



## Infortrend ESVA™ Series

### **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



# Infortrend ESVA Series

**W**ith the ESVA™ Series, Infortrend is revolutionizing the landscape of mid-range enterprise storage solutions. You may have limited budget, staff and floor space. But it does not mean you have to compromise on your storage for mission-critical applications. Built upon Enterprise Scalable Virtualized Architecture, the powerful SAN solution can help you optimize returns of investment, simplify storage infrastructure and maximize application productivity. The Infortrend ESVA Series will make you surprised to learn that you can get so much out of so little.



## **The Challenge to Address: Rising Data Demands and Diminishing IT Budgets**

Data grow along with business rise and so does the importance of data. Finding ways to effectively store and protect data is essential for companies. However with limited budgets, the task is quite challenging. On the one hand, low storage utilization causes resource wastes. On the other, storage scaling inflicts great costs and service downtime. There are also various accidents, such as human errors, hardware malfunction and disasters, threatening data integrity and availability. The Infortrend ESVA Series is a leading-edge storage solution for mid-range enterprise Fibre Channel (FC) or iSCSI SAN. Its innovative architecture and comprehensive data services can help users deal with the storage challenges in a "budget-smart" way.

## **Enterprise-class Service, Flexible Upgrade Programs**

All ESVA subsystems provide 3-year standard hardware warranty and 3-year free software update. Within the warranty period, you can enjoy advanced FRU dispatch on Next Business Day. Moreover, the after-sale service Infortrend provides is unrivaled by the offerings of competitors. Along with the purchase of ESVA, you can get 3 years of 24x7 technical support through phone and web without additional costs. We also work with our worldwide partner service providers to deliver Advanced and Premium services. You can purchase next business day or 4-hour onsite diagnostics service for your mission-critical applications. To properly protect your long-term investment on IT equipments, extended warranty and RMA services are also available for choice. Infortrend owns time-proven prowess in developing storage products and providing technical service. By combining the prowess with the complete service program delivered by our worldwide service providers, we make sure that enterprise customers can trust their mission-critical applications to the ESVA subsystems.

## Optimize Returns of Investment



Through storage virtualization technology, the capacity and computing power of multiple ESVA storage systems can be consolidated into a storage pool. For the most efficient utilization of pooled storage capacity, ESVA arrays support thin-provisioning on its natively-virtual architecture. Just-in-time capacity is dynamically allocated to applications when data are written. It much reduces TCO by (1) minimizing the space, power and cooling expenses wasted on the large and underutilized data volumes commonly seen in traditional storage environment and (2) delaying additional storage purchases to make you leverage storage price declines. Besides capacity, the ESVA Series also ensures efficient utilization of bandwidth. Knowing that all applications are not created equal, Infortrend implements the ESVA with an intelligent access prioritizing mechanism. This mechanism allows all applications connecting to the same storage pool to achieve their ideal service levels. With ESVA, you can make every penny of your storage investments bring the greatest benefits for you.

## Simplify Storage Infrastructure



The storage pool the ESVA systems constitute greatly simplifies management because it presents a single point of administration. Scaling the ESVA storage pool is also a very easy task. To expand capacity, you can scale up the member ESVA subsystems with expansion enclosures. If you want to increase capacity and promote performance in one shot, you can also choose to scale out the virtualized foundation by adding additional ESVA arrays. All scaling and configuration tasks can be done online. When a new system is added, the distributed load balancing technology would dynamically balance workloads among member storage systems so that the processing power can linearly grow. The blazing power promoted several times greater along with capacity expansion can handle even the most performance-demanding applications. If you remove a system from the pool, the load-balancing technology would also automatically migrate data to maintain the optimized performance without disrupting service.

## Maximize Application Productivity



In the competitive business world, downtime means not only profit loss but can cause damages on corporate reputation and even end of business. The revolutionary architecture of the ESVA eliminates planned downtime for storage scaling. To support business continuity, it also comes with 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 the 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 are corrupt. By strategically deploying snapshot images and full data copies, you can enjoy the highest data availability and minimized service downtime whether the storage suffers from logical errors, physical errors or disasters.



# Technical Specifications

	ESVA-F20	ESVA-F40	ESVA-F60	ESVA-E20	ESVA-E60
<b>Hardware Configurations</b>					
System Capacity	16 to 112TB	1.8 to 7TB	2.4 to 16.5TB 4.8 to 33.6TB	16 to 64TB	2.4 to 9.4TB 4.8 to 19.2TB
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. Drive Expansion	112	48	112	64	64
Expansion Enclosure	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
<b>Data Services</b>					
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/Split Mirror; Continuous Data Protection (CDP); Remote Replication <sup>1</sup>				
<b>Green</b>	Power supplies providing high energy efficiency; 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>				
<b>Service and Support<sup>4</sup></b>					
Warranty	3-year hardware replacement and part dispatch on the next business day; 3-year software update				
Standard Service	24x7 support through phone call, web and email				
Advanced Service <sup>1</sup>	Onsite diagnostics on the next business day				
Premium Service <sup>1</sup>	Onsite diagnostics in 4 hours				

<sup>1</sup> Optional

<sup>2</sup> Currently only on ESVA-F20 and ESVA-F60.

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

<sup>4</sup> Service may vary by regions.



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