







DATA SHEET

GuardianOS 7.7

GuardianOS® 7.7 powers the SnapServer® Network Attached Storage servers and is optimized to provide the business-grade reliability and out-of-the-box integration needed to work with today's business applications and infrastructure. The award-winning GuardianOS has over a decade of the proven stability, expertise and innovation you can rely on.

SnapServers attach directly to your network and install in minutes, and are easily deployed without application downtime. You can consolidate multiple systems by creating file andblock-level volumes on a single SnapServer.

This flexible, cost effective platform allows you to expand seamlessly as your capacity and performance needs grow. It includes SnapSync™ which is a simple, secure enterprise file sync and share solution that provides unlimited access to corporate files from any device and from anywhere.

Operating System: GuardianOS 7.7

Network File Protocols: SMB, CIFS, NFS, AFP, HTTP, and FTP.

Block Protocols: iSCSI

Microsoft Windows Integration: Active Directory Services (ADS), NTLM, Kerberos, and VSS/VDS for iSCSI LUNs.

Advanced Security: Fully integrate with existing Windows Active Directory Domain or UNIX with NIS or LDAP.

Data Protection: DynamicRAID, High-perfrmance Snapshots, continuous replication, heterogeneous replication, Enterprise Files Sync & Share, RDX integration and integration with 3rd party backup software, including VEEAM[™], Backup Exec^{™,} and NetBackup[™].

Management Interface: Web Management Interface, SSH-based Command Line Interface (CLI), and Java-based SnapServer Manager tool.

New Features

- SnapSync
 Access corporate data securely on any device from anywhere
- RDX Backup Scheduler
 Automated policy based data backup to RDX removable media for archiving and off-site compliance
- Encrypted Continuous Replication:

A secure continuous data replication with near zero data loss (RPO ~ near zero) for disaster recovery at no additional cost

Features



Unified Storage

Store file and block data on a single SnapServer



DvnamicRAID

Mix and match drives of different sizes to grow RAID arrays



Dynamic Volumes

Grow and shrink volumes with DynamicRAID and Thin provisioning



Advanced Security

Fully integrate with existing Windows Active Directory Domain or UNIX with NIS or LDAP



Management

Setup, implement and maintain SnapServers with ease



SnapSync

Enterprise file sync & share that enables secure access to corporate files from any device and from anywhere



Snap Encrypted Continuous Replication (Snap ECR)

Disaster Recovery solution at no additional cost



Snap Enterprise Data Replicator (Snap EDR)

Replicate data across heterogeneous platforms: SnapServers, Windows, Linux, UNIX, Mac OS



RDX Backup

Backup to removable RDX media directly from SnapServer for archiving and off-site compliance



SnapCLOUD on Microsoft Azure

Dynamically expand storage into the cloud with the same features and operations as on-premise data or backup primary SnapServer data to the cloud



Backup Support

SnapServer is certified with a range of 3rd party backup software including VEEAM, Backup Exec and NetBackup



Key Features

| Feature | Function | Benefit |
|---|---|---|
| System Management | | |
| Home directories | Automatically creates home directories for each user upon first login to the network share | Allows administrators to auto-allocate capacity for each user that is accessible across Windows, UNIX/Linux and Macintosh platforms |
| User and group quotas | Enforces disk space thresholds for Users and Groups* | Allows administrators to govern how much disk space is consumed by a particular user or group |
| Command Line Interface (CLI) | Alternative administration of your SnapServer with a set of over 150 commands | Enables automation and scripting of routine tasks |
| SnapStorage Manager | Management of SnapServer® NAS, SnapSAN® and REO® storage systems from a single console | Simplifies deployment and management of multiple Overland Storage systems |
| SNMP and Email Alerts | Real-time notices of system events and errors | Informs you of the status of your SnapServer via email or an SNMP management syste |
| Configuration Disaster Recovery/ Backup | Exports a backup image of the SnapServer configuration settings | Allows system cloning or quick disaster recovery restoration of the SnapServer configuration |
| UPS Support | Gracefully shuts down the SnapServer in the event that a power outage lasts longer than the UPS battery; Automatically restarts the SnapServer when power is restored | Protects SnapServer data during extended power outages and brings the SnapServer back online as soon as power is made available |
| Data Protection | | |
| DynamicRAID | Automatic RAID creation and with a single or dual parity and incorporation of new drives with no disruption | Takes advantage of mix and match hard drives |
| Traditional RAID | Create RAID arrays using 0,1,5,6 or 10 | Allows for granular control of RAID arrays and hard drives |
| Dynamic volumes | NAS volumes can be resized at any time | No penalty for initial volume setup when storage needs change |
| High performance snapshots | Creates incremental; point-in-time copies of a NAS volume | Enables non-disruptive file state backups on scheduled or instant basis without degrading write performance |
| Snap ECR | Snap-to-Snap encrypted continuous replication of changed blocks only at wire speed | Implement a disaster recovery solution for your environment at no additional cost |
| Snap EDR | Byte-level; incremental file replication over LAN or WAN to other SnapServers or installed agents on other platforms | Replicate between heterogeneous platforms for backup, file distribution and disaster recovery |
| RDX backup | Copy files to removable RDX media | Take data offsite for disaster recovery & sharing |
| SnapCLOUD | Cloud deployment on Microsoft Azure | Dynamically expand storage into the cloud with the same features and operations as on-premise data or backup primary SnapServer data to the cloud |
| Backup support | Support for 3rd party backup agents for direct backup to SAS or USB attached tape devices | Allows you to backup your SnapServer directly to disk, VTL or tape device |
| Security and Services | | |
| Microsoft Active Directory Services (ADS) | Integrates within a Windows Active Directory Domain | Your SnapServer will recognize established users and groups in your Windows domain |
| Support for native Windows permissions and ACLs | Integrates with wireless permissions and ACLS | Matches Windows behavior for permissions and ACLs |
| Lightweight Directory Access Protocol (LDAP) | Provides integration with your existing UNIX user and group database | Your SnapServer will recognize the users and groups you've established in your UNIX/Linux domain |
| Windows-to-UNIX ID Mapping | Map users and groups across protocols | Allows you to maintain consistent permissions for users with multiple system types (i.e. Windows and UNIX clients) |
| Windows Only Tree | Windows controls SnapServer file permissions in a mixed environment | Prevents switching of attributes between UNIX/Mac and Windows files |
| Microsoft VSS | Performs application consistent snapshots of iSCSI LUNs | Enables you to create frequent, space-efficient backups of block-level volumes on your SnapServer |
| Microsoft VDS | Allows iSCSI LUNs to be managed natively within Windows | Eases administration by allowing you to manage the block-level volumes on your SnapServer directly from the Microsoft Management Console |
| Microsoft Multi-Path I/O (MPIO) | Provides multiple paths (via iSCSI) between a Windows server and the storage located on a SnapServer | Enables High Availability (HA) through redundant connections |
| Utilities | | |
| | | |

*Traditional RAID; no group quota for DynamicRAID

Sales and support for Sphere 3D products and solutions are available in over 90 countries. Contact us today at sales@sphere3d.com. For a full list of Sphere 3D addresses and phone numbers, please see our website at: http://sphere3d.com/contact-us/.

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