



Infortrend ESVA™ Series

Enterprise Scalable Virtualized Architecture



Highlights

Optimized ROI

Ensures the most efficient allocation of consolidated capacity and computing power

Simplified Infrastructure

Enables a single point of administration and online scaling

Maximized Productivity

Supports the highest data availability and quick service restart after storage accidents

With business growth comes increased demand for storage capacity and performance. Moreover, there is always the potential for accidents, such as human errors, hardware malfunction and disasters threatening data integrity and availability. Finding ways to effectively store and protect vital applications and data becomes essential for companies. However, in today's economic environment, the task can be challenging. Equipped with comprehensive data services, ESVA helps you deal with your storage challenges in the most cost-effective way. ESVA's unique modular design allows you to “pay as you grow”, to help lower your operating costs without sacrificing the storage capacity and performance you need.

All ESVA systems come with a 3-year standard hardware warranty and 3-year free software update. Included in the warranty period are advanced FRU next business day dispatch, and 3 years of 24x7 phone and web technical support at no additional cost. Infortrend partner service providers are available to deliver Advanced and Premium services, which include next business day or 4-hour onsite diagnostics service for mission-critical applications. To properly protect your long-term investments on IT equipment, extended warranty and RMA services are also available.



Optimized Return on Investment

With storage virtualization technology, the capacity and computing power of multiple ESVA systems can be consolidated into a storage pool. For the most efficient utilization of pooled storage capacity, ESVA arrays support thin-provisioning on its virtual architecture. Just-in-time capacity is dynamically allocated to applications when data is written. ESVA also helps reduce companies' TCO by minimizing the space, power and cooling expenses wasted on the large and underutilized data volumes commonly seen in traditional storage environments. Besides capacity, ESVA also ensures efficient utilization of bandwidth.

Knowing that all applications are not created equal, Infotrend designed ESVA with an intelligent access prioritizing mechanism. This mechanism ensures that all applications connecting to the same storage pool can achieve their ideal service levels. Combined with its energy-efficient design, ESVA's advanced technologies enable to make you the most of your storage investment.

Simplified Storage Infrastructure

ESVA simplifies storage management by enabling a single point of administration. Scaling the ESVA storage pool is also a very easy task. Expansion enclosures can be connected to the ESVA system for increased capacity. If you want to increase capacity and promote performance at the same time, you can scale out the virtualized foundation

by adding additional ESVA systems. All scaling and configuration tasks can be done online.

When a new system is added, the distributed load balancing technology will dynamically balance workloads among storage systems for increased processing power. Power is increased with capacity expansion, allowing it to handle even the most demanding high-performance applications. If you remove a system from the pool, the load-balancing technology will also automatically migrate data to maintain the optimized performance without disrupting service.

Maximized Application Productivity

In the competitive business world, downtime can lead to profit loss, damage a corporation's reputation and threaten business continuity. With the revolutionary ESVA architecture, downtime for storage scaling is eliminated.

ESVA also includes storage-based replication capabilities. Space-efficient snapshots can serve as granular recovery points, based on which files can be restored and data can be rolled back. As to full data copies created within or across storage pool(s), they can be readily leveraged by host applications to resume production when the original data is corrupt. By strategically deploying snapshot images and full data copies, you can achieve the highest data availability with a minimum service downtime in the event that the storage is damaged by logical errors, physical errors or disasters.



ESVA-F20



ESVA-F40



ESVA-F60



ESVA-E20



ESVA-E60

Hardware Configurations

Starting Capacity	16TB	1.8TB	2.4 or 4.8TB	16TB	2.4 or 4.8TB
Drive	16 – 7,200 RPM 3.5" SATA drives	12 – 10,000 RPM 2.5" SAS drives	16 – 15,000 RPM 3.5" SAS drives	16 – 7,200 RPM 3.5" SATA drives	16 – 15,000 RPM 3.5" SAS drives
Max. Capacity (via JBOD)	112TB	7TB	16.5 or 33.6TB	64TB	9.4 or 19.2TB
Max. Capacity (via scale-out)	1344TB	84TB	403TB	768TB	230TB
Max. Drive (via JBOD)	112	48	112	64	64
Max. Drive (via scale-out)	1344	576	1344	768	768
Expansion Enclosure (JBOD)	ESVA-J20-130 (16 – 3.5" SATA drives, totaling 16TB)	ESVA-J40-120 (12 – 2.5" SAS drives, totaling 1.8TB)	ESVA-J60-130 (16 – 3.5" SAS drives, totaling 2.4 or 4.8TB)	ESVA-J20-130 (16 – 3.5" SATA drives, totaling 16TB)	ESVA-J60-130 (16 – 3.5" SAS drives, totaling 2.4 or 4.8TB)
Host Ports	Four (4) 8Gb/s FC ports	Four (4) 4Gb/s FC ports	Four (4) 8Gb/s FC ports	Eight (8) 1Gb/s iSCSI ports	Eight (8) 1Gb/s iSCSI ports
Cache Memory	8GB	4GB	8GB	4GB	4GB
Form Factor	3U	1U	3U	3U	3U

Data Services

Enterprise Scalable Virtualized Architecture	Linear scaling of performance and capacity; Storage Pooling; Thin-provisioning; Automatic Data Migration; Prioritized Volume Accessibility; Distributed Load Balance
Data Protection	Quick Recovery; Snapshot; Volume Copy/Volume Mirror; Continuous Data Protection (CDP); Remote Replication ¹
Green	Energy efficiency power supplies; dynamic cooling mechanism; smart drive spin-down
Availability and Reliability	Redundant, hot-swappable hardware modules; CacheSafe ² technology; Multi-pathing support (EonPath); Device mapper support
Notification	Email, Fax, LAN broadcast, SNMP traps, SMS, MS
Management	SANWatch management suite; Terminal via RS-232C
OS Support	Windows Server 2003, Windows Server 2008 (including Hyper-V) ³ , RedHat Enterprise Linux, SUSE Linux Enterprise, Sun Solaris, IBM AIX ³ , HP-UX ³ , VMware ³

Service and Support⁴

All ESVA systems are shipped with 3-year Standard Service.

Standard Service	Hardware warranty; replacement part dispatch on the next business day Software update; 24x7 phone, web and email support
Advanced Service¹	Standard Service + Onsite diagnostics on the next business day
Premium Service¹	Standard Service + Onsite diagnostics in 4 hours

¹ Optional

³ The date of fully tested support will be released on Infotrend website.

² Currently only on ESVA-F20 and ESVA-F60.

⁴ Service may vary by regions.

24x7 Global Support : <http://esva.infotrend.com/G-support/>



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