



Backup & Disaster Recovery

SEP Software

ONE BACKUP & DISASTER RECOVERY
SOLUTION FOR THE ENTIRE ENTERPRISE

About SEP

SEP is an enterprise backup and disaster recovery solution for today's discerning computer environments. Supporting the widest range of operating systems and databases, SEP offers a single solution to manage heterogeneous environments of any size.

SEP is the perfect solution for IT professionals tasked with managing enterprise-wide backup and recovery processes. Its ease of use allows for complete control of all data in the most complex of IT environments. SEP's small footprint lends itself to an incredibly simple installation and can be integrated into any system in a matter of hours.

With SEP's Bare Metal Recovery module, disk drive and system failures need no longer be a devastating occurrence. Bare Metal Recovery restores damaged systems to their previous state in the easiest manner and shortest time possible. The entire system, settings, and user data are quickly restored to a new server.

SEP ensures that data security for both physical and virtual environments can be easily and cost-effectively achieved.

For more information, visit www.sepusa.com.

Key Features

- **Platform-Independent**

Supported operating system platforms: Windows, Linux & UNIX derivatives, Solaris, HP/UX, Tr64, BSD (also OpenVMS), MacOS and many more.

- **Incredibly Fast Backup Speed**

SEP's patented Multi-Streaming Technology simultaneously backs up multiple servers, reducing backup windows by 50-98%.

- **Centralized Administration**

SEP's GUI can quickly and easily manage the entire enterprise from a central location or remote workstation.

- **Back Up Virtual Environments**

Agentless solution includes image-level backups and single-file restore options, CBT and SEP's instant restore feature. Supported platforms: VMware ESX/ESXi, V-Sphere (VCB and VADP), Microsoft Hyper-V, Red Hat Virtualization (RHV), Citrix XenServer, and Xen.

- **Deduplication**

SEP deduplication is a scalable, high performance, inline, global solution that optimizes disc capacity.

- **Disaster Recovery**

Bare metal restore capabilities for Windows & Linux to similar or dissimilar hardware.

- **Full Cluster Support**

Windows, Linux, Unix, and NetWare cluster support with node failover.

- **Fast Installation**

SEP's small footprint allows a simple installation and configuration. Entire data centers, including remote locations, can be up and running in hours.

Backup & Disaster Recovery Software

CROSS-PLATFORM. NETWORK-WIDE.

CERTIFICATIONS

SEP is certified for every major operating system, database and Groupware application. From Microsoft to Linux; from Oracle to MS SQL; from Exchange to GroupWise, SEP can quickly and efficiently back up and granularly restore mission-critical data for businesses of any size.

SEP meets or exceeds all European security standards, as well as US data security requirements. The solution also complies with all EU privacy requirements and follows the more stringent German legal requirements for data backup and recovery.

Download SEP Today!

Download the fully-functional backup solution, including full support, for a free 30-day trial at:

<http://sepusa.com/download-trial>

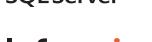
Operating Systems

 Windows Server 2012
 Novell  redhat

   
 debian 
 univention 

Applications

 
 Novell 
 Microsoft SharePoint  OX openxchange 
 openLDAP 

 SAP  JIRA 
 ORACLE 
 Microsoft SQL Server  PostgreSQL 
 Informix 
 INGRES 

 vmware 
 CITRIX 


Multi-Platform Data Availability

SEP is highly scalable and designed to back up heterogeneous client and server architectures, regardless of size. This eliminates the need for multiple backup solutions and allows for an entire IT infrastructure to be managed under one umbrella.

SEP's patented Multi-Streaming Technology leverages full network capabilities to provide multiple simultaneous backup streams. This functionality provides the fastest transfer rates and the most efficient backups possible. In optimized systems, backups exceed 2.5 TB per hour per server/media agent.

Ideal for Company Expansion and Data Growth

SEP is easy to implement and flexible to any growing or changing environment.

The main SEP console can be installed on either a Microsoft, Linux, or Solaris server. Then, either à la carte or capacity based licensing can be selected to adapt to any enterprise environment, which reduces costs and allows for complete customization. With à la carte licensing, add online databases, Groupware modules, disaster recovery, and virtual backup capabilities as company needs expand and budgets allow or choose the flexibility of an all-inclusive capacity base license model.

Virtualized Environments

PROTECT VIRTUAL MACHINES WITH SEP

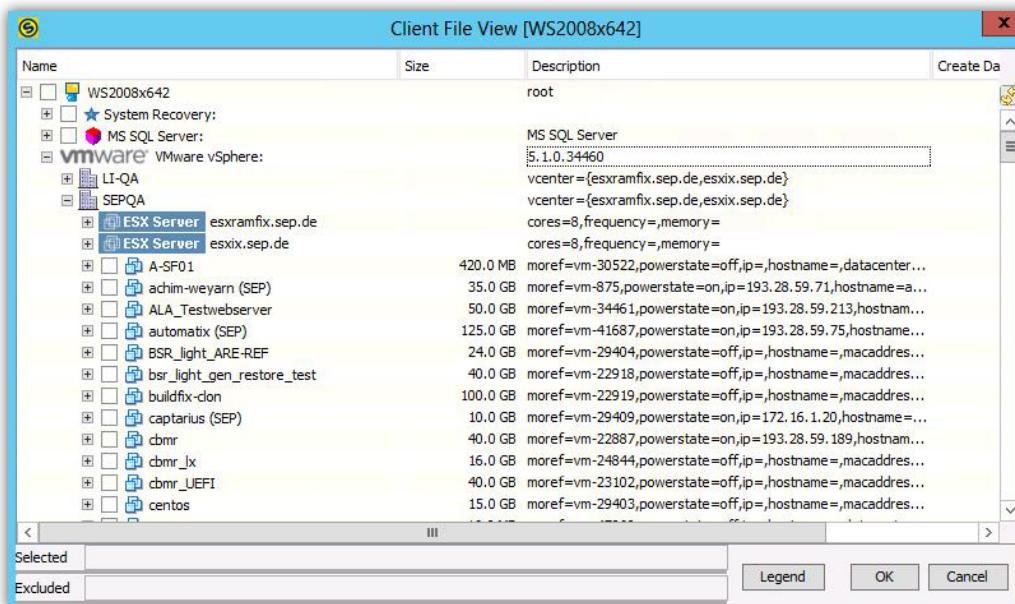
SEP and Virtualization

When designing a virtual environment, a comprehensive backup and recovery strategy must be considered before implementation. Utilize best practices that centralize management and process controls to ensure easy monitoring and the security of the environment.

SEP offers outstanding backup options for virtual platforms, including VMware, Hyper-V, RHV, Citrix XenServer, and XEN. SEP virtual solutions are fully integrated, are easily installed enterprise-wide and allow for the maximum flexibility when designing backup strategies.

Key Features

- Agentless technology
- Single-file restore for VSS on Windows, Linux and Unix guests
- VM snapshots, image level backups for all supported operating systems
- Automatically or manually restore to other hosts, HA clusters, or pools
- Easily create automated warm standbys onsite or offsite for DR or QA
- Convert between virtual and physical servers [P2V and V2P]



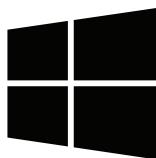
“Since installing SEP, the time we spend working on backup related issues has shrunk by a factor of 90%. In addition, the acquisition cost of SEP was less than the maintenance fee of our old backup software.”

*John Carpenter
Georgetown University*

SUPPORTED VIRTUAL PLATFORMS

vmware®

CITRIX®

 Microsoft®
Hyper-V™

 redhat.

VMware

- Restart VMs directly from a backup copy, completely eliminating any downtime
- Full or incremental backups with Change Block Tracking (CBT)
- Full support of ESX backups through a VCB proxy, VADP or direct access to the hypervisor

Citrix XenServer

- Online hot and warm backup and restore options using the XenServer API
- Restores all VMs with activated O/S product code as well as all third party licenses (Activation Loss Prevention)
- Backs up host-specific info and metadata
- Full integration and support for XenDesktop and XenApp

Microsoft Hyper-V

- File consistency with VSS
- Exchange/SQL/SharePoint aware

Red Hat Virtualization

- Agentless, native API, uninterrupted snapshot backups
- SEP communicates directly with the RHV hypervisor. VMs are backed up via direct communication with the hypervisor.

Deduplication & Replication

EFFICIENT BACKUPS WITH SEP

SEP Si3 Deduplication

SEP Si3 Deduplication is a scalable, high-performance, inline, global dedupe solution that optimizes disc capacity and provides data access for both deduplicated and non-deduplicated DataStores. It delivers extremely fast restores due to the deduplication repository's direct block-level access with zero file system overhead, eliminating any performance degradation during read operations. By using variable block sizes, users can compress more data into smaller footprints and maximize limited disk space.

Deduplication processes can be set by the main SEP management console to start during a backup or can be scheduled to occur at a set time on a regular basis. This flexibility allows the end user to accommodate different use cases for both deduplicated and raw data.

SEP's software-based deduplication runs on any hardware and consolidates data, eliminating the need for expensive, hardware-based, deduplication appliances.

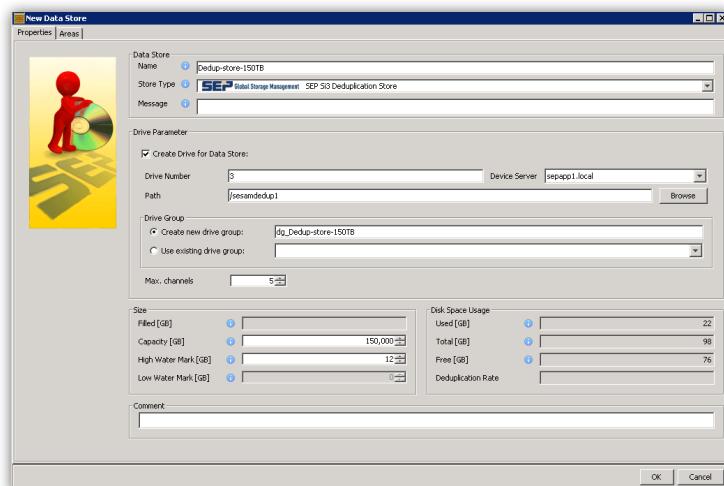
Utilize disk space more efficiently and reduce storage costs with SEP's highly efficient deduplication solution.

SEP Si3 Replication

SEP Si3 Replication is an easy and secure way to consistently replicate data between a main data center, a disaster recovery site, remote locations, or to the cloud, providing redundancy for disaster recovery as well as reducing overall disk and tape storage requirements.

Users can maximize their existing infrastructure by creating off-site warm standbys and/or replicating data from any node to any other node. Since SEP is completely hardware agnostic, users can replicate to dissimilar hardware among as many nodes as desired.

Used in conjunction with SEP Si3 Deduplication, this feature will ensure faster backup windows, improved performance and additional data security.



“ I can definitively say that SEP backs up our environment at least twice as fast, uses only one server instead of two, and our backups complete well within our backup window, so it is much faster than our old solution. ”

Clint Scott
Mount Aloysius College

Deduplication + Replication

- Maximizes existing infrastructure by creating off-site warm standbys and/or replicating data from any node to any other node
- Provides a space-efficient repository for SEP DataStores
- Reduces disk storage needs and data center power consumption
- Achieves longer retention periods on backup media
- Supports any type of disk storage



Key Features	Availability
Deduplication Technology	Global, Inline
Direct Block-Level Access (Restore)	✓
Multi-Stream Backup Integration	✓
Replication	Block-level
Replication Bandwidth Savings (WAN)	Up to 97%
Unique Data Transferred only once from Remote Sites to Data Center	✓
Maximum Dedupe DataStore size	4 PB
Disk Storage Savings	Up to 300:1
SEP Management Interface Integration	✓
Deduplication	Real-Time (Inline)
Storage Attachment	Server, Remote Device
Variable Block-Size	Down to 2K Block Size
Installation Base	Physical, Virtual
Supported Architectures	64 bit

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SEP Easy Archive

MULTI-PLATFORM DATA AVAILABILITY

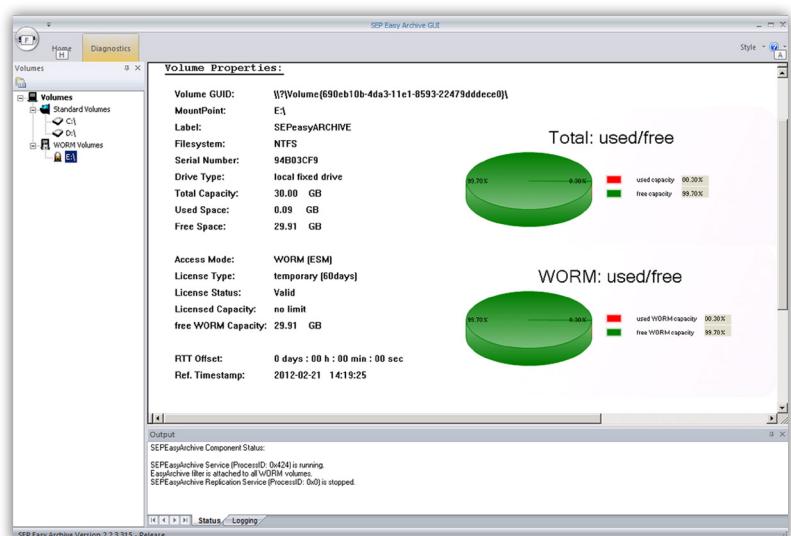
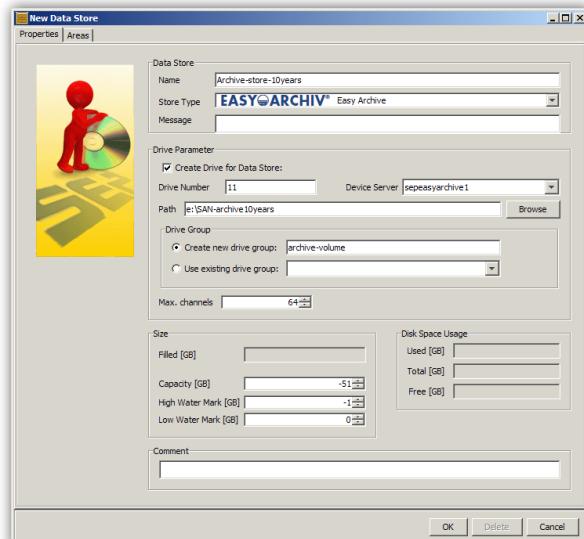
Archiving Made Simple and Efficient

SEP Easy Archive stores data in an unchangeable format and uses Write Once, Read Many (WORM) Technology to prevent unauthorized and unintentional loss or deletion of data. SEP Easy Archive writes to NTFS formatted disk drives and RAID arrays and is able to easily cluster multiple systems and disk drives.

This solution can be directly installed on Windows physical servers or a virtual machine running on any Hypervisor, including VMware, Citrix XenServer, Microsoft Hyper-V, or XEN.

Document management software solutions can also easily utilize SEP Easy Archive to find and utilize protected data on secured disk drives.

SEP Easy Archive is a valuable addition to backup architectures, providing enterprise-level backups with a fully-featured archiving solution to meet or exceed all legal and government requirements.



“The performance of SEP went above and beyond what we expected of the product. The time it takes to complete a full backup has decreased by 235%!**”**

*Dustin Hurshman
City of Thousand Oaks*

SEP Easy Archive Quick Facts

- Enterprise-level backups with fully-featured archiving solution
- Stores data in unchangeable format
- Prevents unintentional loss or deletion of data
- Install on Windows or any virtual machine
- Meets or exceeds all legal and government requirements



Key Features	Availability
Write Once, Read Many (WORM) Technology	✓
Audit Compliant - Conforms to SOX / HIPPA / GdPdU / GoBs	✓
SnapLock Interface	✓
Storage Replication to Cloud	✓
Archiving Set Manually	Directory or File-Level
Manage Access to the Data via Operating System	✓
Archive Every NTFS File System	✓
RAID & Cluster Support	✓
Hypervisor Support	VMware Hyper-V Citrix
Archiving of File Systems	✓
Edit Archival Periods	✓
Scalability	✓
Simple Installation and Administration	✓
Data Erased After Archive Date	✓
Application-Independent	✓
Supported Architectures	32 & 64 Bit

Bare Metal Recovery

PROTECT YOUR DATA FROM DISASTER

Disaster Recovery

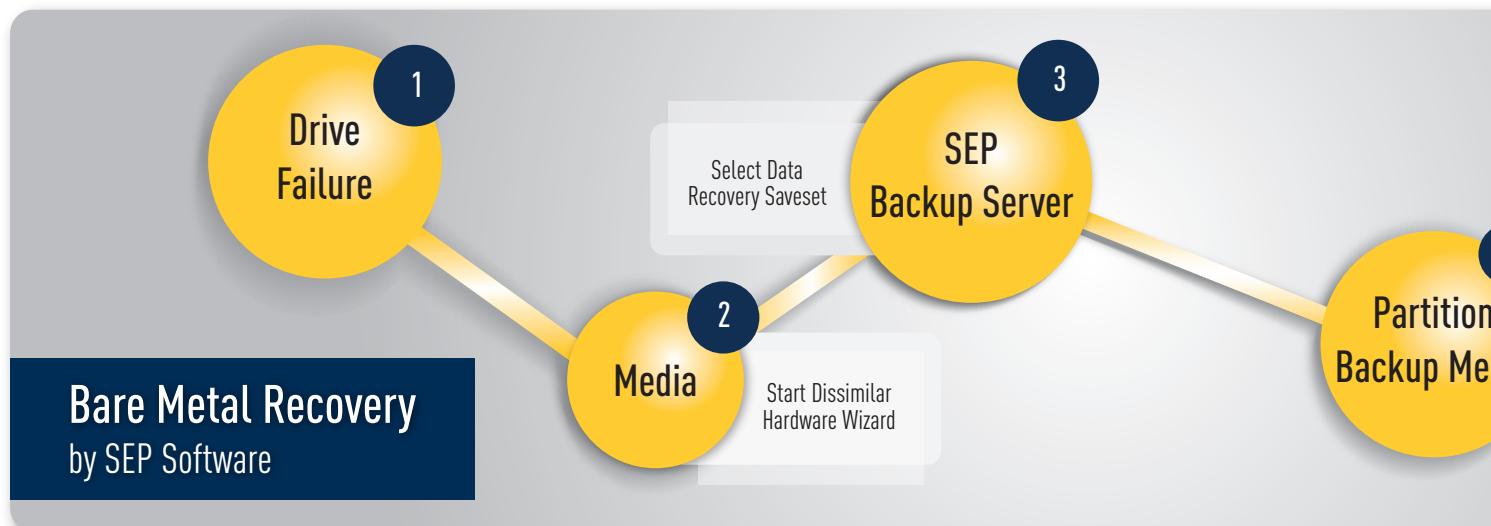
By utilizing SEP's Bare Metal Recovery, users can restore entire servers, operating systems, and databases quickly and easily using a universal boot medium. This recovery method can be achieved within minutes, regardless of the type of hardware in use.

SEP's Bare Metal Recovery module is fully integrated into the SEP interface to ensure a fast and complete system recovery. The data flow for the entire enterprise can be controlled from a single management console.

Dependability

The SEP Bare Metal Recovery module guarantees a fast and secure recovery of all company data. SEP ensures that in the event of a disaster, all data and information can be recovered to completely recreate the original environment.

System administrators managing company infrastructures know that server storage devices frequently fail. According to Google System Labs, approximately 140,000 hard drives abruptly fail every week, destroying petabytes of data. With SEP Bare Metal Recovery, disk and system failures are no longer a devastating occurrence.



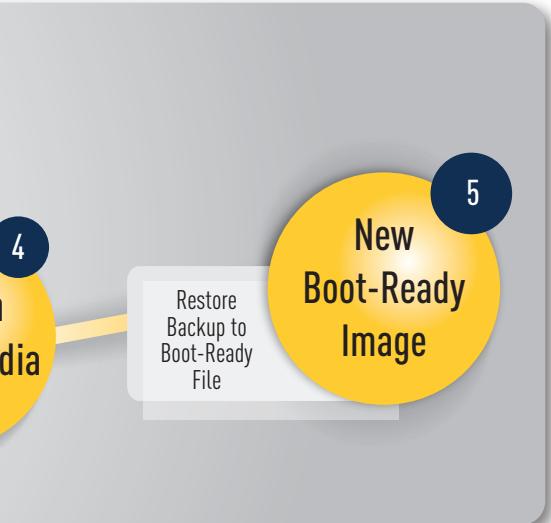
“The result was just astonishing! SEP was able to do a full backup within 3 to 4 hours when our previous solution took 4 days to perform the same tasks on exactly the same hardware.”

*Frank Uittenbosch
Netherlands Institute for Space Research*

How it Works

SEP's Bare Metal Recovery module provides snapshot backups and can be restored to any media. The data repository can be selected using a disk-to-disk or disk-to-disk-to-tape strategy.

After a system disaster or drive failure, the media is inserted into the new server. The computer is then connected to the network to establish a connection with the SEP backup server. Next, the desired saveset is selected and the automated recovery begins.



Resurrect Your System, Fast!

- Available for Windows and Linux servers and Windows workstations
- Fully integrated into the SEP GUI for a single point of administration
- Quickly and comprehensively restore clients without prior partitioning or installing operating systems
- Servers/workstations are bootable in minutes
- Disaster recovery processes using SEP Bare Metal Recovery solutions are nearly automatic

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Backup & Disaster Recovery

SEP Software is a premier technology leader providing high-performance backup and disaster recovery solutions for professional IT environments of all sizes. SEP delivers a single solution with one central interface to easily manage backups for both physical and virtual, heterogeneous environments.

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