

Stratesave 6.0 organized Backup

Stratesave Backup Software gives you the tools for organized regular backup and imaging of your Windows Workstation, Server, or small to medium sized network.

Stratesave Server provides organized and automated everyday backups and organized archives for Windows Server 2008, Windows Server 2003, Windows 2000 (Advanced) Server. It comes with Image Backup, Open File Backup (VSS) and Disaster Recovery options for Windows 2008/2003. SQL Server and Exchange Server can be backed up through VSS on Windows 2008/2003.

Stratesave Server Plus gives you the tools for organized regular backup and full restore of your Windows 2008/2003/2000 Server. It comes with Image Backup, Open File Backup (VSS) and Disaster Recovery options for Windows 2008/2003, backups and restores SQL Server 2008/2005/2000/7.0, Exchange Server 2010/2007/2003/2000.

Stratesave Small Business Server is most cost effective backup solution for Microsoft Small Business Server. It comes with same options included as Stratesave Server Plus, but requires Small Business Server. Included is Image Backup, Open File Backup (VSS) and Disaster Recovery options for Windows 2008/2003, backups and restores SQL Server 2008/2005/2000/7.0, Exchange Server 2010/2007/2003/2000.

Stratesave Server and Network provides complete backup and restore solution for networked Windows 7/2008/Vista/2003/XP/2000 Systems. It allows local Backup and Restore of one Windows Server, and Remote Backup of unlimited Networked Windows Servers and Workstations. This product includes Image Backup, Open File Backup (VSS) and Disaster Recovery options, SQL Server Agent, Exchange Server Agent and Network Agent. By using all the application in one Bundle together, you can integrate your file backups, database backups local and networked in a single backup plan and complete your data backup and recovery tasks easily and quickly.

Stratesave Server and Network Lite provides the same as Stratesave Server and Network, but without the SQL and Exchange Server agent. SQL and Exchange Server can still be protected through VSS.

Stratesave Desktop and Laptop provides organized and automated everyday backups and organized archives for Windows 7, Vista, XP, Windows 2000 Workstation. It comes with Image Backup, Open File Backup (VSS) and Disaster Recovery options for Windows Vista and XP Professional.

Benefits

- Reliable, organized and automated data protection for Microsoft® Windows 7, Server 2008, Vista, Server 2003, Windows XP, Windows 2000
- Full support for 64-bit systems (x64), local and networked.
- Comfortable organized, feature rich low-cost data backup and restore solution
- Quick and easy installation
- Add-on agents and options for centralized network backup, online database protection for Microsoft® Exchange Server, SQL Server, Disaster Recovery and Open File Backup for Windows 7, 2008, Vista, 2003 and XP.

Key Features

- Back up the Windows and NTFS specialties: Short filenames, Unicode, Registry, NTFS File Security, Event logs, Streams, Compressed files, Encrypted files, Sparse files, Links, Reparse points, COM+ database, Active Directory, Certificate Authority database, Removable Storage database, System State, allowing for full backups and restores.
- Backup all international versions, including Chinese, Japanese etc. with multibyte character set file names.

- Stratesave can be installed to run as a **Windows Service**. The Remote Backup Control feature allows you to control the Service and backups locally or remotely from Administrator or backup operator. The Service does not interact directly with desktop.
- VSS+VHD-compatible **Image Backup**: Backup entire NTFS partitions. Partitions will be snapshotted in cooperation with VSS-Writer-applications and System state for precise image. Images can be restored to same-sized or larger partitions, or to disk file in VHD-format.
- Backup of disk header with boot record and drive partition information.
- Disaster Recovery for local and networked computers requires a prepared PE DVD (VistaPE, BartPE or Windows PE 2.0).
- True compare is the must have security feature to detect dangerous modifications and Trojan horses in your PC data and configuration.
- Backups can be stored **compressed** to save storage space and backup time.
- Backups can be stored **encrypted** to protect the backed up data from being read by others. Stratesave uses public/private key encryption. The public key can be stored on PC for regular backup, while the private key is still required for the restore. Stratesave uses advanced Encryption algorithms Elliptic curve, SHA1, AES Rijndael.
- Email notification: Email will be sent optionally after successful or failed backup, when directories or computers could not be backed up, when a directory "falls from backup", is no longer contained in any backup, or when tape/disk is to be mounted.
- Integrated scheduling: Scheduling integrated with backup plan supports for backup time windows, scheduling after days of week, days of month etc.
For backups to **network storage** or **sftp/internet** : The scheduler runs backup automatically in background, as soon as the PC is connected.
- Pre/Post-backup commands: Allows a command or script to be run at start of backup or after backup. This can be used to dump a database, which is not supported by Stratesave, to file, which will then be backed up by Stratesave.

Reliability

- **Maximum data security**: Files are protected with **Checksums**, automatically detecting storage faults and transmission errors. At restore, files will be controlled with checksum, warning you of data errors in backup.
- The **corrupted backup feature** allows restoring as much as possible from even heavily corrupted backups. It will scan the entire backup, allowing restoring also files with corrupted file headers.
- Compare runs or checksum control runs can be executed automatically after backup and later on demand. Files in backup will be controlled with checksum and also optionally compared with the files on PC.

Ease of Use

- Backup Organization with **macros** describing the backup plan. The macros can be created and modified with the comfortable macro editor.
- Flexible backup plans with daily, weekly, monthly etc. backups allow to restore from the latest as well as from older backups if old files or old file versions must be restored.
- Stratesave tracks your activities and keeps a **log** that you can view or print. You don't have to remember when you did your backups and where you stored them.
- All macros, executed backups and backed up files can be viewed and printed in clear lists.
- Quick and easy installation, with provided Install and uninstall programs.
- Online manual and help files guide users through various tasks.

Performance

- Stratesave provides **Open File Backup** for Windows 7/2008/Vista/2003/XP, local and networked. Open File uses **Volume Snapshot Service (VSS)**. This Service is included with Windows and provides a base for most accurate Backup and Restore. VSS Writers

(programs which cooperate in the snapshot creation, for example SQL Server, Exchange Server, Oracle and others) are selectable. Stratesave Backup of System State also follows VSS guidelines.

- **Database Backups:** Agents for backup of running **Exchange Server 2010/2007/2003/2000, SQL Server 2008/2005/2000/7.0**. Stratesave uses programming APIs provided with database for accuracy of backed up data. Supported are full, differential and incremental backups of SQL and Exchange Server. Scheduled incremental database backups allow very frequent backups up to once per minute. Databases can be restored to original location, to alternate database (for SQL Server and VSS, if supported by writer), or optionally to file, for further manual processing. For restores to different database, different storage files/directories can be specified during restore.
- Allow differential backups to run faster by eliminating larger full backups.

Backup media

- Backup media: **Fixed disks, including network drives on a server, Sftp-Server disk (Linux/Unix or Windows with Sftp server software), tapes and removable disks including CD/DVD.**
- Backup tape drives: SCSI DAT, DLT, LTO, 8mm (including VXA and Mammoth). Currently not supported are OnStream drives. Travan drives are supported with limitations, namely backups cannot be stored one behind the other on the same Travan tape.
Removable disk drives: Stratesave has builtin driver engine for backups to CD/DVD. Supported are DVD+RW, (DVD-RW), DVD+R, DVD-R, CD-RW, CD-R. DVD-RW are supported, but not recommended, better use DVD+RW instead. Alternatively, third-party Packet writing Software can be used or standard removable disk.
- Backup to sftp-Server with installed certificate is supported.
- **Spanning multiple volumes/drives:** Backups can be extended over two or more tapes, CD/DVDs or removable disks. Multiple drives can be used for unattended media switch.
- Support for tape autoloaders/mediachangers. Stratesave supports Windows Removable Storage Manager (RSM). Alternatively, direct access mode is provided for SCSI tape autoloaders.
- Stratesave uses **standard formats:** Uncompressed backups are stored in TAR-format, allowing to restoring even if the restore program is not available, in an emergency. Tapes are formatted following the ANSI Tape standard, which includes a protection if the wrong tape is mounted by mistake.

Stratesave Specialities

- Stratesave Backup Organization, see White Paper for detail
- Backup of Short Filenames
Also known as "8.3" names, they were introduced for backwards compatibility with Windows 3.1/MSDOS. But the surprising thing is, short filenames are used heavily by 32-bit applications and the operating system itself. Even a blank installation of Windows has many entries in the registry referring to files and directories with the short filename (like PROGRA~1). For this reason, Stratesave backups include short file and directory names. If a short name can't be restored correctly (because it is already taken by another file/directory), a warning message will be shown. This will give you the chance to check the registry for references to that short name, and possibly correct the registry entry.
- True Compare
The 'compare option' of Stratesave compares many details. This is not so much to check your backup (which can be done with the 32-bit CRC checksum run quite effectively), but to compare your current PC data/configuration, with what it was when your backup was done.
In addition to comparing file data, Stratesave 'true compare' checks file/directory securities, creation and modification times, attributes, and the NTFS specialities (streams, sparse files, links, reparse points, file compression, file encryption). It also reports

files/directories, which have been added to your PC, which are not in backup. For registry, true compare compares each registry key and value, also listing all differences (security changes, changed/added/removed keys/values etc.). All this is displayed in a list (1 line per difference), which can be copied to clipboard for further processing.

A fast compare checks for added/removed files and changes in file's sizes and dates, without comparing file contents.

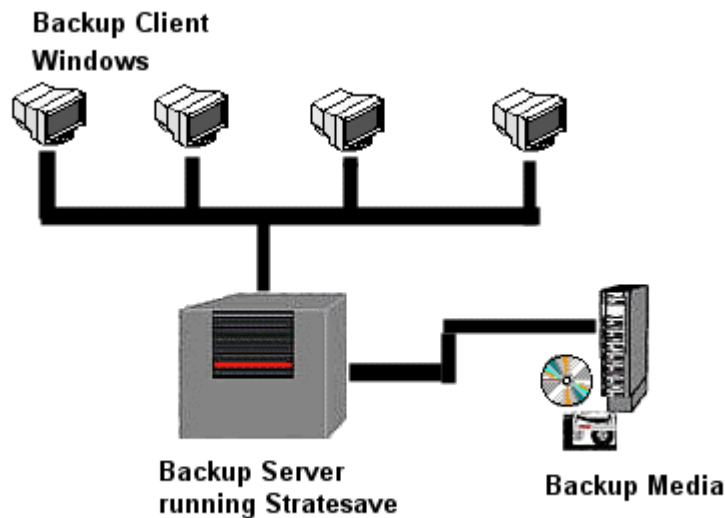
This is useful if you suspect suspicious activity on your PC to find out what has been changed.

Add-on Agents and Options

Stratesave add-on Agents and Options extend the capability of Stratesave Server and enable users to find out the individual backup solution. Available add-on agents and options include Network Agent, SQL Server Agent, Exchange Server Agent, Disaster Recovery option, Open File option and Autoloader Agent.

- **Network Agent**

makes your PC with Stratesave a powerful network backup server of **unlimited number** of Windows 7/2008/Vista/2003/2000,XP,NT 4.0 and Windows ME/98/95 PCs. The Backup Server will access the clients through their file shares (e.g. C\$), and therefore no need to install backup Software on the clients. The networked PCs will be fully backed up and restored, including registry, Windows specialities and restoration of locked files. Network Agent applies functionality in other Agents for Networked computers. Since Windows Networking is used the Backup Server where Stratesave is run should be either Windows 7, 2008, Vista, XP Professional or Windows 2003. A Windows XP Professional can fully backup remotely all Windows computers, including Servers and their databases.



- **SQL Server Agent**

Enables Stratesave to backup/restore running SQL Server 2008/2005/2000/7.0 databases. Backups and restores are performed through native SQL Server APIs (VDI) to assure reliable and consistent SQL Server protection.

SQL Server backups are integrated in backup plan and purely organized, with optional differential and incremental backups. Remote SQL Server backups are supported with Network Agent. Alternatively, SQL Server can also be backed up through VSS interface (SQL Server writer or MSDE writer), with OpenFile Agent. VSS full backups of SQL server can be combined with standard differential and incremental SQL Server backups. SQL Server databases can be restored to alternate database, and new database files and directories can be specified.

- **Exchange Server Agent**

Enables Stratesave to backup Exchange Server 2010/2007/2003/2000 databases. The backups are performed through the Exchange server backup programming interface, to assure accuracy of backed up data (Exchange Server 2010: only VSS). Exchange Server backups are integrated in backup plan and purely organized, with optional differential and incremental backups. Remote Exchange Server backups are supported with Network Agent. Alternatively, Exchange Server 2010/2007/2003 can also be backed up through VSS interface. VSS backups of Exchange Server can be restored to alternate Storage group (Exchange 2007) or database (Exchange 2010).
- **Disaster Recovery**

Stratesave Disaster Recovery Agent allows Windows 7, 2008, Vista, 2003 and Windows XP Professional to recover PC without reinstalling Windows and Stratesave. It bases on Automated System Recovery (ASR), built in Windows. For Windows 7, 2008 and Vista, a prepared Windows PE 2.0 DVD is required (VistaPE for remote Disaster Recovery), for Windows XP/2003 a prepared ASR Disaster Recovery Floppy disk (or Bart PE).
- **Open File Backup**

Stratesave Open File Option uses Microsoft Volume Snapshot Service (VSS) built in Windows 7, Vista, 2003 and XP. At start of backup, a Snapshot is taken of all disks to be backed up. The Snapshot is then backed up. Stratesave also allows selection of VSS-supportive applications (writers), and backs up the System State "VSS-aware", following the VSS guidelines. Stratesave uses advanced mode of snapshot generation in cooperation with writer applications (SQL Server, Exchange Server and others), for most precise snapshot generation and later backup. Stratesave also backs up and restores writer Meta-Data.
- **Image Backup**

Stratesave supports backing up NTFS disk partition images. This is always a full backup. Only the used disk blocks are backed up. The image can be restored to the same or a different partition, which must be as least as big as backed up partition. Alternatively, images can be restored as disk files in VHD-format to be processed with VHDMOUNT or other tools. Stratesave creates most precise image backups: VSS is used to create partition snapshot. VSS Writer Applications with files in the partition are automatically selected to participate in image creation. For System disk image, VSS System State backup image will be created. Image backups can be combined with file backups. In addition, Stratesave backs up disk headers. This is the space on disk before the first partition, usually 63 sectors. It contains boot record, disk identification and partition information. During Restore of a partition image or disk header a dialog will be shown, where the target disk and partition numbers can be selected. There is also a final confirmation dialog before restore.
- **Autoloader Agent**

Enables Stratesave to backup with tape autoloaders/media changers. When Stratesave needs a tape during backup or restore, instead of showing a dialog asking to put the tape into drive manually, it passes the request to the autoloader, which then moves the tape from defined storage slot to the tape drive. When Stratesave no longer needs the tape, it ranges it back to its slot; Supports the Windows Removable Storage Manager (RSM). Tape mount requests are passed to the RSM through the RSM API. For systems where RSM is not running, Stratesave provides an alternate method, accessing SCSI autoloaders directly.

Compare Stratesave Backup Software Editions

Datasheet Systems

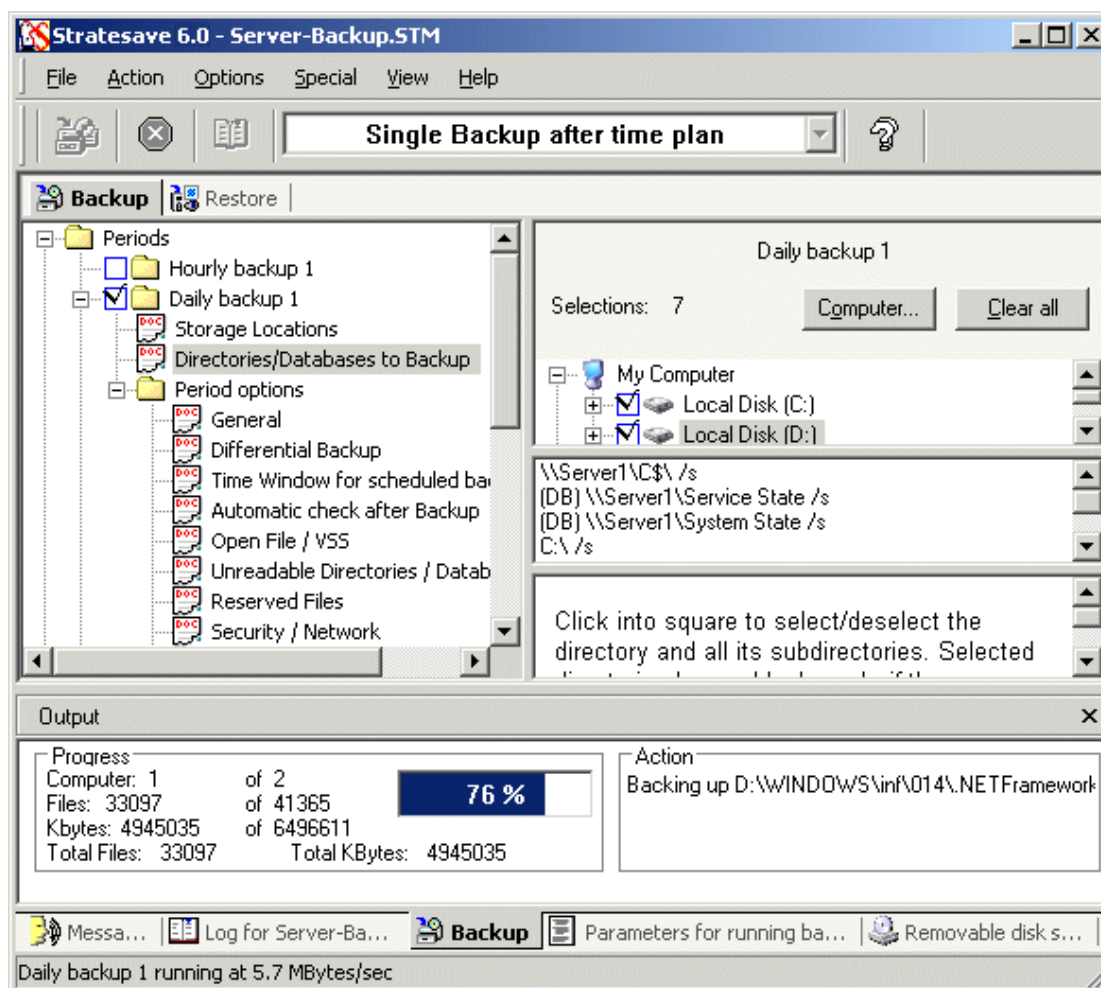


	Stratesave for Workstation + Laptop	Stratesave for Server	Stratesave for Server Plus	Stratesave for Server and Network	Stratesave for Server and Network Lite	Stratesave for Small Business Server
Backup organization with daily, weekly, monthly backups	X	X	X	X	X	X
Backup compression and encryption	X	X	X	X	X	X
Integrated scheduler, definable backup time windows, runnable as Windows Service	X	X	X	X	X	X
Backup to Tape, Fixed and Network disk, Sftp-Server, CD/DVD with integrated driver engine, removable disk with spanning multiple volumes/drives	X	X	X	X	X	X
Local VSS+VHD-compatible image backup	X	X	X	X	X	X
Remote VSS+VHD-compatible image backup				X	X	
Backup Windows 7/Vista/XP/2000 Workstation incl. System State + Registry	X			X	X	
Backup Windows 2008/2003/2000 Server incl. System State+Active Directory		X	X	X	X	X (only Small Business Server)
Open File Backup (VSS) + Disaster Recovery on Windows 7,Vista and XP Professional	X			X	X	X
Open File Backup (VSS) + Disaster Recovery on Windows 2008/2003		X	X	X	X	X
Backup SQL Server 2008/2005/2000/7.0, Exchange Server 2010/2007/2003/2000			X	X		X
Remote Open File Backup (VSS) + Disaster Recovery on Windows 2008/Vista/XP Professional+2003				X	X	
Remote Backup SQL Server 2008/2005/2000/7.0 , Exchange Server 2010/2007/2003/2000				X		
Remote Full Backup incl. System State+Active Directory Windows 2008/Vista/2003/2000/XP/NT/ME/98/95				X	X	
Full Backup Restore of Microsoft Small Business Server			X	X	X	X
Support of Windows Removable Storage Manager (RSM) for tape mount	X	X	X	X	X	X
Purely incremental Backup of SQL Server / Exchange Server / VSS for very frequent backups			X	X		X
True compare, Email, Prebackup command, Checksum Control Run	X	X	X	X	X	X

Datasheet Systems



Full support for 64-Bit Windows (x64)	X	X	X	X	X	X
Requires Small Business Server version of Windows						X
Price (US-\$)	\$49	\$198	\$298	\$496	\$398	\$148



Stratesave Systems GmbH
Developer of organized data protection solution Stratesave
P.O. Box 760
8706 Meilen
Switzerland
email: info@stratesave.com <http://www.stratesave.com>