



Features and related benefits

Multi-host application data availability Distribute copies of data for workflow purposes. Local applications may need a copy of information for their access. A snapshot can be mapped to secondary hosts for work distribution purposes.

High Availability: No single point of failure

- Multiple Storage Controller Modules (SCMs), each of which can support the entire system on its own
- Each SCM has two redundant Ethernet connections to the Disk Controller Modules (DCMs) and each DCM has two Ethernet connections for redundant GigE switch connectivity
- Each Disk Enclosure (DE) and SCM has two power supplies, with each power supply having its own AC input

Microsoft® Volume Shadow Copy Service Integrates with Microsoft's standard data protection and recovery solutions for Windows Servers.

Wizard-based snapshot creation Step-by-step snapshot creation to improve productivity and reduce cost of storage administration.

Snapshot to Volume Mapping Logical view of a single volume or a group of volumes, and how snapshots are mapped to those volumes. The snapshot's time stamp, total size, and volume layout are displayed graphically.

Snapshot Rollback Test new applications, new versions, currency conversion, training functions, and format migration by using the snapshot. After the results have been collected, the snapshots can be reset to their original state and can catch up with any changes made to the original volume.

Multiple Snapshot Protect critical data by making multiple synchronized snapshots which can be split (broken) to move to remote and offline storage.

Highlights

- Simplified capacity planning: System storage can dynamically grow and be provisioned to hosts without disrupting applications or users.
- Using standard iSCSI and Gigabit Ethernet (GigE) infrastructures reduces cost and complexity. This familiar technology, commodity Ethernet switches, and Cat 5 cabling, help simplify installation, management and maintenance.
- Robust storage management provides flexible virtualization, striping and mirroring (Raid: 0, 1 and 1/0), host access control, and online capacity expansion while remaining easy to use.
- Virtual point-in-time copies (Snapshots) allow backups, data mining, or application testing to be done without impacting access to critical data resources.
- Powerful graphical user interface (GUI) simplifies system management. Smart templates in GUI allow for rapid volume creation without requiring knowledge of the underlying data structures.
- Command Line Interface (CLI) is also provided to allow users to create scripts for rapid, automated provisioning of storage.
- Provides data availability and accessibility by providing multiple physical mirrors with flexible mirror management.

Overview

The Intransa IP7500 is the highest performance, highest capacity IP SAN. It does not have a single point of failure and it also has the highest availability of any IP SAN. The unprecedented value of the Intransa IP7500 makes it the right choice for applications requiring huge amounts of capacity.

The IP7000 series of products is Intransa's integrated solution for customers who want to deploy a simple IP SAN solution. Intransa's IP7500 is the industries largest native IP SAN. It is a complete IP SAN that only requires Cat-5 and power cables to provide 24 TB of storage to the network. Intransa's IP7500 storage solution is also upgradeable to 32 TB, and offers local and remote realm management through Intransa's StorControl™ software.

The IP7500 is a great digital media solution because it provides easy access to volumes that can be used by many hosts. Digital media solutions often need to have lots of hosts with dynamic storage configurations. The IP7500 manages these environments with ease.

Caen Engineering, Inc.

2130 N. Glassell St. · Orange, CA 92865, USA
Phone: (714) 998-6300 · Fax: (714) 998-6366
www.caeneng.com · Email: sales@caeneng.com

Video surveillance, data warehousing, data mining, and nearline storage applications need the IP7500 storage solution. These applications require unlimited capacity scaling without massive reconfiguration, which is one of the many benefits of the IP7500.

The IP7500 also has the following management and resiliency features; fully redundant switching, management console, management network, and UPS with redundant power feeds. These are all populated into a single box that matches the dimensions of a standard 42U rack for easy installation.

Intrinsa StorControl Load Balance and High Availability

Reliability is the most important aspect of any storage system and the Intrinsa IP7500, with its High Availability and Load Balancing, will achieve better than four nines (99.99%) availability of customer data. The IP7500 does not sacrifice performance to meet availability requirements because all system components are in use at all times. This is unique in the industry.

Load Balancing: Maximum Performance

Unlike less-sophisticated storage systems, the StorControl Software Suite on the IP7500 system implements an n-way model of High Availability. All the SCMs in an IP7500 system actively serve storage volumes, sharing the system workload. If an SCM fails, the volumes that were being served by it are automatically redistributed to all the other SCMs in the system.

IP7500 Specifications

- 4 SC5500 Storage Controller Module
- Six DE5200-16250 Disk Enclosures, with room for two additional DEs*
- Redundant front-end and back-end switching for no single point of failure
- Management switching and console
- UPS with redundant power feeds

Raid Levels

- RAID 0, 1, 1/0
- Software
- StorControl™ Management Tool - Java™-based client administration (GUI)
 - System monitoring, activity monitoring, environment monitoring
 - StorControl Snapshot
 - StorControl Load Balance and High Availability

Power (North America Specs)

Nominal Voltage: 208VAC
Input Connections: Dual redundant L6-30P -or- Hardwire (3-wire, 1PH + 1PH+GND)
Voltage Range: 160-280VAC
Current (@208C): 24A (typ), 30A (max)
Frequency: 50/60 Hz
Power Consumption: 500W (typ), 6200W (max)
Heat Dissipation: 18,500 BTU/hr (typ), 22,650 BTU/hr (max)
VA Rating: 5000 VA (typ), 6200 (max)

Thanks to the Intrinsa innovation of iSCSI redirection via virtual IP addresses, when a SCM takes control of a volume from another SCM, this process is completely transparent to the host using the volume. When an SCM reboots and comes back online, or when a new SCM is introduced into an IP SAN system, StorControl automatically redistributes the load from the other SCMs to the newly available SCM. In normal operation, StorControl is designed to keep the load on each SCM roughly equal. The software uses a balancing algorithm to keep the volumes assigned to each SCM to ensure that each serves effectively.

Hot-Swappable: No Downtime for Component Failure

The IP7500 system must remain operational even when a failure occurs, therefore all the major components are hot-swappable, Field-Replaceable Units (FRU). The architecture means that an installation will continue working, even after a component failure. Normal performance will return when the new FRU is installed, which is done without taking working storage offline, while the software rebalances the load to the restored component.

Operating Environment

Temperature:
Operating: 0 to 40°C (32 to 104°F)
Non-Operating: -15 to 45°C (5 to 113°F)

Relative Humidity (non-condensing):
Operating: 20% to 80%
Non-Operating: 10% to 95%

Shock:
Operating: 5G, 10ms, half sine
Non-Operating: 30G, 10ms, half sine

Vibration:
Operating: 0.4 GRMS 5-500Hz
Non-Operating: 1.0 GRMS 2-200Hz

Altitude:
Operating: 0 to 6,000 ft.
Non-Operating: 0 to 6,000 ft.

Warranty
• Standard 2 year warranty on the IP7500, including 9 x 5 onsite emergency repair (swap-out service), Monday through Friday, next day response

Caen Engineering, Inc.

2130 N. Glassell St, · Orange, CA 92865, USA
Phone: (714) 998-6300 · Fax: (714) 998-6366
www.caeneng.com · Email: sales@caeneng.com