series	●	
	P4000	●	
	P6000 EVA series	●	
	P9500	●	
Huawei	OceanStor Dorado5000 V3, Dorado6000 V3	●	
	OceanStor 5300 V3, 5500 V3, 5600 V3, 5800 V3, 6800 V3, 18000 V3	●	
	OceanStor S2600T/S5500T/S5600T/S5800T/S6800T	●	



IBM	DS3950	●	
	DS5020	●	
	ESS 750/800 series	●	
	ESS 2105 Shark F10, F20	●	
	ESS 2105 Shark models 750, 800	●	
	FAST 500	●	
	SAN VC	●	
	Storwize series	●	
	System Storage N series	●	
	System Storage DS3000 series	●	
	System Storage DS5000 series	●	
	System Storage DS6000 series	●	
	System Storage DS8000 series	●	
	System Storage XIV series	●	
	TotalStorage DS4000 series	●	
NEC	iStorage 1000	●	
	iStorage 2000	●	
NetApp	FAS2000/FAS900/FAS200 series	●	
	FAS3000/V3000 series	●	
	FAS6000/V6000 series	●	
	R200 NearStore Series	●	
	Engenio E2600, E4600, E5600, E6000	●	
	Engenio S2600, S2800, S5600	●	
Nihon Unisys	SANArena 1530, 1570	●	
	SANArena 2000 Series	●	
HPE / SGI	IS500, TP9300, 9400, 9500, 9700	●	
Oracle	Sun StorEdge 3310/3320	●	
	Sun StorageTek 3510/3511	●	
	Sun StorageTek 6130/6140	●	
	Sun StorageTek 6920/6940	●	
	Sun StorageTek 9900 series	●	
	Sun StorageTek 9985/9990 series	●	
	Sun StorageTek 9985V	●	
	Sun StorageTek 9990V	●	
	Sun StorEdge T3	●	
	Sun StorEdge T3+, 3910, 3960	●	
	StorageTek FlexLine 200/300 series	●	
	Pillar Data Axiom 300/500	●	
VMware	vSAN	●	

Legend:

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## Content Addressable Storage (CAS) and Object Storage Interoperability

		Support	Remarks
Caringo	CAstor	●	
Dell	DX series	●	
Dell EMC	Centera	●	
	VIPR/ECS/Atmos	●	
Hitachi Vantara / HDS	Hitachi Content Platform (HCP)	●	
NetApp	SnapLock	●	

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### Cloud Storage Interoperability

		Support	Remarks
Amazon	Elastic Block Store (EBS)	●	
	Elastic File System (EFS)	●	
	Simple Cloud Storage Service (S3)	●	
	Storage Gateway	●	
Google	Cloud Storage	●	
	Cloud FileStore	●	
	Persistent Disk	●	
IBM	Block Storage	●	
	File Storage	●	
	Object Storage	●	
Microsoft	Azure Blob Storage	●	
	Azure File Storage	●	
OpenStack	Swift	●	
	Cinder	●	
Oracle	File Storage	●	
	Block Volume	●	
	Object Storage	●	
	Storage Gateway	●	

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### Tape Library Interoperability

		Support	Remarks
Dell	PowerVault 132T	●	
	PowerVault 136T	●	
	PowerVault 160T	●	
	PowerVault ML6000 series	●	
	PowerVault TL2000	●	
	PowerVault TL4000	●	
Fujitsu	ETERNUS LT20	●	
	ETERNUS LT230	●	
	ETERNUS LT250	●	
	ETERNUS LT270	●	
	ETERNUS LT40	●	
	ETERNUS LT60	●	
	FibreCAT TX08	●	
	FibreCAT TX24	●	
	FibreCAT TX24 S2	●	
	FibreCAT TX48	●	
	FibreCAT TX48 S2	●	
	Scalar 100	●	

Hitachi	L18/500	•	
	L20	•	
	L40	•	
	L80	•	
HPE	EML E-Series	•	
	EML E-Series 103e	•	
	EML E-Series 245e	•	
	EML E-Series 71e	•	
	ESL 9322L1	•	
	ESL E-Series	•	
	ESL E-Series 322e	•	
	ESL E-Series 712e	•	
	MSL2024	•	
	MSL4048	•	
	MSL5026DLX	•	
	MSL5026S2	•	
	MSL5030L1	•	
	MSL5052S2	•	
	MSL5052SL	•	
	MSL5060L1	•	
	MSL6000 Series	•	
	MSL6030L2	•	
	MSL6060L2	•	
	MSL8096	•	
	SSL1016DLX	•	
	SSL1016L1	•	
	SSL1016L2	•	
	SSL1016S2	•	
IBM	33614LX	•	
	33622LX	•	
	4560 SLX	•	
	Magstar 3590 Model E11	•	
	System Storage TS3100	•	
	System Storage TS3200	•	
	System Storage TS3310	•	
	System Storage TS3500	•	
	TotalStorage 3581	•	
	TotalStorage 3582	•	
NEC	IStorage T180	•	
	IStorage T700	•	
	T100A	•	
	T40A	•	
	T40A2	•	
	T700A	•	
Overland Storage	ARCvault series	•	
	NEO 2005	•	
	NEO 4005	•	
	NEO 8000	•	
	NEO series	•	
Quantum	M1500	•	
	M1800	•	
	M2500	•	
	P2000	•	
	P3000	•	
	P4000	•	
	P6000	•	
	P7000	•	
	PX500 Series	•	
	PX720	•	
	Scalar 50	•	
	Scalar i40	•	
	Scalar i80	•	

	Scalar 1500	●	
	Scalar 12000	●	
	Scalar 16000	●	
	SuperLoader 3	●	
Quantum / ADIC	Scalar 24	●	
	Scalar 12000	●	
	Scalar 1500	●	
Sony	CSM100 PetaSite	●	
	CSM200 PetaSite	●	
	CSM60 PetaSite	●	
Spectra Logic	Spectra 10K BullFrog	●	
	Spectra 12K Gator	●	
	Spectra 2K TreeFrog	●	
	Spectra T120 Python	●	
	Spectra T200 Python	●	
	Spectra T380 Python	●	
	Spectra T50 Python	●	
	Spectra T680 Python	●	
	Spectra T950 Python	●	
Oracle / Sun	StorageTek L1400	●	
	StorageTek L180	●	
	StorageTek L20	●	
	StorageTek L40	●	
	StorageTek L700	●	
	StorageTek L700e	●	
	StorageTek L80	●	
	StorageTek SL500	●	
	StorEdge C4	●	
	StorEdge L500	●	
Tandberg Data	M1500	●	
	M2500	●	
	StorageLibrary T24	●	
	StorageLibrary T40	●	
	StorageLibrary T48	●	
	StorageLoader 2U LTO	●	

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## Virtual Tape Library (VTL) Interoperability

		Support	Remarks
FalconStor	VirtualTape Library	●	
Fujitsu	CentricStor	●	
	ETERNUS CS series	●	
	ETERNUS VT600	●	
Hitachi	Sepaton	●	
	VF100 series	●	
HPE	StorageWorks D2D100 Backup System	●	
	StorageWorks D2D4004 Backup System	●	
	StorageWorks D2D4000 Backup System	●	
	StorageWorks D2D4100 Backup System	●	
	VLS 1000l	●	
	VLS 12000 EVA Gateway	●	

	VLS 300 EVA Gateway	●	
	VLS 6000 series	●	
	VLS 9000 series	●	
IBM	System Storage TS7650G ProtecTIER	●	
	TotalStorage Virtual Tape Server (VTS)	●	
	Virtualization Engine TS7510	●	
	Virtualization Engine TS7520	●	
	Virtualization Engine TS7530	●	
NEC	T5000VT series	●	
NetApp	NearStore Virtual Tape Library VTL1200, VTL1400, VTL300, VTL600, VTL700	●	
	Securitus-1	●	
Oracle / Sun	StorageTek Virtual Tape Library VTL1280, VTL2280, VTL2380, VTL3280, VTL3380	●	
	StorageTek VSM Open Virtual Tape Library (VTL)	●	
	StorageTek VTL Plus VTL1140, VTL 2540, VTL3540	●	
	StorageTek VTL Plus VTL1200, VTL1202, VTL2600, VTL3600	●	
	StorageTek VTL Prime VTL4302R, VTL3205R, VTL4310R, VTL4320C, VTL4329C, VTL4365C	●	
Overland Storage	REO 1000	●	
	REO Series	●	
Quantum	DX100	●	
	DX30	●	
	DX3000	●	
	DX5000	●	
	DX13500, DX15500	●	
	DX17500	●	
Quantum / ADIC	Pathlight VX	●	

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### Network Interface Card (NIC) / SmartNIC / Converged Network Adapter (CNA) / iSCSI Host Bus Adapter Interoperability

		Support	Remarks
ATTO	Celerity FC-32xx Series	●	
	Celerity FC-16xx Series	●	
	Celerity FC-8xxx Series	●	
	FastFrame NSxx Series	●	
	FastFrame NTxx Series	●	
	FastFrame CS14	●	
Broadcom	NetXtreme 57xx	●	
	NetXtreme II 1G 57xx	●	
	NetXtreme II 10G 57xx	●	
	NetLink 57xx	●	
	NetLink 44xx	●	
Broadcom / Avago / Emulex	OCe14104-NX	●	
	OCe11102-NM	●	
	OCe11102-NX	●	
	OCe10102-NM	●	
	OCe10102-NX	●	
IBM	Virtual Fabric Adapter II for IBM BladeCenter	●	
	Virtual Fabric Adapter II for IBM System x	●	
	PCIe 2.0 10GbE Network Adapter for IBM Power 710, 720, 730 and 740	●	

Marvell / Cavium / QLogic	QLE83xx	●	
	QLE82xx	●	
	QLE81xx	●	
	QLE405x	●	
	QLE406x	●	
Nvidia / Mellanox	BlueField	●	
	ConnectX	●	

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### Fiber Channel Host Bus Adapter (HBA) Interoperability

		Support	Remarks
Broadcom / Avago / Emulex	LP8000, LP8000S	●	
	LP9002E, LP9002L, LP9002S, LP9002DC, LP9002DC-E, LP9002L-E	●	
	LP9402DC	●	
	LP9802	●	
	LP10000, 10000DC	●	
	LPe11xxx / 115x series	●	
	LPe12xxx series	●	
	LPe16xxx series	●	
	OCe11102-NX, OCe11102-F, OCe11102-I	●	
Broadcom / Avago / LSI	40919	●	
	44929	●	
Fujitsu	GP7B8FC1	●	
	PW008FC2/PW008FC3	●	
IBM	6227	●	
	6228	●	
	6239	●	
	1977/5716	●	
	1905/5758/5761	●	
	1910/5759	●	
Marvell / Cavium / QLogic	QCP 2332	●	
	QLA2200, QLA2202	●	
	QLA2300, QLA2302, QLA2310	●	
	QLA2340, QLA2342, QLA2344	●	
	QLA2460, QLA2462	●	
	QLE2560, QLE2562	●	
	QLE2670, QLE2672	●	
	QLA4010C	●	
	QSB 2340	●	
Oracle / Sun	X6729A	●	
	X6748A	●	
	X6757A	●	
	X6767A, SG-XPCL1FC-QF2	●	
	X6768A, SG-XPCL2FC-QF2	●	
	SG-XPCL1FC-QL2, SG-XPCL2FC-QL2	●	
	X6799A	●	
	SG-XPCL1FC-EM2, SG-XPCL2FC-EM2	●	

	SG-XPCE1FC-EM4, SG-XPCE2FC-EM4	●	
	SG-XPCE1FC-JF2, SG-XPCE2FC-JF2	●	
	SG-XPCE1FC-QF4, SG-XPCE2FC-QF4	●	
	SG-XPCE1FC-QF4, SG-XPCE2FC-QF4	●	
	SG-XPCE2FC-QF4	●	

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## Ethernet Switch Interoperability

		Support	Remarks
Broadcom / Brocade	VDX 67xx series	●	
	FCX Series	●	
	8000 Series	●	
Celestica	Seastone2 DX030	●	
	Seastone DX010	●	
Cisco	Catalyst 2960x series	●	
	Catalyst 6500 series	●	
	Catalyst 4900 series	●	
	MDS 9100 Series	●	
	MDS 9200 Series	●	
	MDS 9500 Series	●	
	Nexus 1000V Series	●	
	Nexus 2000 Series	●	
	Nexus 3000 Series	●	
	Nexus 5000 Series	●	
Nexus 7000 Series	●		
Dell	Z-series	●	
	E-series	●	
	C-series	●	
	S-series	●	
HPE	12500 series	●	
	5900 series	●	
	58xx series	●	
	10500 series	●	
	7500 series	●	
	5500 series	●	
	2900 series	●	
	26xx series	●	
	25xx series	●	
	19xx series	●	
18xx series	●		
IBM	b-type series	●	
	j-type series	●	
Juniper	EX2xxx series	●	
	EX3xxx series	●	
	EX4xxx series	●	
	EX6xxx series	●	
	EX8xxx series	●	

Legend:

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## Fiber Channel SAN Switch Interoperability

		Support	Remarks
Broadcom / Brocade	SilkWorm 2000 Series	●	
	SilkWorm 3000 Series	●	
	SilkWorm 12000 Series	●	
	SilkWorm 24000 Series	●	
	SilkWorm 48000 Series	●	
	200E, 4100, 4900, 5000	●	
	M4400	●	
	M4700	●	
	Mi10k, M6140	●	
	300 Series	●	
	5000 Series	●	
	6000 Series	●	
	8000 Series	●	
Broadcom / Brocade / INRANGE	FC 9000/64, FC 9000/128	●	
Broadcom / Brocade / McData	Intrepid 6064	●	
	Intrepid 6140	●	
	Sphereon 3016, 3032, 5000	●	
	Sphereon 3216, 3232, 4400, 4500, 4700	●	
Cisco	MDS 9140	●	
	MDS 9216 & MDS 9500 Series	●	
	Nexus 5000 Series	●	
	Nexus 7000 Series	●	
Fujitsu	ETERNUS SN200	●	
HPE	SAN Switch 4/32	●	
IBM	2109-So8, S16	●	
	2109-F08, F16	●	
	2109-M12	●	
	2109-M14	●	
	TotalStorage SAN24M1	●	
Marvell / Cavium / QLogic	SANbox 2-16	●	
	SANbox2-64	●	
	SANbox 1400	●	
	SANbox 5200	●	
	SANbox 5600 Series	●	
	SANbox 9000 Series	●	

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## Storage Management Software Interoperability



		Support	Remarks
HPE	Data Protector	●	
IBM	Tivoli Storage Manager	●	
	Tivoli Storage Manager for Storage Area Network	●	
Micro Focus / Novell	Storage Manager	●	
Oracle / Sun	Sun QFS	●	
Veritas / Symantec	Storage Foundation	●	
	Storage Foundation Manager	●	
	Storage Foundation for Oracle RAC	●	

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### Hardware Security Module Interoperability

		Support	Remarks
Entrust / nCipher	nShield	●	
	nShield-as-a-Service (nSaaS)	●	
Futurex	VirtuCrypt	●	
IBM	4758 Cryptographic CoProcessor	●	
	eServer Cryptographic Accelerator	●	
	Crypto Express2	●	
	CP Assist for Cryptographic Function	●	
Marvell / Cavium	LiquidSecurity HSM	●	
Oracle / Sun	Sun Crypto Accelerator (SCA)	●	
Thales	Gemalto SafeNet Luna Network HSM	●	
	Gemalto SafeNet ProtectServer Network HSM	●	
	payShield	●	
Ultra Electronics	Ultra Electronics Keyper (formerly AEP Keyper)	●	
Utlimaco	CryptoServer	●	

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### OASIS KMIP Key Manager Interoperability

		Support	Remarks
Entrust	KeyControl (formerly HyTrust)	●	
HashiCorp	Vault	●	
IBM	Security Key Lifecycle Manager (SKLM) (formerly Tivoli Key Lifecycle Manager (TKLM))	●	
Thales	CipherTrust	●	
	Gemalto SafeNet KeySecure	●	
	keyAuthority (formerly nCipher keyAuthority)	●	
	Vormetric Data Security Manager (DSM)	●	

Utimaco	Enterprise Secure Key Manager (ESKM) (formerly HP/HPE/Micro Focus Atalla ESKM)	●	
	SecurityServer	●	

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### Vendor Proprietary Key Manager Interoperability

		Support	Remarks
Amazon	CloudHSM	●	
	Key Management Service (KMS)	●	
Bloombase	KeyCastle	●	
Equinix	SmartKey	●	
IBM	IBM Cloud Key Protect	●	
Google	Cloud HSM	●	
	Key Management Service (KMS)	●	
Microsoft	Azure Dedicated HSM	●	
	Azure Key Vault	●	
Oracle	Oracle Cloud Infrastructure Vault (OCI Vault)	●	

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