

storfirst migration



Compatibility Guide Storfirst Migration Version 4.9 Q1 2015



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Server Requirements

Platforms

- Physical Windows Server or VMware ESXi Server Host
- VMware Supported Versions: ESXi 4.0 through 5.5

Operating Systems - Dedicated Windows Server O/S¹

- Windows Server 2012 R2
- Windows Server 2012
- Windows Server 2008 R2

CPU

- Speed: 2.0+ GHz server class CPU
- Cores
 - Minimum: 4 cores
 - Recommended: 8 cores²

Memory

- Capacity: Minimum 8GB, Recommended 16GB

Disk

- Capacity: 1TB of free disk space³
- Speed⁴:
 - Minimum: 10K RPM SATA/SAS (4 Gbps fibre channel / 3 Gbps direct attached SAS)
 - Recommended: 15K RPM SAS (8 Gbps fibre channel / 6 Gbps direct attached SAS)
 - Best: Enterprise Flash (8 Gbps fibre channel / 6 Gbps direct attached SAS)
- Disk Contents: The installation directory includes:
 - Storfirst Database (1 GB initial space. Add 1GB per 1 million files and directories added to the Storfirst Migration file system)
 - Storfirst Cache (Configurable from 5GB to 2TB)
 - Software, System Logs and Job Logs

Network:

- Minimum 2 x GigE Network LAN ports

Power:

- Fully Redundant Power Supply

¹ Dedicated is defined as no other applications are installed on the Windows O/S.

² Highly recommended if Encryption at REST is enabled for any volumes.

³ Actual minimum requirements are much less. The 1 TB number is scaled to fit a 500 GB cache and 500 million file system entries.

⁴ Installations inventorying or migrating/replicating large numbers of files (high 10's to 100's of millions of files or more) should use Flash or Hybrid Flash disk for Storfirst *database* storage to significantly enhance inventory and replication/migration performance.

Server Operating System Support

Vendor	Operating System
Microsoft	Windows 2012 R2
Microsoft	Windows 2012
Microsoft	Windows 2008 R2

File System Protocol Support

Connection Type	Version
CIFS/SMB	3.0 and below ⁵
NFS	3.0
HTTP ⁶	N/A
FTP	IIS 7.x
WebDAV	N/A

⁵ SMB versions are negotiated by clients. Please see your client's maximum supported version.

⁶ Read-only browser-based interface.

NFS Client Support

O/S	Version
Oracle Solaris	10
Ubuntu	12.4, 13.4
Fedora	15, 17
Microsoft Windows	Server 2008 R2, Server 2012, Server 2012 R2

NOTE: The above clients have been used to test and validate the Storfirst Migration V3 NFS implementation. Clients not listed may work but have not been tested. In general, because NFS is an open standard, any NFS V3 client should work. However, Seven10 has seen that client implementations can vary.

Disk / DAS

Vendor	Connection Type
Any	Fibre Channel
Any	SCSI
Any	iSCSI
Any	SATA
Any	SAS
Any	Flash

NOTE: The disk device must be seen as a SCSI device by the Microsoft Windows Registry and an uninitialized/unallocated disk LUN by the Microsoft Windows Disk Manager. Do NOT initialize disks using Disk Manager.

EMC Centera

Vendor	Device	SDK	CentraStar
EMC	Centera	V3.3	EMC is responsible for certification between the Centera SDK and CentraStar. Therefore, Storfirst Migration supports any CentraStar version supported by the Centera SDK v3.3.

Cloud Storage Systems

Vendor	Product	Cloud API Version
Amazon	Amazon Web Services (AWS) – Simple Storage Service (S3)	Current
EMC	Atmos REST	2.0 – 2.2 ⁷
EMC	Atmos CAS	2.0 or later
EMC	ViPR Object Data Services – Atmos REST	1.1 or later
EMC	ViPR Object Data Services – S3	1.1 or later ⁸
EMC	ECS	See ViPR API versions for ECS access methods
HDS	Hitachi Content Platform (HCP)	6.0 or later
HDS	Hitachi Cloud Service for Content Archiving (HCS-CA)	6.0 or later
AT&T	Synaptic Cloud Storage as a Service (STaaS)	2.0 or later
HP	HP Cloud Object Storage	Identity v2.0
OpenStack	OpenStack Object Storage	Identity v2.0
SwiftStack	S3 API	Identity v1.0
Cleversafe	Object Storage	Current Error! Bookmark not defined.
Amplidata	Himilaya	Current Error! Bookmark not defined.
Quantum	Lattice – S3 API	Current Error! Bookmark not defined.
Rackspace	Rackspace Cloud Files	Identity v1.0
NetApp	NetApp StorageGRID	9.0
Iron Mountain	Iron Mountain Medical Image Archive	9.0
Dell	Cloud Clinical Archive (DCCA)	7.2.2.4

⁷ Atmos Version 2.2 is required for Multi-RMG Failover Support

⁸ ViPR Object Data Services uses Signature Version 2

NOTE: Storfirst Migration also supports service providers that utilize the underlying technologies above. If you do not see your cloud listed, please contact Seven10.

NAS / File Systems

Vendor	Product	File System or Protocol
Microsoft	Windows	NTFS, ReFS
EMC	Isilon	NFS / CIFS / SMB
EMC	VNX	NFS / CIFS / SMB
EMC	Data Domain	CIFS / SMB
EMC	Centera Universal Access (CUA)	NFS / CIFS / SMB
EMC	DiskXtender	CIFS / SMB
NetApp	Data ONTAP	NFS / CIFS / SMB
HP	StoreEasy	CIFS / SMB
HP	StoreAll Gateway	NFS / CIFS / SMB
HP	3PAR StorServ File Services	NFS / CIFS / SMB
FAST LTA	Silent Cube	NFS / CIFS / SMB

NOTE: Storfirst Migration supports NAS/DAS as a TARGET storage repository. NAS/DAS is ONLY supported as a SOURCE (CIFS, SMB or NFS) when doing a migration from an existing file system. Storfirst Migration does not integrate with any NAS APIs.

NOTE: Files can now be seamlessly migrated from EMC CUA, EMC CFA and EMC DiskXtender to Storfirst Migration. Please contact sales@seven10storage.com for more information.

NOTE: Seven10 does not generally certify NAS platforms due to the fact that they operate on standard protocols. However, please contact sales@seven10storage.com for more information on platforms which are not on this list.

Object Stores (SCSP)

Vendor	Device	SDK	CAStor Version
Dell	DX6000	1.1	4.x, 5.0
Caringo	CAStor	6.1	4.x, 5.0, 5.1
Caringo	Swarm	6.1	7.0+

NOTE: SCSP stands for Simple Content Storage Protocol

Tape Drives

Vendor	Device
Exabyte	Mammoth 2
HP	LTO-1 / 2 / 3 / 4 / 5 / 6
IBM	LTO-1 / 2 / 3 / 4 / 5 / 6
IBM	3590
IBM	3592 / TS1120 / TS1130 / TS1140
Quantum	LTO-2 / 3 / 4 / 5 / 6
Quantum	DLT4000 / DLT7000 / DLT8000
Quantum	DLT-S4
Quantum	SDLT320
Sony	AIT 1 / AIT 2 / AIT 3 / AIT 4 / AIT 5
Sony	DTF 8240
SUN / STK	T9840
SUN / STK	T9940
SUN / STK	T10000
Tandberg	LTO-2 / 3 / 4 / 5 / 6

Physical / Virtual Tape Libraries

Vendor	Device
BDT	BDT FlexStor II
Bull	StoreWayVirtuo Series
Dell	PowerVault 124T
Dell	PowerVault 128T
Dell	PowerVault 132T
Dell	PowerVault 136T
Dell	PowerVault TL2000 / TL4000
Dell	PowerVault ML6000 Series
EMC	Disk Library Series
Exabyte	EXB-210 / EXB-220
Exabyte	X80 / X200
FalconStor	Virtual Tape Library Series
Fujitsu	ETERNUS LT20 / LT40 / LT60
Fujitsu	ETERNUS LT210 / LT220
Fujitsu	ETERNUS LT230
Fujitsu	ETERNUS LT250
Fujitsu	ETERNUS LT270
Fujitsu	ETERNUS CS
HP	1/8 G2 Tape Autoloader
HP	MSL2024 / 4048 /8048/8096
HP	MSL 5000 Series

Vendor	Device
HP	MSL 6000 Series
HP	MSL6480
HP	ESL E-series
HP	ESL G3
HP	EML E-series
HP	6000 VLS / 9000 VLS / 12000 VLS
IBM	TS2900
IBM	TS3100 / TS3200
IBM	3583
IBM	TS3310
IBM	TS3400
IBM	TS3500 / 3584
IBM	TS7520 / TS7530 / TS7700
NEC	LL009F
NEC	T16A
NEC	T16A2
NEC	T40A
NEC	T40A2
Overland	ARCvault 12 / 24 / 48
Overland	NEO 2000 / 4100 / 4200 / 8000
Overland	NEO E-SERIES
Overland	REO SERIES
PivotStor	TL2000 / TL4000 / TL8000

Vendor	Device
Qualstar	TLS 4000 / TLS 6000 / TLS 8000
Quantum	SuperLoader 3
Quantum	Scalar 24
Quantum	Scalar 50
Quantum	Scalar 100
Quantum	Scalar 1000
Quantum	Scalar i40
Quantum	Scalar i80
Quantum	Scalar i500
Quantum	Scalar i2000
Quantum	Scalar i6000
Quantum	Scalar 10K
Quantum	PX500 Series
Quantum	PX720
Quantum	DXi Series
SEPATON	S2100 Series
Sony	LIB-81 / LIB-162
Sony	DMS-8400 / B150L / B80L
SpectraLogic	2K
SpectraLogic	12K
SpectraLogic	20K
SpectraLogic	64K
SpectraLogic	T24

Vendor	Device
SpectraLogic	T50e
SpectraLogic	T120
SpectraLogic	T200 / T380 / T680
SpectraLogic	T950
SpectraLogic	T-Finity
SUN / STK	SL24 / SL48
SUN / STK	L20 / L40 / L80 / L180 / L700
SUN / STK	SL500
SUN / STK	SL3000
SUN / STK	SL8500
SUN / STK	9730 / 9738
SUN / STK	ACSL5

NOTE: If your preferred library, drive, VTL or OEM derivative is not shown in this list, please send an email to support@seven10storage.com or sales@seven10storage.com.

NOTE: The above drives and libraries are supported in Fibre Channel, SCSI, iSCSI, SAS, SATA, or ACSLS configurations only.

NOTE: Storfirst Migration uses its own device drivers for the libraries and drives. Please DO NOT load the vendor drivers for libraries and drives used with Storfirst Migration.