

GuardianOS[™] v4.0

Enhanced Features Simplify Snap Server Setup, Configuration, and Management

Features

Improved User Interface

Changes to RAID set, volume management, share creation, and more provide easier system setup and management

AFP (Apple File Protocol) v3.1 Support

For Mac file sizes larger than 2GB and extended file names

Enhanced UID/GID Mapping

Predefined UID and GID ranges provide UID/GID preservation during OS upgrade

Integrated BakBone NetVault Workgroup Server

Now includes VTL support up to 500GB

Unicode Support

Set default group storage quotas

Improved Group Quota Management

Set default group storage quotas

Larger Volume Capacity

Create volumes up to 16TB

Instant Capacity Expansion[™] (I.C.E.)

Dynamically scale Snap Servers to meet growing storage needs

Unified Storage Architecture

Simultaneous iSCSI (block) and NAS (file) support

Snap Enterprise Data Replicator

Family of enterprise-class data replication, management, and protection software

StorAssure Personal Edition

Automated backup for desktop and laptop systems

Exploding data growth is driving the demand for greater capacity and rapid access to stored information and is changing the nature of enterprise data management. As enterprises become more distributed, they face the increasing complexity of managing multiple data types across a broad range of applications. Traditional storage solutions complicate this problem by creating separate storage pools for block data and file data that are difficult to manage and backup. There has never been a greater need for enterprise-class storage solutions that can cost-effectively deliver capacity and access, and integrate all data types in a single, intelligently managed solution.

The award-winning GuardianOS by Adaptec has been specifically designed to deliver next-generation data management for the distributed enterprise. GuardianOS combines cross-platform file sharing with block-level data access on a single device to provide a simple and flexible solution ideal for any storage infrastructure. In addition to unified storage architecture, GuardianOS offers seamless scalability, centralized storage management, and a comprehensive suite of data protection tools ideal for consolidating data and simplifying management to reduce storage total cost of ownership (TCO).

Version 4.0 of the award-winning GuardianOS delivers an enhanced feature set and simplifies setup, configuration, and management of Snap Server by Adaptec. The key enhancements include:

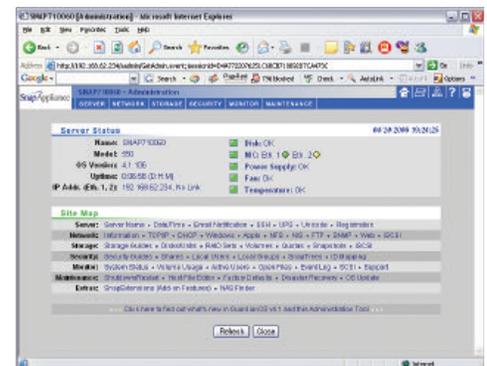
Unicode support — The Unicode Standard UTF-8 is a character coding system designed to support the worldwide interchange, processing, and display of written texts by providing a unique number for every character regardless of platform, program, or language.

Previous versions of GuardianOS supported the Windows code page 1252 for Western European languages for Windows clients. With UTF-8 support GuardianOS v4.0 now supports double-byte characters for regions such as Eastern Europe and Asia-Pacific where these characters are used extensively.

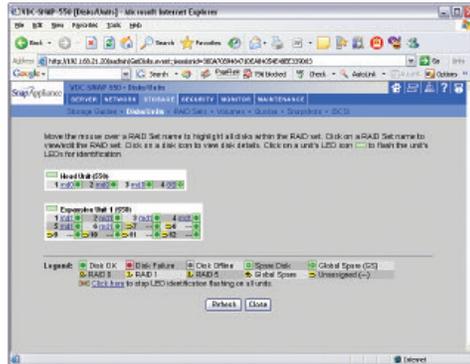
Larger VTL capability — The standard VTL capacity is now 500GB, via the integrated BakBone Workgroup Server.

Streamlined user interface —

1. GuardianOS v4.0 makes managing storage resources much easier with a more graphical view that gives customers a view of RAID sets and RAID groups as they relate to the physical units.
2. Improved share creation and share security, plus the ability to search for names and domains.
3. New management pages in GuardianOS v4.0 simplify the important administrative tasks of viewing and managing open files and active users. Users are tracked if they are connected via CIFS, AFP, FTP, or SSH.



Server Status and Environments



RAID Set Configuration

Improved quota management — In previous versions of GuardianOS, there has been a default quota value assigned to each user who has been configured to have a quota. With GuardianOS v4.0, the administrator is now allowed to set the default quota value. Once quotas are enabled, the default quota is applied to everyone on the volume. When the default value is changed, every user that is using the default will also receive the new default value. Custom values set on an individual user will not be affected by the default value.

Updated AFP support — GuardianOS v4.0 has been updated to Apple File Protocol (AFP) v3.1 which offers three major feature enhancements:

- File sizes larger than 2GB
- File names longer than 31 characters
- Unicode support

Top 10 Benefits of GuardianOS

1 Simplicity

Snap Servers are dedicated storage appliances specifically designed for ease of use. All hardware and software is integrated at the factory for a turnkey solution that is ready to go from the moment you turn it on. Because Snap Servers attach directly to the network and not to another server, they install in minutes and are easily deployed without application downtime. Award-winning browser-based management software allows Snap Servers to be easily administered from anywhere on the network.

2 Proven Reliability

Adaptec continues to be the worldwide volume leader in network attached storage by shipping robust solutions that continually exceed customers' expectations. With an installed base exceeding 175,000 units, Snap Servers are more popular than all other NAS solutions combined. The award-winning GuardianOS delivers a robust, journaling file system with integrated RAID data protection to provide a solid foundation for Snap Server storage solutions.

3 Security

GuardianOS provides system and data security features to protect valuable data. Integrated Computer Associates eTrust Antivirus software, Kerberos authentication, Lightweight Directory Access Protocol (LDAP) and Challenge Handshake Authentication Protocol (CHAP) support, file and folder access control lists (ACLs), Secure Sockets Layer (SSLv3) and password-encrypted Secure Shell (SSH) are just a few of the features offered to maintain a safe, secure storage environment.

4 Manageability

Managing Snap Servers has never been easier. Snap Server Manager™ (SSM) is a platform-independent, multi-server administrative tool that provides a single console to discover, configure, and monitor Snap Servers throughout an enterprise. Snap Servers also support quota management and popular SNMP-based monitoring tools.

5 Ease of Integration

Snap Servers integrate seamlessly into any environment without having to reconfigure existing storage or bring down the network. Microsoft Active Directory Service (ADS) and UNIX Network Information Service (NIS) support leverages centralized databases to authenticate network users.

6 Heterogeneous

Heterogeneous file-sharing support for Windows, UNIX, Linux, and Macintosh platforms eliminates the need for individual native servers. Industry-standard iSCSI target support delivers block storage capacity to other servers over the Ethernet Network.

7 Industry-Leading Performance

A recent performance report published by VeriTest, a leading provider of outsourced testing and certification, showed that GuardianOS-powered Snap Servers continue to perform significantly faster than comparable Windows-powered NAS offerings.

8 Unified Storage Architecture

By leveraging industry-standard iSCSI to deliver block and file data over existing Ethernet infrastructures, Snap Servers simplify management while avoiding the cost, complexity, and distance limitations inherent with SCSI and Fibre Channel. iSCSI supports most major initiator platforms and is also Microsoft Logo certified for optimal Microsoft compatibility.

9 Nondisruptive Scalability and Provisioning

Instant Capacity Expansion™ (I.C.E.) dynamically grows and provisions volumes when additional capacity is needed. Logical RAID groups can be combined for additional space at any time without disruption, and additional capacity is available immediately.

10 Comprehensive Data Protection

Snap Servers offer powerful backup choices to provide the ultimate in flexibility, providing embedded BakBone NetVault software, and a variety of backup agent support. It also supports optional desktop/laptop client backup with StorAssure Personal Edition and optional data replication capability using Snap EDR support, as well as optional NDMP. Snap Servers further complement their backup capability with embedded snapshot technology for point-in-time volume images.

Software	Part Number
Snap Server Manager license*	5325301955

*Control of individual server is include with GuardianOS Snap Servers, this license enables multi-server administration



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