ESVA® Fibre Series

Enterprise Scalable Virtualized Architecture

Highlights

Optimized ROI

- Ensures the most efficient allocation of consolidated capacity and computing power through thin provisioning and an access prioritizing mechanism
- Meets wide array of service level requirements with automated storage tiering

Simplified Infrastructure

- Reduces management overhead with a single point of administration
- Enables as-needed scaling without disrupting service

Maximized Productivity

- Eliminates planned downtime for storage scaling
- Supports the highest data availability and quick service restart after storage accidents with local and remote replication capabilities
- Hybrid models F75-2830 and F75-2830L feature four iSCSI channels for cost-effective remote replication

Advanced Designs

- Achieves high fault-tolerant capability with High Availability (HA) modular design
- Protects cached data during a power outage with CacheSafe technology
- Reduces power consumption with energy efficient features

The Infortrend ESVA Fibre Series is designed to support a powerful, reliable and flexible Fibre Channel (FC) SAN, offering wide configuration choices to meet diverse application requirements for performance, capacity, space and costs. Based on Enterprise Scalable Virtualized Architecture, the ESVA FC SAN can help mid-range enterprises optimize return on investment, simplify storage infrastructure and maximize application productivity.

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 and bandwidth, ESVA systems support thin provisioning and an intelligent access prioritizing mechanism on the virtual architecture. By enabling users to flexibly assign applications to four available tiers distinguished by different drive types and RAID levels, and offering automated data migration, automated storage tiering on ESVA helps users meet a wide array of service level requirements.

Simplified Storage Infrastructure

ESVA simplifies storage management by enabling a single point of administration. Scaling the storage pool is also a very easy task and can be done without disrupting service. Each ESVA system can be scaled for increased capacity by connecting it to expansion enclosures. If you want to increase capacity and performance at the same time, you can also scale out the virtualized foundation by adding additional ESVA systems. When a new system is added, the distributed load balancing technology will dynamically balance workloads among storage systems and increase processing power.

Maximized Application Productivity

In the competitive business world, downtime not only causes profit loss but can inflict damage on corporate reputations. The revolutionary architecture of the ESVA eliminates planned downtime for storage scaling. To support business continuity, it also comes with storage-based replication capabilities. Local replication offers snapshot images and full data copies in a single storage pool, while remote replication enables users to deploy full data copies across storage pools. The hybrid models F75-2830 and F75-2830L feature four iSCSI channels that help users achieve highly cost-effective remote replication. You enjoy the highest data availability and minimized service downtime in the event of logical or physical errors.

Advanced Hardware Designs

All ESVA systems are based on High Availability (HA) modular design to achieve high fault-tolerant capability. For better cached data protection, the ESVA systems come with built-in CacheSafe technology. In the event of a power outage, the BBU will automatically supply power to write cached data into flash memory for permanent retention. Infortrend enriches the ESVA Series with energy efficient designs, contributing to environmental sustainability while cutting energy costs for companies.

Technical Specifications

Fibre-host Series

	ESVA F75-2830	ESVA F75-2830L	ESVA F60-2830
Hardware Configurations			
Host Ports	8 x 8Gb/s FC ports + 4 x 1Gb/s iSCSI ports[1]		8 x 8Gb/s FC ports
Drive Connectivity	6Gb/s SAS		
Cache Memory	16GB or 32GB		8GB
Starting Configuration (No. of Drives)	8		
Supported Drives	2.5" SAS 6G MLC SSD - 200GB, 400GB or 800GB 2.5" 10K RPM SAS drives - 300GB, 450GB, 600GB, 900GB or 1.2TB 3.5" 15K RPM SAS drives - 300GB, 450GB or 600GB 3.5" 7,200 RPM Nearline SAS drives - 2TB, 3TB , 4TB or 6TB		
Max. Drive (per system)	16		
Max. LUNs	4096		1024
Max. Drive (via scale-out[3])	4800	800	1344
Expansion Enclosure (JBOD)	ESVA J75-250 (48 - 3.5" drives) ESVA J60-230 (16 - 3.5" and 2.5" drives) ESVA J45-240 (24 - 2.5" drives only)		ESVA J60-230 (16 - 3.5" and 2.5" drives)
Form Factor	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 balancing; automated storage tiering[2]		
Data Protection	**Local Replication**[2]: Snapshot; Volume Copy/Volume Mirror; Quick Recovery **Remote Replication**[3]: Synchronous or Asynchronous; Data Compression; Near Continuous Data Protection (N-CDP)		
Green	80 PLUS-certified power supplies delivering more than 80% energy efficiency Intelligent multi-level drive spin-down		
RAID Configurations	RAID level 0, 1, 3, 5, 6, 10, 50, 60		
Availability and Reliability	Redundant, hot-swappable hardware modules; CacheSafe technology; Multi-pathing support (EonPath); Device mapper support Port trunking / link aggregation (IEEE 802.3ad)[4], fail-over[4], jumbo frame[4]		
Notification	Email, Fax, LAN broadcast, SNMP traps, SMS, Skype		
Management	SANWatch management suite; Terminal via RS-232C		
OS Support[5]	Windows Server 2003 / 2008 / 2008 R2 / 2012 (including Hyper-V)/2012R2, Windows 7 Enterprise Sp1, MAC OS X RedHat Enterprise Linux, SUSE Linux Enterprise, Sun Solaris, IBM AIX, HP-UX, Debian, CentOS, VMware, Citrix XenServer		
Service and Support[6]	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 Service[7]	**Standard Service** + Onsite diagnostics on the next business day		
Premium Service[7]	**Standard Service** + Onsite diagnostics in 4 hours		

[1] iSCSI Host ports are optional on ESVA F75-2830 and ESVA F75-2830L. Please check availability with your sales representative.
[2] Available with optional license on the ESVA F75-2830 and ESVA F60-2830.
[3] Available with optional license on the ESVA F75-2830, ESVA F75-2830L and ESVA F60-2830. Synchronous remote replication available on ESVA F60-2830.
[4] Only available on iSCSI ports for F75-2830 and F75-2830L.
[5] For compatibility details, please contact our sales representatives.
[6] Service may vary by region.
[7] Optional.

24x7 Global Support: http://support.infortrend.com/esva

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