



# 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

<b>Starting Capacity</b>	16TB	1.8 or 3.6TB	2.4 or 4.8 or 7.2TB	16TB	2.4 or 4.8 or 7.2TB
<b>Drive</b>	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
<b>Max. Capacity (via JBOD)</b>	112TB	7 or 14.4TB	16.5 or 33.6 or 50.4TB	64TB	9.4 or 19.2 or 28.8TB
<b>Max. Capacity (via scale-out)</b>	1344TB	172.8TB	604.8TB	768TB	345.6TB
<b>Max. Drive (via JBOD)</b>	112	48	112	64	64
<b>Max. Drive (via scale-out)</b>	1344	576	1344	768	768
<b>Expansion Enclosure (JBOD)</b>	ESVA-J20-130 (16 – 3.5" SATA drives, totaling 16TB)	ESVA-J40-120 (12 – 2.5" SAS drives, totaling 1.8 or 3.6TB)	ESVA-J60-130 (16 – 3.5" SAS drives, totaling 2.4 or 4.8 or 7.2TB)	ESVA-J20-130 (16 – 3.5" SATA drives, totaling 16TB)	ESVA-J60-130 (16 – 3.5" SAS drives, totaling 2.4 or 4.8 or 7.2TB)
<b>Host Ports</b>	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
<b>Cache Memory</b>	8GB	4GB	8GB	4GB	4GB
<b>Form Factor</b>	3U	1U	3U	3U	3U

## Data Services

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

## Service and Support<sup>4</sup>

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

<b>Standard Service</b>	Hardware warranty; replacement part dispatch on the next business day Software update; 24x7 phone, web and email support
<b>Advanced Service<sup>1</sup></b>	<b>Standard Service</b> + Onsite diagnostics on the next business day
<b>Premium Service<sup>1</sup></b>	<b>Standard Service</b> + Onsite diagnostics in 4 hours

<sup>1</sup> Optional

<sup>3</sup> The date of fully tested support will be released on Infotrend website.

<sup>2</sup> Currently only on ESVA-F20 and ESVA-F60. <sup>4</sup> Service may vary by regions.

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



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