BackupAssist V4 vs. V6

BackupAssist™
Windows® Backup Made Easy!

TECHNICAL COMPARISON

BackupAssist Version 4 vs. Version 6

www.BackupAssist.com

Cortex **I.T.**

What are the major new features in BackupAssist v6?

Ready for Server 2008 and 2008 R2	**New**: Windows Imaging Engine for fast drive imaging and hardware independent restore
Internet Backup capabilities	**New**: Backup via the Internet using the bandwidth efficient, in-file delta Rsync protocol; fully cloud ready, with AES 256-bit encryption and exact file backups, including NTFS security and attributes.
File copying & replication capabilities	**New**: High performance local file copying with single instance store, enabling hundreds of days of file version history
Centralized Monitoring	**New**: Monitor multiple jobs and installations using our managed service, and receive one daily email report for all your backup jobs
Zip and encrypt (with tape drive support on Server 2008)	**New**: compressed and encrypted ZIP backups to a wide variety of storage options, including tape drive.
VSS application and System State backup	**New**: Back up Microsoft applications like Exchange Server, SQL Server, and Hyper-V, and back up the System State on Windows XP, 2003, Vista, 7, 2008 and 2008 R2 using File Replication, Zip or Windows Imaging (Server 2008 R2).
Hyper-V backup and restore	**New**: Cover all Hyper-V disaster recovery scenarios with a single host-level image backup. Retrieve files and documents from any Guest Virtual Machine using BackupAssist's granular restore capabilities.
Restore Console improvements	**New**: File and VSS application restore from any File Replication, Rsync, Zip or Windows Image backup; System State restore from any File Replication or Zip backup; and Exchange mailbox and public folder restore.

Complete protection: server recovery, data archival plus Internet offsite backup

With BackupAssist version 6, users are now able to protect themselves from the entire range of data loss disaster scenarios – not just a subset. It combines multiple backup technologies to create a complete backup strategy that covers all the pieces of the backup puzzle. This means that you can pick and choose components suitable for your systems, or use BackupAssist to complement the limitations of your existing backup strategy.

Comparison Matrix

Features	BackupAssist v4	BackupAssist v6
Windows Drive Imaging		
Fast differential backups	✘	✔
Advanced hardware support	✘	✔
Fast hardware independent restoration	✘	✔
File Replication		
High performance delta copy	✘	✔
Single instance storage for improved disk space usage	✘	✔
File attributes are preserved	✘	✔
Backup history and mirroring capabilities	✘	✔
Simple one-step restore	✘	✔
VSS support for open file backup	✘	✔
Script free, fully automated replacement for 'Robocopy'	✘	✔
Rsync Internet Backup		
Industry standard, in-file delta Rsync protocol	✘	✔
Single instance storage for improved disk space usage	✘	✔
Bandwidth throttling	✘	✔
Backup history and mirroring capabilities	✘	✔
VSS support for open file backup	✘	✔
Choose where to host your data (Windows, Linux, NAS).	✘	✔
Centralized Monitoring		
Daily summary email for all backup jobs	✘	✔
Web console for backup report analysis	✘	✔
Customizable PDF reports (success rate/data growth)	✘	✔
VSS application backup and restore		
Select entire VSS applications	✘	✔
Select application components	✘	✔
System State only backup and restore		
Select System State individually for backup	✔[1]	✔
Restore capabilities		
VSS application restore	✘	✔
System State restore	✔[2]	✔
Exchange mailbox and public folder restore	✘	✔

[1] Only on XP and 2003 using NTBackup
[2] Only on XP and 2003 using NTBackup

Cloud ready Internet backups		
AES 256-bit encryption	✘	✔
File name obfuscation	✘	✔
Backup and restore of NTFS streams	✘	✔
BackupAssist VM Granular Restore Console		
Hyper-V Config Reporter	✘	✔
Export Guest volumes as VHD files	✘	✔
Restore from Image backups stored on a NAS device	✘	✔
General improvements		
Full, differential, incremental and copy backups with Zip	✘	✔
TrueCrypt-compatible encryption	✘	✔
Import/export BackupAssist settings	✘	✔
Integrated mailbox backups in any job[3]	✘	✔

New Windows Drive Imaging Engine

BackupAssist v6 schedules and manages the block-level image-based backup program in Windows Server 2008, 2008 R2, Vista[4] and Windows 7. You can backup entire volumes, System State and VSS applications to disk for fast disaster recovery.

When combined with BackupAssist's easy to configure user interface, extended hardware support, media rotation, storage management, and powerful email reporting, you get a complete drive imaging solution at the fraction of the price of similar competing solutions, without the hassles of having to manually script wbadmin.exe (Windows Server Backup).
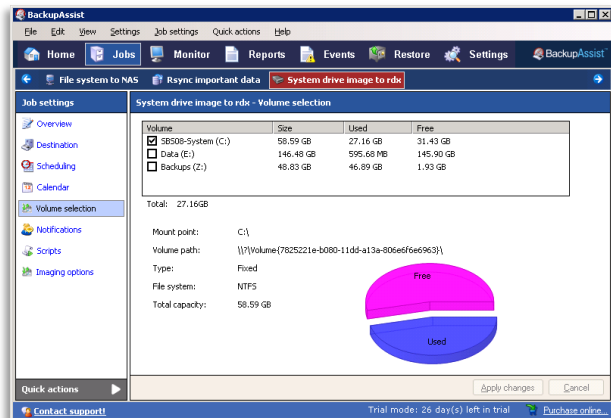
Advanced hardware support

BackupAssist's Windows Imaging Engine provides hardware support for an extensive range of destinations, such as eSata, local disks, NAS and removable disks, like rdx and REV. Removable HDD management is also available with support for safe HDD eject and automatic drive letter remapping if the backup drive has been incorrectly assigned.
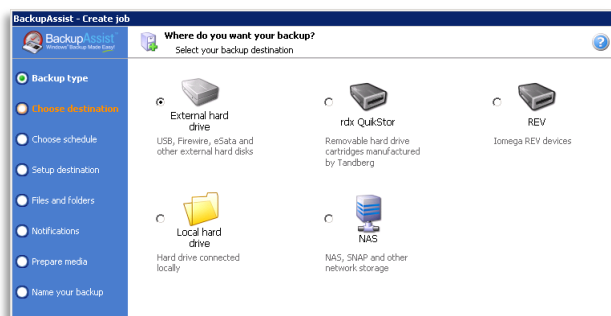
[3] Requires the BackupAssist Exchange Mailbox Add-on.

[4] Windows Vista Business or better

New File Replication Engine

Based on the fundamental principle of copying a file from one location to another, the File Replication Engine is fantastic for backing up data files and maintaining version history containing hundreds of day's worth of backups.

Tuned for high performance

Using our "side-by-side" differential comparison technology, only the differences between source folders and the backup destination are copied. So your initial backup will replicate all data to the backup device, and subsequent backups will only replicate the changes. This makes it suitable for backing up huge data sets in limited time. Thanks to its speed and design, it's also suitable in a disk-to-disk-to-tape, disk-to-disk-to-NAS or disk-to-disk-to-Internet setup.
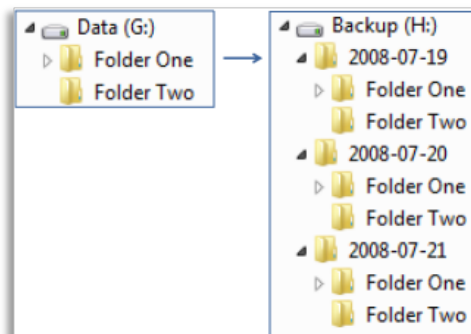
Backup more with less space using Single Instance Store

The File Replication engine uses Single Instance Store technology so that only one unique copy of each file is stored on your backup device. This means that you can achieve faster differential backups, helping you slash daily backup times. And you can store more backups on your backup destination.

## No more scripting and debugging

You can use BackupAssist to replace commonly used scripting tools, such as Robocopy, while adding a number of powerful advantages, including: automatic monitoring, reporting and scheduling, open file backup via VSS support, support for NTFS security permissions and data streams, an easy to set up user interface, and Single Instance Store for backup history.
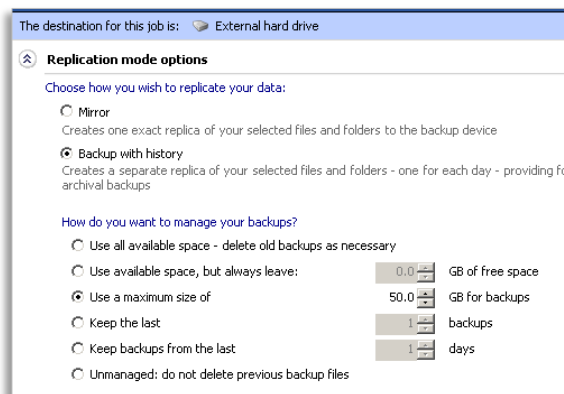
New Rsync Internet Backup Engine

With our Rsync Internet backup engine you can easily achieve fully automated, set-and-forget and secure offsite backups using the proven and popular Rsync protocol. Rsync backups are perfect as an extra layer of data protection in addition to backing up locally for Disaster Recovery.

Combined with BackupAssist's easy to configure UI, powerful email reporting and VSS support, you
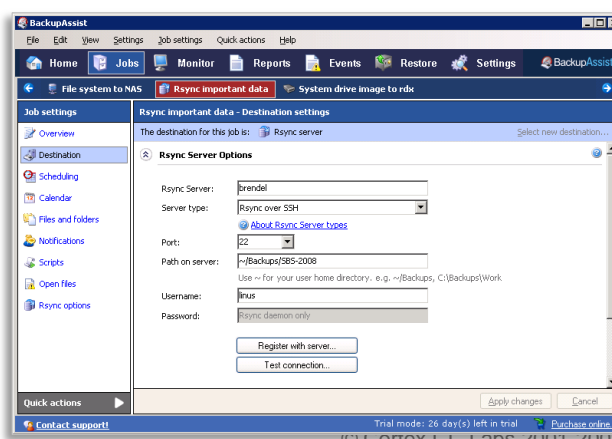
can take advantage of the world's most widely deployed in-file delta remote backup protocol in an easy-to-use Windows based application.

✓ Client-side encryption capabilities using an rsync-friendly variant of industry-standard AES-256 encryption.

✓ File names and directory names are obfuscated so that data on the host is safe from prying eyes.

✓ Unparalleled flexibility when choosing where to host your data:

  o Internally hosted – at a different branch office or to the boss's home

  o Externally hosted – at a 3rd party data center, Amazon, or one of our recommended hosting partners

  o Selected NAS devices can be used for a turnkey solution (Rsync-enabled NAS Hardware Compatibility List)

New Centralized Monitoring Console (CMC)

With BackupAssist version 6 you can use the Centralized Monitoring Console (CMC) to monitor and manage multiple BackupAssist installations from one location, create personalized summary reports using your company logo for your clients, and view the backup data growth over time.
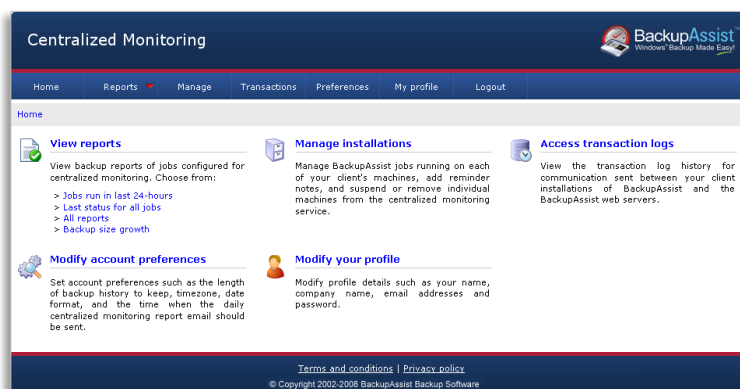

This tool is created for System Administrators or VARs who deploy many installations of BackupAssist. The CMC takes over the collection and sorting of the backup reports so executives have more time to fulfil the demands from their customers. The CMC prepares reports so executives can easily identify issues that can undermine a backup strategy.

Daily Summary Emails

Instead of receiving one email per job that you're monitoring, you can use the CMC to process all the different BackupAssist installations that are being monitored into **one** summary email delivered to you every day.

A summary at the top shows problem sites clearly so that you are aware as soon as an error with the backup occurs and are able to organise appropriate maintenance activity.
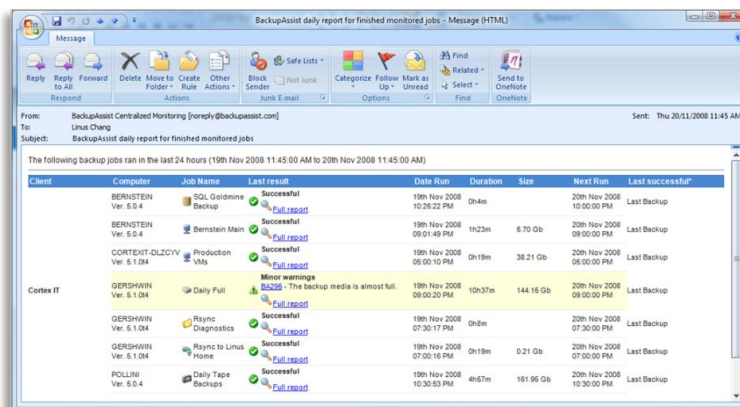
Web console and PDF reporting

For organizations spread over many sites, the Centralized Monitoring Console lets you monitor and report on recent or historical backup results over the last 90 days from anywhere around the world. Reports include:

✓ All backup results in last 24 hours

✓ The status of all backup jobs and individual job reports

✓ Graphs of data growth for individual clients.

New Zip Engine (with support for tape on Server 2008)

Everyone knows that zipping files and folders is an extremely simple and effective way of backing up. Data is restorable nearly anywhere, thanks to the ZIP open standard and it's a trusted and well proven technology. BackupAssis's Zip Engine adds support for VSS to back up open files, NTFS data streams and attributes, as well as support for many hardware devices including USB HDD, NAS and USB Flash Sticks.

What's more, using BackupAssist with the BackupAssist Zip-To-Tape Add-on gives you the ability to back up to tape drives. For those looking for an easy, cost-effective replacement for NTBackup in Windows Server 2008, it's a great solution that helps you continue to maximize your investment in tape drive hardware.
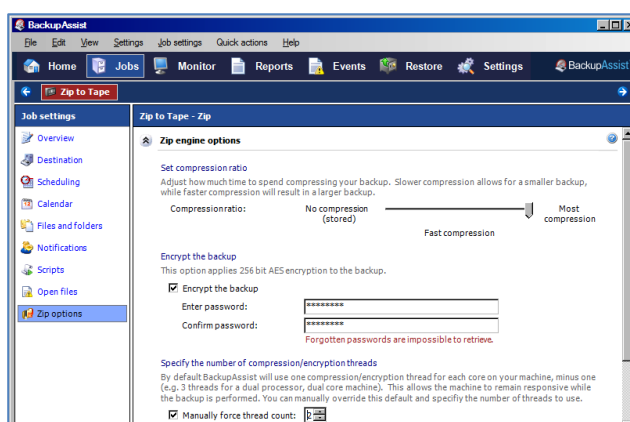
✓ Extensive hardware support

✓ VSS support - open files and VSS applications (Exchange, SQL SharePoint)

✓ System State backup and restore

✓ Full, Differential, Incremental and Copy backups supported

✓ Faster backup with Multithreading architecture. Outperforms WinZIP by a factor of three

✓ Safe and secure backups with 256-bit AES data encryption and compression

New Hyper-V backup and restore capabilities

The BackupAssist Hyper-V solution is designed to be a simple answer to the complicated problem of Hyper-V backup. And best of all, it covers all the recovery scenarios.

BackupAssist's Hyper-V solution also features 'granular restore technology', which simplifies Hyper-V backup by allowing you to create just one VHD image backup of the Host and use it to retrieve individual files and

documents from any Guest Virtual Machine on that Host with the BackupAssist VM Granular Restore Console. It's a solution that will save you time, disk space and money!

✓ Restore multiple Guest files from a single image backup of the Host.

✓ No need for separate backups of the Host and Guest.

✓ Backup unlimited Guest machines simultaneously – no extra licensing costs!

✓ Super simple 2 step restore process with easy to follow wizards.

✓ 'Dig down' into any VHD image backup to retrieve files from the Guest.

✓ Methods and procedures for each recovery scenario.

The Hyper-V Config Reporter

The BackupAssist VM Granular Restore Console Add-on includes the Hyper-V Config Reporter, which takes on the niggly, time-consuming manual documentation tasks associated with the configuration of Windows Hyper-V Servers, eliminating the need for Powershell scripting and for documenting your settings manually or by using messy screen grabs.
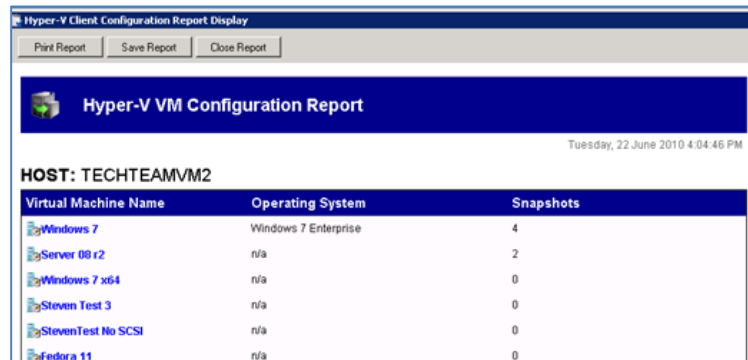
With just a click of a button, you can generate a neat HTML report and either print it out for your records or even load it on a Flash stick so you can always have it handy. It will save you heaps of time and makes it much easier when you need to restore or migrate a VM from one server to another.

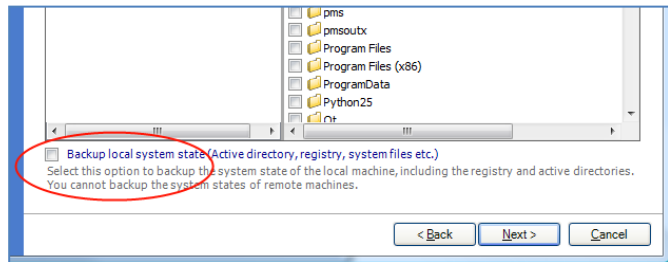# New VSS application backup (Exchange, SQL, Hyper-V) and System State backup

BackupAssist v6 includes fully integrated support for VSS application backup and restore, allowing you to select entire applications to back up from the files and folders tree view for File Replication, Zip, Rsync and Windows Imaging jobs. You can also select individual components to back up - for example, specific storage groups in Exchange Server or specific database in SQL Server. This makes the process of backing up your VSS applications much faster to set up and gives you greater control. Microsoft applications like Exchange
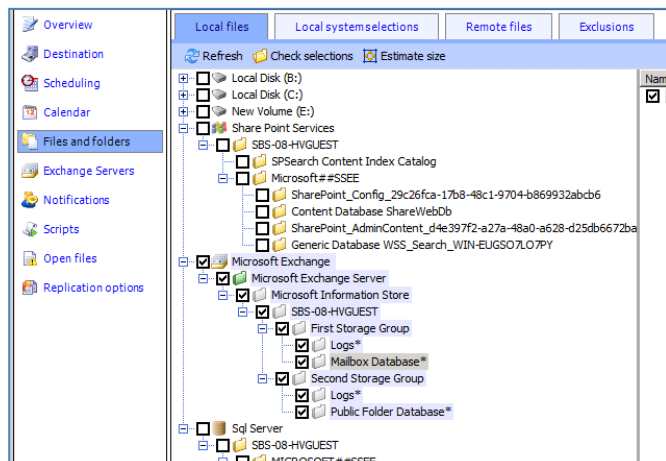
Server, SQL Server, and Hyper-V are fully supported.

BackupAssist v6 also allows you to schedule System State backups across all modern operating systems and with a much smaller footprint than a full Image backup. A System State backup includes important Windows systems settings, such as the Registry, and is crucial for system recovery scenarios. The System State can be backed up using File Replication, Zip, or Windows Imaging[5] and restored using the BackupAssist Restore Console from any File Replication or Zip backup.

New Restore files, applications, System State and mailboxes

The BackupAssist v6 Restore Console has been expanded to provide you with an easier way to restore data from many more kinds of backups than ever before. It eliminates manual processing and searching through catalogues to find the specific backups you need. With the Restore Console you can easily:

✓ Find and retrieve files from any Image backup either by browsing its contents, or by using the 'file search' facility to find specific files across all your Image backup sets.

✓ Restore entire VSS applications or individual application components from any File Replication, Zip, Rsync or Imaging backup.
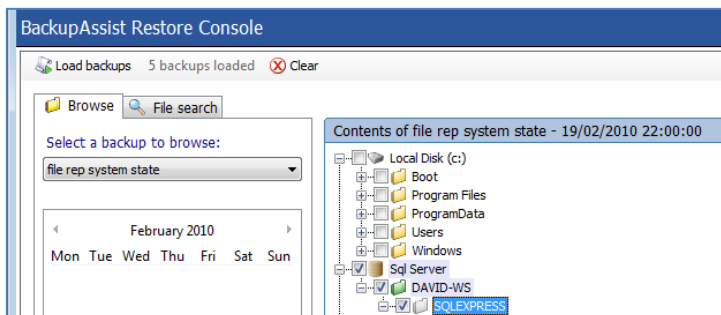
✓ Restore the System State from any File Replication or Zip backup.
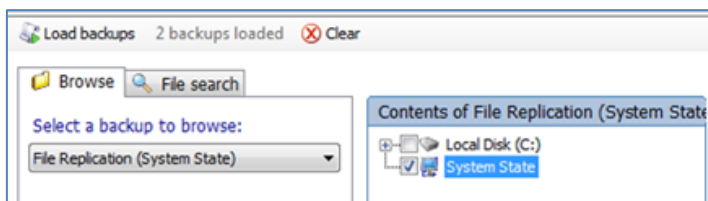
✓ Restore Exchange mailboxes and public folders, specifying the date range of the mail items to recover.

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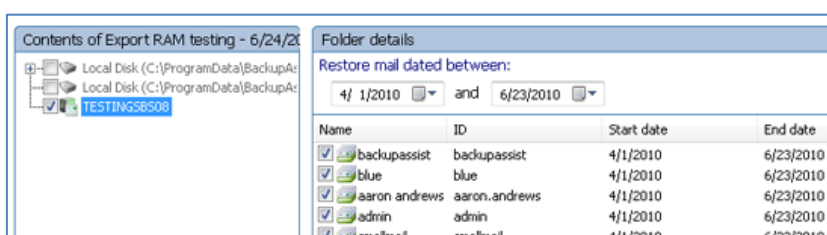
[5] Only on Server 2008; destination cannot be rdx/REV or NAS.