SmartBackup

User's Manual

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1 Overview

SmartBackup is an inexpensive, fast and easy to use backup software for Microsoft Windows 2000/XP/ Vista. Many people recognize the importance of backups when it's too late and their important files are already lost. It is often difficult to backup the hard disk regularly, because it requires much time and may easily be forgotten. And that's the point where SmartBackup helps you. On the one hand it helps you to select only your important files for backup, which results in a short time needed for a backup. On the other hand it automatically keeps your backups up to date and copies only those files which have changed since the last backup.

If you analyze a normal hard disk, usually just 3 - 10% of the space is used by your data files. Most files on your hard disk are program files, system files, DLLs, etc. which can easily be recovered by reinstalling the software. SmartBackup helps you to find and backup only your important data files and can update them automatically, e.g. once a day on Windows start. Since only new and changed files are copied, this regular backup only takes seconds, but you can always be sure to have a second copy of all your important files. Additionally you can use SmartBackup to replicate your data files to a second hard disk, a network server, your notebook, a FTP server in the internet, a CD or DVD.

Main Features:

- The directory structure is preserved on the backup volume.
- Files which are already present on the backup volume and did not change will not be copied. This results in extremely short backup times if backups are done regularly.
- An Explorer like interface makes SmartBackup easy to use.
- SmartBackup can handle Unicode filenames.
- You can mark any file for backup from the Explorer context menu. This allows you to decide which files should be backed up while you are opening, saving or copying them, without starting SmartBackup.
- SmartBackup is able to refresh a backup automatically once a day or once a week, either at a given time or on Windows startup or whenever the destination drive (e.g. an USB stick or an external HDD) gets connected.
- You can use SmartBackup to replicate your documents and data files to a Notebook, a second hard disk or an other PC in your local network.
- SmartBackup can backup to CD-R, CD-RW, DVD-R, DVD-RW, DVD+R, DVD+RW and DVD+R Double Layer.
- Files that cannot be copied because they are already in use can be copied anyway by using Windows' Volume Shadow Copy Service.
- A search function for your hard disks helps you to find your documents and data files.
- Files or folders can be restored using drag & drop in the Windows Explorer.
- Install & Uninstall support.
- Registered users will receive login information for our customer's area, where they can always download the latest version.
- Technical support by e-mail and telephone for registered users.

2 System Requirements

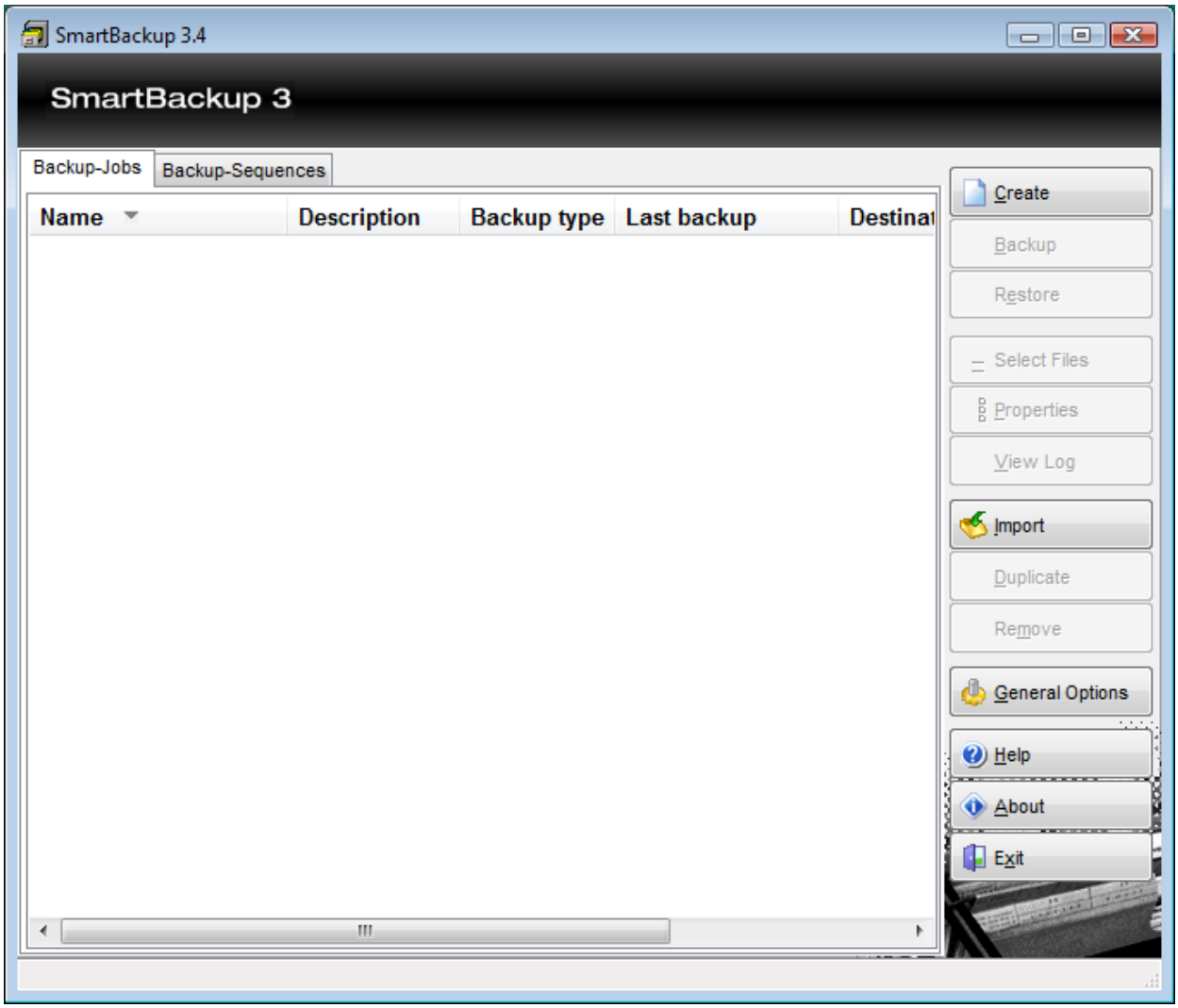
- Microsoft Windows 2000 (Service Pack 2 or better), Windows XP. Please ensure you have installed all available updates and bugfixes.
- 128 Mbytes RAM
- At least 5 to 10 Mbytes space on your harddisk for the SmartBackup installation. Please keep in mind that you need additional space for each of you backup jobs, depending on the space needed by the files you want to backup.
- A screen-resolution of 800x600 or higher with at least 256 colors.

3 Quickstart

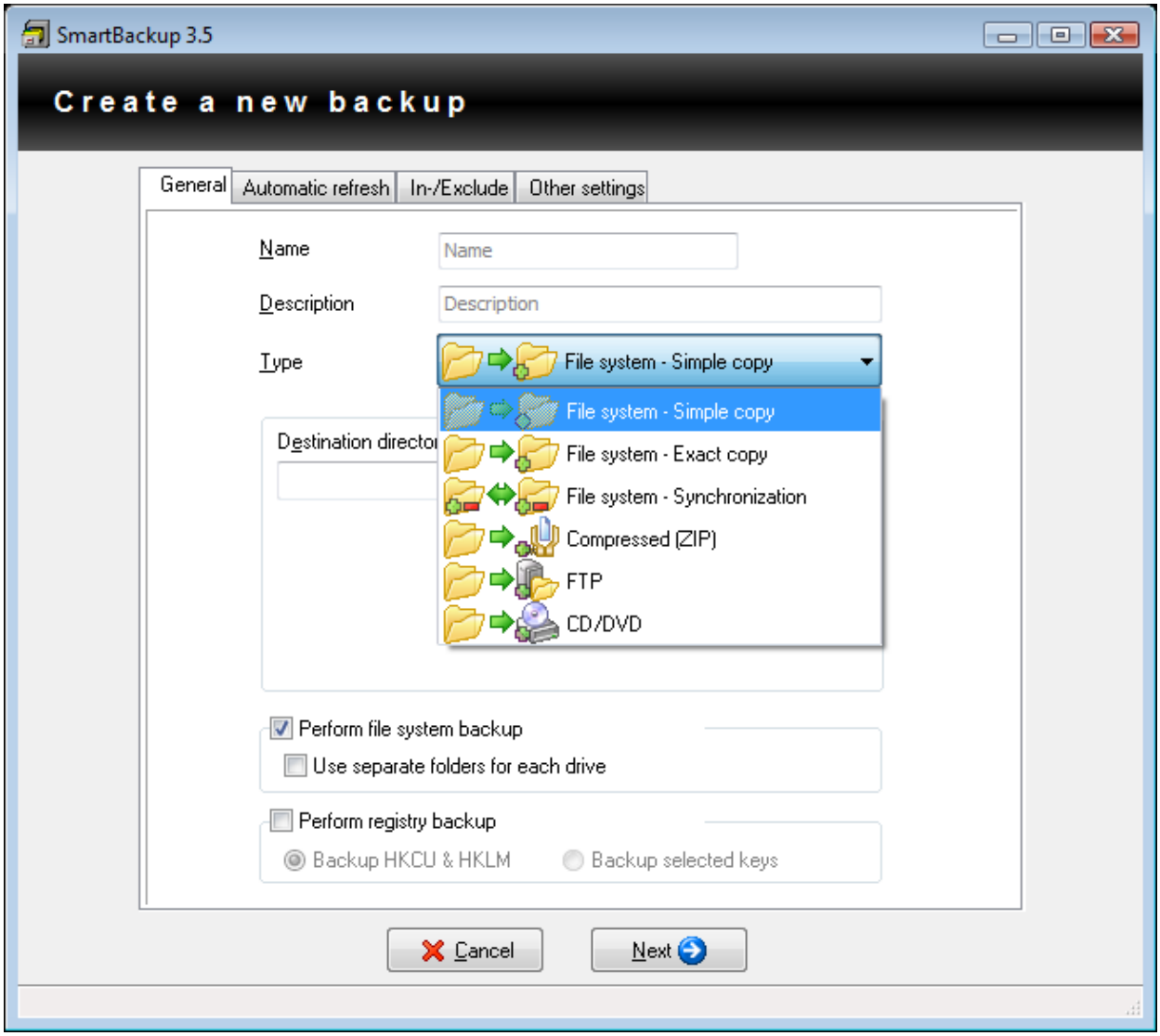
To create a new backup, press "**Create**" in the main menu of SmartBackup. In order to edit or refresh already existing backup sets, press the "**Properties**" menu item. The general options of SmartBackup can be reached by the "**General Options**" menu item. To exit SmartBackup press the "**Exit**" menu item.

Here is a step-by-step instruction on how to create your first backup set:

1. Start SmartBackup.
2. Press "**Create**".



3. Write a name for the backup volume in the text field "**Name**". That name may not contain characters that are not allowed in Windows file names (<, >, ?, ", :, |, \, /, *).



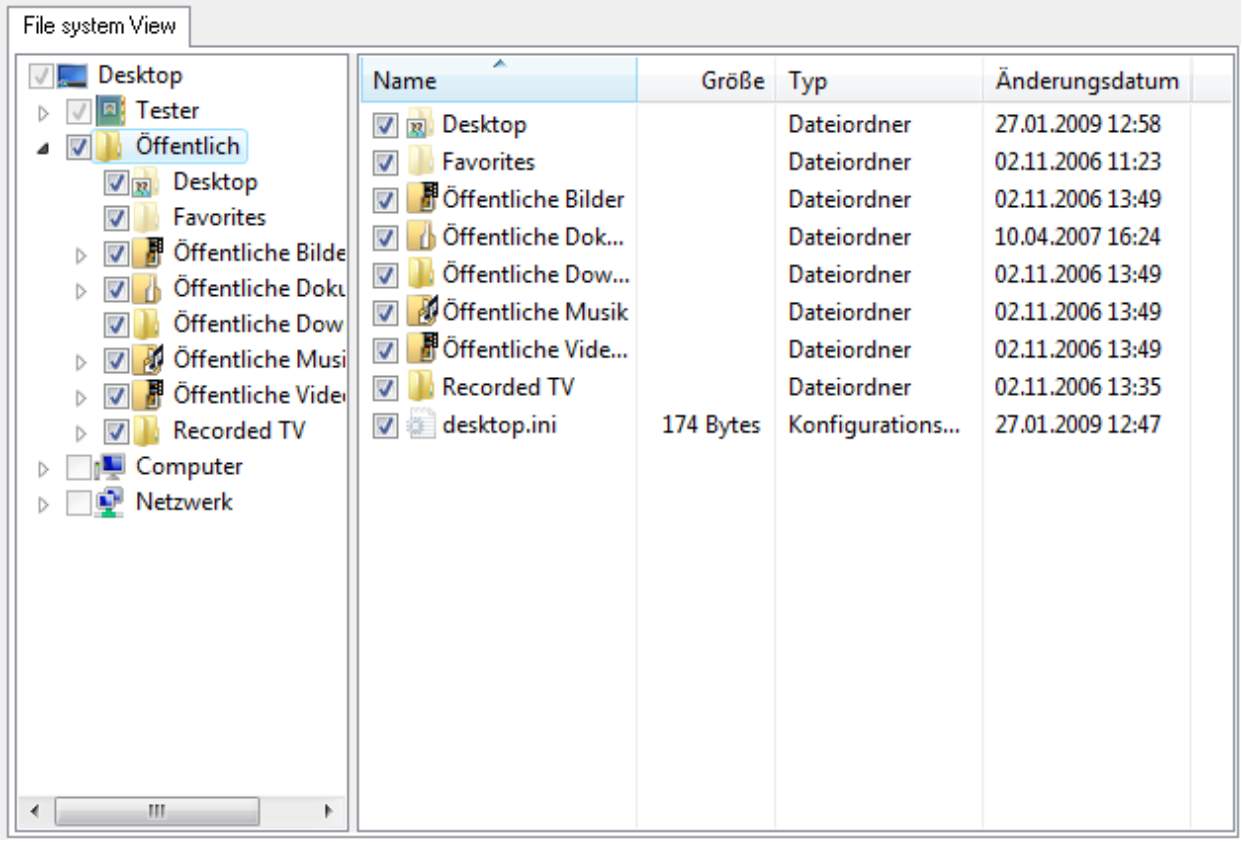
4. If you want to describe your backup volume, write a description in the "**Description**" field.

5. Choose backup type: FileSystem, Compressed, FTP, CD/DVD
   Use "FileSystem" to backup to a different folder on your hard disk or on your network.
   Use "Compressed" to create a compressed ZIP file with your backup files.
   Use "FTP" to copy your backup files to an FTP server in the internet.
   Use "CD/DVD" to burn your data to a writeable CD or DVD.

6. Specifiy the folder to which the backup files should be copied to. This can vary in details depending on which backup medium you selected. For further information read the Backup Properties section.

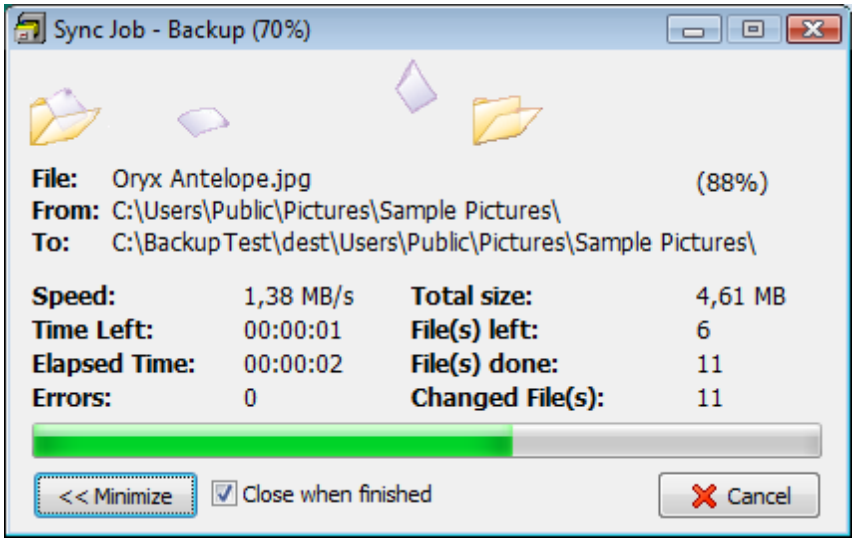
7. Press the "**Next**" button.

8. Choose the files and folders to backup by checking them using the box left of the name.



9. Press the "**Start Backup**" button in order to backup the selected files directly or "**Save and Exit**" to save your selection and return to main view without copying.

Your first backup will now be performed. You may activate automatic refreshes of you backup in the Properties of your backup set.

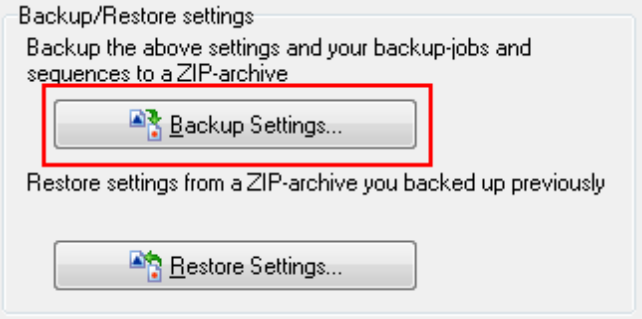


4 Reinstallation

If you are going to reinstall your computer and want to preserve and reuse the settings, backup-jobs and sequences of your current **SmartBackup**-installation follow these steps:

Before reinstalling your PC:

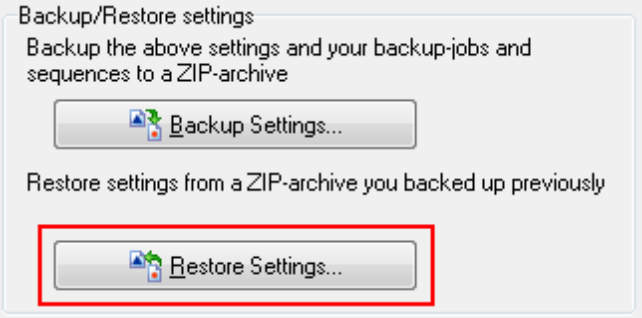
1. Hit the "General Options"-button on the main form of SmartBackup.
2. Hit the button "Backup settings...".
3. Choose the destination directory and filename, your settings have to be backed up to (one ZIP-archive is created containing all settings, SBF and SBS files) **Important:** Keep in mind that the destination directory has to be accessible after the reinstallation of your computer. It is advisable chossing a directory on an USB-stick or any other removable-drive.



After reinstallation:

Import your settings by follow these steps:

1. Choose "General Options" on the main form of SmartBackup.
2. Hit "Restore Settings..."
3. Choose the directory and file you chose as destination in the "Before reinstalling"-steps previously.
4. Your settings, backup-jobs and sequences are now restored.



5 What's new?

Changes to version 3.5.1 (16 Jun 2009)**:**

- Bugfix: On some English systems German messages were shown.
- Bugfix: Under certain circumstances performing a backup with activated setting "Copy NTFS permission list for every file" lead to an error message.
- Some minor improvements and bug-fixes have been incorporated.

Known issues:

- Admin privileges are required under Windows XP and Vista to perform CD/DVD backups.

Changes to version 3.5 (02 Jun 2009)**:**
- New: A backup of files that are in use is now supported under Windows Vista (Administrator privileges are required).
- Bugfix: The date of files and folders is now correctly backed up when destination is a ZIP-archive.
- Bugfix: Filesystem backups can be performed to a CD/DVD-drive again, if the system supports packet writing.
- Some minor improvements and bug-fixes have been incorporated.

Changes to version 3.4.1 (30 Mar 2009)**:**
- New: You can run a sequence via command line (see help for further information).
- Bugfix: "Power off", "Reboot" and "Log off" now takes place without delay after finishing a sequence under Windows Vista.
- Some improvements and bug-fixes have been incorporated.

Changes to version 3.4 (11 Mar 2009)**:**
- New: Now you can create sequences (sets of backups) which will automatically backup/restore all included backups when you backup/restore the sequence (for more information see help-file).
- New: NTFS-Compression of files is now backed up.
- New: The progress dialog of backups has been redesigned.
- Bugfix: If a file that has to be backed up already exists in the destination directory, SmartBackup now renames the old version of this file before backing up the new version. This prevents deletion of the file in case of abortion of the backup or failure of the copy-progress.
- Bugfix: If a folder cannot be deleted while performing a synchronization, the log-entry now shows the path to the folder explicitly.
- Some improvements and bug-fixes have been incorporated.

Changes to version 3.3.1 (27 Aug 2008)**:**
- New: New backup-specific option "Follow Mount Points and External Symbolic Links": This indicates whether SmartBackup has to follow reparse points under Windows. We recommend to keep this option turned off, especially under Windows Vista which uses symbolic links intensively. Further information can be found under http://www.jam-software.de/support/index.php?action=artikel&cat=19&id=5963&artlang=en&highlight=reparse%20points
- New: If you hit the exit button of SmartBackup while there are backups in progress, now a dialog is shown which asks you to confirm the abortion of these backups.
- Bugfix: SmartBackup does no longer delete empty folders in the source directory when performing an "Exact Copy".
- Some minor improvements and bug-fixes have been incorporated.

Changes to version 3.3 (23 Jun 2008)**:**
- New USB-Mode: If SmartBackup is installed on an USB drive it will automatically perform a previously defined backup job whenever the USB drive is plugged in.
- New: SmartBackup now copies empty folders in backup jobs.
- Bug-fix: SmartBackup now checks if both source and destination paths are accessible before performing a synchronization job.
- Bug-fix: SmartBackup now also resets the archive bit after performing a ZIP backup.
- Bug-fix: Fixed the missing tray icon behavior under Windows Vista.
- Bug-fix: When large files are copied the progress dialog now shows the correct status.
- Some minor improvements and bug-fixes have been incorporated.

Changes to version 3.2:
- You can perform an automatic refresh of your backup whenever the destination drive gets connected, e.g. when an USB stick or an external HDD is plugged in.
- Synchronization and exact backups will delete empty folders in the destination if they have been deleted in the source.
- Filesystem backups are able to copy files which paths consists of more than 260 characters.

- The options for automatic backup refreshes are now separated from other settings.
- The backup job's name may not contain characters that are not allowed in Windows file names. This will be checked when entering the name.
- Some minor changes and improvements have been incorporated.

Changes to version 3.1:
- You can now copy the log to the clipboard in order to paste the information into another document, e.g. an e-mail.
- Performance of showing large log files has been increased.
- Added a context menu to the backup job selection.
- Errors that occur during backup are logged to the Windows event log.
- Some minor changes and improvements have been incorporated.

Changes to version 3.0.1:
- During a synchronization backup SmartBackup can now ask before deleting files. You can make decisions for the current file or all following files. You can activate this feature in the properties of each backup set.
- You can allow SmartBackup to overwrite read-only files. You can activate this option on the "Refreshes & Other Settings" tab in the properties of each backup set.
- Performance of storing the synchronization status has been increased.
- Bug-fix: The CD/DVD burning software component prevented Windows from shutting down when SmartBackup was running.
- Some minor changes and improvements have been incorporated.

Changes to version 3.0:
- SmartBackup can backup to CD and DVD.
- Files that cannot be copied because they are already in use can be copied anyway.
- SmartBackup supports path names that contain unicode characters.
- The NTFS copy permissions of all files can be preserved now.
- Every backup job can now be performed by using the command line.
- SmartBackup supports Windows Vista, the support for Windows NT4 has been discontinued.
- Some minor changes and improvements have been incorporated.

Changes to version 2.4.1:
- Improved handling of files on synchronization
- Now pasting from clipboard does also activate the ADD button for Includes/Excludes

- When backup finishes the animation of flying sheets does stop now.
- Restoring from FTP server where the home directory is not the root directory is now also supported.
- Some minor changes and improvements have been incorporated.
- Bug-fix: Corrected error of media type was not persistent on program restart. {german version only}

- Bug-fix: Restoring from FAT32 to NTFS cut first character of restore path.
- Bug-fix: Updating files in zip-file did not work.

Changes to version 2.4:
- It is now possible to set the behaviour of the progress windows in three types:
  1. Show progress window
  2. Show progress window and close it when finished
  3. Do not show progress window
- The description of a backup set is now also displayed in the overview table.
- For those who want to perform automatic backups more frequently, an interval can now be set from 3 minutes to 1 day.
- Some minor changes and improvements have been incorporated.

Changes to version 2.3:
- Fixed major problem with "exact copy" and "synchronization" feature: If single files were selected, SmartBackup copied the whole folder under certain circumstances.
- Fixed hanging problem : the problem that SmartBackup was hanging at the end of a backup should be fixed now
- multiple threads added: it is possible to run more than one backup job at a time
- added transfer speed display to ftp and file system backups
- autostart problem, that SmartBackup closes at Windows start-up when the option "Run as tray icon" is not checked, is fixed.

Changes to version 2.2:
- new synchronization feature: "Synchronization" completely synchronizes two folders, that means copying and deleting on both sides. "Exact Copy" synchronizes the destination folder only, that means it is only copied to destination folder and deleted on destination folder.
- new some additional layout features: new images for volume types and more volume types choosable in the Properties and Creation Dialog.
  Thus there are less additional options to configure.
- improved stability
- memory problems solved : If SmartBackup was running for a long time it used a lot of memory. This behaviour does not occur any more.
- FTP Backup: Active or passive mode can be changed manually
- If the archive bit of a source file is set back after copying, can be changed manually.

Changes to version 2.1.3:
- A problem was fixed that not enough room on a hard disk during a ZIP backup is logged properly now
- More detailled error information on ZIP errors added
- a synchronization problem was fixed that occurred when folders were moved or renamed in the source and destination folders
- added feature that the tray icons starts blinking until the log file is reviewed when a backup is finished with errors
- minor bug fixes

Changes to version 2.1.2:
- A problem was fixed that the file selection of SmartBackup 2.0.3 did not appear in the current version. These old volumes are imported automatically now.
- minor bug fixes

Changes to version 2.1.1:
- A problem was fixed, that could result in too many thread being created by SmartBackup.

Changes to version 2.1:
- The usability and the appearance of the user interface has been improved.
- A feature has been added to the Properties of a backup set that allows to exclude certain files types from a backup by defining wildcards.
  Files which match one of the specified wildcards are not considered during the backup process.
- A feature has been added to the Properties of a backup set that allows to include certain file types in a backup by defining wildcards.
  Only files which match one of the specified wildcards are considered during the backup process.
- The performance of the registry backup and the registry restore has been improved.
- An option has been added to the Properties of a backup set that adds all file operations that have been performed during the backup process to the log file.
- Backups can now be started easily using the context menu of the system tray icon of SmartBackup.
- The synchronization feature has been improved and a problem related to removable medias has been fixed.
- Selecting the files and folders included in a backup is now much faster and a few minor problems have

been fixed.
- SmartBackup now uses Windows XP style if it is available.
- Minor bug fixes and improvements have been incorporated.

6 Notes on NTFS

Reparse Points: Volume Mount Points and Symbolic Links

Since Windows 2000 NTFS supports volume mount points and symbolic links. A volume mount point is an existing path where you "mount" another volume. Given this, users and applications can refer to the mounted volume by that path. It allows you to unify disparate file systems into one logical file system. Symbolic links work similar: For example if you have an empty folder "C:\Documents\Images", you can create a symbolic link to "E:\Pics" in it. Applications will then see the content of "E:\Pics" in "C:\Documents\Images".

7 F.A.Q.

Q: I'm doing a backup using different volume formats (NTFS, FAT32) for source and destination. When the systemtime changed from summer to wintertime SmartBackup wants to backup alle files, although only some changed. Why?

A: FAT32 and NTFS use different time formats for files. So you can avoid this behavior only by formatting / converting your FAT32 volumes to NTFS.

Q: Does SmartBackup support tape drives?

A: SmartBackup only supports drives integrated in windows as system drives. If you are able to select your tape drive in the Windows Explorer (via a drive letter) SmartBackup will be able to use it.

Q: How do I find files that should be backed up?

A: Use the 'Find Files' dialog, which is available when selecting files and folders for backup. You can open it Use the button below the folder tree. You can use 'Find Files' in order to find important folders, files and documents.

Q: How do I use the synchronize function?

A: Create a File System backup. Click on 'Refreshes and other Settings' tab and click the synchronization check box. Then choose the source folder(s) on the next screen. Now destination and source will be synchronized on every refresh.

Q: Does synchronization delete files from the source?

A: Yes, it does. The synchronize function is designed to make two folders or drives totally identical. Therefore if a file or folder in the destination is deleted, it will be deleted in the source, too.

Q: Is SmartBackup able to backup/restore the operating system?

A: No, SmartBackup was not designed to perform a backup of an operating system. This is a very difficult task, because these kinds of backups cannot be performed, while your operating system is running. In order to backup/restore your operating system, special and expensive software like Norton Ghost is needed.

Q: Can I perform synchronization with files from different drives?

A: Yes, but activate *'Use different Folders for each drive'* in order to avoid conflicts with equally named files and folders on both drives.

Q: During a backup the progress dialog seems to stand still for a while, although the hard disk is heavily working. What's wrong?

A: Everything is fine. When you try to backup a file that is currently in use, SmartBackup activates the Windows Volume Shadow Copy Service, which makes a temporary, partial copy of your hard disk partition. This takes some time depending on your hardware.

Q: I want to perform automatic refreshes of my backup regularly, e.g. at night. How can I ensure that no user input is needed?

A: In the *'Refreshing'* settings of your backup job unselect *'Confirm before performing refresh'* and select *'No progress dialog'* at the bottom of the settings dialog.

Q: I have a registered Version of SmartBackup, but there is still a 'UNREGISTERED' message in the title of the main window. Why?

A: There are three possibilities why this message still remains in the title:

1. You have not downloaded the full version from the URL, which you received after purchasing the product.
2. Accidentally, you have installed the trial version again. (Have you been asked for a password?)
3. You have installed the trial and the full version into different directories and you have got both versions on your hard disk now.

Q: I have a file bigger than 2 GB selected for backup. Why does SmartBackup print out a "DISK FULL ERROR" while backing up to a drive which has more than 2 GB of free space?

A: If this happens, the drive you have chosen as backup destination is formatted with a FAT file system. The FAT file system does not support files bigger than 2GB and Windows gives an error message "DISK FULL ERROR". This error message is generated by Windows and thus out of our control.

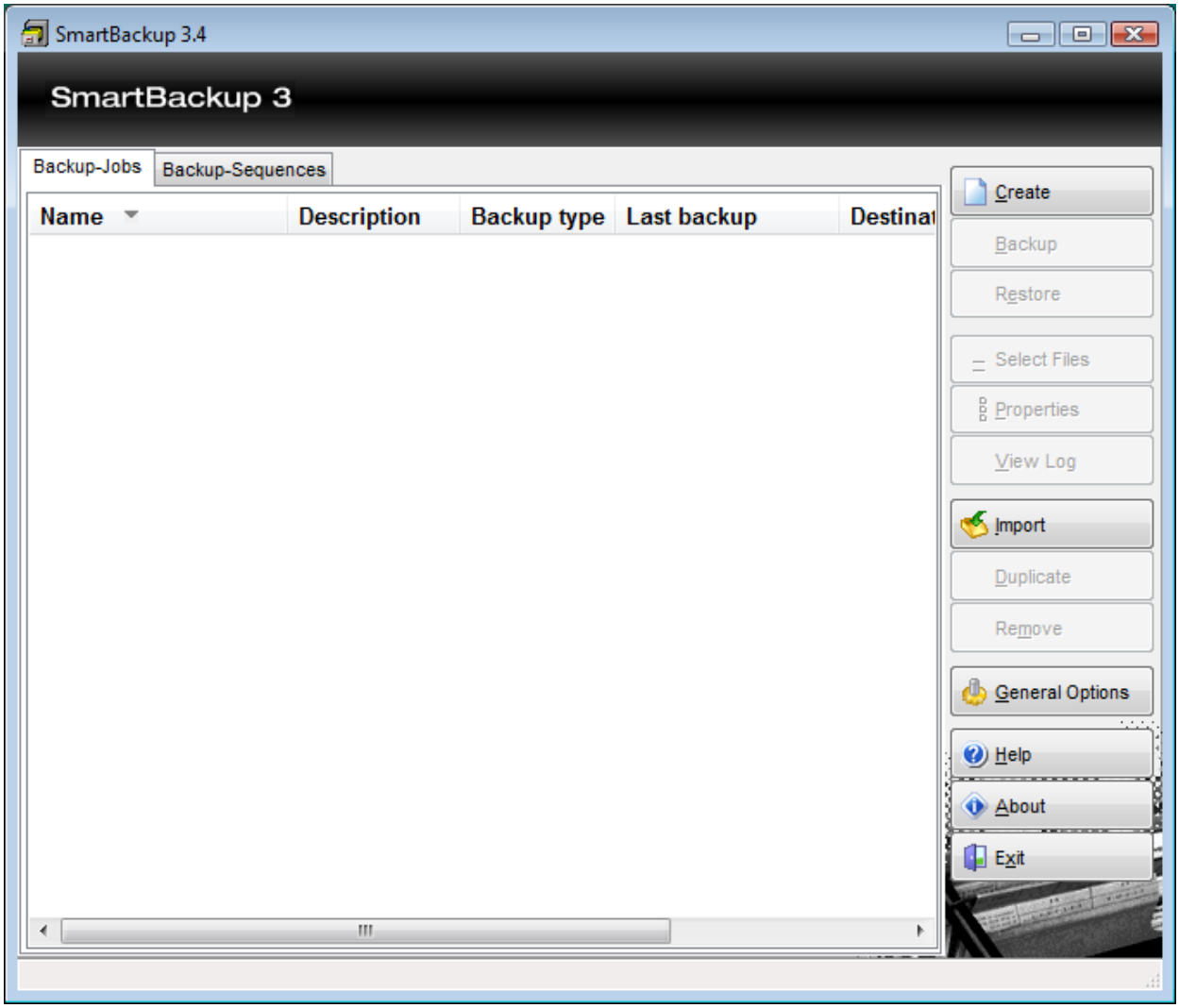
Q: How can I order SmartBackup and how will the product be delivered?

A: For questions regarding prices and purchasing please have a look at our price list and our ordering FAQ.

8 Menus

This is the main window of SmartBackup. Depending on whether you have selected "Backup-Jobs" or "Backup-Sequences" it displays a list of all backup-jobs or all backup-sequences (If you need further information about sequences see this chapter). A column of buttons for all available actions is shown on the right side.

Hint: In the chapters of this help file we may distinguish between the backup-context and the sequence-context depending on whether you selected "Backup-Jobs" or "Backup-Sequences" on the main-window of SmartBackup. The following picture shows the main window in the backup-context



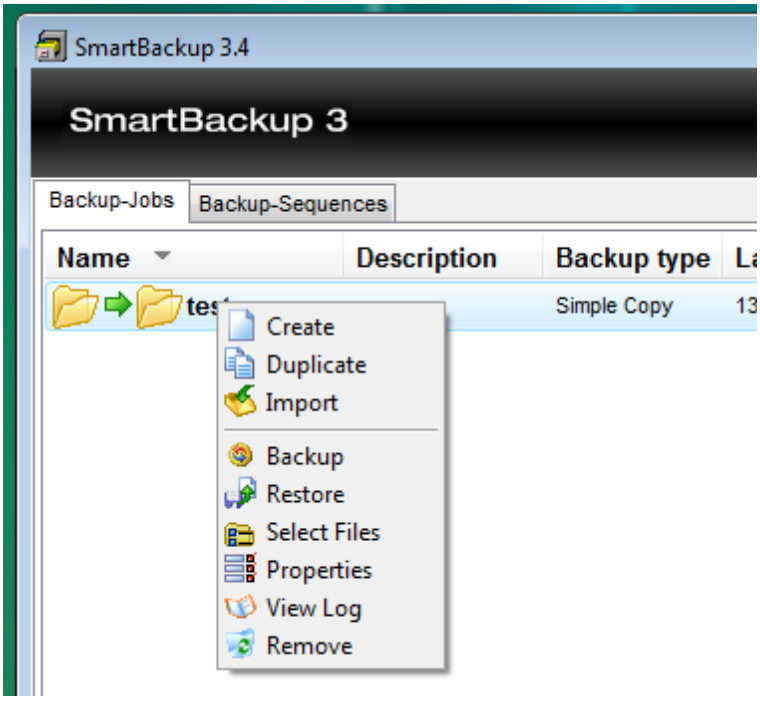
Backup-Context

While residing in the **backup-context** the main window of SmartBackup provides the following functionalities:

Create	Creates a new backup volume.
Backup	Backups the selected volume without any changes (e.g. new file selection). The previously selected files and folders of your backup volume will be copied to the previously selected destination.
Restore	Restores chosen files and/or folders in a location of your choice.
Contents	In order to change the files of a backup volume, press this button. A window will open which gives you the opportunity to make a new selection.
Properties	Opens the 'Backup Properties' screen. It allows to change the configuration of the backup set.

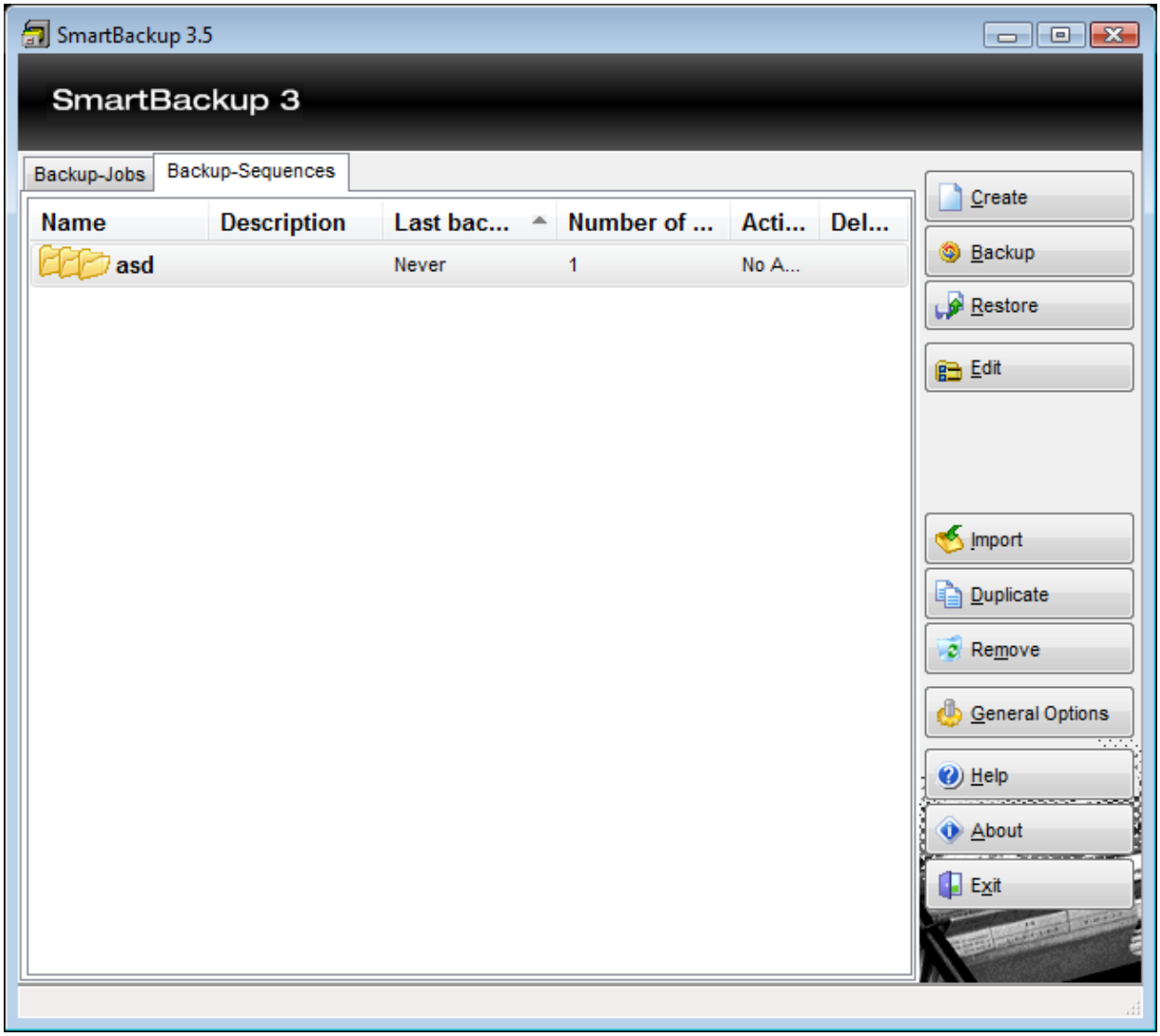
View Log	Opens the log file for accessing log information. The next screen shows you a formatted version of the log file, listing all operations which have been performed on the volume.
Import	Imports volumes which are currently not in the volume list, e.g. after a new installation of SmartBackup or a system crash. After adding the volumes to the list, they can be refreshed, restored, etc. like every new created volume.
Duplicate	Copies a volume (which means the volume properties and selected files configuration, not the files themselves). A new volume named 'Copy of volumeName' appears in the list. You can change the name in the **'Properties'** menu.
Remove	Deletes the current entry in the list of your backup volumes and the configuration file ('*.SBF') in your application directory, but not the files in the backup archive. During backup, the configuration file will be copied to the archive, too. I.e. backups which are not in the volume list can be achieved by pressing the ***'Import'*** button.
General Options	Opens the global settings dialog of SmartBackup.
Help	Opens this Windows help file.
About	Shows an information dialog about this product as well as contact information.
Exit	Exits SmartBackup completely. SmartBackup will not be minimized to the system tray if you use this button.

By right-clicking a backup job, a context menu opens that provides the same functions.



Sequence-Context

This is the main window of SmartBackup in the sequence-context.



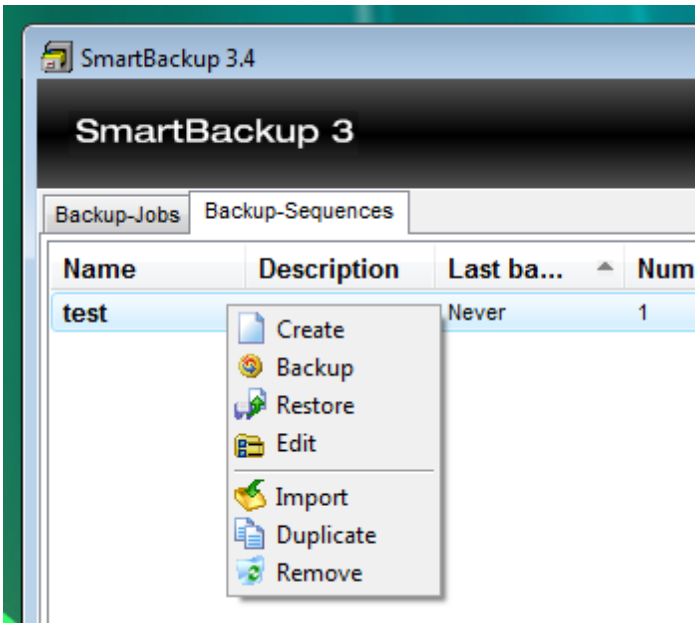
While residing in the **sequence-context** the main window of SmartBackup provides the following functionalities:

Create	Creates a new sequence of backup volumes.
Duplicate	Copies a sequence (which means the sequence properties and included backup volumes). A new sequence named 'Copy of volumeName' appears in the list. You can change the name in the **'Properties'** menu.
Import	Imports sequences which are currently not in the sequence list, e.g. after a new installation of SmartBackup or a system crash. After adding the sequences to the list, they can be refreshed, restored, etc. like every new created sequence.
Backup	Backups the selected sequence without any changes (e.g. new file selection). All included volumes are backed up to their previously selected destination.
Restore	Restores the selected sequence: All included volumes are completely (i.e. all

previously backed up files and keys) restored.

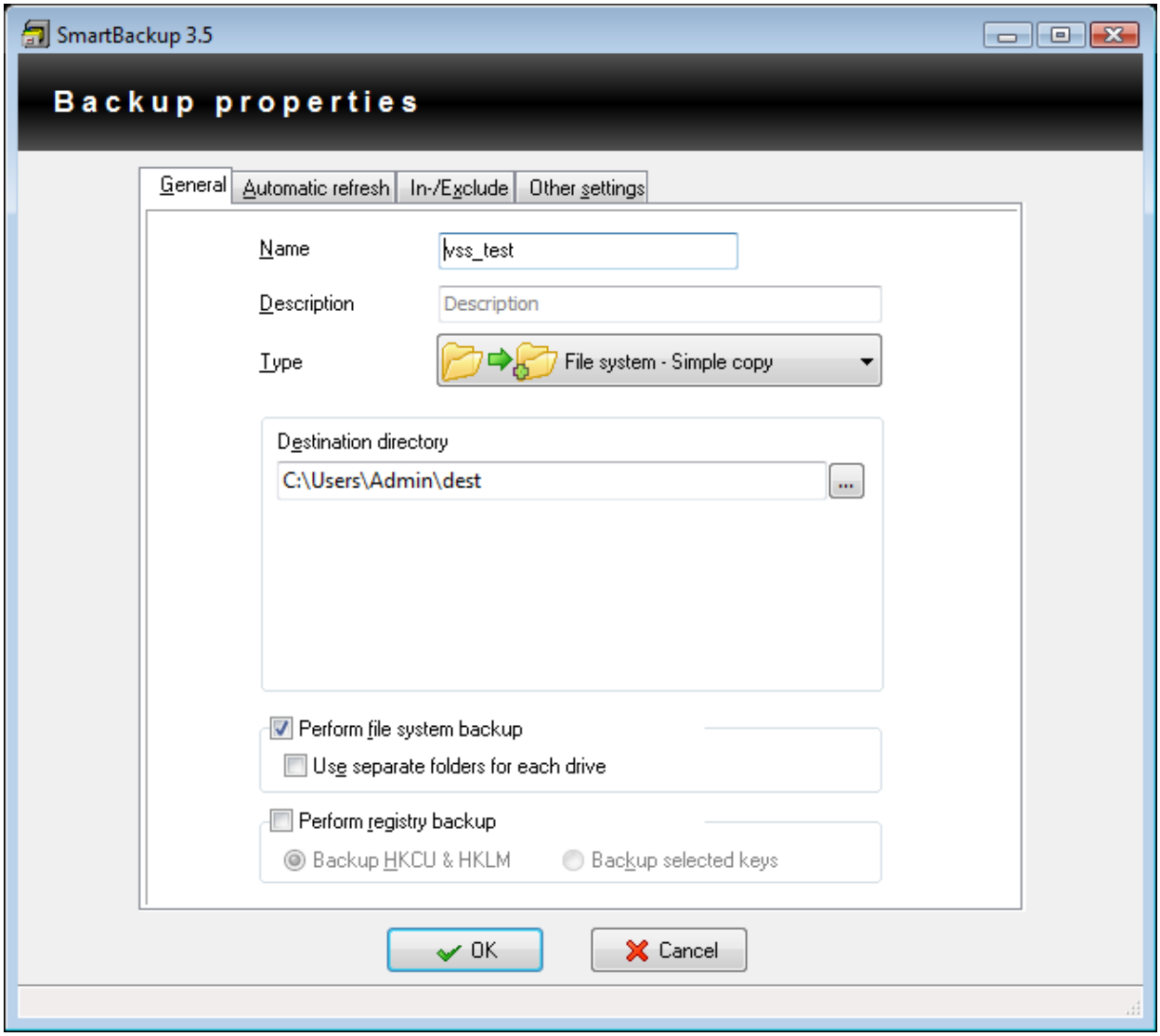
Edit	In order to change the files of a backup volume, press this button. A window will open which gives you the opportunity to make a new selection.
Remove	Deletes the current entry in the list of your backup volumes and the configuration file ('*.SBF') in your application directory, but not the files in the backup archive. During backup, the configuration file will be copied to the archive, too. I.e. backups which are not in the volume list can be achieved by pressing the ***'Import'*** button.
General Options	Opens the global settings dialog of SmartBackup.
Help	Opens this Windows help file.
About	Shows an information dialog about this product as well as contact information.
Exit	Exits SmartBackup completely. SmartBackup will not be minimized to the system tray if you use this button.

By right-clicking a sequence, a context menu opens that provides the same functions.



8.1 Backup Properties

Just like the **'Create'** dialog, it gives the user the possibility to create a new volume or to change the settings of an existing volume. Actually, the only differences between the ***'Properties'*** and ***'Create'*** dialogs are the buttons and the titles.



The first text field specifies 's name. This name will appear in the list of all volumes and it must be unique, because the volume is identified by it's name. The text field '**Description**' allows the user to type in a small text describing the content of this volume. This field is optional.

Using the drop down list, you can choose the volume's type. There are six possible backup volume types available:

File system - Simple Copy A simple copy of all chosen files and folders will be produced. The files and folders are copied to the specified location. (This is like manual copying using the windows explorer).

File system - Exact Copy All files and folders are copied to the specified location. Files which are not present in the source are deleted* from the destination location. So the destination directory always contains an exact image of the source directory.

File system - Synchronization File synchronization provides the possibility to synchronize two folders. The newest files are copied to each location. Newly created files on one side

	are copied to the other side. Deleted files on one side will be deleted* on the other side. This backup type should only be used by advanced users to prevent possible data loss.
Compressed	The compressed backup copies the specified files and folders to a ZIP archive. The archive will be created in the destination path of the volume.
FTP	Using FTP backup all files and folders are copied to a ftp server.
CD/DVD	SmartBackup allows to burn your data directly to a writeable CD or DVD. There is no need for additional burning software like Nero. If you use rewriteable medium, SmartBackup can erase them before backup.

* All files which are deleted during a backup process are moved to Recycle Bin. The files will not be deleted physically except the Recycle Bin is too small to hold all 'deleted' files. In this case, Windows indeed will delete the files circumventing Recycle Bin. Therefore only advanced users should use synchronization. Also, synchronization must not be used for synchronizing complete partitions, especially not, if the OS is installed on one of them.

Below you have to specify the destination path. According to your former selection you have different choices and text boxes here.

Options available on this page are:

Perform file system backup	Select files and folders for backup.
Perform registry backup	Select Windows registry keys for backup.
Use separate folders for each drive	If more than one disk is backed up, this option should be checked to prevent problems with similar files on different drives.
Backup HKCU & HKLM	The keys HKEY_CURRENT_USER and HKEY_LOCAL_MACHINE are backed up.
Backup selected keys	Select the registry keys to be backed up individually.

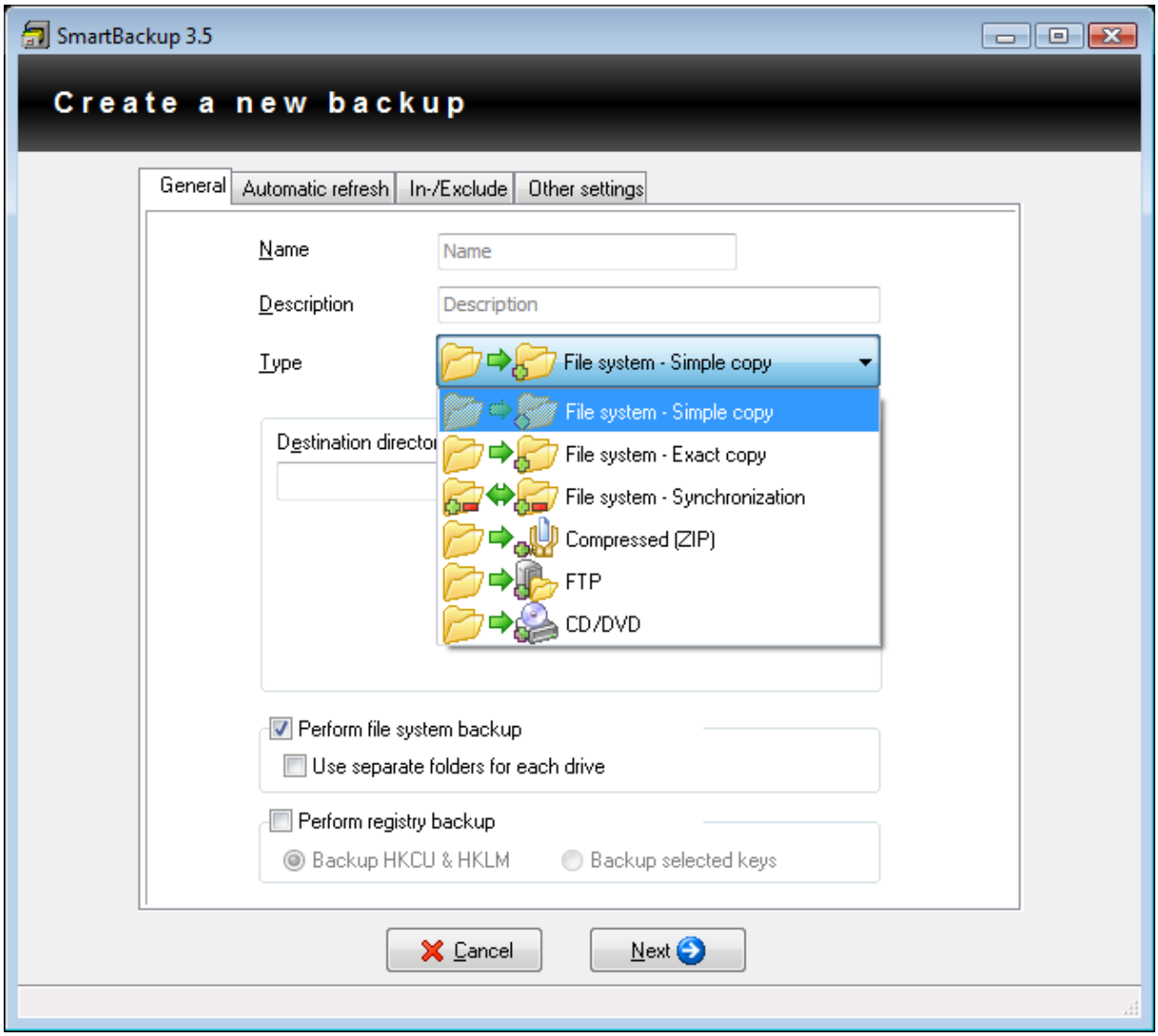
8.1.1 File system backups

File system backups are categorized in three different types: **Simple Copy**, **Exact Copy** and **Synchronization**.

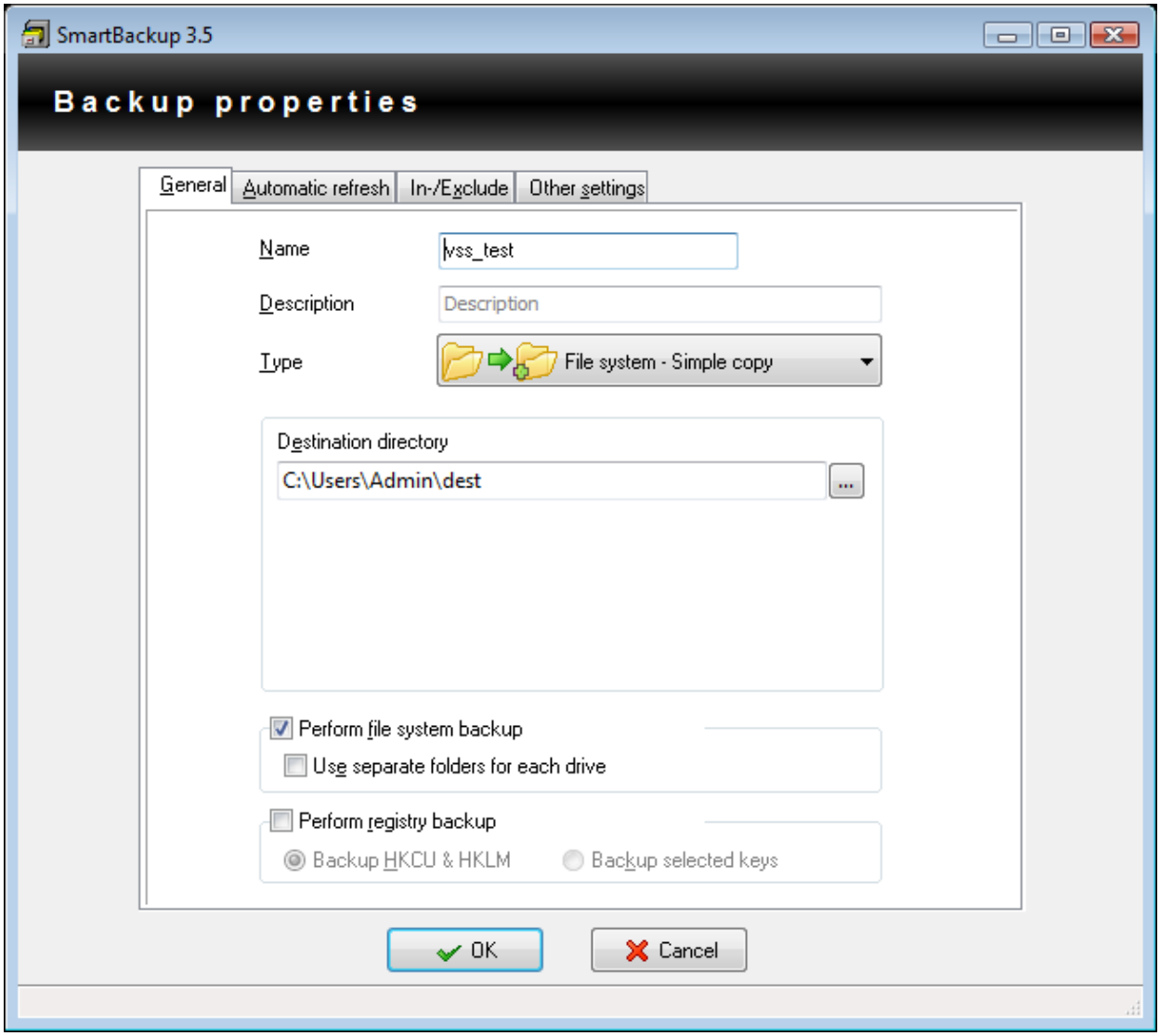
File system - Simple Copy	A simple copy of all chosen files and folders is produced. The files and folders are copied to the specified location. (This is like a manual copy using the windows explorer)
File system - Exact Copy	All files and folders are copied to the specified location. Files which are not present in the source are deleted* from the destination location. So the destination directory always contains an exact image of the source directory.
File system - Synchronization	File synchronization provides the possibility to synchronize two folders. The newest files are copied to each location. Newly created files on one side are copied to the other side. Deleted files on one side will be deleted* on the other side. This backup type should only be used by advanced users to

prevent possible data loss.

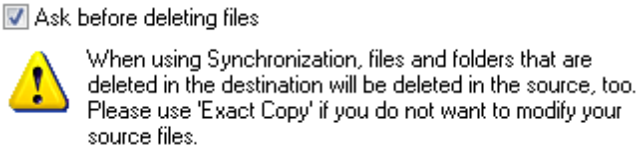
* All files which are deleted during a backup process are moved to Recycle Bin. The files will not be deleted physically except the Recycle Bin is too small to hold all 'deleted' files. In this case, Windows indeed will delete the files circumventing Recycle Bin. Therefore only advanced users should use synchronization. Also, synchronization must not be used for synchronizing complete partitions, especially not, if the OS is installed on one of them.



This screenshot shows the creation dialog when a file system type is selected.



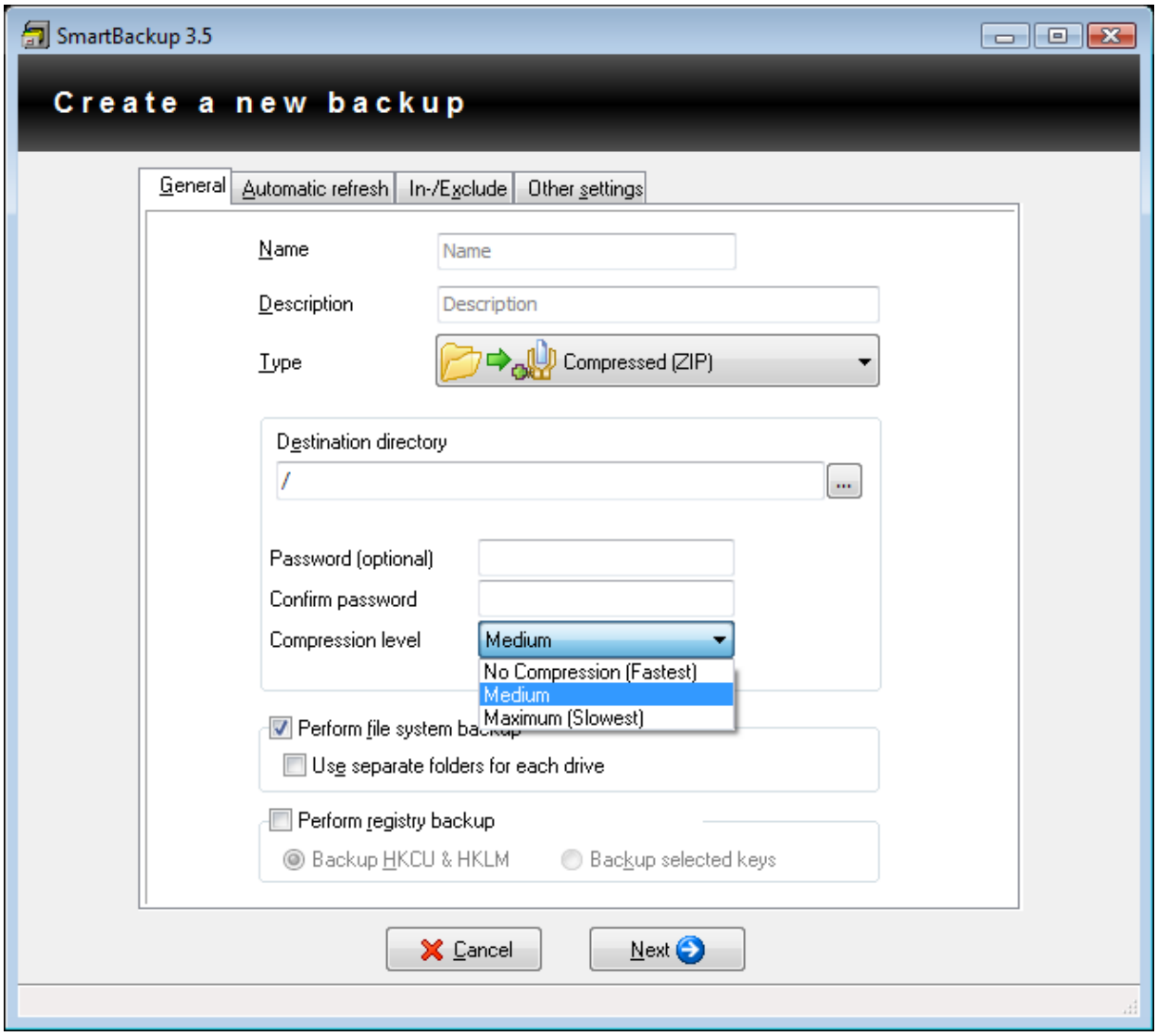
Opening the properties of an existing backup set looks like this. The only differences are the available buttons at the bottom of the dialog page.



In the ***Properties*** dialog of *'Exact Copy'* and *'Synchronization'* SmartBackup can be set to ask for permission, whenever it wants to delete files. During backup you can decide how to process the current or all following files that should be deleted. If you uncheck this option files that should be deleted are effectively deleted without any inquiry.

8.1.2 Compressed backups

Using compressed backup the files and folders are compressed to a ZIP file. Therefore some additional settings can be done in the **Create**/**Properties** Dialog.



The creation dialog for a compressed backup. The properties dialog is left out because it looks the same except from the buttons at the bottom of the dialog.

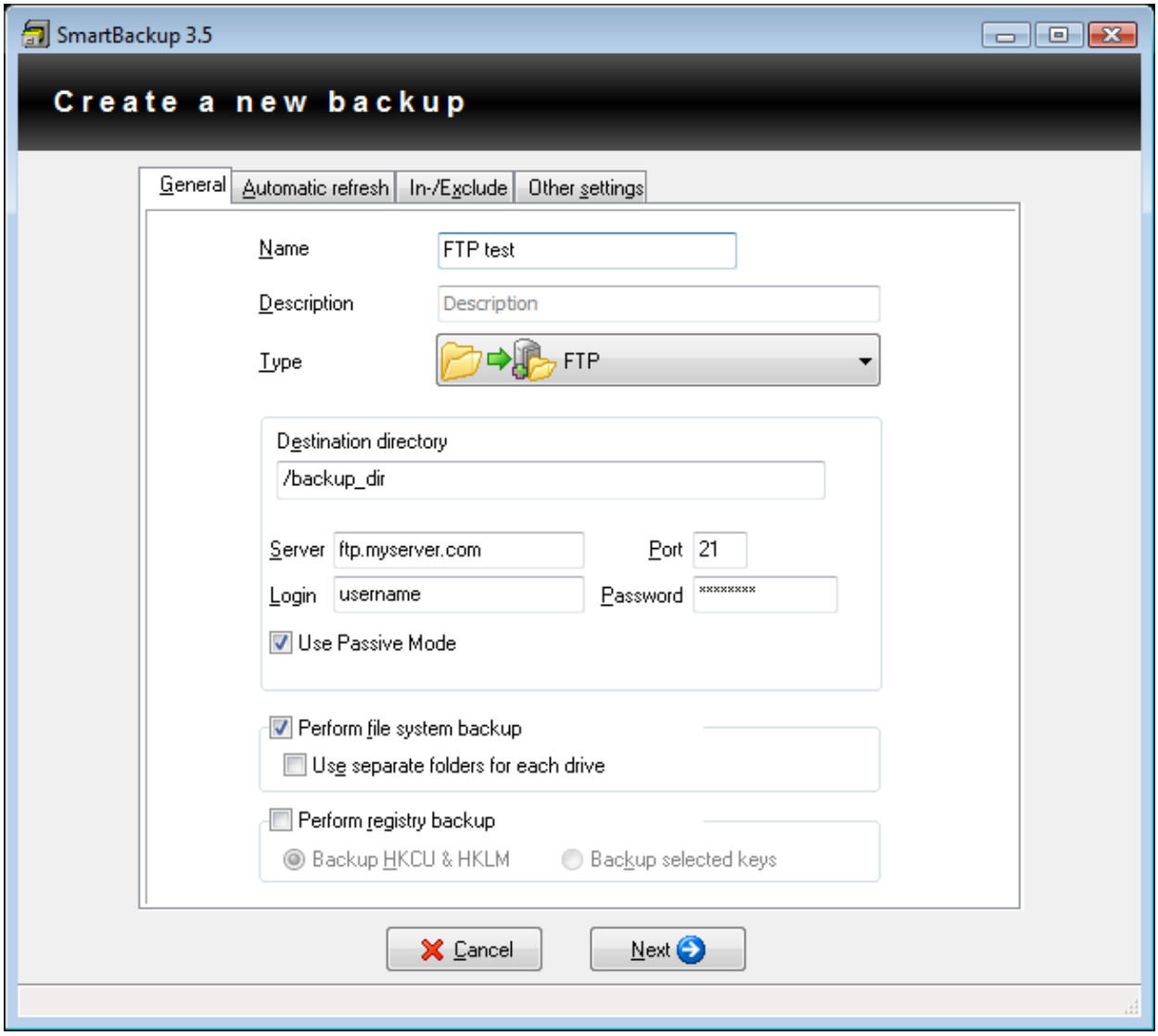
Password A password for the ZIP file can be specified.

Confirm password Confirmation of the specified password.

Compression level Defines the compression method.
No Compression - fastest backup speed, just archiving, no compression.
Medium Compression - medium backup speed, medium file size.
Maximum Compression - slowest backup speed, smallest file size.

8.1.3 FTP backups

If "**FTP**" is selected as backup type, the creation dialog for a FTP backup will arise. Here are some additional settings to be made.



The properties dialog is omitted because it looks the same, except from the buttons at the bottom of the dialog.

Destination path Here you can insert the directory to where the backup has to be performed to.

Server Type in the IP address or server DNS name, which you want to backup to.

Port Specify the port the FTP server is listening to. The FTP default port is 21.

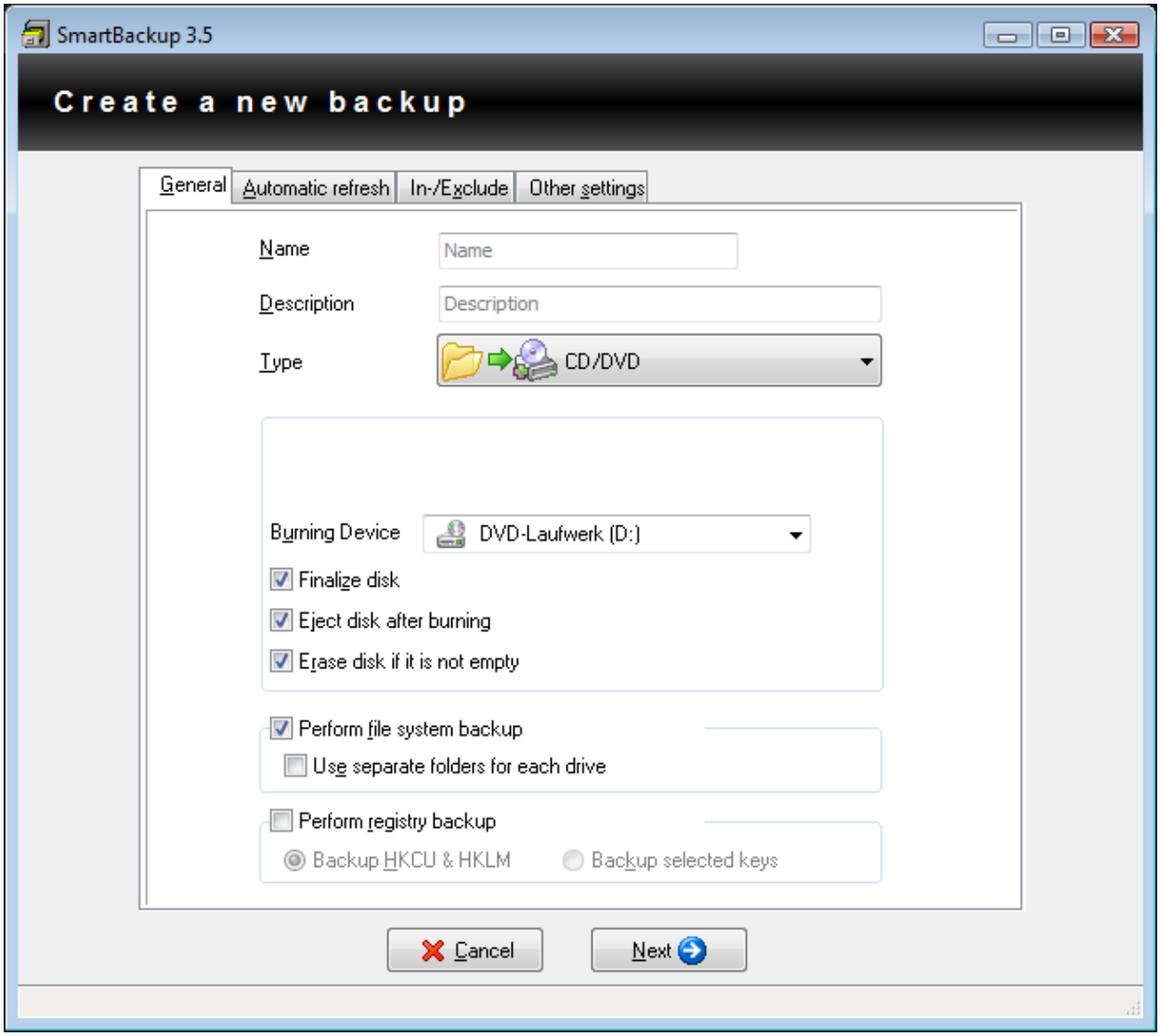
Login The user account you want to use for backup.

Password The password which belongs to the specified user account.

Use Passive Mode Check this option if you know that the FTP Server uses passive mode for communication, otherwise leave it blank (active mode is used per default).

8.1.4 CD/DVD backups

Using "**CD/DVD**" as backup type, you can burn your files directly to a writeable CD or DVD. Some additional settings can be made.



The properties dialog of this backup type is omitted because it looks the same, except from the buttons at the bottom of the dialog.

Burning Device Specifies the drive you want to burn your data to. Only drives that allow writing CDs/ DVDs are listed.

Finalize disk Check this option if you want to read your CD/DVD on other computers than that you copied data from.

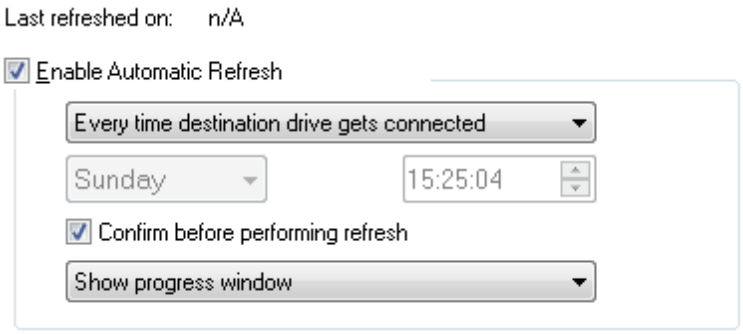
Eject disk after burning Check this option if you want your drive to eject the burned disc after completion.

Erase disk if it is not empty In order to perform a CD/DVD backup to a medium, which contains files already, check check this option if you want to erase the disc. If you do not check this option in this case the backup job will be canceled. If this option is not enabled and

the inserted medium is not empty, the backup operation will be canceled.

8.1.5 Automatic refresh

You can activate automatic refreshes for your backup in this tab.



Enable Automatic Refreshes This option enables automatic refreshes for the current volume.

Confirm before performing refresh This option displays a small confirmation dialog before a volume is refreshed.

Frequency Sets the frequency of automatic refreshing. Available values are:
- Once a day on Windows startup
- Once every day
- Once every week
- Once every 6 hours
- Once every 12 hours
- Custom (every X minutes [3-1440])
- Every time destination drive gets connected, e.g. USB stick or external HDD is plugged in.

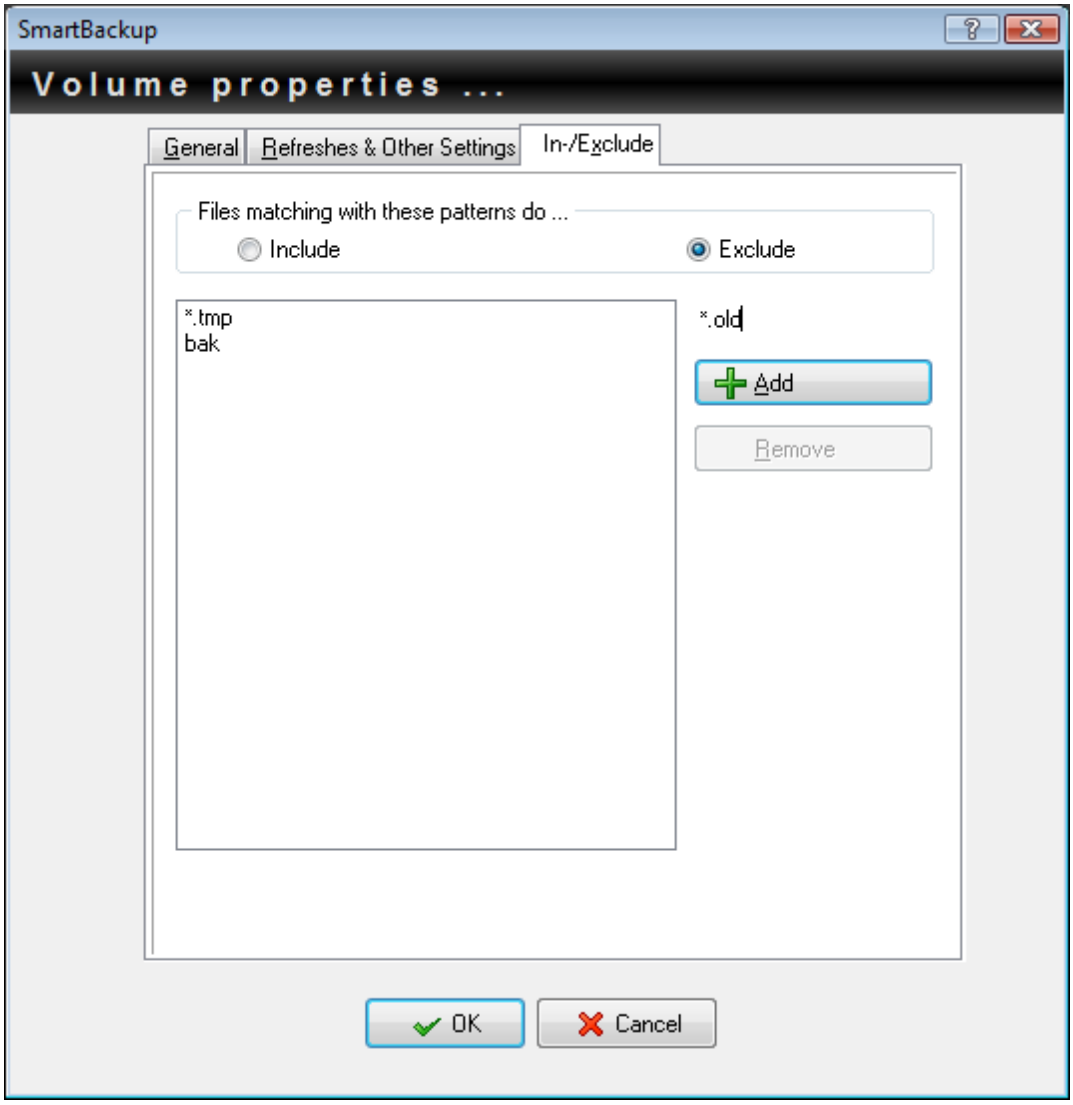
Day Sets the day for automatic refreshing.

Time Sets the time for automatic refreshing.

Progress window Set the behavior of the progress window:
- Show as usual
- Show it and close when ready
- Do not show the window

8.1.6 Include and exclude lists

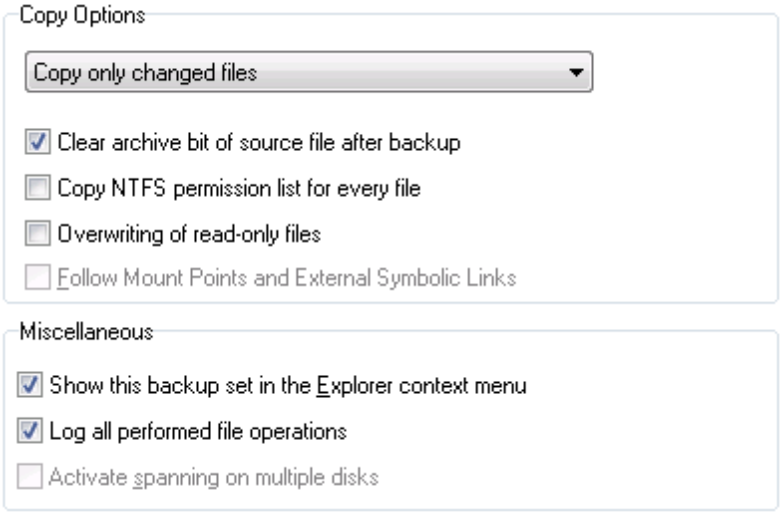
SmartBackup has an include and exclude list to specify certain wildcards or partial names. With this list it is possible to left out certain filetypes (e.g. temporary files) or files as well as to include them, which means to copy only these files and no others.



Enter your patterns in the field above the **'Add'** button. These patterns will be added to the list when you click on **'Add'**.
If you select an existing pattern from the list and hit the **'Remove'** button, it will be removed.

Currently it is only possible to set either includes or excludes for one backup; it is not possible to set both simultaneously!

8.1.7 Other settings



Before copying a file, SmartBackup checks whether this file has to be copied or not. Unchanged files will never be copied. But you can restrict this criterion by selecting one of the following options in the list:

Copy only changed files	SmartBackup will only copy those files that are different in source and destination directory.
Copy only files with archive bit set	If this options is checked, all files are copied with archive bit set. The archive bit is set, if a file is modified, created, moved etc. Therefore all files are copied which have changed since the last refresh.
Copy files that have been changed in the last ... days	If this option is checked, only files are copied which have been modified in the past x days.

Other settings are:

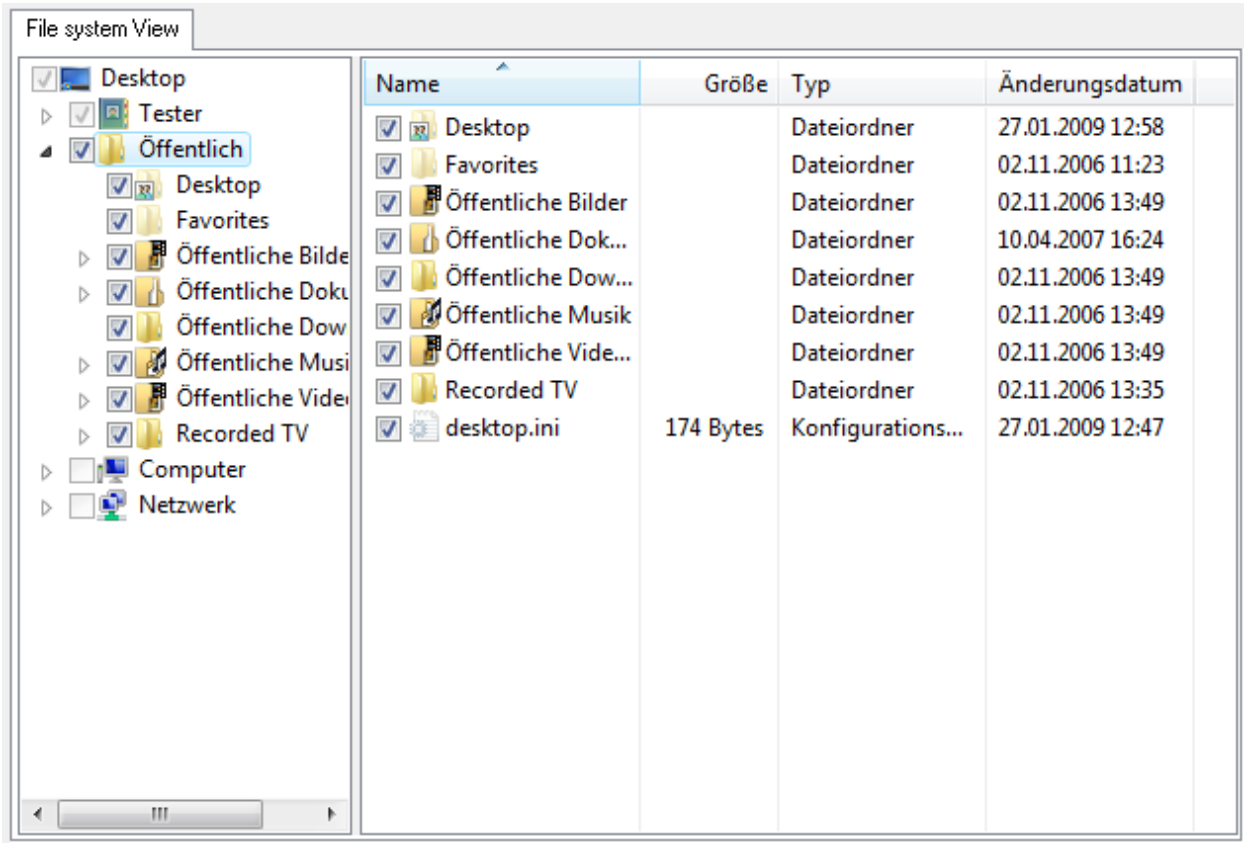
Copy NTFS permissions list for every file	If you want to preserve the NTFS permission list for every file activate this option. This works only with Windows XP and Vista.
Allow overwriting of read-only files	By checking this option you allow SmartBackup to overwrite read-only files. If you are doing synchronization backups, this should be activated to ensure your backup is complete, even if some files are read-only.

Follow Reparse-Points	If SmartBackup shall follow reparse-points under Windows XP and Vista this option has to be enabled. **By default this option is disabled, because it can lead to unpredictable results. Use this option with caution!**
Show this backup in the Explorer context menu	This option indicates if the volume should be shown in Explorer context-sensitive menu. It makes it possible to add files within the Windows Explorer.
Log all performed file operations	All operations performed by SmartBackup are written to the log file. If it is not checked only errors and warnings are written to the log file.
Activate spanning on multiple disks	This option activates spanning on multiple disks for backup on removable media like e.g. floppy disk. It is only available if the destination is a removable disc drive.

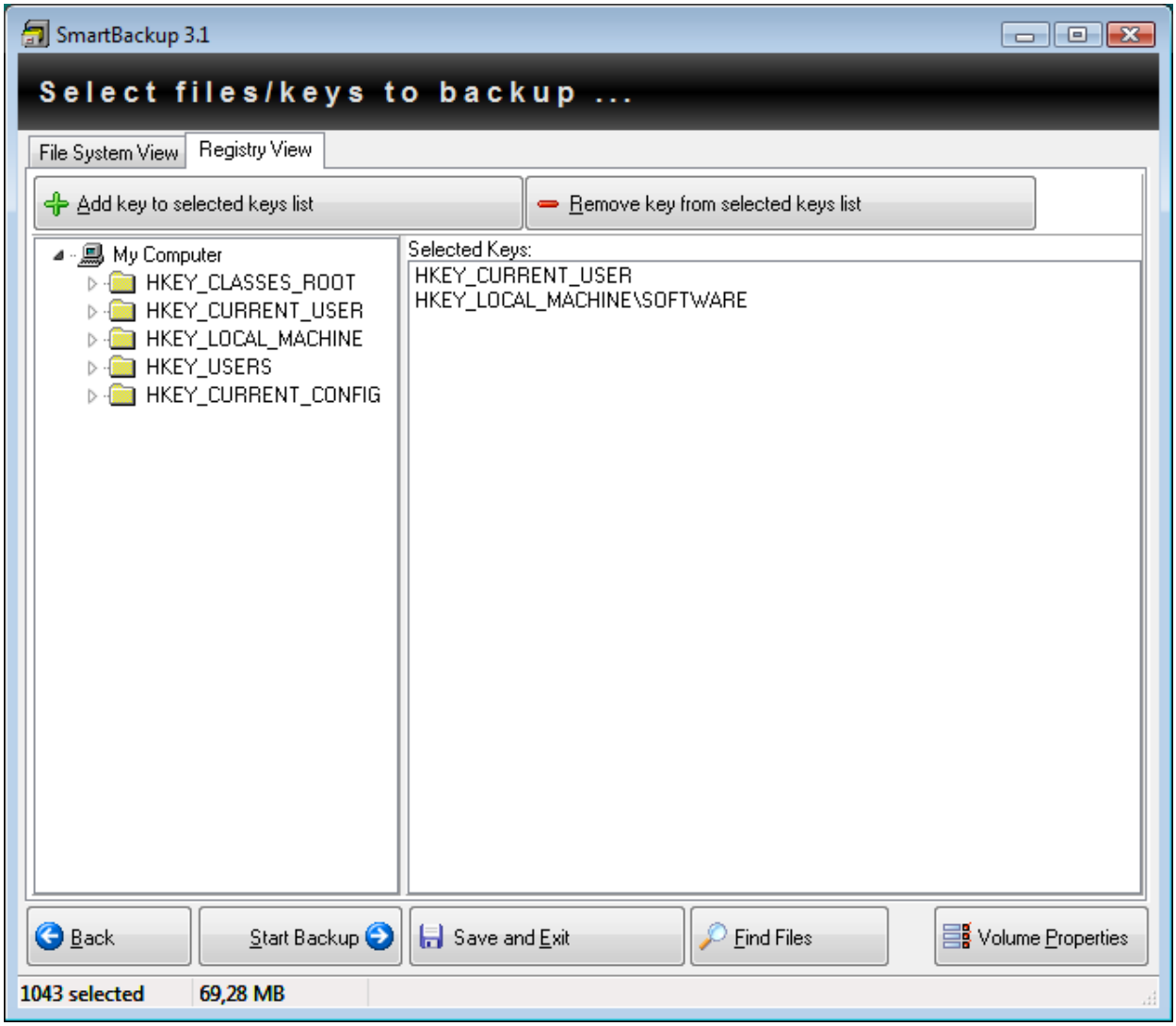
Not all options are available for every backup type. Also certain options depend on other options.

8.2 Data Selection

The **'Selection'** dialog allows to choose files and folders as well as registry keys for backup.



Selecting files and folders for backup is done via an Explorer-like interface with check boxes. Just click on a check box of a folder or a file and it will be selected for backup.



Selecting registry keys (if registry backup is activated) turns out to be quite simple: just select a key in the registry tree and hit the '**Add**' button. You can double-click on a key in the registry tree also. To remove items from the selection, choose the key in the list and hit the **'Remove'** button.

Back — Brings you back to the main window or creation dialog without saving the selection. This depends on where you came from.

Start Backup — Starts a backup process with the current selection of files, folders and registry keys.

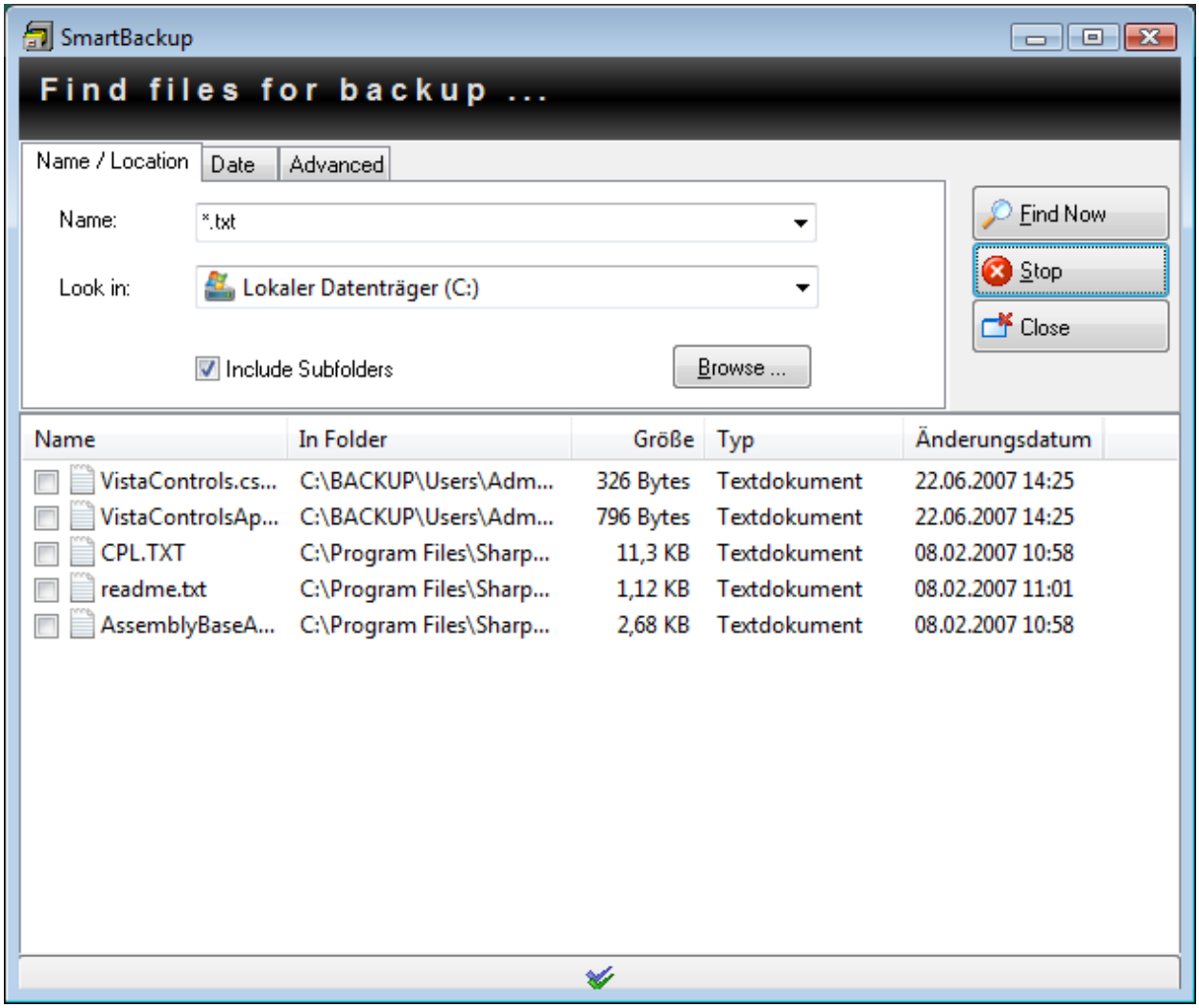
Save and Exit — Saves the current selection of files, folders and registry keys to the backup volume and exits to the main window without performing a refresh/backup.

Find Files — Opens the **Search** dialog in order to find certain files for your backup.

Volume Properties — Opens the backup properties of the current volume to change some settings.

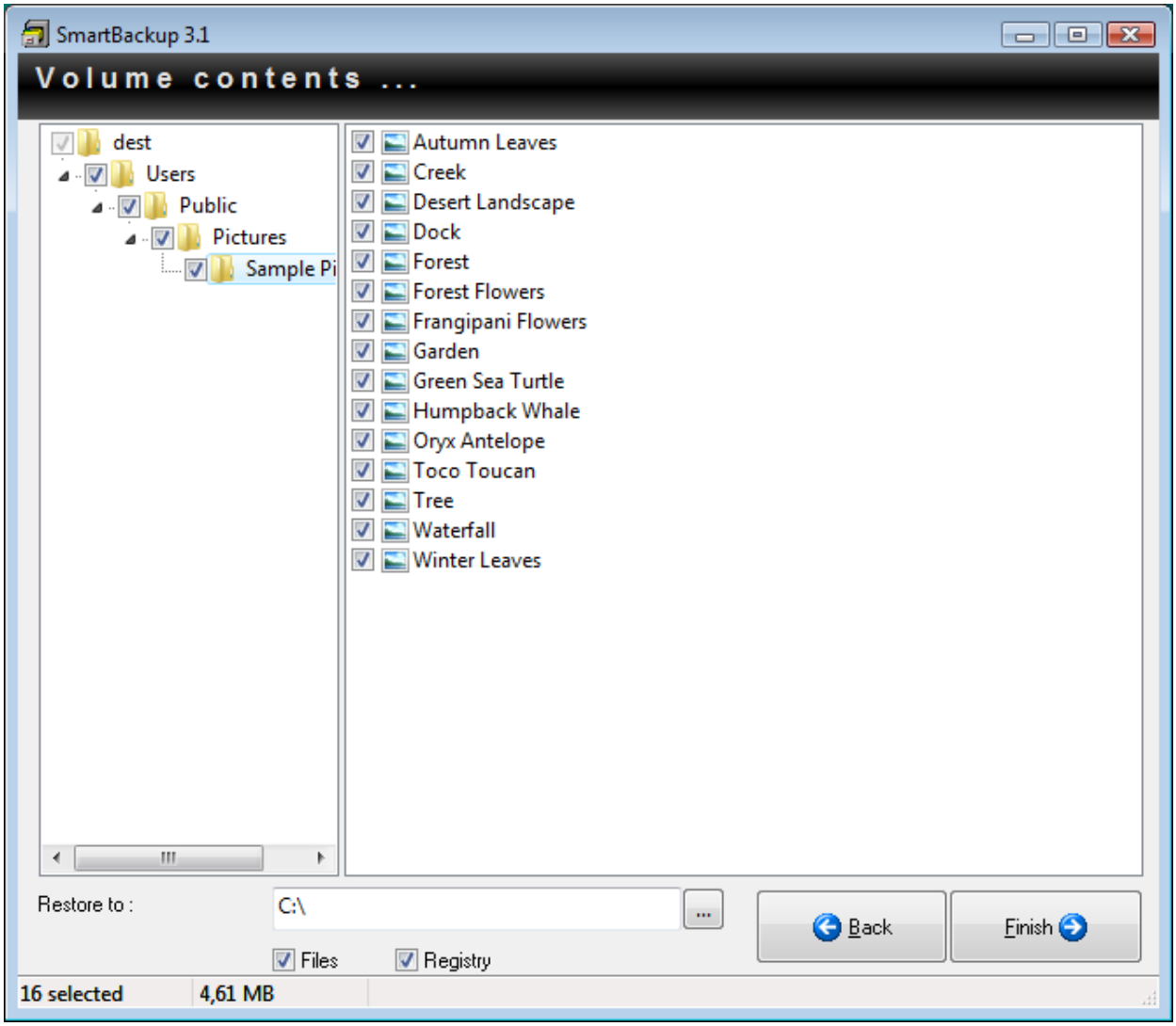
8.2.1 Search Dialog

The **'Search'** dialog offers the opportunity to find certain files, by specifying extension, partial name, creation date or similar criteria.



8.3 Restore

The **'Restore'** form let you select files for restoring. Registry restore can be selected as well.



Restore to Specifies the restore location.

Files Restores selected files and folders.

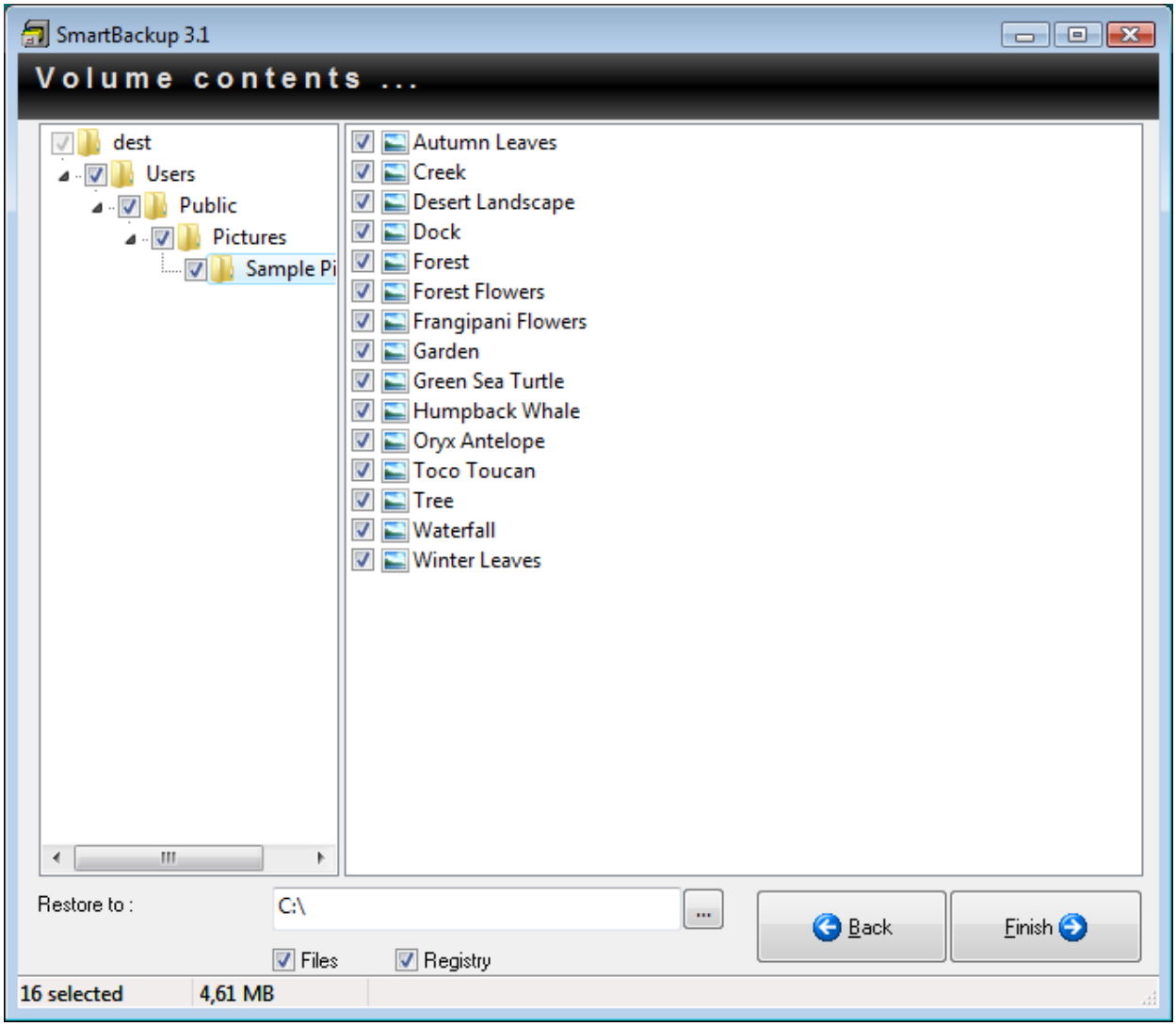
Registry Restores registry keys.

Finish Start restore operation.

Back Cancels and returns back to main menu.

8.3.1 FileSystem Restores

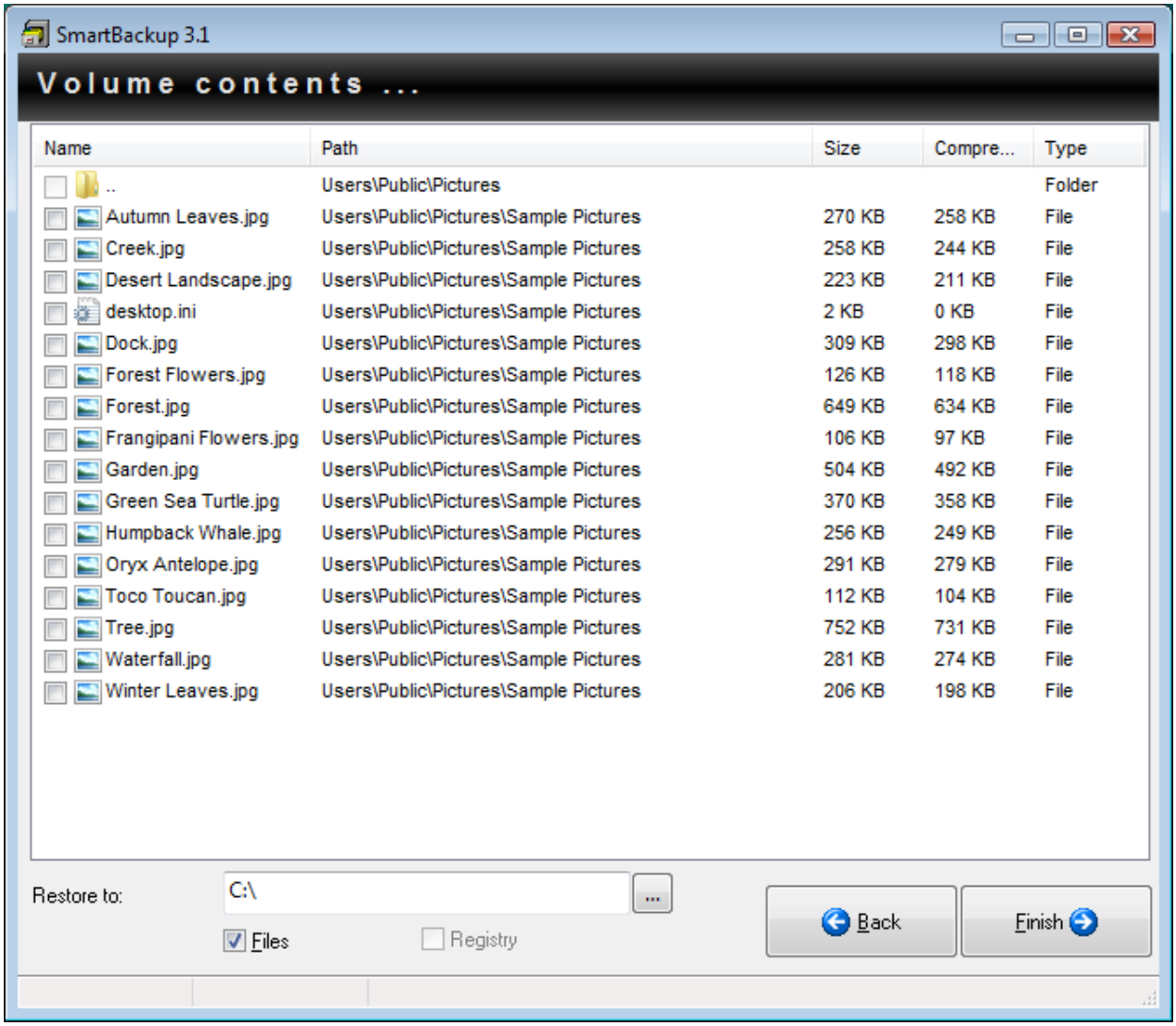
Selection of files and folders in a file system restore can be done using this Explorer-like interface.



Files and folders can be selected by clicking on the check boxes next to the icon.

8.3.2 Compressed Restores

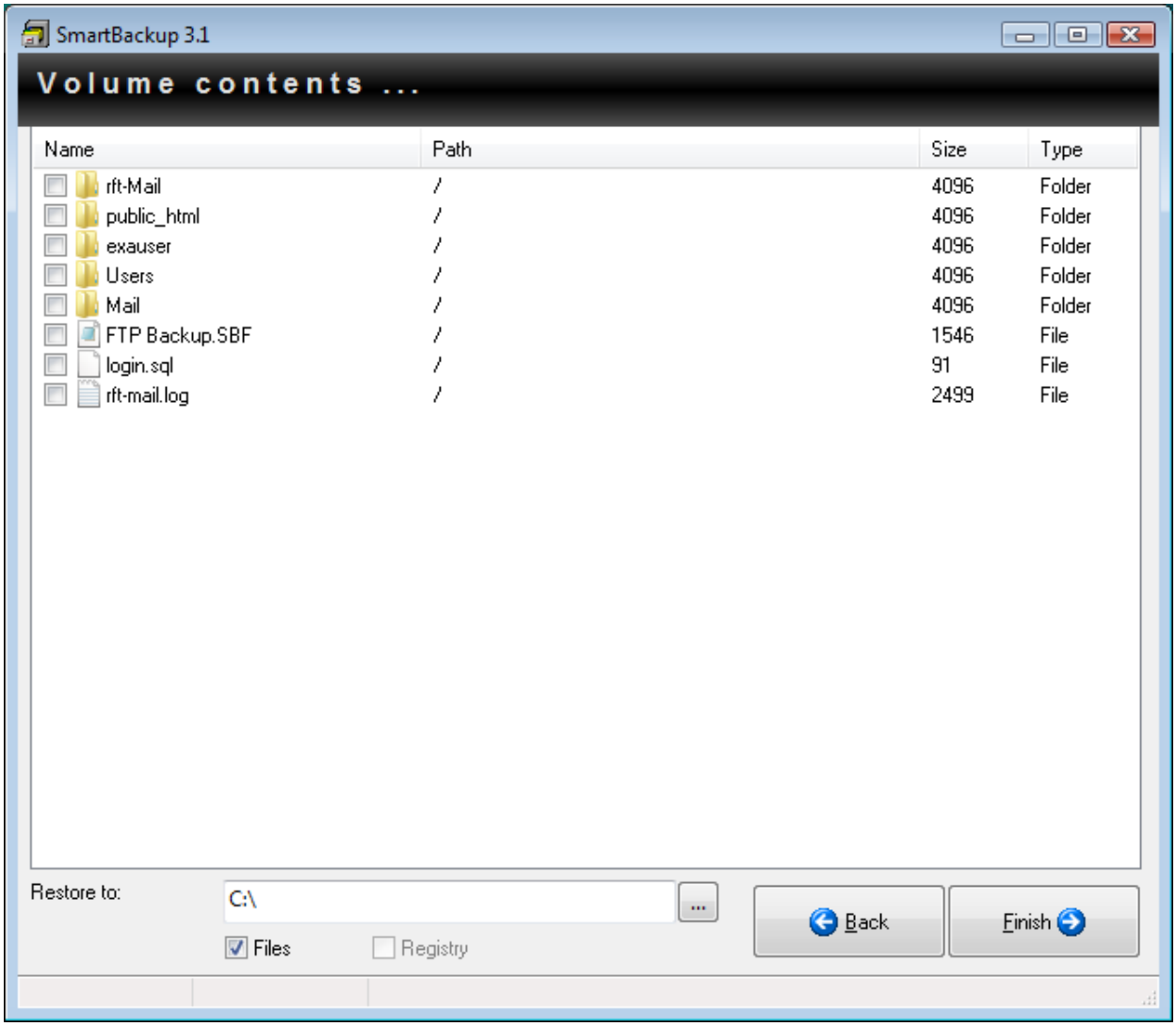
Selection of files and folders in a compressed restore can be done using this WinZip-like interface.



Files and folders can be selected by clicking on the check boxes next to the icon. Double-click on a folder for navigation, e.g. to move up in the folder hierarchy double-click on the ".." folder. The .SBF-file will not be restored, even if it is selected.

8.3.3 FTP Restores

Selection of files and folders in a FTP restore can be done using this simple interface.



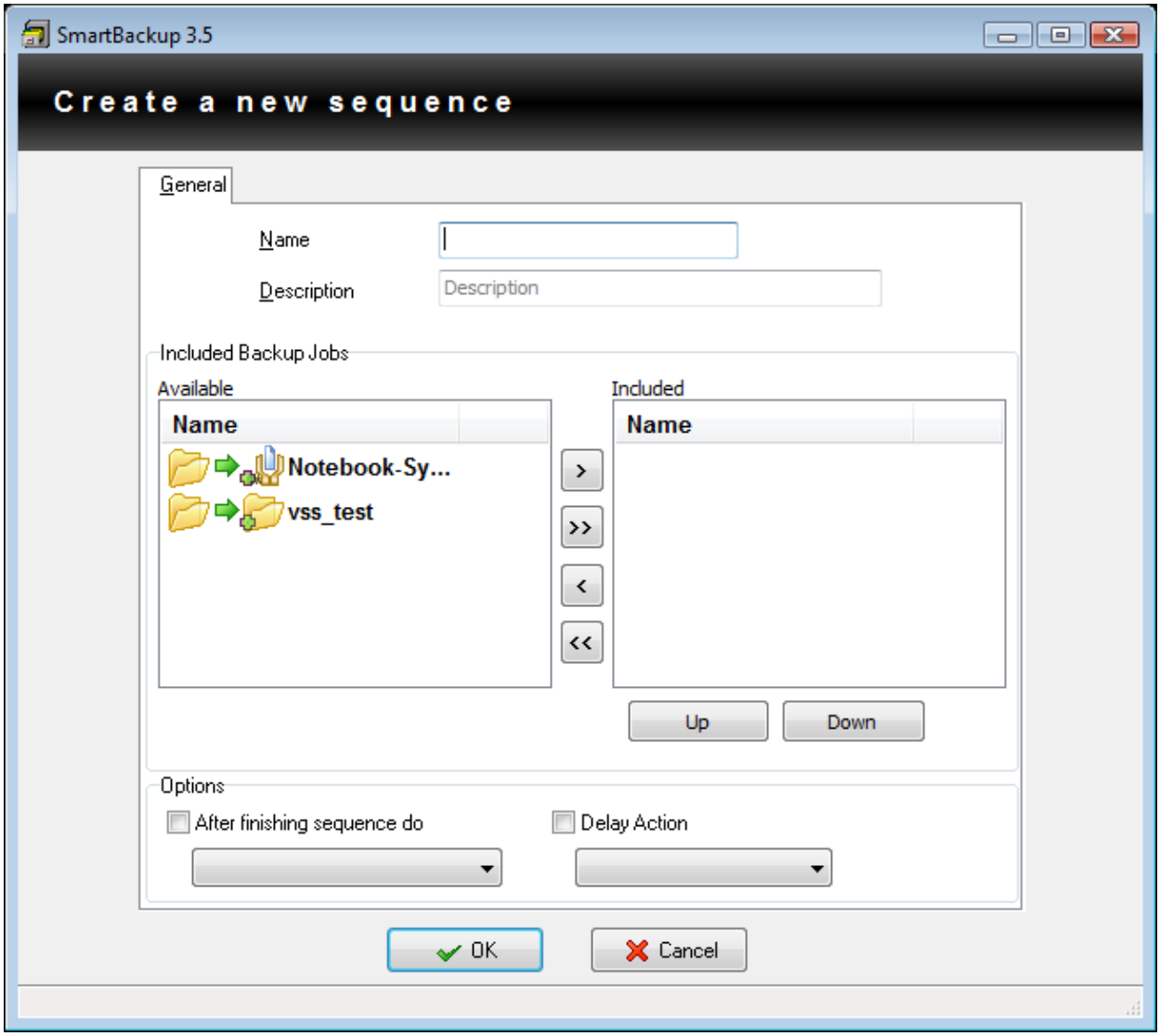
Files and folders can be selected by clicking on the check boxes next to the icon. To navigate through the subfolders, just double click on the folder.

8.4 Sequences

Sequences are sets of backup volumes. A sequence has to contain at least one backup volume. Every sequence has a name and a description. After you created a new sequence you can back it up or restore it. Besides you can define an action that has to be performed after the backup or restore of the sequence has finished.

Create a new or edit an existing sequence

The following picture shows how the window to create and edit sequences looks like:



Name & **Description** — You can enter a name and a description for the sequence.

Excluded Backups (Left List) — In the left list you see all available backup volumes that are currently not included in the sequence. If you want to **exclude** an included backup volume from the sequence you select the entry in the right list and hit the single arrow to the left or drag the entry to the left list.

Included Backups (Right List) — In the right list you see all included backup volumes of this sequence. You can **include** new backup volumes to the sequence by selecting the entry in the left list and hitting the single arrow to the right or by dragging the entry to the right list.

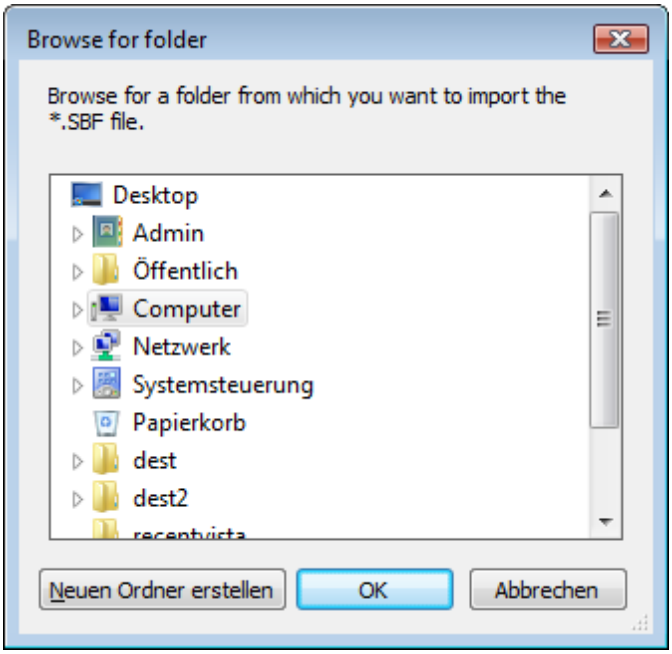
Action after finish — You can set an action that has to be performed after a backup or restore of this sequence has finished. There are several actions you can choose from:

- Log off user
- Restart computer
- Turn off computer

Delay Action — If you set one of those actions you can define a time by which the action shall be delayed.

8.5 Import volumes

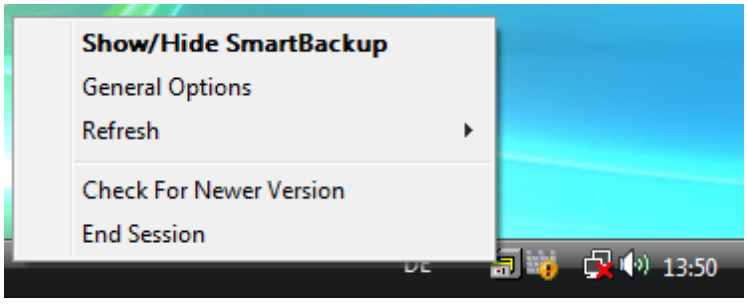
This function imports SmartBackup backup sets. This could be useful after a crash or a new installation of the operating system. Since SmartBackup copies the configuration file of a volume to the backup destination, it can be regained easily. Just select the folder where the '.**SBF'** file is located in the upcoming dialog.



It is possible to import volumes manually, too. Exit SmartBackup completely and copy the '.**SBF'** files of all volumes you want to import into the application folder of SmartBackup. Then restart SmartBackup and you will see that all volumes appear in the volumes' list.

8.6 Tray icon

If you activate ***'Run as a tray icon'*** in the **General Options** dialog, SmartBackup will add a icon to your system tray. Right-clicking this icon let you choose to open the **General Options** dialog or to refresh every backup job without opening the main screen.



If you close the main window by clicking the **'X'** button in the upmost right corner of the window, the application will not end but minimize to the tray. You can activate the application by double-clicking the tray icon or selecting the first entry of the context menu.

You may do the refreshing of your backup jobs automatically in the background as well, if you activate the option ***'Run as a tray icon'***.

8.7 Command Line

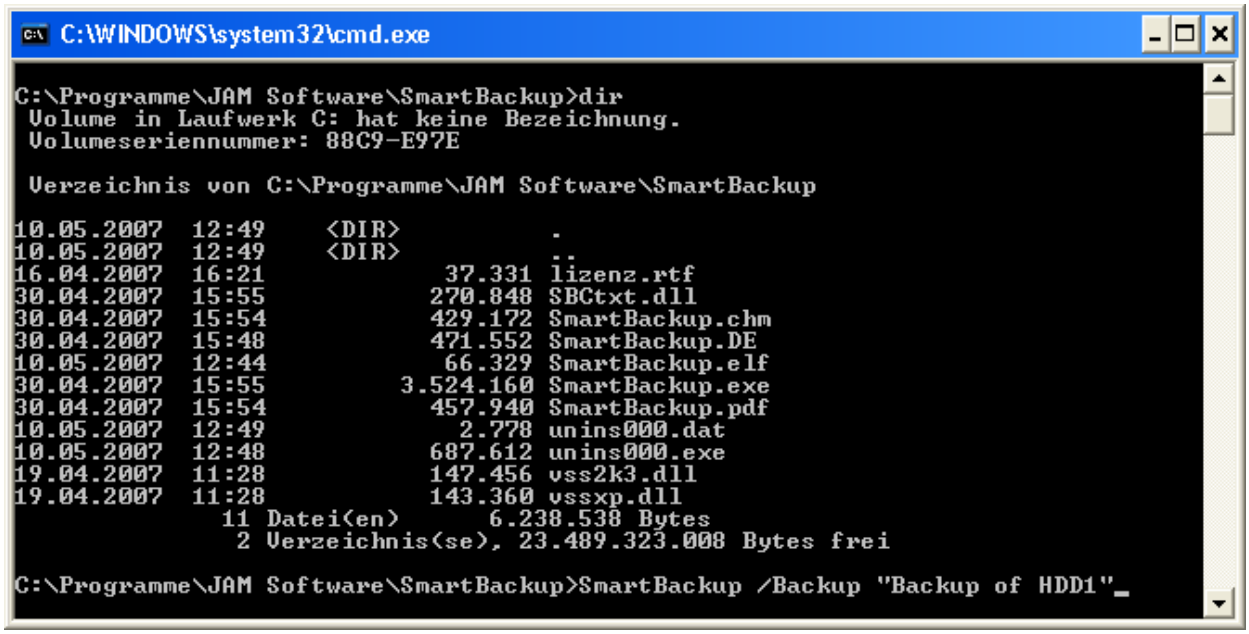
Start a backup job via command line

It is possible to start backup processes via the command line in batch mode. For this purpose, change the current directory to the install directory of SmartBackup, usually *'C:\Program Files\JAM Software\SmartBackup'*.
To produce a backup set called *'Backup1'*, enter

SmartBackup /backup Backup1

In case your backup set name contains white spaces, you will have to quote the name:

SmartBackup /backup "Backup of HDD1".



Start a sequence via command line

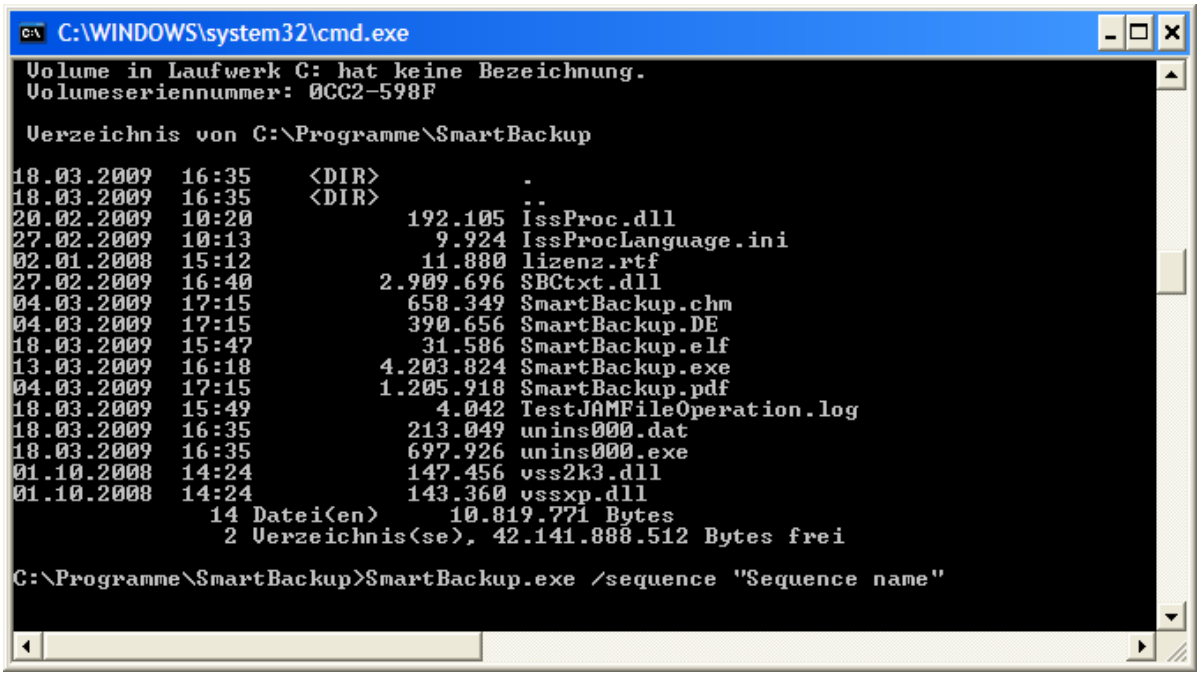
It is possible to start a sequence via command line in batch mode. For this purpose, you can follow the procedure for a backup job explained above, with only one difference: The command slightly changes:

You can run a sequence named "Sequence2" by entering:

SmartBackup /sequence Sequence2

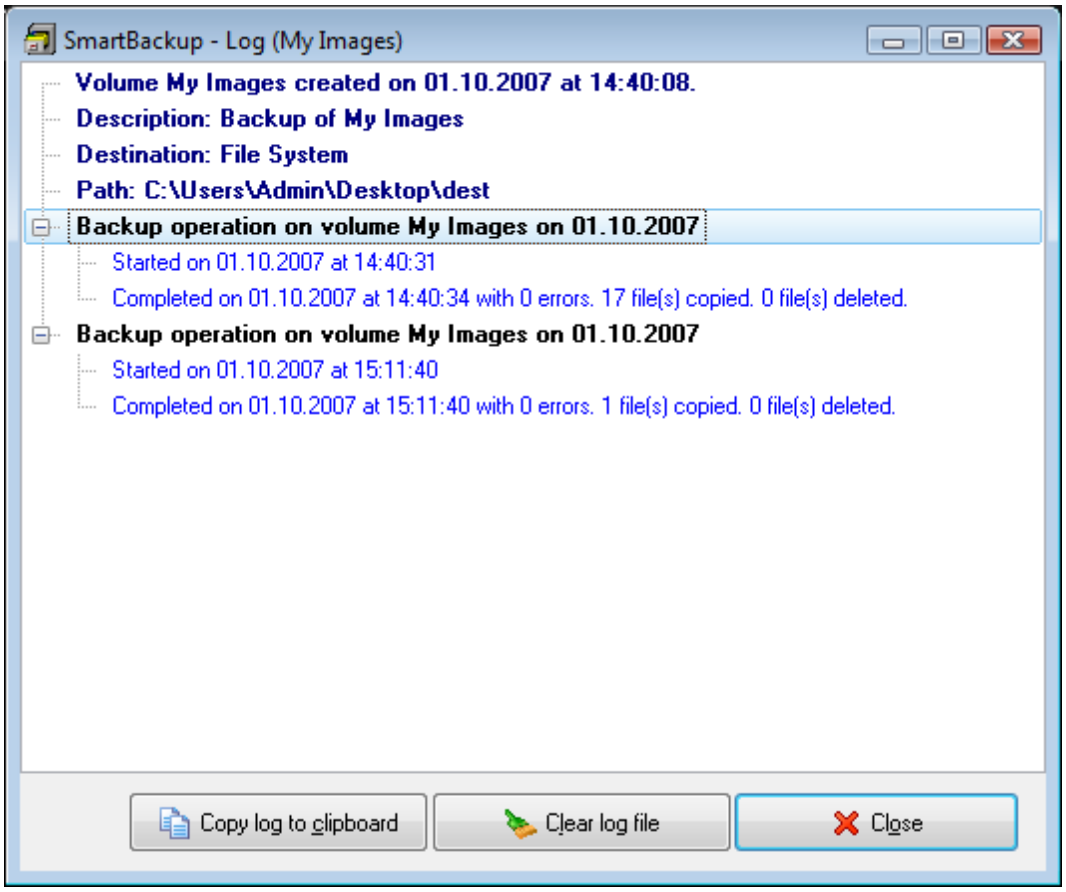
In the case your sequence name contains white spaces, you have to quote the name:

SmartBackup /sequence "Sequencename with whitespaces"



8.8 View Log Information

Each backup volume has a log file containing information about the backup operations.



By pressing **'Copy log to clipboard'** you can copy the selected log entry to the clipboard for pasting this information in (e.g.) an e-mail. The **'Clear Log File'** button will clear the log file, if it becomes too confusing.

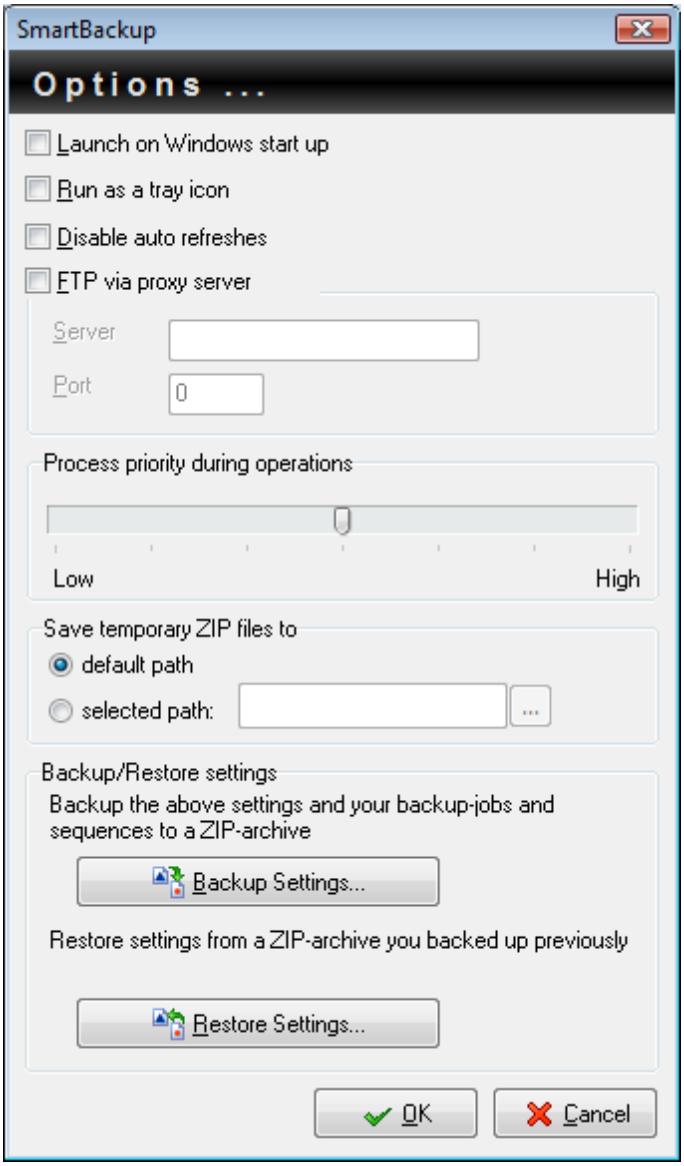
In case of an erroneous backup, SmartBackup will add an entry containing the number of errors to the Windows event log, too.

8.9 General Options

You reach the options screen through the menu item **'General Options'** of the main menu.

- **'Launch SmartBackup on Windows start up'**: If this option is activated, SmartBackup will start automatically on every Windows boot up.
- '**Run SmartBackup as a Tray Icon'**: SmartBackup runs in the background (as a tray icon) without showing the main window.
- **'Disable auto refreshes'**: If this option is set, SmartBackup will ignore the timer for automatic backups.
- **'FTP via proxy server'**: Makes FTP backups over the internet possible, supposed the communication with the internet is carried out via proxy server.

Additionally, the priority of SmartBackup can be adjusted by a slider control.



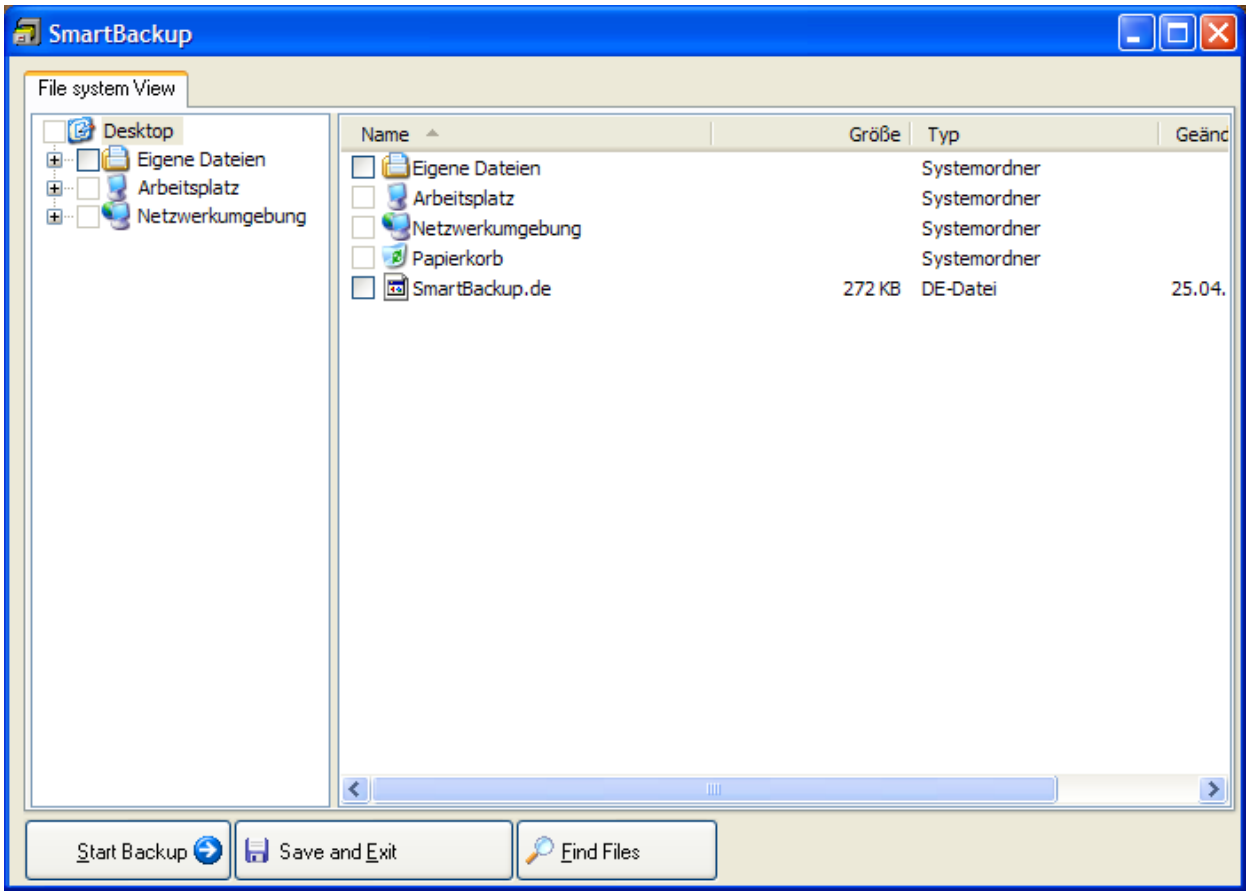
To apply changes press the button **'OK'**, to discard changes press the button **'Cancel'**.

9 Portable Installation

You can choose to install SmartBackup on a removable drive, e.g. a USB pen drive or a external hard disk. In this case you are able to use SmartBackup as a portable application for backing up more than one computer.

Whenever you plug in this removable drive on a computer, Windows will open it's AutoPlay dialogue. Confirming this dialogue with *OK* will start SmartBackup. If you have deactivated AutoPlay, you can start SmartBackup by double-clicking on this drive in the Windows Explorer, too.

If you have not created a backup job in USB mode on this computer, SmartBackup will offer you to specify files, that should considered for back up in the first step. By pressing the button *Start backup* an *Exact Copy* backup job will be created, the selected files will be stored to a sub-folder of your removable drive and SmartBackup will close automatically. The sub-folder's name is identical to the unique computer ID computed by Windows and can be seen in the Windows' Properties dialogue.



If a USB mode backup job already exists on this computer, it will be refreshed whenever you plug in the removable drive and start SmartBackup in the way described above.

10 Registration

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