

ESVA® Data Services



Rapidly growing data leads to burgeoning storage needs. An ideal storage solution for business critical applications should not only provide necessary capacity and performance to accommodate data and process transactions, but also ensure quick recovery from unplanned outages or disasters. However, the dynamic nature of applications makes it difficult to anticipate data demands. Leveraging storage based on traditional rigid architecture to deal with changing needs often means wasted investment in storage along with additional management overhead. The ESVA series from Infortrend builds leading storage systems on a revolutionary architecture featuring virtualization and scale-out technologies. Enhanced with comprehensive data services and data protection features, the Infortrend ESVA can meet the most demanding storage requirements at an attractive price point and provide enhanced management efficiency.

EFFICIENT RESOURCE UTILIZATION

Through our storage virtualization technology, the capacity and computing power of multiple ESVA storage systems are consolidated into single or multiple storage pools. Coupled with thin provisioning and an intelligent access prioritizing mechanism, the Infortrend ESVA ensures the most efficient utilization of pooled resources.

- Allocate capacity dynamically when data writes happen to minimize expenses wasted on large and underutilized data volumes
- Arrange I/Os in the queue based on their priority to allow applications to achieve respective ideal service levels
- Eliminate the administration overhead associated with capacity planning and utilization monitoring of each data volume

NON-DISRUPTIVE STORAGE SCALING

With ESVA, storage scaling can be performed on demand. Both capacity and performance can incrementally grow without disrupting service.

- Achieve “hot” capacity scaling by simply attaching expansion enclosures to member ESVA systems of a storage pool
- Automatic, dynamic workload balancing across ESVA systems to achieve and maintain optimized performance
- Linearly scale performance for increased transactional speed by adding more ESVA systems to the storage pool

HIGHEST DATA AVAILABILITY

The ESVA from Infortrend comes with snapshot and replication capabilities to protect mission-critical data. By strategically deploying snapshot images and full data copies, you can enjoy the highest data availability in the event of an outage caused by logical errors, physical errors or disasters.

- Create granular recovery points by constantly taking space-efficient snapshot copies
- Protect data from extensive disasters with asynchronous data copies
- Optimize asynchronous remote replication with data compression feature
- Achieve optimal no-data-loss protection with synchronous data copies

ESVA F60/F70/E60

ESVA F10/E10

Virtualization		
Storage-based Virtualization	Yes	Yes
Thin Provisioning	Yes	Yes
Zero Downtime Capacity Expansion	Yes	Yes
Maximum Number of Disks in a Virtual Pool	1344	64
Maximum Number of Virtual Volumes in a Virtual Pool	1024	1024
Maximum Size of a Virtual Pool	2PB	512TB
Maximum Size of a Virtual Volume	2PB	512TB
Minimum Size of a Virtual Volume	10GB	10GB
Scale-out		
Horizontal performance scaling	Yes	Yes
Distributed Load Balance	Yes	Yes
Balanced Data Migration	Yes	Yes
Prioritized Volume Access	Yes	Yes
Maximum Number of Systems in a Virtual Pool	12	4
Snapshot		
Snapshot Rollback	Yes	Yes
Maximum Number of Snapshot Images for a Source Volume	1024	256
Maximum Number of Snapshot Images in a Virtual Pool	16,000	4096
Replication		
Sync and Async Remote Replication	Yes	Async Only
Data Compression for Async Remote Replication	Yes	Yes
Volume Copy/Volume Mirror	Yes	Yes
Disaster Tolerance	Yes	Yes
Maximum Number of Source Volumes in a Virtual Pool	32	32
Maximum Number of Concurrent Replication Pairs of a Source Volume	8	8
Maximum Number of Concurrent Replication Pairs in a Virtual Pool	256	256

¹ To include more than one ESVA storage system in a storage pool, Scale-out License is required for all models except the ESVA F10/E10. To take snapshot images and create full data copies in a single storage pool, Local Replication License is required for all models except the ESVA F10/E10. To create full data copies across storage pools, Remote Replication License is required for all models except the ESVA F10/E10.

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