



## Enterprise-Class Remote Data Replication Software

# SNAPserver®

Snap Enterprise Data Replicator™ 7.2  
EDR Standard and EDR Express editions

The growing number of businesses with branch offices, remote development centers, and offshore entities has led to a marked increase in the need to collect and distribute data between various geographic locations. However, the central IT departments of most companies commit the lion's share of their time and resources to the organization's core data, frequently overlooking the need to distribute, synchronize, and protect the business-critical data that resides in their remote offices.

Snap Enterprise Data Replicator™ 7.2 is a powerful, high-performance data replication and protection solution with comprehensive data management, movement, and backup capabilities. Administrators can remotely move files between servers, replicate data from their remote offices to a central server where it can be protected with established backup and restore procedures, or automatically distribute data from a central server to multiple remote offices. With Snap EDR, the administrator can implement enterprise-wide data movement, backup, disaster recovery, and compliance operations from a single location.

### Fast and Efficient

Snap EDR employs file compression and network bandwidth throttling to minimize the impact on network resources during the replication process. For additional efficiency, only the byte-level changes since the last replication are replicated.

When combined with high-performance GuardianOS-powered Snap Server® storage systems, Snap EDR is a cost-effective answer for distributed enterprises to easily move, manage, and protect distributed data.

### Support for Heterogeneous Environments

Snap EDR can manage movement between any combination of GuardianOS™ Snap Servers and Windows, Linux, Solaris, and MAC OSX servers. Not just a point solution, the Snap EDR management framework forms the basis for remote data control, movement, and

backup anywhere throughout the enterprise. Only a single Snap Server is required in the environment to configure and manage the replication jobs and maintain job logs; your data moves securely between each server directly and independently.

### Consolidated Backup & Recovery

Included in Snap EDR Standard, consolidated backup and recovery functionality reduces backup costs by eliminating the need for tape and equipment at remote locations. Backup images are consolidated onto a central server for instant online access to the latest backup images. With centralized management, backup processes for remote sites are automated, reducing or eliminating the dependency on remote staff for backup and recovery. All the file attributes and permissions are retained for restoration.

### Extended Security for Remote Locations

Unlike other software packages that require third-party security software, very strong security (up to AES 256-bit encryption) is built into Snap EDR for data in transit, thereby ensuring its secure movement. Through the use of digital signatures, Snap EDR also authenticates the replication agents to ensure that the connection is accurate. Sensitive data can be protected through user selectable levels of in-stream encryption, or it can be turned off for more efficient use within protected internal networks. This strong security capability saves money by enabling administrators to use inexpensive Internet network connections to transmit sensitive data, instead of adding expensive private networks or additional security hardware.

### Powerful, Centralized Control & Reporting

The Snap EDR 7.2 browser-based administration interface, which can be accessed from anywhere on the network for global access, is designed for ease of use – with all the extra visibility and flexibility administrators want in a data management interface. Snap EDR 7.2 also improves data management, control, and monitoring through job statistics reporting.

- Enhanced Performance
- Dashboard Overview
- GuardianOS™ User Interface Integration
- File Versioning
- Open File Support for Windows Clients
- Microsoft Windows Cluster Server Support
- Microsoft Windows Encrypted File System Support
- Agent Grouping
- Updated Heterogeneous Agent Support
- Simplified Offering—there are now two editions of Snap EDR: Standard and Express. The Standard Edition includes all functionality\*, including remote backup, as well as one-to-one, one-to-many and many-to-one replication. The Express Edition is a value-based replication-only suite for one-to-one replication between two Snap Servers.



\* Remote Backup functionality previously provided in Snap EDR Advanced v5.2.2, is now included in Snap EDR Standard v7.2.2.

Feature	How it Works	Benefit	
<b>Powerful, Centralized Control</b>	Ease of Use	Intuitive installation and graphical interface provides step-by-step job configuration and management	Allows users to quickly move from learning to managing data
	Central Policy Management	Centralized management console provides monitoring and notification, and allows for rules-based distribution and consolidation	Significantly increases control while lowering administrative cost of managing remote data replication
	Flexible Scheduling	Replication is scheduled by day and time, with up-to-the-minute scheduling	Maximum flexibility for increased data protection
	Scalable	Easily scales from one-to-one replication to one-to-one thousand data distribution	Solution grows with your enterprise
	Multiple Platform Support	Protects heterogeneous servers (Snap Server, Windows, Linux, Mac)	Eliminates the need for separate solutions to address multi-platform data protection needs
<b>Intelligent Data Movement</b>	Decentralized Data Movement	Agents initiate the processes required to extract, preprocess, compress, encrypt, send, or receive data through authenticated links to agents on other nodes	Provides the intelligence and flexibility to keep pace with a dynamic operating environment by decentralizing the data movement
	One-to-One Replication	One source server replicates and synchronizes data to one target server	Facilitates disaster recovery implementations
	One-to-Many Distribution	One source server replicates and synchronizes data to multiple target servers simultaneously	Enables content distribution and data multicasting
	Many-to-One Aggregation	Multiple source servers replicate data to a single server	Used for data consolidation, especially in backup and recovery scenarios
<b>Network-Optimized</b>	Byte-Level Incremental Changes	Replicates only changed bytes within files	Further reduces network traffic required to move data
	Data Compression	Compresses data to improve network performance	Compression minimizes network traffic over slow networks
	Variable Bandwidth Throttling	Network-aware bandwidth throttling is set using the actual speed of your network to handle high latency networks	Full control of limited network bandwidth avoids performance impact and costly network upgrades
<b>Robust Security</b>	Tiered Security	Combines data encryption with certificate authentication for data transfer	Ensures high security for transmitting sensitive data over public networks
	Certificate Authentication	Strong authentication between hosts utilizing digital certificates	Guarantees data is only sent to authorized parties
	Certified Delivery	Digital signature computed on each file	Provides absolute proof of delivery with a full audit trail
	Data Encryption	Can employ up to 256-bit encryption, or disable encryption for improved performance over a LAN	Choose the level of security that's right for the data being transmitted

## SNAP EDR 7.2 SPECIFICATIONS

### Required Components

- One GuardianOS-based Snap Server running GuardianOS 5.0 or higher is required for the Snap EDR Management Console to configure and manage the Snap EDR jobs and maintain the job logs.
- At least one source server and one or more Snap Servers or Application Servers
- Two or more licensed copies of Snap EDR software (each Snap EDR Agent requires a unique license)
- Standard IP network access with one of the following web browsers: Internet Explorer 5.5 or greater; Netscape Navigator 6.1 or greater

### Snap Server Models Supported

- Current Snap Server models 650, 620, 520, 410, 210, 110; and legacy Snap Server models 18000, 15000, 14000, 550, 510, 4500, 4400, 4200.

### Application Server Operating System Support

- Apple Mac OS X; Solaris 8, 9, 10 SPARC; RedHat Enterprise Linux 4.x, 5.x; SuSE Linux Enterprise Server 10.x; Windows 2000 Server (with SP4 or higher), Windows XP (with SP2 or higher), Windows 2003 Server, Windows 2003 R2 Server, Windows 2008 Server \*\*, Windows Vista \*\*

### System Memory

- 512 MB of memory will suffice for most Agent applications. For Snap Servers 410, 520, 620, or 650, which are capable of being utilized as management consoles, the minimum memory is 1 GB (Note: Snap Server 110 and 210 - fixed memory - systems are not recommended as Snap EDR Management Consoles. Snap EDR Management consoles require a minimum 1GB memory and, depending on workload, may also require additional memory)

### Disk Space

- Installation Directory size for each agent should be at least 35 MB.

### Network Connection

- Minimum 100 MB/s Ethernet Gigabit preferred.

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