

FlexLine™ V-Series Storage Systems

Shared Virtual Array® Disk Systems



Key benefits

Reduce costs and improve efficiency

Reduce your TCO with one of the most effective and efficient solutions available for storing, protecting and managing your data. Make copies and backup quickly with up to 60 percent less physical storage requirements than with traditional storage solutions.

Use every byte

The SVA disk system is an example of storage efficiency. Use 100 percent of available storage in most cases — eliminate waste and do more with less storage capacity.

Simplify IT

Automatic macro-management provides low-touch storage for today's complex environments. Intelligent self-tuning, automatic media management and disruption-free configuration save time, effort and resources.

Be safe, be fast

Copy and recover data sets and volumes in seconds with SnapShot software — you obtain increased data protection and business continuity without doubling or tripling disk expenditures.

Reduce downtime

Mirror and move data transparently with StorageTek Peer-to-Peer Remote Copy (PPRC) technology, a suite of high-performance, business continuity tools.

Gain hours of availability

Add Shared Virtual Array disk systems for FlexLine V-Series storage systems and gain hours of additional application availability.

Accelerate time to market

Reduce application development cycles with instant resets and concurrent testing, using snapshot copies.



Shared Virtual Array® disk systems for FlexLine™ V-Series storage systems

When you invest in conventional disk storage systems, you typically use only 30 percent to 60 percent of available capacity. StorageTek Shared Virtual Array® (SVA™) disk systems for FlexLine™ V-Series storage systems use every byte — 100 percent — of available disk capacity, in most cases. Your storage dollars are invested in usable storage, not dead space.

Less is more

With their low capacity utilization rates and your ever-changing application environments, conventional disk systems force you to purchase more capacity than you need to meet your business requirements. This puts additional strain on time, budgets and resources by forcing you to manage more when you need to manage less. StorageTek SVA disk systems keep things simple with powerful data management capabilities that accelerate performance across the enterprise while simplifying data management. Built-in intelligence handles self-tuning, automatic media management and disruption-free configuration changes, so existing IT resources can handle increasing workloads and data growth. Combine SVA disk technology with the unique Virtual Power Suite™ software for FlexLine V-Series storage systems and you can copy, move and protect data with ultimate efficiency, less effort and greater reliability. That can equate to eliminating thousands of I/Os per second over conventional disk technology.

With its advanced virtual technology and near instant capacity-less SnapShot software, the SVA brings unmatched efficiency into the enterprise environment not achievable by other conventional disk storage systems. StorageTek V-Series SVA is one of the most effective solutions for storing, protecting and managing enterprise data and reducing operational costs (TCO).

Dynamic storage

With the dynamic storage capabilities of SVA disk systems and practical storage solutions like PPRC SnapShot software, you can instantly copy any volume or LUN data set to make an almost unlimited number of file copies. It happens non-disruptively, so you potentially gain hours of availability for key applications every day and use no physical storage resources in the process. Other solutions from StorageTek® can further simplify your storage strategy. High-Speed Data Mover (HSDM) software can backup and restore your data up to 50 percent faster than traditional alternatives — and saves on WAN costs. Another example, SnapVantage™ software, a component of the Virtual Power Suite™ software, gives you the ability to deploy hundreds of virtual Linux servers in VM environments in minutes and manage them with an easy-to-use interface designed for non-technical personnel.



Services

Baseline Implementation Services

Sun's Implementation Services assist you in achieving the full benefit of your storage investments — right from the start. The Baseline Implementation Services offering for Shared Virtual Array disk systems includes knowledge transfer to your organization. The service consists of installation and configuration of SVA Administrator software and the configuration of logical volumes on the SVA disk system. In addition, the service includes design validation, documentation and project management.

In addition to Baseline Implementation Services, Sun offers two tiers of higher-level consulting services for organizations whose implementation needs go beyond the baseline level. To learn more, ask your Sun representative about Value Plus Implementation Services and Custom Implementation Services, or visit www.sun.com/storagetek.

FlexLine™ V-Series storage systems specifications

	V2X2	V2X4f
Capacity		
Usable capacity	Up to 11.6 TB	Up to 23.2 TB
Device images supported	4096 – 3380 J/E/K and/or 3390 1/2/3/Flexvolumes or 1635 – 3390-9	4096 – 3380 J/E/K and/or 3390 1/2/3/Flexvolumes or 2730 – 3390-9 or 834 – 3390-27
LUN sizes supported	2.6 GB with increments of 2.6 GB; 7.4 GB with increments of 7.4 GB; 2.0 TB (single LUN)	2.6 GB with increments of 2.6 GB; 7.4 GB with increments of 7.4 GB; 2.0 TB (single LUN)
Effective user cache capacity	Up to 96 GB	Up to 96 GB
Drive capacity	73 GB, 15,000 RPM Fibre Channel	73 GB, 15,000 RPM Fibre Channel or 146 GB, 15,000 RPM Fibre Channel
Connectivity		
FICON ports		4–16 ports, in increments of 2 or 4
FICON logical paths		2,048 (128 per logical control unit, 256 per FICON port)
ESCON ports	4–32 ports, increments of 2 or 4	
ESCON logical paths	8,192 (512 per logical control unit)	
Fibre Channel ports	4–16 ports, in increments of 2 or 4	
ESCON/Fibre Channel mixed ports	Minimum 4 ESCON ports and 2 Fibre Channel port to max of 28 ports, in increments of: 2 or 4 ESCON ports, 2 or 4 Fibre Channel ports.	
Management		
Storage management software	Virtual Power Suite including SVA Administrator, SVA NMP monitor, SVA Console and SnapVantage software	Virtual Power Suite including SVA Administrator, SVA Console and SnapVantage software
Data replication and copy	SnapShot, PowerPPRC and PPRC SnapShot copy software and remote mirroring software	SnapShot, PowerPPRC and PPRC SnapShot copy software and remote mirroring software
Backup and migration	High Speed Data Mover and Transparent Data Migration Facility software	High Speed Data Mover and Transparent Data Migration Facility software
Performance and availability	SVA Path software	PAV (static and dynamic)
Operating systems support		
Mainframe	OS/390; z/OS; MVS/ESA (ESA support is limited); VM/ESA (ESA support is limited); z/VM	OS/390; z/OS; MVS/ESA (ESA support is limited); VM/ESA (ESA support is limited); z/VM
Open systems	Solaris, AIX, HP-UX, Linux Red Hat, Windows 2000, Windows Server 2003	
Mechanical		
Height	61.0 in (155.0 cm)	61.0 in (155.0 cm)
Depth	30.0 in (77.0 cm)	30.0 in (77.0 cm)
Width	36.0 in (92.0 cm)	36.0 in (92.0 cm)
Weight	982.0 lb (445.0 kg)	982.0 lb (445.0 kg)
Service clearance	Front and rear: 21.3 in (54.1 cm) Side: 2.5 in (6.4 cm)	Front and rear: 21.3 in (54.1 cm) Side: 2.5 in (6.4 cm)
Environmental		
Relative humidity	20% to 80%	20% to 80%
Temperature (operating)	+60° to +90° F (+16° to +32° C)	+60° to +90° F (+16° to +32° C)
Power	KVA 2.6 minimum, 3.8 maximum (dual line cord)	KVA 2.6 minimum, 3.8 maximum (dual line cord)
Voltage	200–240 VAC	200–240 VAC
Frequency	50–60 Hz	50–60 Hz
Circuit breaker	30 Amps	30 Amps
KBTU per hour	8.6 minimum, 12.4 maximum (dual line cord)	8.6 minimum, 12.4 maximum (dual line cord)
Regulatory compliance		
Electromagnetic compatibility	FCC (47 CFR 15, Subpart B) Class ACE (EN55022 Class A, EN55024, EN61000-3-2, EN61000-3-3) VCCI (CISPR 22) Class A Canada (ICES-003) Class A	FCC (47 CFR 15, Subpart B) Class ACE (EN55022 Class A, EN55024, EN61000-3-2, EN61000-3-3) VCCI (CISPR 22) Class A Canada (ICES-003) Class A
Safety	UL 1950; CAN/CSA 22.2 No. 950; EN60950	UL 1950; CAN/CSA 22.2 No. 950; EN60950

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