

# BackupAssist V4 vs. V6



## **TECHNICAL COMPARISON**

BackupAssist Version 4 vs. Version 6 www.BackupAssist.com



## 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	<b>New</b> : Backup via the Internet using the bandwidth efficient, infile delta Rsync protocol; fully cloud ready, with AES 256-bit encryption and exact file backups, including NTFS security and attributes.
File copying & replication capabilities	<b>New</b> : High performance local file copying with single instance store, enabling hundreds of days of file version history
Centralized Monitoring	<b>New</b> : 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)	<b>New</b> : compressed and encrypted ZIP backups to a wide variety of storage options, including tape drive.
VSS application and System State backup	<b>New</b> : 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	<b>New</b> : 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	<b>New</b> : 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	1	
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	$\checkmark$
Restore capabilities		
VSS application restore System State restore Exchange mailbox and public folder restore	× √ <sup>2</sup> ×	√ √ √

 $<sup>^{\</sup>rm 1}$  Only on XP and 2003 using NTBackup  $^{\rm 2}$  Only on XP and 2003 using NTBackup

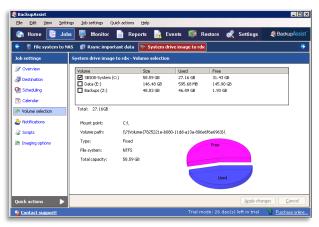


Cloud ready Internet backups		
AES 256-bit encryption File name obfuscation Backup and restore of NTFS streams	× × ×	✓ ✓ ✓
BackupAssist VM Granular Restore Console		
Hyper-V Config Reporter Export Guest volumes as VHD files Restore from Image backups stored on a NAS device	× × ×	✓ ✓ ✓
General improvements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

## New Windows Drive Imaging Engine

BackupAssist v6 schedules and manages the blocklevel image-based backup program in Windows Server 2008, 2008 R2, Vista<sup>4</sup> 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.



<sup>&</sup>lt;sup>3</sup> Requires the BackupAssist Exchange Mailbox Add-on.

<sup>&</sup>lt;sup>4</sup> Windows Vista Business or better

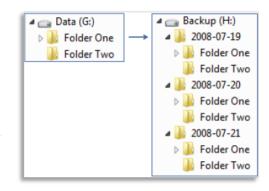


## **New File Replication Engine**

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.

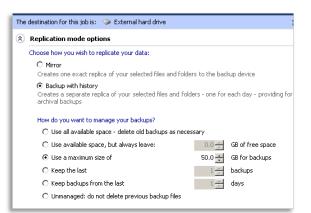


#### Backup more with less space using Single Instance Store

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

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Job settings Rs	ync important data - Destination settings	
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Contact support!	Trial mode: 26 day(s) left in trial	Purchase online



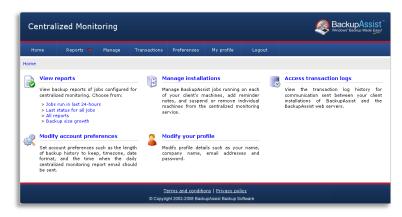
can take advantage of the world's most widely deployed in-file delta remote backup protocol in an easy-to-use Windows based application.

- ✓ 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
  - Externally hosted at a 3rd party data center, Amazon, or one of our recommended hosting partners
  - Selected NAS devices can be used for a turnkey solution (<u>Rsync-enabled NAS Hardware</u> <u>Compatibility List</u>)

## 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

Reply Reply For to All Respond	ward Delete Move to Folder *		Block Junk E-mail	Mark as Unread G Fin	ated - S ect - O	end to neNote neNote		
c Linus i ibject: Backu	pAssist daily report for fir	hished monitored jo		:00 AM)				Sent: Thu 20/11/2008 11:45
Client	Computer	Job Name	Last result	Date Run	Duration	Size	Next Run	Last successful*
	BERNSTEIN Ver. 6.0.4	SQL Goldmine Backup	Successful Full report	19th Nov 2008 10:26:22 PM	0h4m		20th Nov 2008 10:00:00 PM	Last Backup
	BERNSTEIN Ver. 5.0.4	👮 Bernstein Main	Successful	19th Nov 2008 09:01:49 PM	1h23m	6.70 Gb	20th Nov 2008 09:00:00 PM	Last Backup
	CORTEXIT-DLZCYV Ver. 5.1.014		Successful	19th Nov 2008 05:00:10 PM	Oh 19m	38.21 Gb	20th Nov 2008 05:00:00 PM	Last Backup
Cortex IT	GERSHWIN Ver. 5.1.004	Daily Full	Minor warnings BA295 - The backup media is almost full. Generation Statement	19th Nov 2008 09:00:20 PM	10h37m	144.15 Gb	20th Nov 2008 09:00:00 PM	Last Backup
	GERSHWIN Ver. 5.1.0t4	Rsync Diagnostics	Successful	19th Nov 2008 07:30:17 PM	Oh8m		20th Nov 2008 07:30:00 PM	Last Backup
	GERSHWIN Ver. 5.1.014	Rsync to Linus Home	Successful Successful Full report	19th Nov 2008 07:00:16 PM	Oh19m	0.21 Gb	20th Nov 2008 07:00:00 PM	Last Backup
	POLLINI Ver. 5.0.4	Daily Tape	Successful	19th Nov 2008	4b57m	161.95 Gb	20th Nov 2008	Last Backup

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

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😤 📑 Zip to Tape	٠
Job settings	Zip to Tape - Zip
📝 Overview	🗴 Zip engine options 📀
Jestination	Set compression ratio
Of Scheduling	Adjust how much time to spend compressing your backup. Slower compression allows for a smaller backup, while faster compression will result in a larger backup.
🔨 Calendar	Compression atio: No compression Most
🛍 Files and folders	(stored) v compression Fast compression
Notifications	Encrypt the backup
😽 Scripts	This option applies 256 bit AES encryption to the backup.
🙀 Open files	Encrypt the backup
😥 Zip options	Enter password:
	Confirm password:
	Forgotten passwords are impossible to retrieve.
	Specify the number of compression/encryption threads
	By defaultBackupAssist will use one compression/encryption thread for each core on your machine, minus one (e.g. 3 threads for a dual processor, dual core machine). This allows the machine to remain responsive while the backup is performed. You can manually override this default and specifly the number of threads to use.
	Manually force thread count:

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

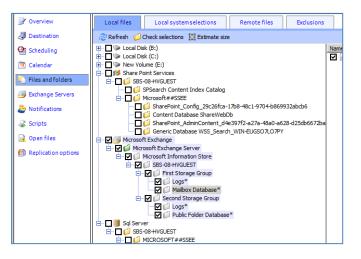
The BackupAssist VM Granular Restore Console Add-on includes the Hyper-V Config Reporter, which takes on the niggly, time-consuming manual documentation tasks associated with the configuration of Windows Hyper-V Servers, eliminating the need for Powershell scripting and for documenting your settings manually or by using messy screen grabs.

Inper-Y Client Configuration Report Display Print Report Save Report Close Report					
😽 Hyper-V VM Co	nfiguration Report				
		Tuesday, 22 June 2010 4:04:46			
HOST: TECHTEAMVM2 Virtual Machine Name	Operating System	Snapshots			
Windows 7	Windows 7 Enterprise	4			
	Windows 7 Enterprise n/a	4 2			
Server 08 r2					
Server 08 r2 Windows 7 x64	n/a	2			
Windows 7 Server 08 r2 Windows 7 x64 Steven Test 3 StevenTest No SCSI	n/a n/a	2			

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

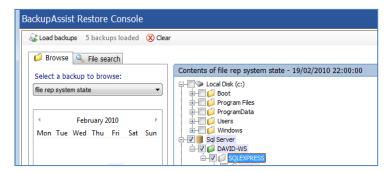
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	III	4
Active directory, registry, sy system state of the local m states of remote machines.	achine, including the registry an	d active directories

System State can be backed up using File Replication, Zip, or Windows Imaging<sup>5</sup> 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.

🔓 Load backups 2 backups loaded 🛞 🤇	Clear
Select a backup to browse:	Contents of File Replication (System State
File Replication (System State)	Coal Disk (C:)     System State

✓ Restore Exchange mailboxes and public folders, specifying the date range of the mail items to recover.

Contents of Export RAM testing - 6/24/20	Folder details				
	Restore mail dated between:				
Local Disk (C:\ProgramData\BackupA:     TESTINGS8508	4/ 1/2010 🔍 🗸	and 6/23/2010 🔲 🔻	]		
	Name	ID	Start date	End date	
	🔽 🥶 backupassist	backupassist	4/1/2010	6/23/2010	
	🗹 🥶 blue	blue	4/1/2010	6/23/2010	
	aaron andrews	aaron.andrews	4/1/2010	6/23/2010	
	🔽 🥶 admin	admin	4/1/2010	6/23/2010	
	🗸 🖂 smallmail	smallmail	4/1/2010	6/23/2010	

<sup>&</sup>lt;sup>5</sup> Only on Server 2008; destination cannot be rdx/REV or NAS.