

Hitachi Essential NAS Platform™

Hitachi Essential NAS Platform™ is optimized for file sharing, backup and file server consolidation, achieving central management and increased data availability. It delivers best-in-class availability and scalability at a low price.

Outstanding Value, Ease of Use, Superior Availability and Scalability for Standard NAS Workloads

Hitachi Essential NAS Platform is an easy-to-use NAS solution supported by Hitachi storage systems. It is an ideal solution for medium-sized business, remote or branch offices or enterprises needing solutions for file serving, backup or file server consolidation. This NAS solution consolidates and manages up to 512 terabytes (TB) of data in a two-node cluster with access to data for Common Internet File System (CIFS) and Network File System (NFS). The Essential NAS Platform is integrated with the award-winning Hitachi HiCommand® Suite software for ease of management.

Customer Challenges

Key customer challenges addressed by the Hitachi Essential NAS Platform include:

- Use of general purpose file servers for storage, resulting in server proliferation and higher operational costs
- NAS filers continuing to run out of storage capacity, resulting in NAS proliferation
- Inability to leverage best-in-class availability and scalability on SAN for data on NAS
- Deploying and managing file storage at each branch office site is expensive, time consuming and wasteful of resources
- Providing access to the same data for Microsoft® Windows and UNIX clients

Business Benefits

Outstanding Value

- Economically priced models
- Investment protection with easy upgrade from entry level model to higher end models

Reduce Operational and Capital Costs

- Gain best-in-class availability and scalability.
- Lower total cost of ownership (TCO) by consolidating multiple file servers into one NAS system: fewer licenses to buy, fewer file servers to manage.

Mitigate Risk and Increase Reliability

- Reduce operator errors through consistent procedures and processes for NAS storage via centralized backup.
- Ensure high availability with RAID-6 dual-parity striping.

Improve Productivity

- Enable enterprise-wide file sharing access.
- Reduce time-consuming/repetitive tasks.
- Keep running efficiently with greatly reduced downtime.

Feature Highlights

Easy-to-use Management Interface

- The Hitachi Essential NAS Platform is configured and managed from easy-to-use, graphical user interface-based (GUI) software tailored for NAS management. The user-friendly and intuitive NAS Manager GUI satisfies both inexperienced users and savvy users.

Business Solutions

Hitachi Data Systems and Hitachi TrueNorth™ Channel Partners offer industry-leading technology to help organizations of all sizes meet their unique requirements for business continuity, regulatory compliance and data recovery. Together, we provide cost-effective storage products and solutions that leverage world-renowned Hitachi global R&D resources to deliver performance, availability and scalability — supporting business critical applications and strengthening competitive advantage.

Complementary Solutions

The Hitachi Data Systems Global Solution Services (GSS) team offers design, implementation and data migration services that support the Hitachi Essential NAS Platform and the entire suite of Hitachi storage products.

Best-in-class Scalability and Availability

- Scale up to 512TB capacity in a two-node cluster.
- Ensure high availability through clustered NAS servers with active-active failover.
- Rely on redundant hot-pluggable cooling fans and power supplies.
- Protect data fully with superior Hitachi hardware-based RAID technology.

Hitachi Essential NAS Platform Models

Models	1100c	1300c	1500c	Models	1100c	1300c	1500c
Form Factor	Two-node cluster only to avoid single point of failure Two form factors: 1) NAS Gateway, compatible with Adaptable Modular Storage and Hitachi Universal Storage Platform™ family; 2) NAS Filer bundled with Hitachi Adaptable Modular Storage (1100c Filer with AMS200, AMS500 and AMS1000; 1300c Filer with AMS500 and AMS1000; 1500c Filer with AMS1000)			Network Protocol Supported	NFS v2/v3 (UDP or TCP), CIFS, FTP		
Operating System	Hitachi-tuned Linux OS			Management	Hitachi NAS Manager or Hitachi HiCommand® Device Manager NAS plug-in		
CIFS Concurrent Session	5,000	12,000	24,000	HiCommand Integration	Hitachi HiCommand Device Manager, Hitachi HiCommand Tiered Storage Manager, Hitachi HiCommand Tuning Manager software		
Cache per Node (ECC Memory)	4GB	8GB	16GB	Data Migration/Tiered Storage	Modular Volume Migration, Hitachi HiCommand Tiered Storage Manager software		
Capacity	512TB/cluster			Snapshots Limits	124/file system for Hitachi Sync Image differential snapshot		
Clustering	Two-node high-availability cluster			Anti-Virus Protection	Symantec Scan Engine		
File System	Hitachi-tuned UNIX Optimized Classic File System, Hitachi-tuned Windows Optimized Advanced File System			Backup and Restore	NDMPv4 via LAN with Hitachi Data Protection Suite (powered by CommVault® Galaxy) or VERITAS NetBackup. NDMPv4 via SAN with Hitachi Data Protection Suite (powered by CommVault Galaxy) or VERITAS NetBackup		
Maximum File System Size	16TB			Replication	Hitachi ShadowImage® Heterogeneous Replication, Hitachi TrueCopy® Remote Replication and Hitachi Universal Replicator software, and RUS (IP-based remote replication)		
Cluster Failover	Active/Active or Active/Passive			Dynamic Provisioning	Hitachi Dynamic Provisioning with Hitachi Universal Storage Platform V and Hitachi Universal Storage Platform VM		
Network Interface	Copper GbE 1000Base-TX (4-20/node), Optical GbE 1000Base-SX (8-16/node), Link Aggregation/Link Alternation/Cascaded Trunking, Jumbo Frames, VLAN-Tagging						

Advanced Data Protection Capabilities

- Synchronous replication with Hitachi TrueCopy® Remote Replication software*
- Asynchronous replication with Universal Replicator software, TrueCopy Extended Distance and NAS Replication Utility for Sync Image (RUS)*

Power Supplies

- Onboard power supply unit; optional power unit for redundancy

Dimensions

- Width x Depth x Height = 482mm (19in.) x 650mm (26in.) x 129mm (3U)
- Weight 66 lbs (30kg)

Physical Interface for Management

- Server status, power LEDs
- Ethernet port diagnostics: port activity LEDs
- Power supply status LEDs
- FAN status LEDs

Input Power

- 100-240V

Electric Power Consumption

- Less than 6.4KVA

Form Factors

Hitachi Essential NAS Platform offers two form factors with identical features and functionality.

Both include NAS heads with memory (amount varies per model), 4 x copper and optionally up to 16 x copper or optical interfaces, as well as an optional second host bus adapter. The differences are:

- **NAS Gateway** is attached via Fibre Channel to Hitachi storage systems and supports Hitachi Adaptable Modular

Storage and the Hitachi Universal Storage Platform™ family.

- **NAS Filer** is bundled with Adaptable Modular Storage and is pre-installed. It takes about 15 to 20 minutes for administrators to integrate into an Active Directory environment and write to a file system with the NAS Wizard.

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* Available via CLI at first release. GUI version to be released in future version.