

SEP sesam

Hybrid Backup

#1 for the Entire IT Infrastructure



SEP sesam

Enterprise Backup & Disaster Recovery, Deduplication & Archiving

One Enterprise Backup Solution

SEP sesam is ideal for every IT-environment. From small businesses up to major enterprises, SEP sesam supports all common operating systems, virtualization platforms, applications, databases and storage technologies.

Secure enterprise-wide backups, restores, and disaster recoveries are extremely fast and easy to implement and to perform.

SEP sesam's multi-streaming technology allows simultaneous backups of an unlimited number of servers. The result is maximum speed performing restore-oriented backups.

Find out why so many of our customers are pleased to receive the daily email stating:

“SEP sesam has completed all backups and restores successfully!”

By implementing the newest deduplication feature, storage capacities and network loads can be substantially minimized. Block-level replication of deduplicated data between datacenters is very effective.

SEP sesam is specialized in hot backups of applications, databases and files in multi-OS environments.

The backup and migration of data is very flexible.

SEP sesam's newest addition, SEP EasyArchive, allows companies to create an unalterable, constant data store for desired retention and legal requirements.

The management interface allows users to easily manage thousands of systems, around the world from a single location.

SEP has its headquarters south of Munich, Germany and in Boulder (Colorado, USA). Distributors, resellers and service partners supporting SEP sesam around the globe.

Application & Database Hot Backups

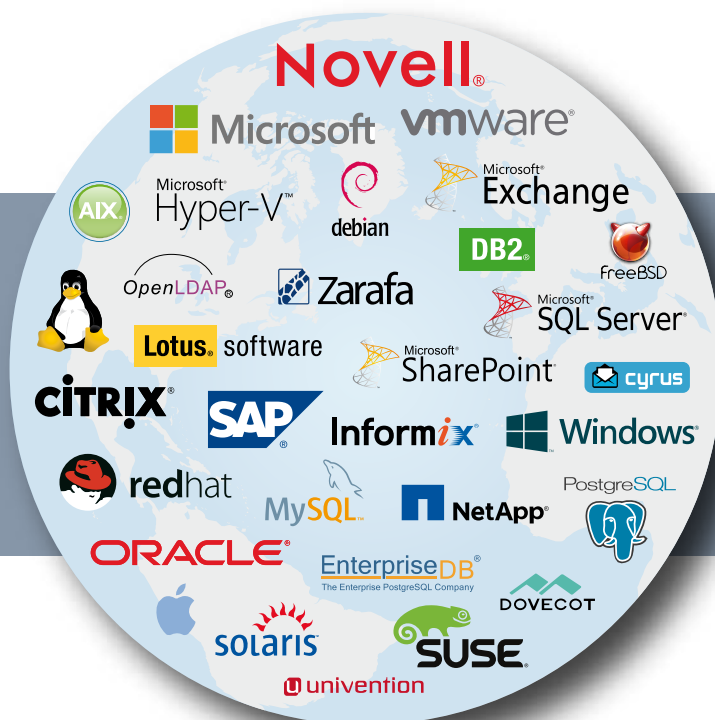
SEP offers the largest portfolio of hot backup modules for applications, groupware solutions and databases delivered for a variety of operating systems. The support of application-specific tools is mandatory.

Multi-Hypervisor Support

SEP sesam proves its worth thousandfold everyday when backing up and restoring virtual machines and it is certified for virtualization solutions.

Virtual infrastructures are clearly arranged in the SEP sesam Management Interface - this simplifies implementation and monitoring of automated backup, migration and restore processes.

One of the most
Efficient ways to
Protect your data



Certified

With many years of experience developing backup software SEP sesam is a multiple certified solution.

SEP sesam is User Optimized

SEP sesam provides a central management interface for easily keeping an overview on multi-site management, analytics and reporting - for standardized operations and risk management.

SEP sesam is Designed with Company Expansion, System Evolution and Security in Mind.

Install SEP sesam Today

A fully operational SEP sesam software package is available for a 30-day period for all supported operating systems and can be obtained via download from our website at www.sep.de / www.sepsoftware.com.

Register and get free personal demo support for 30-days.

SEP sesam Modules

Deduplication	4	Oracle	16
Linux, Mac	5	SAP	17
Microsoft	6	IMAP	18
Novell	8	Zarafa	19
Disaster Recovery	10	MySQL	20
VMware	12	PostgreSQL	21
Citrix Xen	13	Archiving	22
IBM	14	Networkwide	23

SEP sesam provides a cohesive data protection strategy:

- + Central Management
- + Complete Protection
- + Efficient Storage
- + Flexible Recovery

Deduplication

Inline or Offline

Facts

Two deduplication solutions are available. SEP sesam Si3 inline deduplication and SEP FDS VA (File-interface Deduplication System Virtual Appliance powered by FalconStor) off-line deduplication. Both are block-level deduplication and replication solutions, providing space efficient storage and reducing the need of backup media capacity dramatically. Power consumption (+ costs for air conditioning) in data centers decrease. Easy replication of backups to another location are fundamentally increasing the security of enterprise data.

How it works

During deduplication, the system analyzes data-blocks. SEP sesam Si3 deduplicates all data in real-time while SEP FDS VA temporarily stores the backup data on a separate storage and deduplication starts when the backup job is finished.

The SEP sesam Management Interface displays the backed up files in their real format to keep the restore process usual simple. A reason for block-level type deduplication instead of a file-based deduplication is that a block-level solution examines small sub-blocks and this is making it far more effective reducing storage consumption.

Solution	Si3	FDS VA
Deduplication technology	Concurrent block-level	Concurrent block-level
Direct block-level access (restore)	✓	✓
Multi Stream Backup Integration	✓	✓
Replication	block-level	block-level
Replication bandwidth savings (WAN)	up to 97%	up to 97%
Unique data only once transferred from remote site to data center	✓	✓
Physical managed capacity	4 PB per DataStore	1 TB up to 64 TB
Disc storage savings	up to 60:1	up to 24:1
SEP sesam Management Interface integration	✓	✓
Deduplication	real-time (inline)	scheduled (offline)
Storage attachment	Server, Remote Device	Appliance
Variable block-size	✓	
Installation base	physical, virtual	virtual (VMware)
Supported architectures	64 bit	64 bit
Evaluation	30 days	30 days

Linux

High Performance

Mac OS

Setup and Forget

Linux

SEP is delivering backup solutions for Unix and Linux environments for about two decades now.

This knowledge and strong partnerships with Linux vendors ensure reliable backup solutions in Linux environments including virtualized systems and hot backup solutions for various applications and databases.

Product Highlights

- **Large Portfolio of Linux Distributions** is supported
- **Linux based Backup Server** available
- **Certified** for Red Hat, SUSE and Univention
- **High Performance Backups**
- Performing **LVM Snapshots**
- **ACL Recovery**
- Various **File Systems** are supported
- **Cluster Ready**
- **Deduplication** on Linux based Backup Server / Remote Device
- **Disaster Recovery** for Linux systems
- **VMware vSphere:** High Speed Recovery of single files and ACL Recovery
- **Hot Backup Modules** for many Linux based DBs and Applications
- SEP is part of the **Open Source** Community



Mac OS

SEP sesam provides a real cross platform backup solution including powerful Mac protection.

Small companies or organisations often additionally use other operating systems like Microsoft, including Exchange, for their daily business.

SEP sesam covers all data protection needs and easily can be used as a setup and forget solution. Flexible management of long term backups and deduplication capabilities fit ideally to the needs of creative people.

Product Highlights

- **Easy configuration**
- **Setup and forget**
- **Mac Management Interface**
- **ACL Recovery**
- **One Central Backup Solution**





Microsoft

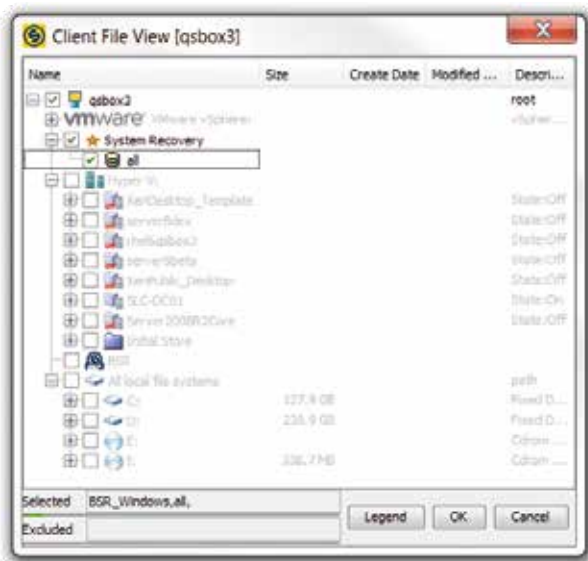
Ready for a Complete Recovery

Windows

SEP offers comprehensive backup solutions for Microsoft environments. Virtual server infrastructures (VMware, Hyper-V, Citrix XenServer) can also be integrated in a company-wide backup concept. SEP sesam backs up all components reliably to allow fast and complete recoveries of all Windows components.

SEP bare metal restore for Windows gives administrators a powerful and flexible tool to recover systems on dissimilar hardware. This minimizes downtime after a server crash. Server/Workstation migration to different hardware is also supported.

SEP sesam operates in heterogenous environments and performs cross platform backups and recoveries - enterprise-wide.

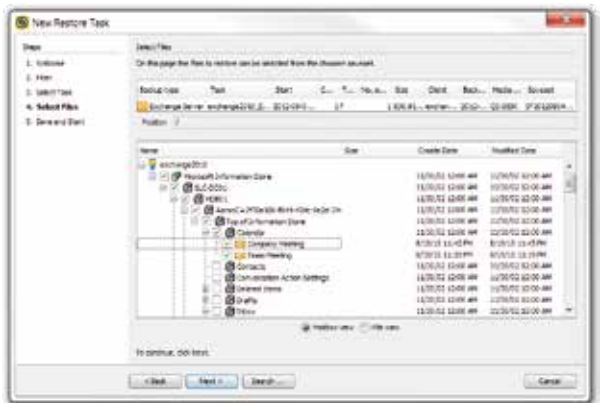


Exchange Server

SEP recognizes the need for nondisruptive mechanisms to protect Exchange data. SEP sesam for Microsoft Exchange helps to provide the performance and flexibility required for effective backup and recovery operations within large Exchange environments.

Product Highlights

- **Hot Backup** - Complete, nondisruptive protection of Exchange databases and mailbox components, including incremental mailbox backups.
- **Flexible Restore Options** - Rapid, granular recovery of Exchange Servers, databases, mailboxes, single emails and items.
- **DAG support** - perform hot backups of database availability groups to reduce the workload of the active Exchange databases
- **Volume Shadow Copy Services (VSS)** integration



SQL Server

Since 1996, SEP develops and provides proven database hot backup solutions. Therefore SEP sesam offers a robust solution for Microsoft SQL databases.

Product Highlights

- **Backup types** - SEP sesam supports full, copy, differential and incremental (transaction log) backups.
- **Cross restore of databases** - Easily recover databases to different SQL-servers or instances.
- **Create unattached databases**
- **Interactive browsing of databases** - With the assistance of the SEP sesam client browser it is possible to select the database(s) for backup via management interface

SharePoint

Microsoft SharePoint server is one of the main components in company communication. SEP sesam performs granular hot backups and restores of all Microsoft SharePoint server components.

Product Highlights

- **Robust Data Integrity**
- **Granular Restore Options** - Disaster recovery of an entire SharePoint Farm. Recovery of different databases, site collections or single items.
- **Easy to Use** - SEP sesam management interface provides full control to centrally protect SharePoint environments.
- **Run-Time Detection** - Dynamic detection of new databases and SharePoint hosts allows continuous SharePoint data protection.

Hot Backup Solutions for Microsoft

- ✦ Exchange
- ✦ Hyper-V
- ✦ SharePoint
- ✦ Windows (incl. Bare Metal Restore)

Hyper-V

SEP sesam Hot Backup for Hyper-V is the ideal solution for virtualized environments. The high standards of SEP sesam Windows system protection are included in the Hyper-V hot backup module.

The precise depiction of Hyper-V infrastructure is displayed in the SEP sesam management interface showing available virtual guests and power status. It simplifies planning and execution of automated backup processes.

SEP sesam is a single, enterprise backup solution and, by implementing SEP sesam, companies will realize savings in operating expenses, time and manpower.

Full integration into the backup environment	✓
Full integration into the management interface	✓
Restore, replicate VMs onto the original system or an alternative system (time controlled)	✓
Open File Backup	✓
Windows VSS Snapshots	✓
Encryption (stream, media)	✓
An unlimited number of VMs is supported	✓
Small Backup Footprint	✓
Supported VMs	Windows, Linux
Backup Methods	Hot, Cold
Backup Types	Full
Granularity	Image-Level
Cluster-Support	✓



Novell

The perfect solution for every Novell Environment

Facts

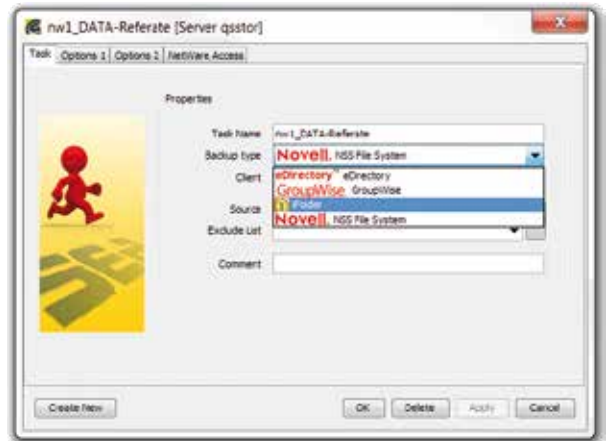
SEP sesam is the perfect solution for Novell® environments whether exclusively Novell IT networks or in enterprise-wide, heterogenous IT environments running multiple operating systems. SEP sesam offers unmatched functionality in backup and recovery of all Novell applications.

Novell Data: Fast and Easy Restores.

The amount of backed up data is growing exponentially. For quick, restore-oriented backups of many coexistent backup sources, SEP sesam multiplexing technology with an unlimited number of parallel streams is the quickest solution. This enables system managers to optimize their company's backup strategy. SEP sesam supports LAN-free backups and restores.

Novell GroupWise: Every Single E-Mail.

The SEP sesam Novell GroupWise hot backup module backs up your emails regularly and ensures uninterrupted 24x7 access to the GroupWise server. Users that have accidentally deleted an email can recover it without help of an administrator via the restore area.



Novell Open Enterprise Server: Cluster Ready.

SEP sesam cluster protects entire cluster environments with Novell Open Enterprise Server Linux and Novell Open Enterprise Server Novell Netware. If one node has a blackout SEP sesam affords an uninterrupted retention of the current backup on another node.

SEP sesam protects virtualized Novell environments on the following virtualization platforms:

- + VMware
- + Microsoft Hyper-V
- + Citrix XenServer

Novell Open Enterprise Server: Disaster Recovery.

SEP sesam masters the native protection of extended file attributes - a time-optimized backup is made possible. SEP sesam Bare System Recovery for Linux restores a Novell Open Enterprise Server within minutes.

Novell Vibe: Hot Backup with every Database.

All databases supported by Novell Vibe are backed up without interruption by SEP sesam hot backup modules. The protection of directories used by Novell Vibe get backed up consistently with snapshot technology for a fast and simple recovery.

NetIQ eDirectory: Single Item Restore.

SEP sesam backs up NetIQ eDirectory files with all permissions (ACLs). All backed up files can be restored individually on any computer and in any location.

All Novell:

- + NetIQ ® eDirectory™
- + Novell Filr ®
- + Novell GroupWise ®
- + Novell iFolder
- + Novell Netware
- + Novell Open Enterprise Server
- + Novell Open Workgroup Suite
- + Novell Storage Services™ Volumes
- + Novell Vibe ®
- + SUSE ® Linux Enterprise Server

Novell Target Service Agent: Hot Backup.

SEP sesam uses Novell Target Service Agent technology to perform consistent backups with all trustee rights during operation of Novell Storage Services Volumes, NetIQ eDirectory, Novell iFolder and Novell GroupWise.

Novell Storage Services Volumes.

SEP sesam supports Novell Storage Services volumes including trustee rights. Lost data can be restored by using the intuitive restore wizard with all user permissions.

Novell NetWare on Novell Open Enterprise Server: Migration.

With SEP sesam or the SUSE Linux based SEP sesam backup appliance Novell NetWare data can be migrated very easily to Novell Open Enterprise Server. During migration the data structure is arbitrary.

Disaster Recovery

Bare Metal Recovery for Windows & Linux

Facts

System administrators managing lots of systems know that storage devices in servers frequently fail. According to Google System Labs, every week around 140,000 hard drives abruptly fail, thereby destroying many Petabytes of data.

With the release of SEP sesam Bare System Recovery, disk drive and system failures need no longer be a devastating occurrence.

SEP disaster recovery solutions allow to simply replace a computer system or disk drive and restore the environment to full operation within minutes.

Like the phoenix rising out of the ashes, SEP sesam Bare System Recovery easily restores systems to its previous state - in the shortest time possible. Settings for an entire system and all user data are quickly restored to a new server.

Fast Recovery

System recovery takes between 10 and 30 minutes depending on data volume, hardware and network performance.

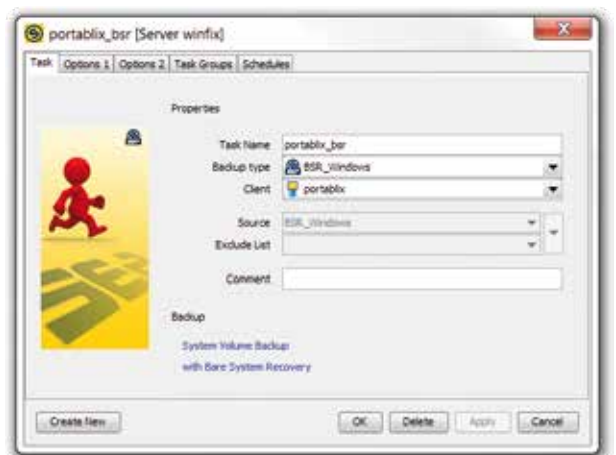
Along with SEP sesam backup software, SEP sesam Bare System Recovery controls the restoration of operating systems and complete user data after a breakdown.

SEP sesam BSR offers the capability to quickly and comprehensively restore clients without prior partitioning or installing an operating system, with a bootable SEP BSR Media.

The restoration of the chosen client is controlled centrally through the SEP sesam server and is available for Linux and Windows operating systems.

Advantages

SEP bare metal recovery solutions are fully integrated in the SEP sesam backup concept. Single point of administration is the key to have all data available for a fast and complete system recovery.



Migration

Migration made easy. Migrate from physical to virtual systems or from virtual to physical machines using SEP sesam Bare System Recovery.



After a complete failure of a server, system administrators quickly understand that time is indeed money.

With SEP sesam Bare System Recovery, the restore of an entire server, its operating system, all adjustments and files is performed quickly and easily - using only a universal boot media, regardless of the type of hardware in use.

Solution	Windows BSR Dissimilar	Windows BSR	Linux BSR
Automatic hardware and driver detection	✓	✓	✓
Restore to larger or smaller partitions	✓	✓	✓
Change partition size during restore to a partition that is physically larger than the original partition	✓	✓	✓
Backup encryption option	✓	✓	✓
Command line interfaces	✓	✓	✓
Individual partition restore, leaving others intact	✓	✓	✓
Run batch programs before and after system restore	✓	✓	✓
Universal boot media (CD, DVD, flash, USB, etc.)	✓	✓	✓
Multiple servers can be recovered simultaneously	✓	✓	✓
Supports IDE, SCSI, SATA and Fibre channel, hardware RAID, clustered servers, SAN and NAS	✓	✓	✓
Protects mission critical servers from the consequences of both physical damage and corruption of the operating system	✓	OS only	OS only
Restore to similar or dissimilar hardware	✓	similar only	similar only
Wizard based Recovery	client based	server based	server based
Disaster Recovery	P2V, V2P, P2P, V2V	P2P, V2V	P2P, V2V
Recovery of dynamic disk volume	✓		
Server migration to new hardware	✓		
Supports Itanium, 32-bit and 64-bit processors	✓		
File-by-file backup: no disk image		✓	✓
Evaluation	30 days unlimited	30 days unlimited	30 days unlimited

VMware

Ready for vSphere

Facts

SEP sesam proves its worth thousandfold everyday when backing up and restoring virtual machines and it is certified for virtualization solutions.

Virtual infrastructures are clearly arranged in the SEP sesam Management Interface - this simplifies implementation and monitoring of automated backup, migration and restore processes.



Product Highlights

- **Fast Installation** - SEP sesam Easy Access technology
- SEP sesam management interface resembles **VMware vCenter** to make navigation intuitive
- **Flexible Disaster Recovery** with Restore Wizard
- **Hot Backup Modules**
In order to consistently back up data from applications, databases, groupware-, email- and Enterprise-Content-Management (ECM) systems SEP sesam offers a large selection of hot backup modules to ensure the consistency of data in case of a recovery.

Easy Access Technology	✓
Full integration into the backup environment	✓
Full integration into the management interface	✓
Restore, clone, replicate VMs onto the original system or an alternative system (time controlled)	✓
Open File Backup	✓
Windows VSS Snapshots	✓
Encryption	✓
An unlimited number of VMs is supported	✓
Small Backup Footprint	✓
Disaster Recovery of VMs	all operating systems
Backup Methods	Hot
Backup Types	Full Thin Full* Block-Level Incremental
Granularity	Image-Level Image-Block-Level Level Single File
Start VMs directly from the SEP sesam DataStore	✓
VMware Cluster-Support	✓

* only backs up the real data of a VM

Citrix Xen

Disaster Recovery for Hypervisors

Facts



The SEP sesam Citrix XenServer Extension offers disaster recovery functionality for Citrix VMs, which has been previously unavailable in the marketplace.

The precise depiction of the XenServer infrastructure is displayed in the management interface showing available virtual guests, simplifying planning and execution of automated backup processes. Any XenServer environment is backed up and protected without any additional effort.

By implementing SEP sesam's extension for XenServer, companies will realize savings in operating expenses, time and manpower.

Easy Access Technology (Agent-less)	✓
Backup Environment Integration	✓
Management Interface Integration	✓
Resolves License Activation Loss	✓
Open File Backup	✓
Windows VSS Snapshots	✓
Encryption	✓
Verified for Citrix XenServer, XenDesktop, XenApps	✓
Physical Server to Virtual Server Converting (P2V)*	✓
Disaster Recovery on VMs	all Operating Systems
Backup Methods	Hot, Cold
Backup Types	Full
Granularity	Image-Level

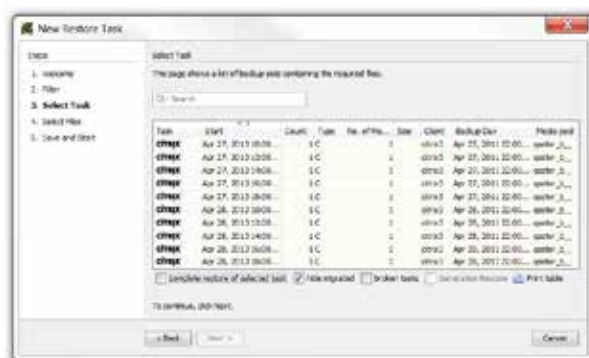
* using SEP sesam BSR for Windows (SEP bare metal restore solution)

SEP sesam is ready to protect every Citrix environment.

- ✦ XenServer
- ✦ XenDesktop
- ✦ XenApps

Agent-less access (Easy Access Technology)

The SEP sesam server is able to communicate natively with the XenServer environment, eliminating the requirement for a backup agent to be installed on the hypervisor. This optimizes performance for backups and reduces the need to communicate with agents on the guest Virtual Machines for full system backups.



IBM

Trust in SEP sesam

IBM DB2

SEP sesam hot backup for IBM DB2 provides a XBSA interface between DB2 and SEP sesam for backing up data of DB2 databases with a SEP sesam server.

The XBSA API manages the access from DB2 backup utility to SEP sesam. The backup and restore processes are managed by SEP sesam, while DB2 API decides which data have to be backed up or recovered.

Product Highlights

- **Flexible Backup Options** - full or incremental database hot backup and backup of archive logs.
- **Automated Scheduling** - Leverage the SEP sesam scheduler for automated, unattended DB2 backups.
- **Wizard-Based Configuration** - Step-by-step configuration of DB2 backup and recovery via an intuitive, graphical, wizard-based interface.

Informix Dynamic Server

SEP sesam hot backup for Informix provides a XBSA interface between Informix and SEP sesam for backing up data of Informix databases to a SEP sesam server.

XBSA API specifies the access from Informix ONBAR utility to SEP sesam. The backup and restore processes are managed by SEP sesam, while ONBAR decides which data have to be backed up or recovered.

Product Highlights

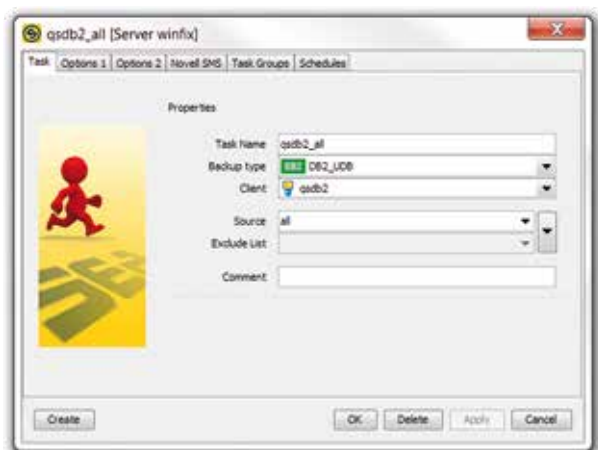
- **Continuous Logical Log Backup** - Configure automated logical log backup to help prevent logical logs from filling up and locking up the database server.
- **Flexible Backup Options** - Backup and restore at the dbspace, blobospace, and logical log file level.
- **Parallel Backup and Restore** - Enables administrators to run more than one storage device at a time for a single Informix backup or restore, helping reduce the time necessary to complete the operation.

Lotus Notes and Domino Server

SEP offers high-performance backup and recovery for Lotus Notes and Lotus Domino server with SEP sesam extension for Lotus Notes. Administrators may leverage intuitive GUIs to help set consistent backup policies across the enterprise and to quickly identify critical Lotus files or databases when they need to be restored.

Product Highlights

- **Backup Method Flexibility** - Support for scheduled, unattended backups, manual backups, and user backups, which allow end users to back up and restore prespecified Lotus data.
- **Alternate Restoration Techniques** - With backups not tied to a specific backup server, SEP sesam software may restore Lotus data either on an alternate system or in an alternate directory.



Hot Backup for IBM Solutions

- ✦ IBM DB2
- ✦ Informix Dynamic Server
- ✦ IBM Lotus Notes

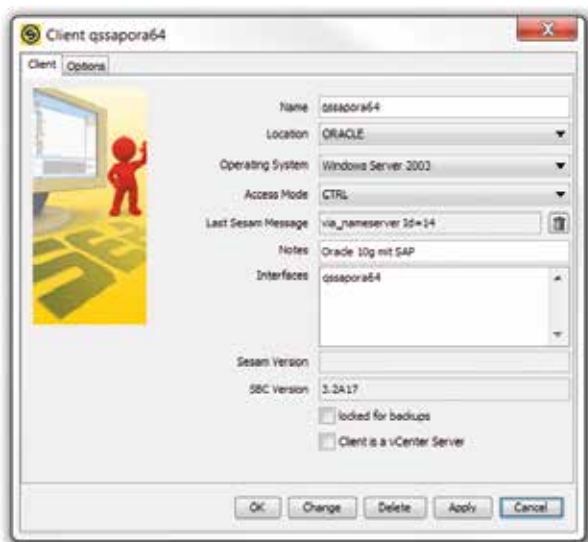
Granularity	Mailbox Database / Complete Server
Backup methods	Hot
Backup types	Full, Incremental (Transaction Loggings), Copy
Lotus backup API support	✓
Point-in-time recovery	✓
Supported platforms	Linux & Windows
Backup of Partition Servers	✓
DAOS support	✓
Domino cluster support	active-active, active-passive
Restore to different Notes and Domino versions	same version or greater
Recovery to different servers	✓
Version support	IBM Lotus Notes and Domino from 4.6
Management Interface integration	✓

Oracle

Database Hot Backup

Facts

The SEP sesam Hot Backup Module for Oracle offers a solid and scalable solution to protect Oracle databases. The Oracle Recovery Manager (RMAN) is fully supported by SEP sesam to provide backup and recovery operations for Oracle databases on Linux, Solaris, AIX and Windows. SEP sesam offers a Media Management Library (MLL) specified by Oracle. With this technology it is possible to perform full and incremental backups while the database is online. The database is still accessible during all backup and restore operations.



SEP sesam Hot Backup Module for Oracle manages backup media handling, scheduling, migration, etc. while RMAN controls which data has to be saved or recovered.

With the intuitive SEP sesam Management Interface all Oracle database backups can be easily configured and scheduled.

Product Highlights

- **Point in time recovery** and disaster recovery
- **Intuitive and easy to use management interface** to configure, schedule and administrate all Oracle database backup jobs
- **Hot Backup.** All databases are still accessible during backup and restore regardless of operating systems in use
- **Backup and recovery with RMAN** to include data files, control files and archive logs. RMAN grants consistent databases during backup and provides flexibility and granularity for recovery
- **Script based restore** with pre-defined scripts to reduce time
- **Oracle Cluster Ware and Real Application Cluster (RAC) environment support**
- **Flexible media handling.** Data can be stored on tape, disk, decentral storage, SAN or NAS.

SAP

Certified Integration

SAP Certified Integration

SEP sesam is one of the highest regarded solutions for SAP environments and has obtained one of the most certifications for a 3rd party software available for SAP environments. SAP has certified SEP sesam's hot database backup, restore and recovery for connectors from Oracle and SAPDB. Furthermore, the uninterrupted operation of backups for databases and metadata were tested and certified.

SAP® Certified
Integration with SAP NetWeaver®

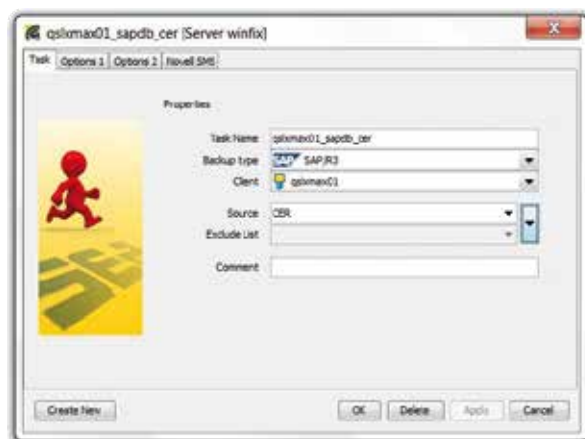
SEP sesam Hot Backup Modules for SAP on MaxDB/SAPDB and Oracle

SEP sesam Hot Backup for SAP assures interruption free backup operation of the respective database directly to the backup media/device, without an intermediate backup to the file system. This hot backup module integrates with the database interface allowing all backup and recovery available to execute without hindrance.

SAP Certifications

- + Oracle DB on Linux
- + Oracle DB on Windows Server
- + Oracle DB on AIX
- + SAPDB on Linux

SEP sesam supports more SAP integration scenarios. Find further information on database and application backup at <http://www.sep.de>



IMAP

Hot Backup for Courier, Cyrus, Dovecot

Disaster Recovery

SEP sesam backup module for IMAP and SEP sesam Bare System Recovery provide an all-embracing recovery of the IMAP server including its operating system. Thereby recovery of the mailservice is made possible in almost no time and with only few steps necessary.

That applies to everything from the partitioning of hard drives and creating of the bootloader (also multiboot) to the installation of operating systems and all present programs.

Restore

With the SEP sesam graphical management interface a searched email or complete mailbox can be restored within a few seconds. A search function is available to find the desired messages easily. SEP sesam Restore Wizard allows the restoration of the selected items at the original destination path or at a new destination. The mailing system is available at all time during backup and restores. Interruptions do not occur, even when receiving or sending emails.

Restores of single mails and complete mailboxes	✓
Management Interface Integration	✓
Encryption	✓
Search box to find emails quickly in the Recovery Wizard	✓
Support of WORM Media to store emails compliant	✓
Backup of multiple versions	✓
Supports Cyrus, Dovecot, Courier IMAP	✓
Graphical Frontend	✓
Backup Methods	Hot
Backup Types	Full, differential, incremental, copy
Granularity	Server, mailbox database, individual mailbox, single email

Zarafa

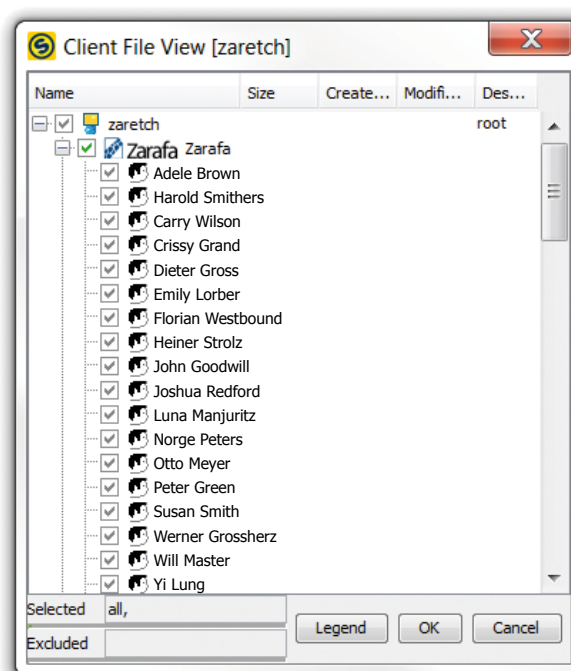
Single Item Recovery

Facts

SEP sesam hot backup extension for Zarafa allows a simple and reliable installation on Linux servers to backup all Zarafa groupware options without interrupting the operation of the groupware server. SEP sesam is perfectly adapted to the technology of Zarafa server to backup emails and items reliably. Proven restore options allowing a simple administration and operation. SEP protects all data and supports restores of single emails and single items via SEP sesam Restore Wizard. The license model ensures a cost-effective backup solution for every Zarafa groupware installation.

Product Highlights

- **Backup Method Flexibility** - Support of scheduled, unattended backups, manual backups, and user backups, which allows end-users to backup and restore prespecified Zarafa data.
- **Restore of single objects (email, contacts, calendar, notes)**
- **Hot Restore**
- **Intuitive Restore GUI**



MySQL

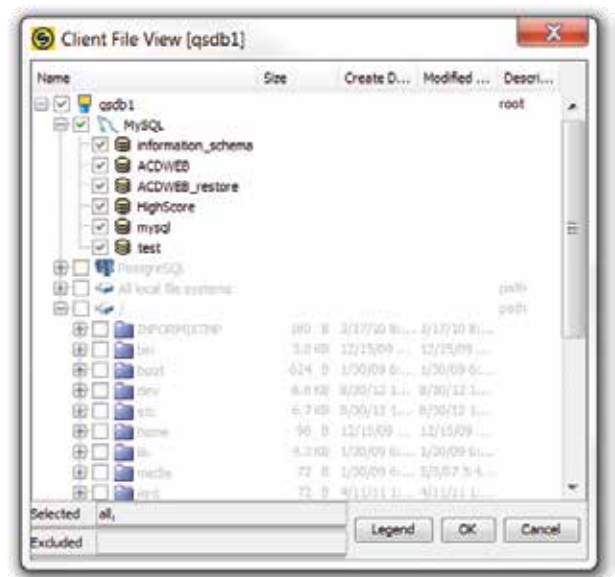
Professional Protection for free Databases

Facts

SEP sesam for MySQL delivers comprehensive data protection for MySQL databases. It provides the performance and flexibility required for effective backup and recovery operations within large MySQL database environments.

Product Highlights

- **Easy to perform** - selection of single or multiple databases for backups and restores
- **Central management**
- **Easy restores** with SEP sesam Restore Wizard
- **Planned restores for instant usage** - Perform scheduled restores on a different server to be prepared for a disaster.
- **Cross Platform Support** - for Linux and Windows based systems



PostgreSQL

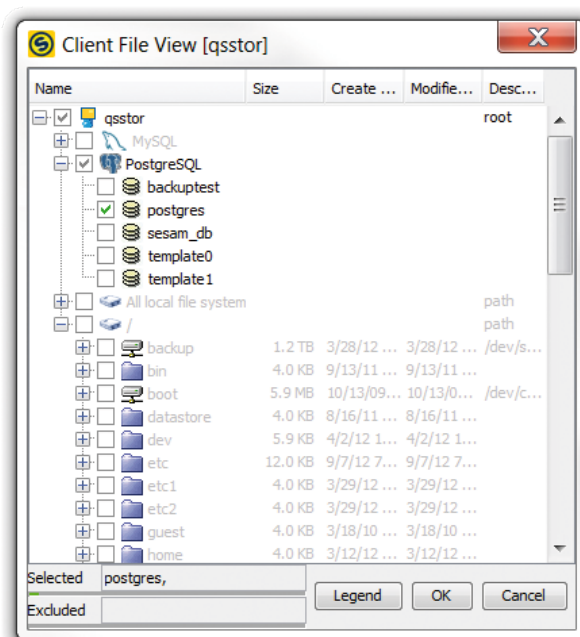
and EnterpriseDB

Facts

SEP sesam for PostgreSQL/EnterpriseDB servers delivers comprehensive data protection for both, PostgreSQL and EnterpriseDB servers. This SEP sesam extension provides high performance and flexibility required for effective backup and recovery operations for large databases.

Product Highlights

- **Flexible Data Protection Options** - Backup and recovery of databases, differentials, files, filegroups, and transaction logs.
- **Read-only data** automatically backed up less frequently.
- **Faster Recovery** - only damaged pages are recovered. Restores can be used to verify PostgreSQL/EnterpriseDB contents of a backup image without actually restoring the data.
- **Point-in-Time Recovery** - Recovers PostgreSQL/EnterpriseDB databases to the exact point in time or transaction log mark by rolling forward only the transactions that occurred prior to a user-specified date and time.



EasyArchive

Revision Proof Archival

Facts

SEP EasyArchive stores data in an unchangeable permanent method – Meets or exceeds all legal requirements.

SEP EasyArchive uses WORM (write once read many) technology to prevent unintentional loss or deletion of data as well as unauthorized edits, changes or deletion of data. The predetermined Data Store is always available to authorized users for a pre-specified archival time. Existing data stores and files can be added at any time using WORM technology.

SEP EasyArchive refines NTFS formatted disk drives and Raid Arrays and can be easily clustered. Computer systems using Windows operating systems and running in virtual environments (i.e. VMware, Hyper-V, Citrix Xen) can be added easily.

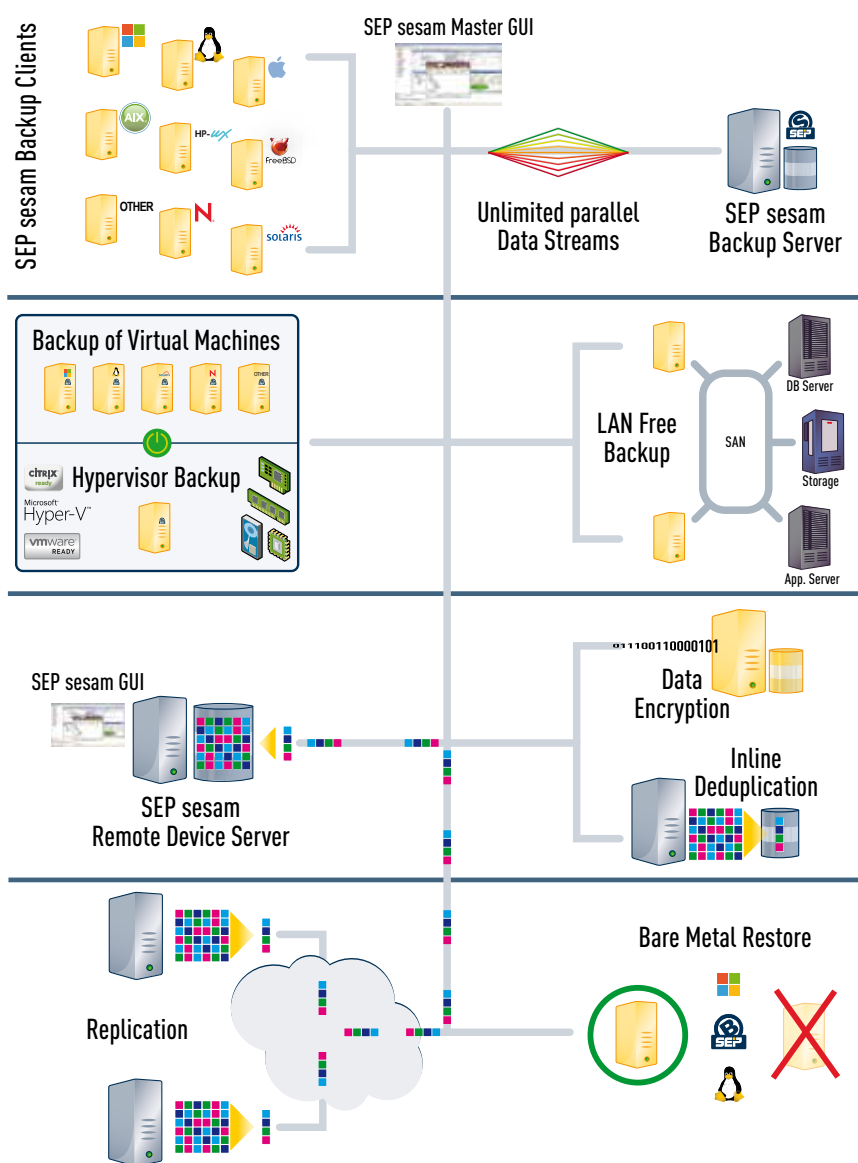
SEP EasyArchive is the perfect addition for SEP sesam installations providing enterprise level backups with a full featured archiving solution to meet all legal and governmental requirements. Using SEP sesam DataStore, users can decide where data should be stored and when it should be erased.

Document Management Software solutions can also easily utilize SEP EasyArchive to find and utilize protected data on secured disk drives.

Unalterable WORM technology (Data cannot be changed)	✓
Compliant (i.e. GDPdU /GoBs)	✓
Optimal addition to SEP sesam	✓
Maximize data integrity using storage replication	✓
Archival set manually as desired	directory or file level
Manage access to the data via the operating system	✓
Every NTFS file system can be archived	✓
Raid support	✓
Cluster support	✓
Hypervisor support	VMware, Hyper-V, Citrix Xen, ...
File system can be archived later	✓
Archival periods can be selected and changed at a later date	✓
Scalability	unlimited
Simple installation and administration	✓
Data is erased after archive date is reached	✓
Application independent	✓
Supported architectures	32 & 64 bit
Evaluation	60 days unlimited

Networkwide

Your IT-Environment protected with One Backup Solution



About SEP

SEP sesam is an enterprise backup, restore and disaster recovery solution for today's discerning computer environments. Deduplication and replication capabilities across distributed locations - as well as archiving - are key features of SEP sesam. Migration of data is scheduled automatically, regardless of storage technologies. The flexible backup and recovery of all common operating systems, virtual environments and hypervisors along with a multitude of applications and databases is realized absolutely reliable in over 50 countries.

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