

VERITAS

User's Guide



# Backup Exec<sup>TM</sup> Desktop Pro

Windows 9x, Windows NT and Windows ME

Version  
4

Backup Exec Desktop Pro<sup>TM</sup>

User's Guide

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Backup Exec is a powerful backup solution for Windows designed to protect your valuable data. This user manual provides detailed information and procedures for installing, using, and navigating within Backup Exec. Other valuable information is available through Backup Exec's On-line Help.

## Where to Look—Getting Started

<b>For information about</b>	<b>See</b>
Installing and configuring Backup Exec	<a href="#">“Installing Backup Exec”</a> on page 8
Using Automatic Data Protection	<a href="#">“Automatic Data Protection”</a> on page 13
Backing up and restoring your files quickly	<a href="#">“One-Button Backup”</a> on page 14 <b>and</b> <a href="#">“One-Button Restore”</a> on page 16
Creating the Disaster Recovery Set	<a href="#">“Creating the Disaster Recovery Set”</a> on page 58
Using Disaster Recovery	<a href="#">“Disaster Recovery”</a> on page 62
Restoring all your files without Disaster Recovery diskette(s)	<a href="#">“Restoring All Your Files”</a> on page 67
Using Backup Exec's Wizards to create backup and restore jobs	<a href="#">“Using the Backup Wizard”</a> on page 29 <b>and</b> <a href="#">“Using the Restore Wizard”</a> on page 70
The Backup window and options	<a href="#">“Where to Look—Backup”</a> on page 25
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The Compare window and options	<a href="#">“Where to Look—Compare”</a> on page 83
Solving common problems	<a href="#">“Troubleshooting Tips”</a> on page 97





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For information about	See
Getting technical assistance	<a href="#">“Technical Support”</a> on page 107

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## Installing Backup Exec

This section provides system requirements and installation instructions.

### System Requirements

#### For Windows NT

Make sure your computer meets the following requirements before you begin the installation.

- ◆ IBM or 100% compatible 486 or higher
- ◆ 16 MB RAM or more
- ◆ Windows NT Workstation 4.0
- ◆ A hard drive with at least 10 MB free
- ◆ A Microsoft or 100%-compatible mouse is highly recommended

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**Note** This product is not intended for use on an NT server.

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#### For Windows 9x

Make sure your computer meets the following requirements before you begin the installation.

- ◆ IBM or 100% compatible 486/DX or higher
- ◆ 10 MB RAM or more
- ◆ Windows 95 or Windows 98
- ◆ A hard drive with at least 10 MB free
- ◆ A Microsoft or 100%-compatible mouse is highly recommended

## Installing Directly from a CD-ROM

### ▼ To install Backup Exec directly from your CD-ROM:

1. Insert the CD-ROM disc into your CD-ROM drive.  
The CD Browser appears.
  2. Follow the instructions on your screen to install the program.
- Or,
1. If the CD Browser does not appear, select Run from the Start menu.
  2. Type (Your CD-ROM drive letter):\SETUP.EXE and press OK.  
The CD Browser appears.
  3. Follow the instructions on your screen to install the program.

## Installing from Floppy Diskettes

1. Start Windows.
2. Insert the installation diskette in drive a: (or b:).
3. Choose Run from the Start menu and type **a:setup** or **(b:setup)**.
4. Select the destination directory for your files.
5. Review the README file.

Reboot your system to complete the installation.

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**Note** If you are upgrading from a previous version of this program, the catalog automatically converts to the current Backup Exec format during installation. The time required for the conversion may be significant depending on the size of your old catalog and the speed of your system.

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## Configuring Your Backup Device

Most types of backup devices are automatically detected and configured the first time you run Backup Exec. Your backup device will be listed in the **Where to Back Up** box.



**Note** For Windows 9x only-- If your backup device is not detected, see [“Backup Device Configuration”](#) on page 97 for troubleshooting information.

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## NetWare Support

NetWare support provided by Backup Exec includes the capability to back up the NetWare 3.11-3.12 server bindery, and NetWare file and directory attributes from server volumes, including trustee information. Use the Back up Bindery... option to back up your Netware bindery files. See “[Advanced Tab](#)” on page 50 for more information on this option.

All NetWare file attributes and trustee information is backed up, except MAC name space. When these files are restored to a NetWare volume, the extended information also restores. If the trustee information is not applicable to the restore location, it will not restore. An error message is posted to the log file if this occurs.

A network administrator on a NetWare 3.11-3.12 server can back up and restore the server bindery. The bindery is automatically selected for backup if any file from the SYS volume is selected and the bindery option in the Options dialog is also selected. Restore works similarly. If the Restore Bindery option is selected in the Options dialog, and any file on the SYS volume is selected for restore, you are prompted to restore the bindery.

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**Note** For trustees, EAs, and bindery backup or restore the user must be logged into the server as a network administrator and the Novell 32-bit NetWare client must be installed.

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Although NetWare Directory Services may appear in the selection panes, please be aware that their folder structures cannot be backed up or restored.

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**Note** Backup Exec can not be used to back up Directory Services and file and directory attributes from NetWare 4.x-5.x server volumes, including trustee information. NetWare 4.x-5.x data files, however, can be backed up and restored.

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## Starting Backup Exec

When you install Backup Exec, the program and its folder are added to the Windows Start menu. If you chose to have the Backup Exec icon added to your desktop during installation, you may double-click this icon to open the program.

▼ **To start your backup software:**

1. Click the **Start** button on the Windows taskbar.
2. Select **Programs**, Backup Exec and point to the Backup Exec folder.
3. Click Backup Exec.
4. Backup Exec opens and also appears on the taskbar.
5. The Backup Exec Startup window displays.

## Quick Start

This section shows how to back up and restore your files easily and quickly using Automatic Data Protection, One-Button Backup, and One-Button Restore. Before you start, be sure your backup devices have been detected and configured by Windows. See [“Configuring Your Backup Device”](#) on page 9.

### Automatic Data Protection

Automatic Data Protection ensures your data is backed up on a regular basis. When you first start the application, you are prompted with the option of initiating Automatic Data Protection. Any job created with Automatic Data Protection can later be edited with Backup Exec.

**Power Management Properties**--If you set your Advanced Power Management settings to turn off the hard disks after a set period of time, Backup Exec will not be able to re-start your computer in order to run a scheduled backup job.

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**Note** If Microsoft System Agent or Internet Explorer (4.x or higher) Task Scheduler is installed on your machine, you may use either of these to schedule a job created with Automatic Data Protection (See [“Scheduling a Backup Job”](#) on page 51).

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#### ▼ To use Automatic Data Protection:

1. Select a day of the week for the backup job to run, or select Day or Weekday.

If you choose a day of the week, the *New and changed files* option is displayed. If you choose Day or Weekday, the *New and changed files* option is not displayed and All Selected Files backups are automatically performed.

2. Click OK.



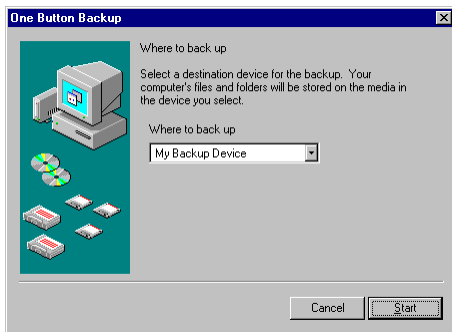
## One-Button Backup

One-Button Backup launches a backup of all local hard disks, including the Windows Registry.

### ▼ To use One-Button Backup:

1. Double-click the One-Button Backup icon on the Desktop. Or, click the Start menu, select Programs, Backup Exec, and then click One-Button Backup.

The *One-Button Backup* dialog appears.



2. Select a device or File in the drop-down list box. If you select File, a text box and browse button appear. The file option enables you to back up your data to a custom location, such as a hard disk, a network drive, a floppy diskette, or removable media. See “[Where to Back Up](#)” on page 35 for more information.
3. Click Start.

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**Note** If your backup job exceeds the space available on a single piece of media, Backup Exec will prompt you to insert another blank media when the current one has been filled.

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The backup will run as either a full or differential backup (with default settings) depending on the following criteria.

An All Selected Files backup is performed if:

- ◆ Ten differential backups have been performed since the last All Selected Files backup, regardless of dates.
- ◆ More than seven days have passed since the last backup.

A differential backup is performed if:

- ◆ No more than seven days have passed since the last All Selected Files backup.

**Note** For more information on full and differential backup types, see [“Backup types”](#) on page 47.

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## Default Backup Job Settings

Your backup job will run with the following default settings:

- ◆ What to back up—All Selected Files. See [“What to Back Up”](#) on page 34.
  - ◆ Where to back up—Backup device. See [“Where to Back Up”](#) on page 35.
  - ◆ How to back up—
    - Full Backup—Verify, Compress, Overwrite.
    - Differential Backup—Verify, Compress, Append.
- See [“How to Back Up”](#) on page 36.





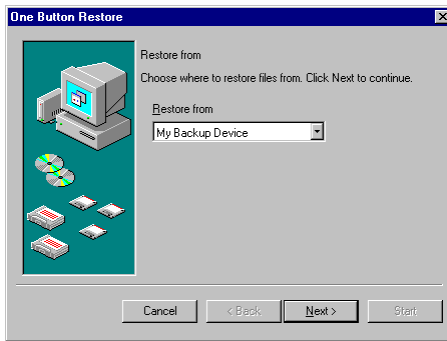
## One-Button Restore

One-Button Restore launches a series of dialogs which help you perform a restore in just a few steps.

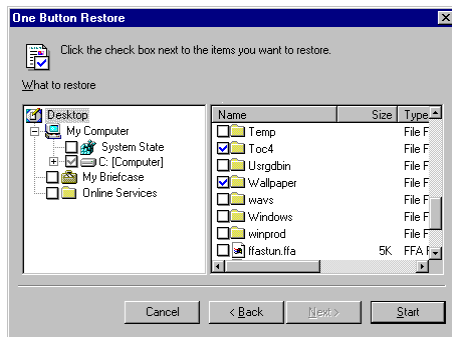
▼ **To run One-Button Restore:**

1. Click the **Start** menu, select **Programs**, **Backup Exec**, and then click **One-Button Restore**.

The *One-Button Restore* dialog box appears.



2. Select a device or **File** in the drop-down list box.
3. Click **Next** to continue.
4. Check the drives, folders, and files you want to restore.



5. Click **Start** to begin restoring your files.

**Note** If your backup job exceeds the space available on a single piece of media, Backup Exec will prompt you to insert another blank media when the current one has been filled.

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## Restore Default Settings

Your restore will run with the following default settings:

- ◆ What to Restore—Folder view. See [“What to Restore”](#) on page 75.
- ◆ Where to restore—Original Location. See [“Where to Restore”](#) on page 76.
- ◆ How to restore—Always replace. See [“How to Restore”](#) on page 77.

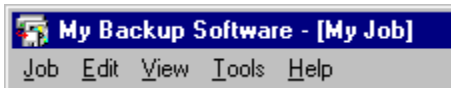


## Using Backup Exec

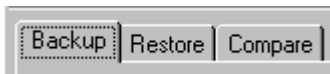
This section provides an overview of the various tools and features that Backup Exec offers.

### Menus

The title bar contains five menu items: *Job*, *Edit*, *View*, *Tools*, and *Help*. You can access these menus and the submenu items at any time.








The *Backup*, *Restore*, and *Compare* tabs appear at the top of the main application window. Click these tabs to move between program functions.











### Toolbar

Use Backup Exec's toolbar to select program features with a single mouse click. Hold the cursor over a button for a short description of its function.

Toolbar buttons (listed from left to right) perform the following functions:

Click:	To do this:
	Create a new untitled backup job.
	Open a saved backup job.
	Save the current backup job for future use.
	Select one or more highlighted drives, folders, or files, and place check marks next to them.
	Deselect one or more highlighted drives, folders, or files, and remove the check marks next to them.

Click:	To do this:
	Open the Restore File Version dialog box to choose the specific version of a file you want restored.
	Open the File Find dialog box to find a file for restore. You can search by name, location, or date modified..
	Open the Backup Wizard, which leads you step-by-step through the selection of files, settings, and options for your backup.
	Open the Restore Wizard, which leads you step-by-step through the selection of files, settings, and options for your restore.
	Open the Job Options dialog box, where you can select options for the current backup job.
	Display your files as small icons in vertical rows (List View).
	Display your files in a vertical list with file size, type, and modified date (Detail View).
	Display a short description of menu items, windows, buttons, and boxes when the item is clicked.

## Selection Panes

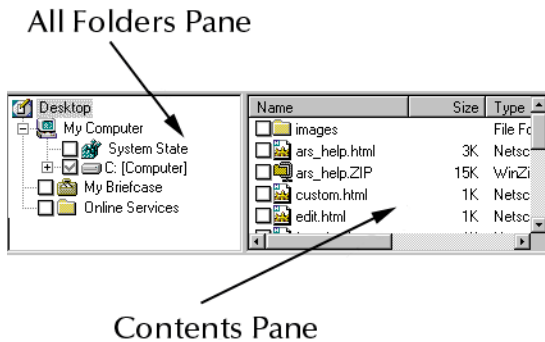
Drives and files are selected the same way in Backup Exec as they are in Windows Explorer. Selection panes are used to select and deselect drives, folders, and files for backup and restore.

The two sections of the selection panes are:

- ◆ **All Folders Pane**—On the left. Displays a list of your computer's drives and folders.

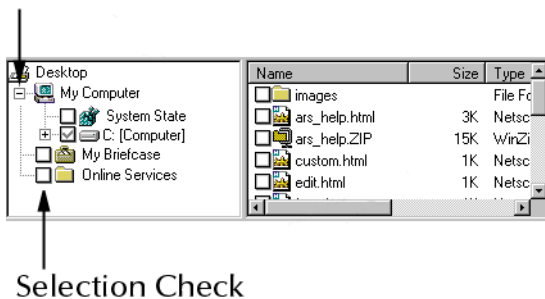


- ◆ Contents Pane—On the right. When a folder is highlighted in the All Folders Pane, the files and folders in that folder appear in the Contents Pane.



Click the Expand/Collapse button to expand or collapse a folder.

### Expand/collapse



- ◆ A plus sign (+) means the listing can be expanded to display additional folders.
- ◆ A minus sign (–) means the listing can be collapsed so that folders beneath it are not displayed.
- ◆ Folders without buttons indicate there are no subfolders.

Click a selection check box to select or deselect files and folders.

- ◆ An empty check box means the drive, folder, or file has not been selected for backup or restore.
- ◆ A blue checkmark means one or more items in a folder have been selected for backup or restore.

- ◆ A gray checkmark means that some, but not all, of a drive or folder has been selected.
- ◆ A red X means that the file's type has been excluded. See "Exclude Tab" on page 47 for more information.

## Help

The Backup Exec on-line help system provides in-depth information about the program and its functions.

### Context-Sensitive Help

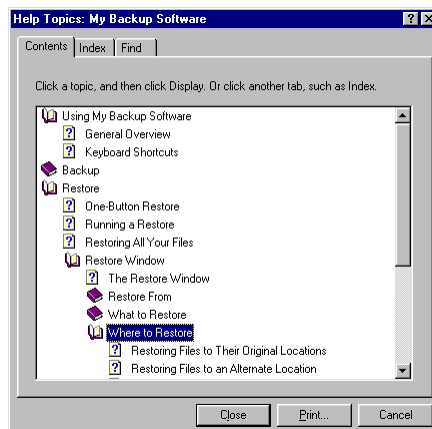
Context-sensitive help provides you with information about the current window, dialog box, or program message. To get context-sensitive help on the current operation, press Shift+F1 on your keyboard.

### Help Menu

The Help menu provides help for each program function and assistance with backup and restore concepts and skills. There are three items in the Help menu: *Help Topics*, *Using Help*, and *About Backup Exec*.

### Help Topics

Help Topics opens the Help window, which contains three tabs.



- ◆ The Contents tab displays a list of topics in the help system arranged by category.



A book represents a help category containing subtopics. Double-click the book to open it.

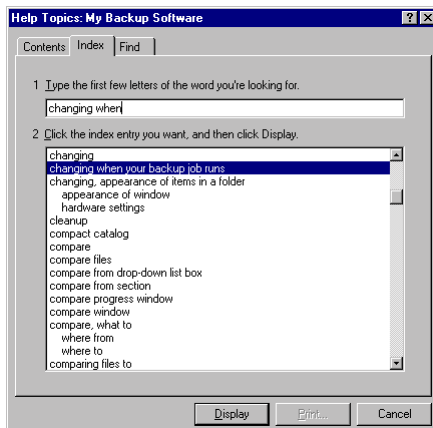


An open book displays a list of topics and books.

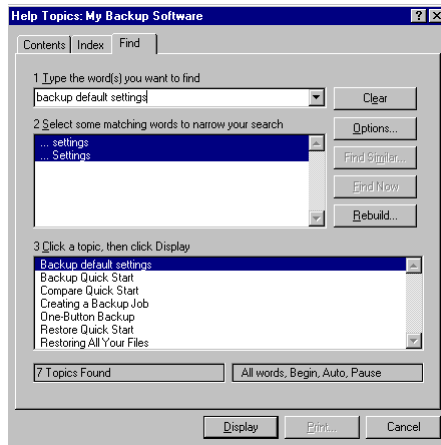


A page represents a help topic. Double-click it to open the help window for that topic.

- ◆ The Index tab lists keywords alphabetically. Type the first few letters of a keyword and the first matching item is highlighted.



- ◆ The Find tab provides a full-text search utility for any word or phrase in help. You must set up the search file the first time you use the Find tab. Then type a word or phrase and select a topic from the list.



## Using Help

The *Using Help* menu item provides help for the help system. It explains how to use Help effectively and how to customize your Help system.

## About Backup Exec

*About Backup Exec* displays your software's version number and licensing information.

## Exiting Backup Exec

- ◆ On the Job menu, click Exit.

Or,

- ◆ Click the Close button.

You are asked if you want to save any changes to your current backup job. Click **Yes** to save your backup job or click **No** to discard the changes. The application closes.







This chapter explains how to use the Backup window to copy files from your computer to a backup location. It begins by describing the steps needed to perform a backup using Backup Exec.

Your first backup should be of your entire computer. After you have backed up your computer, you can create backup jobs to save your options and file selections. By creating several jobs, you can customize your backups and protect your data quickly and, if you wish, automatically.

You can use the Backup Wizard or the Backup window to create a backup job. Selections and options are described in later sections of this chapter.

## Where to Look—Backup

- ▼ **For more help on backup topics, see:**
  - ◆ [“One-Button Backup”](#) on page 26
  - ◆ [“Backup Jobs”](#) on page 28
  - ◆ [“Using the Backup Wizard”](#) on page 29
  - ◆ [“The Backup Window”](#) on page 34
  - ◆ [“Backing Up Files with the Backup Window”](#) on page 37
  - ◆ [“Using Backup Jobs”](#) on page 39
  - ◆ [“The Backup Set”](#) on page 42
  - ◆ [“Backup Options”](#) on page 43
  - ◆ [“Scheduling a Backup Job”](#) on page 51



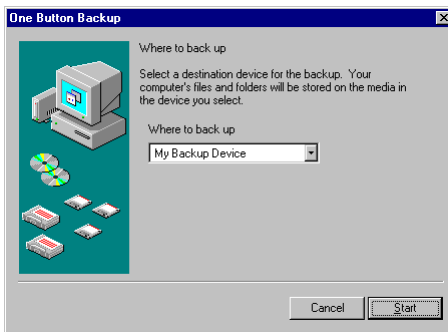
## One-Button Backup

One-Button Backup launches a backup of all local hard disks, including the Windows Registry.

▼ **To use One-Button Backup:**

1. Double-click the One-Button Backup icon on the Desktop. Or, click the Start menu, select Programs, Backup Exec, and then click One-Button Backup.

The *One-Button Backup* dialog appears.



2. Select a device or File in the drop-down list box. If you select File, a text box and browse button appear. The file option enables you to back up your data to a custom location, such as a hard disk, a network drive, a floppy diskette, or removable media. See “[Where to Back Up](#)” on page 35 for more information.
3. Click Start.

---

**Note** If your backup job exceeds the space available on a single piece of media, Backup Exec will prompt you to insert another blank media when the current one has been filled.

---

The backup will run as either a full or differential backup (with default settings) depending on the following criteria.

An All Selected Files backup is performed if:

- ◆ Ten differential backups have been performed since the last All Selected Files backup, regardless of dates.
- ◆ More than seven days have passed since the last backup.

A differential backup is performed if:

- ◆ No more than seven days have passed since the last All Selected Files backup.

**Note** For more information on full and differential backup types, see [“Backup types”](#) on page 47.

---

## Default Backup Job Settings

Your backup job will run with the following default settings:

- ◆ What to back up—
  - Full Backup—All Selected Files.
  - Differential Backup—New and changed filesSee [“What to Back Up”](#) on page 34.
- ◆ Where to back up—Backup Device. See [“Where to Back Up”](#) on page 35.
- ◆ How to back up—
  - Full Backup—Verify, Compress, Overwrite.
  - Differential Backup—Verify, Compress, Append.See [“How to Back Up”](#) on page 36.



## Backup Jobs

Backup Exec uses backup jobs to save and reuse file and option selections. You create a backup job by selecting drives and files for backup, choosing program settings and options, and saving your selections with a new job name.

A backup job includes all selections made at the time it is saved:

- ◆ Drives, folders, and files to back up
- ◆ Backup type
- ◆ Backup device
- ◆ Options selected or default selections

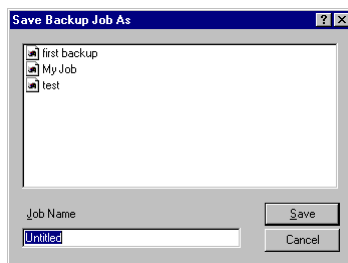
Backup jobs can be opened, saved, and deleted using the Job menu. In the Backup window, you can open a backup job with the *Backup Job* list.

To change a backup job, simply make new file or option selections. When you run a backup, your changes are automatically saved. To save your changes under a different name, choose **Save As** from the **Job** menu and enter a new name, or type the new name in the *Job Name* field. If you attempt to save a new job using an existing name, the program asks you whether or not to overwrite the existing job. If you choose **overwrite**, the new job replaces the existing job.

You can use the Backup Wizard (“[Using the Backup Wizard](#)” on page 29) or the Backup window (see “[The Backup Window](#)” on page 34) to create new backup jobs or you can modify and rename existing job files.

By saving your backup jobs, you can run them again without making your selections again.

The *Backup Job* box lists your saved backup jobs. Type a new name in the box to save the job under a different name.



---

**Note** You must make file selections before saving your backup job.

---

## Using the Backup Wizard

The Backup Wizard is a series of dialog boxes that guides you through the steps required to create a new backup job.

The Backup Wizard is used to create new backup jobs. It cannot be used to modify an existing job.

Using the Wizard is easy. All you need to do is make selections by clicking the appropriate options. After you've made your selections, click the **Next** button and the Wizard displays the next step.

### ▼ To create a job using the Backup Wizard:

1. Click Backup Wizard in the Startup window, then click OK.

Or,

Click the Backup Wizard icon on the toolbar.

The *What to Back Up* window of the Backup Wizard is displayed.



2. Select the drives and files you want to back up.

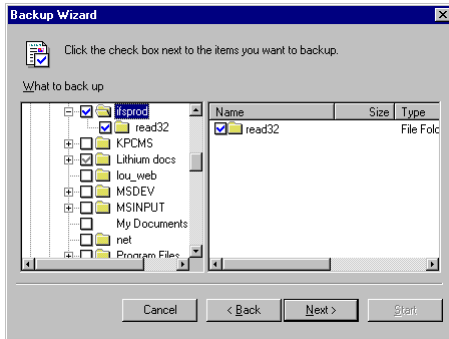
To back up all files, folders, and drives on your computer, click **Back up My Computer**. Click **Next** to continue. The *Backup Type Wizard* window appears.

Or,

To back up only some of the files, folders, or drives on your computer, click **Back up selected files, folders and drives**.



The *Backup Wizard Selection Panes* appear.



Select the specific drives, folders, and files you want to back up. For more information on selecting files, see [“Selection Panes”](#) on page 19.

3. Click **Next** to continue.
4. Select a backup type.



Click **All Selected Files** to back up all selected files, then click **Next**.

Or,

Click **New and Changed Files Only** to back up only files that are new or have changed since the last *All Selected Files* backup and click **Next**.

---

**Note** *New and Changed Files Only* will use a differential backup type. For more information on backup types, see [“Backup types”](#) on page 47.

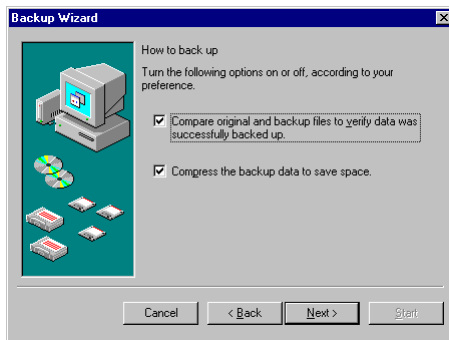
---

5. Select a destination for the backup from the *Where to back up* list. See “*Where to Back Up*” on page 35.



6. Click Next to continue.

The *How to Back Up Wizard* window appears.

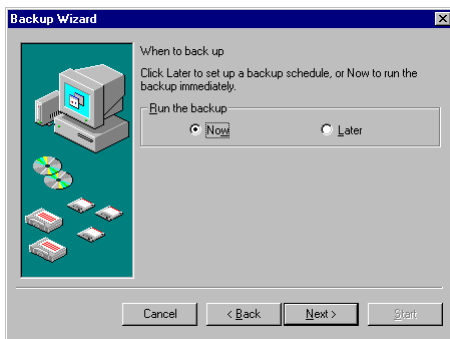


7. Select your backup options for this screen.
8. Click Next to continue.





The *When to Back Up* Wizard appears.



9. Click **Now** to begin this backup immediately, or click **Later** to schedule this backup for a later time.

---

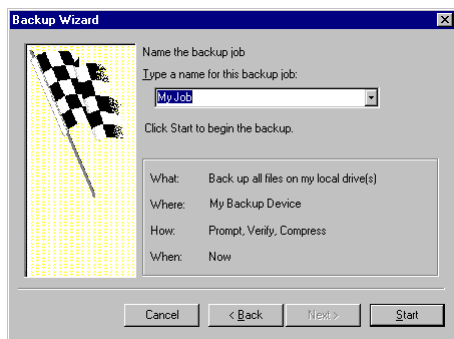
**Note** If you select **Later**, Microsoft System Agent, Task Scheduler or Backup Exec Scheduler must be running.

---

To back up later, specify the frequency, then set the time, date, and/or days of the week to run this backup job. For more information on scheduling your backup job, see [“Scheduling a Backup Job”](#) on page 51.

10. Click **Next** to continue.

The *Name the Backup Job* window appears.



11. Type a name for this backup job.
12. Review the backup job’s summary. To change an option, use the **Back** and **Next** buttons.

**13.** Click **Start** to begin this backup job. The *Backup Progress* window appears “[Backup Progress Window](#)” on page 41

Or, Click **OK** to run your job as scheduled.

---

**Note** If your backup job exceeds the space available on a single piece of media, Backup Exec will prompt you to insert another blank media when the current one has been filled.

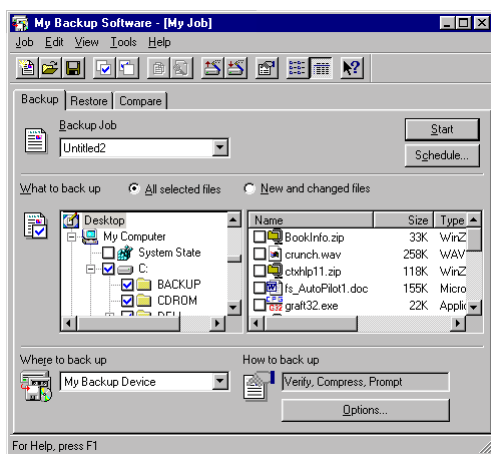
---



## The Backup Window

This section first describes the Backup window. For step-by-step instructions on creating backup jobs, see “[Backing Up Files with the Backup Window](#)” on page 37.

The Backup window gives you quick access to all the backup job options, and includes four main sections.



- ◆ **Backup Job**—Select your Backup Job from the drop-down list.
- ◆ **What to Back Up**—Select your drives and files to back up from the selection pane. Choose the backup type.
- ◆ **Where to Back Up**—Select a device to back up to, or select File to back up your files to your hard drive, a network drive, a floppy diskette, or removable media.
- ◆ **How to Back Up**—Lists your option settings, and displays the Options button.

## Backup Jobs List

The Backup Job list box contains all available backup jobs. If you are creating a new backup job, *Untitled* appears as the default name. To save a new backup job, click **Save** from the Job menu.

## What to Back Up

Select your backup type and files in the *What to back up* section.

Two backup types are displayed in the Backup window under *What to back up*: *All Selected Files*, and *New and Changed Files*.

- ◆ **All Selected Files**—Backs up all selected files.

- ◆ **New and Changed Files**—Backs up all the selected files that have changed since the last All Selected Files backup.

If you choose **New and Changed Files**, the default setting is differential backup. Use the **Options** button to change your backup type. See “[Type Tab](#)” on page 46 for more information and a complete description of each type.

### Backup Selection Panes

Backup Exec uses the same drive and file selection methods as Windows. Drives and folders are selected in the All Folders Pane and individual files and folders are selected in the Contents Pane. Select drives and files to back up by clicking the check box next to the item. For more information, see “[Selection Panes](#)” on page 19.

## Where to Back Up

The drop-down list box in the *Where to back up* section contains the names of all your backup devices. Your backup device is automatically selected as your backup location. To change your backup location, select another device in the drop-down list box, or select **File** to back up your files to your hard drive, a network drive, a floppy diskette, or removable media.



### Backing up to File

The **File** option enables you to back up your data to a file in some custom location, such as a hard disk, a network drive, floppy diskette, or removable media.

The **File** option does not require that your files are written to media formatted for backup use only. You may want to use the **File** option if you plan on using backup media for other purposes as well. However, if you use media formatted for backup use only, you can only write backup files to that device.

#### ▼ To back up to a file:

1. Select **File** in the drop-down list box in the *Backup* window.

A text box and browse button appear below the drop-down list box.

---

**Note** The **Always Append** option is not available in file backups.

---



2. Type a folder and filename in the text box. If you type a filename without an extension, Backup Exec adds a .QIC extension to your file.

Or,

Click **Browse**, select a folder and a file within that folder, then click **OK**. The path appears in the text box.

---

**Note** We recommend entering a filename for your File Backup. However, if you do not enter a filename, Backup Exec provides a name for you. For example, if you enter C:\SAVE in the text box, Backup Exec will create a backup file called SAVE.QIC on your local drive. The path for your backup file would be C:\SAVE.QIC.

---

## How to Back Up

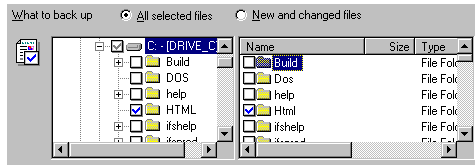
The Backup Job Options dialog box lets you set your backup options, password protect your backup set, and change your backup type. Current option settings are listed above the Options button. For information about backup options, see “[Backup Options](#)” on page 43.

## Backing Up Files with the Backup Window

### ▼ To back up your files using the Backup window:

1. Select New from the Job menu.

The *Backup* window appears.



2. Select What to back up. *All selected files* is the default setting. To change your backup type, click *New and changed files*.

See “[Type Tab](#)” on page 46 for more information.

3. Select the files to back up. Click the check boxes next to the drives and files you want to back up.

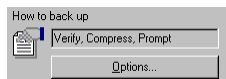
A checkmark indicates the drive, file, or folder is selected for backup. A red X indicates that the file’s type is excluded.

See “[Selection Panes](#)” on page 19 for more information.

4. Select Where to back up. To change your backup destination, make your selection in the drop-down list. See “[Where to Back Up](#)” on page 35.



5. Select How to back up. The default settings are *Full Compression* and *Prompt*. To change your backup options, click *Options*. The *Backup Options* dialog box lets you set each of your options. See “[Backup Options](#)” on page 43.



6. Click **Schedule** to run your job at a later time. See [“Scheduling a Backup Job”](#) on page 51.



Or,

Click **Start** to run your backup job now. Your backup job is saved. See [“Backup Progress Window”](#) on page 41.

Or,

Select **Save** from the **Job** menu to save your job for future use. The name you give it will appear in the Backup Job list.

## Using Backup Jobs

### ▼ To open a backup job:

1. Click the **Backup** tab in the main application window.
2. Highlight a job name in the *Backup Job* combo box.

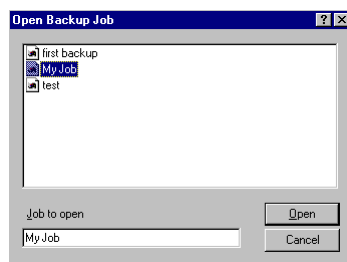


The backup job settings appear.

Or,

Choose **Open** from the **Job** menu.

The *Open Backup Job* dialog box appears.



3. Select a Backup Job from the list.

Or,

Type a job name (description) in the *Job to open* text box.

4. Click **Open**.

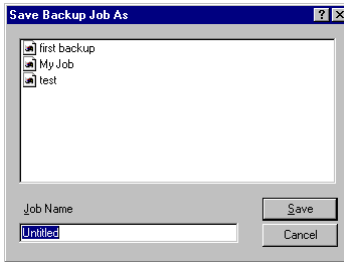
### ▼ To change settings in an existing backup job:

1. Open the backup job you want to modify and make your changes.
2. Choose **Save As** from the **Job** menu.





The *Save Backup Job As* dialog box appears. It is identical to the *Open Job* dialog box.

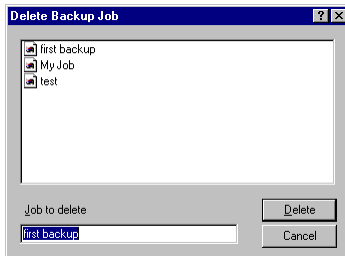


3. Type a name into the *Job Name* text box. You may type a name of up to 130 characters (including spaces).
4. Click **Save**.

▼ **To delete a backup job:**

1. Choose **Delete...** from the **Job** menu.

The *Delete Backup Job* dialog box appears. It is identical to the *Open Job* dialog box.



2. Select a Backup Job, or type a job name (description) in the *Job Name* text box.
3. Click **Delete**. You are asked to confirm your action. Click **Yes** to continue.

▼ **To run your backup job:**

- ❖ Click **Start**.

If your backup job is new or modified, the program prompts you to save the backup. The new job overwrites an older backup job, if one exists.

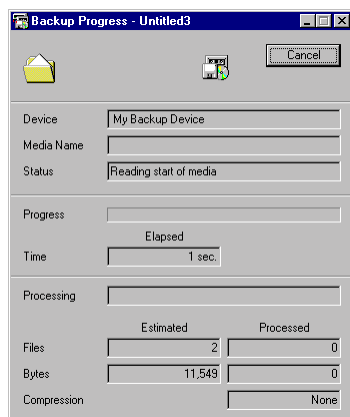
---

**Note** If your backup job exceeds the space available on a single piece of media, Backup Exec will prompt you to insert another blank media when the current one has been filled.

---

## Backup Progress Window

The Backup Progress window appears when you start your backup. It continually updates information about your backup job.



The name of the backup job in progress is displayed in the window title bar.

The top section displays the backup device, media name, and the current status of the backup job.

The center section displays a progress bar showing the percentage of the backup job completed and the estimated time remaining, along with time elapsed since job start.

The bottom section displays the name of the file currently being processed, the estimated number and size of files to be backed up and already processed, and the compression ratio.

When the backup is complete, the *OK* and *Report* button replace the *Cancel* button. Click *Report* for a summary of your backup or click *OK* to continue.

### Canceling Your Backup

You can cancel the backup at any time by clicking *Cancel* or pressing *Esc*.

Canceling your backup may take several minutes, depending on the size of the backup set.

---

**Caution** If you cancel a backup, some backup devices will not be able to recover the space already used by the backup on the media. To use this space, you will have to erase or overwrite the entire media.

---



### Viewing Your Backup Report

When the backup completes, the *Cancel* button changes to *OK*, and a *Report* button is displayed below it. Click **Report** to view a summary of your backup or click **OK** to continue. You can also use the Report option in the Tools menu to view your backup report at a later time.

### The Backup Set

After you perform a backup job, your files are stored on the media in a special format called a backup set. If your backup uses two or more media, one backup set is stored on each piece of media. Information about each backup set is stored in the catalog. For information about catalogs, see [“Import Catalog”](#) on page 93.

---

## Backup Options

### ▼ To open the Backup Job Options dialog box:

- ❖ Click Options in the *How to backup* section.  
The *Backup Job Options* dialog box appears.

### Backup Job Options Dialog Box

The Backup Job Options dialog box contains the following tabs:

- ◆ “General Tab” on page 44
- ◆ “Password Tab” on page 45
- ◆ “Type Tab” on page 46
- ◆ “Exclude Tab” on page 47
- ◆ “Report Tab” on page 49
- ◆ “Advanced Tab” on page 50

### ▼ To display an option group:

- ❖ Click on a tab.  
The *option group* appears.

### ▼ To select an option or change an option setting:

- ❖ Click on the check box or button next to the option.

### ▼ To save your current settings and change option groups:

1. Click Apply.
2. Click the next option group’s tab.

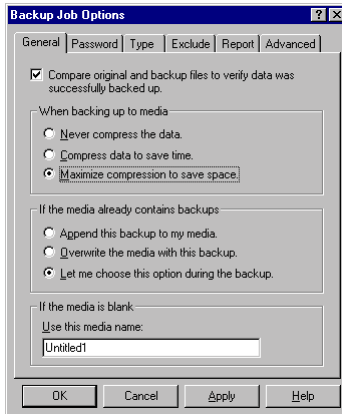
### ▼ To save your option settings and return to the Backup window:

- ❖ Click OK.  
Your backup options are saved and you return to the Backup window.



## General Tab

Use the General tab to set the Verify data and Compression options and tell Backup Exec how to handle media that already contain backups.



- ◆ **Verify Data** by performing a file-by-file compare after the backup has been completed.

If you back up with the Verify Data option on, Backup Exec will verify the data by reading it back from the backup media after writing it and comparing it to data on the disk. Because Verify Data takes twice as long, you may choose to turn this option off. However, it is strongly recommended that you use Verify Data to help ensure the reliability of your backups.

- ◆ When backing up to media

**Never compress the data**—Turns data compression off (does not control hardware compression).

**Compress data to save time during backup**—Compresses your data as much as possible with a minimum reduction in speed.

**Maximize compression to save space on media**—Compresses your data as much as possible without regard to speed. This may cause your backup to take longer, however the resulting backup set will use less space.

Compression uses a “shorthand” to reduce file sizes, so that data can be written in less space.

---

**Note** If your data has already been compressed, select **Never compress the data**. Compressing data that has already been compressed causes the data to occupy more media space.

---

- ◆ If the media already contains backups

**Append this backup to my media**—Your data is placed after the last backup set on the media.

**Overwrite the media with this backup**—Overwrite works differently depending on your backup location. If you are using a backup device, Overwrite replaces all files on the media with the files selected for backup. To avoid overwriting all files on the media, choose Append.

---

**Caution** All files on the media are erased before the new backup set(s) are written.

---

If you are using the "File Option" for your backup, Overwrite does not erase all files on your hard drive, network drive, floppy diskette, or removable media. Overwrite only replaces a file with the same name as a file selected for backup. For example, if the name of your backup file is save.QIC and there is a file on your floppy diskette that is also named save.QIC, only that file will be overwritten. Any other files on the floppy are not overwritten.

**Let me choose this option during the backup**—The name of the media in the drive is displayed when the backup job begins, and you are prompted to choose Overwrite or Append.

◆ If the media is blank

**Use this media name**—You can name the media if it is blank by typing a name in the text box.

Click Apply, then click OK or another options tab.

### Password Tab

Use the Password tab to provide data security by password-protecting your backup. Your password is required to compare or restore files in the backup set.

Your password may consist of up to 8 characters. Passwords are case-sensitive. For example, "my pass" is not the same as "My Pass".

---

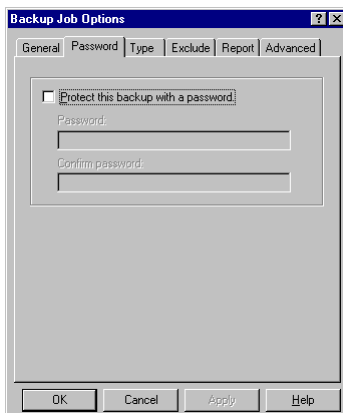
**Caution** Make careful note of your password. Without it, you will not be able to access or recover data in your password-protected backup set.

---



### ▼ To create a password:

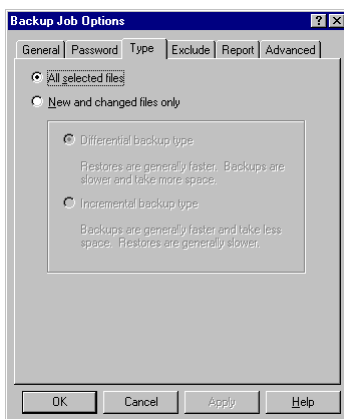
1. Click Protect this backup with a Password.



2. Type your password in the *Password* text box.
3. Retype your password in the *Confirm password* text box.
4. Click Apply.
5. Click OK or select another options tab.

### Type Tab

Use the Type tab to choose a backup type.



## Backup types

- ◆ All selected files—Backs up all the files you have selected.
- ◆ New and changed files only—If you choose New and changed files, two additional backup types are displayed.

**Differential backup type**—Backs up all the selected files that have changed since the most recent All Selected Files backup. Recommended if you frequently restore files to your system.

**Incremental backup type**—Backs up all selected files that have changed since the most recent All Selected Files or Incremental backup. Recommended if you do not frequently restore files to your system.

For a comparison between the two backup types, see the table below:

Table 1. Differential vs. Incremental backups

Differential backups	Incremental backups
<b>Faster restores</b> —You only need to restore the most recent Full Backup and Differential backup(s).	<b>Slower restores</b> —You must restore the Full Backup media set, plus each Incremental backup media.
<b>Slower backups</b> —A comparison of all the files on your system must be run to determine which files have changed, or have been added since the last Full backup.	<b>Faster backups</b> —You only need to back up those files that have changed, or have been added since the last Incremental backup.
<b>Uses less media</b> —One backup set for the Full backup and one set for the Differential backup.	<b>Uses more media</b> —One backup set for the Full backup and one set for each of the Incremental backups.

## Exclude Tab

Use the Exclude tab to exclude certain file types from your Backup Job. File exclusions are made based on registered types or custom types.

---

**Note** Excluded file types are marked in the selection panes with a red X.

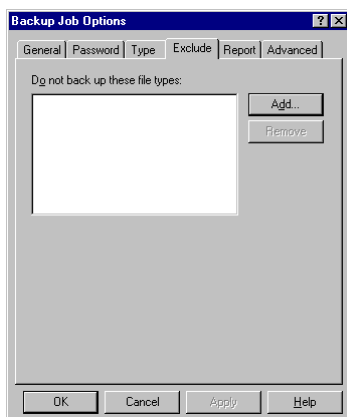
---





▼ **To exclude files by registered type:**

1. Click the **Exclude** tab in the *Backup Job Options* dialog box.  
The *Exclude* tab appears.



2. Click **Add**.  
The *Exclude files from backup* dialog box appears.
3. Click **Registered type**.
4. Select the file type you want to exclude in the *Registered types* list.
5. Click **OK**.

Your exclusion appears in the *Do not back up these file types* list box. To exclude additional registered file types, repeat steps 2 through 5.

▼ **To exclude files by custom type:**

1. Click the **Exclude** tab in the *Backup Job Options* dialog box.  
The *Exclude* tab appears.
2. Click **Add**.  
The *Add Exclude* dialog box appears.
3. Click **Custom type**.
4. Type a three letter file extension in the *Custom type* text box.  
For example, type **bat** to exclude all your batch files.

5. Click OK.

Your exclusion appears in the *Do not back up these file types* list box.

To exclude additional file types, repeat steps 2 through 5.

▼ **To remove a file type from the Do not back up these file types list:**

1. Select the file type you want to remove from the list.
2. Click Remove.

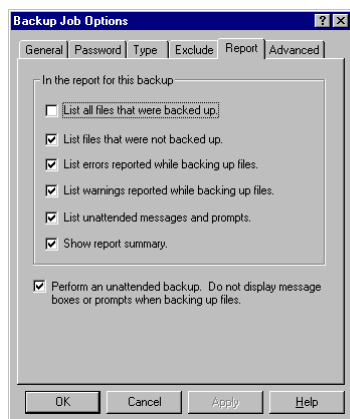
---

**Tip** For a current list of files automatically excluded from backups, visit our support site knowledge base at the <http://www.support.veritas.com>>VERITAS Support Web site</a>: <http://www.support.veritas.com>

---

## Report Tab

Use the Report tab to specify the items you want to include in your backup report and to set your unattended backup option.



- ◆ List all files that were backed up—Includes a list of the files that were selected and successfully backed up.
- ◆ List files that were not backed up—Includes a list of the files that were selected, but not successfully backed up.
- ◆ List errors reported while backing up files—Includes a list of any errors encountered while performing a backup of files.
- ◆ List warnings reported while backing up files—Includes a list of any warnings encountered while performing a backup of files.



- ◆ List unattended messages and prompts—Includes a list of any messages and prompts encountered while performing an unattended backup.
- ◆ Show report summary—Includes a report summary of the results of the backup job.

### Unattended backup

Check Unattended backup to run unattended backup jobs. This option enables the program to bypass most prompts during a backup operation. *Unattended backup* is the default setting.

### Advanced Tab

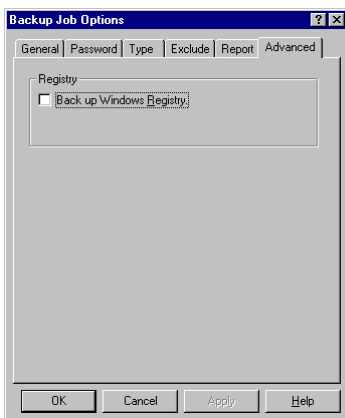
Use the Advanced tab to specify the following options:

- ◆ Back up Windows Registry—Backs up the Windows Registry. The Registry is automatically selected for backup when your local drive is selected.

#### ▼ To set the Advanced Options:

1. Click the Advanced tab in the *Backup Job Options* dialog box.

The *Advanced* tab appears.



2. Check the options you want.
3. Click OK.

## Scheduling a Backup Job

Backup Exec provides a simple, yet flexible way to schedule your backup jobs. The scheduling process is simplified by a series of dialog boxes that guide you through the process of scheduling your backup job.

If you are running Microsoft System Agent or Internet Explorer (4.x or higher) Task Scheduler on your machine, these schedulers will automatically be used to run your scheduled backup jobs.

If neither System Agent nor Task Scheduler is installed on your machine, Backup Exec provides a scheduler for you.

---

**Note** The Backup Exec Scheduler will not run if you have the Microsoft System Agent or Task Scheduler installed.

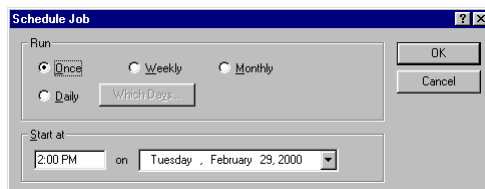
---

When running Backup Exec after initial installation, a prompt appears asking if you would like to start the Backup Exec Scheduler. Click **Yes** to start the scheduler. If **No** is selected at this time, the prompt will re-appear when you attempt to schedule a backup job.

### ▼ To Schedule a backup job:

1. Click **Schedule** on the Backup window.

The *Schedule Job* dialog box appears.



2. Select **Once**, **Daily**, **Weekly**, or **Monthly**.

The program displays option settings that correspond to your selection. For example, if you select **Weekly**, the program prompts you to choose a time and the day of the week for your backup job. See [“Setting Frequencies for the Scheduled Job”](#) on page 52 for additional information.

3. Choose your settings.
4. Click **OK**, then click **Yes** to confirm the operation or **No** to cancel.



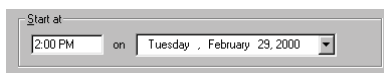
**Note** Backup Exec will not be able to run a scheduled backup job if Backup Exec is running at the time your job is scheduled to run, if Windows is not running at the time your backup job is scheduled to run, or if your Advanced Power Management settings have turned off the hard disks after a set period of time.

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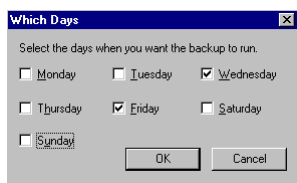
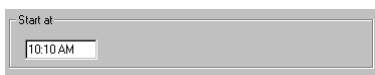
## Setting Frequencies for the Scheduled Job

When you schedule a backup job, the settings that appear depend on the frequency you choose:

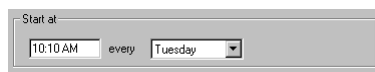
- ◆ **Once**—Set the time and the date.



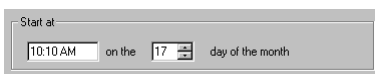
- ◆ **Daily**—Set the time.



- ◆ **Weekly**—Set the time and the day of the week.



- ◆ **Monthly**—Set the time and the day of the month.



**Note** If Task Scheduler is installed on your machine, the Which Days button will be available when the Weekly setting is selected.

---

## Changing When a Scheduled Backup Job Runs

Backup Exec allows you to modify a scheduled backup job by changing the settings in the Backup window, or Schedule button. When you are done modifying a particular backup job, click **Save** from the Job menu, and the modified backup job will run at the next scheduled time.

### ▼ To change your backup job schedule from Backup Exec:

1. From the Backup window, select the job you wish to change in the Backup Job drop-down list box.
2. Click the Schedule button and select the new settings for your scheduled backup job.
3. Click OK.

These changes will be updated in the Microsoft System Agent, Microsoft Internet Explorer 4.x Task Scheduler, or the Backup Exec Scheduler, depending on which is installed.

---

**Note** The Backup Exec Scheduler will not run if the Microsoft System Agent or Internet Explorer 4.x Task Scheduler is installed on your system.

---

### ▼ To change a scheduled backup job with the Microsoft System Agent:

1. Double-click the calendar icon on the taskbar to open the Microsoft System Agent. The *Microsoft System Agent* appears.
2. Highlight the scheduled backup job you want to change, then select **Change Schedule...** from the Program menu.
3. Make your changes, then click OK.

Refer to your Windows documentation for instructions on using the Microsoft System Agent.

### ▼ To change a scheduled backup job with Task Scheduler:

1. Double-click the calendar icon on the taskbar to open Task Scheduler.

---

**Note** If you are running Windows NT, open the Task Scheduler from the Start menu, Programs, Administrative Tools, then click **Scheduled Tasks**.

---

*Task Scheduler* appears.



2. Highlight the scheduled backup job you want to change, then select **Properties** from the **File** menu.
3. Make your changes, click **Apply**, then click **OK**.  
Refer to your Windows documentation for instructions on using Task Scheduler.

---

**Note** If you modify Advanced settings in Task Scheduler or System Agent, you will not be able to edit the job from Backup Exec.

---

## Editing a Scheduled Backup Job

### ▼ To edit a scheduled backup job:

1. From the Backup window, select the job you wish to edit in the *Backup Job* drop-down list box.
2. Click the **Options** button and select the new settings for your backup job from the **Options** tabs.
3. Click **Apply**, then click **OK** or select another **Options** tab.
4. From the **Job** menu, click **Save**.

These changes will be updated in the Microsoft System Agent, Microsoft Internet Explorer 4.x Task Scheduler, or the Backup Exec Scheduler, depending on which is installed.

## Removing a Scheduled Backup Job

You can use the Backup Exec Scheduler or your installed scheduler to remove a scheduled backup job. For more information on the Backup Exec Scheduler, refer to the Backup Exec Scheduler Help by running the Backup Exec Scheduler and choosing from the **Help** menu.

### ▼ To remove a scheduled backup job from Backup Exec:

1. Select **Delete...** from the **Job** menu.
2. Highlight the item you wish to remove, or type the job name in the text box, then click **Delete**.
3. Click **Yes** to confirm the operation or **No** to cancel.

**▼ To remove a scheduled backup job from the Microsoft System Agent:**

1. Double-click the calendar icon on the taskbar to open the Microsoft System Agent.  
The *Microsoft System Agent* appears.
2. Highlight the scheduled backup job you wish to remove, then select **Remove** from the **Program** menu.
3. Click **Yes** to confirm the operation, or **No** to cancel.

**▼ To remove a scheduled backup job from Task Scheduler:**

1. Double-click the calendar icon on the taskbar to open the Task Scheduler.

---

**Note** If you are running Windows NT, open the Task Scheduler from the Start menu, Programs, Administrative Tools, then click Scheduled Tasks.

---

*Task Scheduler* appears.

2. Highlight the scheduled backup job you wish to remove, then select **Delete** from the **File** menu.
3. Click **Yes** to confirm the operation or **No** to cancel.

---

**Note** Removing a scheduled backup job using the Microsoft Internet Explorer 4.x Task Scheduler or Microsoft System Agent will prevent the scheduled backup from running, but will not delete the backup job in Backup Exec.

---







This chapter explains how to use Disaster Recovery, the Restore Wizard and the Restore window to restore files to your hard disk. Restore reads the selected backup sets and restores your files to a specified location (usually their original location). You can restore one file, several selected files, or all files from a backup set. You can also select individual versions of a file, specify the destination for the restored files, and set options.

Whether you are restoring your entire system, a single file, or a particular version of a file, Backup Exec makes it simple to set up the restore process. You can use either the Restore Wizard or the Restore window to specify your restore.

## Where to Look—Restore

- ▼ **For more help on restore topics, see:**
  - ◆ [“Disaster Recovery”](#) on page 62
  - ◆ [“One-Button Restore”](#) on page 65
  - ◆ [“Restoring All Your Files”](#) on page 67
  - ◆ [“Using the Restore Wizard”](#) on page 70
  - ◆ [“The Restore Window”](#) on page 73
  - ◆ [“Restoring Files with the Restore Window”](#) on page 81
  - ◆ [“Restore Progress Window”](#) on page 82
  - ◆ [“Advanced Tab”](#) on page 79



## Creating the Disaster Recovery Set

The first step in securing the data on your system is creating the Disaster Recovery (DR) Set. The DR Set will contain the information necessary to recover your system.

The Recovery Wizard will guide you through the steps required to create the DR Set with easy-to-follow instructions for protecting your valuable data. Once the DR Set has been created, it will allow you to recover your system should your hard drive fail, even if your Windows operating system will not start.

The first time Backup Exec launches, you are prompted to create Disaster Recovery Diskettes. If you do not create Disaster Recovery Diskettes at that time, you may do so later by choosing **Recovery Wizard** from the **Tools** menu.

If you installed a new backup device since you created your DR Set, you must create a new DR Set to accompany your new backup device. If the backup device listed is not found, Disaster Recovery cannot complete.

To create the Disaster Recovery Set, you will need the following items:

### For Windows 9x

- ◆ One or more blank, formatted 1.44MB diskettes
- ◆ Windows 9x installation CD
- ◆ Media for your backup device

### For Windows NT

- ◆ Five (5) blank, formatted 1.44MB diskettes
- ◆ Windows NT installation CD
- ◆ Media for your backup device

---

**Note** The amount of media required for the DR Set will depend on the amount of data on your system.

---

## Windows 9x Disaster Recovery Set

It is recommended that you label your media when prompted in the Wizards, and store your DR Set in a safe place. A new Disaster Recovery Set should be created when new hardware or software has been added to your system, or if many changes have been made to your files since the last DR Set was created.

**▼ To create your Windows 9x Disaster Recovery Set:**

1. Select Recovery Wizard from the Tools menu.  
The *Recovery Wizard* appears.
2. Follow the instructions on the Wizard screens to create your Disaster Recovery Set.

---

**Note For Windows 9x only** — If you are using a SCSI device for Disaster Recovery, you may be prompted for a DOS ASPI driver. Please refer to the README.TXT for instructions on entering the correct drivers when creating the DR Set.

---

**Windows NT Disaster Recovery Set**

It is recommended that you label your media when prompted in the Wizards, and store your DR Set in a safe place. A new Disaster Recovery Set should be created when new hardware or software has been added to your system, or if many changes have been made to your files since the last DR Set was created.

**▼ To create your Windows NT Disaster Recovery Set:**

1. Select Recovery Wizard from the Tools menu.  
The *Recovery Wizard* appears.
2. Follow the instructions on the Wizard screens to create your Disaster Recovery Set.



## Testing your Disaster Recovery Set

After you have created the Disaster Recovery Set, you will be asked if you would like to test the DR Set. Testing the DR Set is very similar to performing an actual recovery; however, be sure to stop before recovering your data. This test is to verify that your drive is responding properly.

### ▼ To test your Windows 9x Disaster Recovery Set:

1. Insert the Windows Startup Disk (diskette #1 of the DR Set) into your machine's 3.5" boot floppy drive and restart your computer.

A DOS screen appears.

2. If a Windows Startup Diskette #2 was created (not all systems require the creation of a second diskette), insert that diskette into your machine's 3.5" boot floppy drive, then press any key.

The Disaster Recovery screen appears.

3. Press **F5**.

Your system files will be copied from the diskette to your hard drive.

The following prompt should appear:

```
Please insert Disaster Recovery Media #1 into your (device name).
```

4. If it's not already in your drive, insert Disaster Recovery Media #1 of your DR Set into your device when prompted, then press **Enter**.

Disaster Recovery scans the media to verify that the drive and the DR Set are responding properly. When Disaster Recovery is done scanning the media, you should receive a message indicating that the test was successful.

5. Press **F10** to exit.

---

**Caution** Do not continue past this step. The test is complete. Please remove any media from your drives and restart your computer.

---

If you see any error messages during this process, then there is a problem communicating with the backup device. Most likely, the problem is a missing DOS driver that is required for your backup device, or incorrect command line parameters for the driver. Consult the documentation for your backup device for information on configuring it for use in DOS.

▼ **To test your Windows NT Disaster Recovery Set:**

1. Insert the Windows NT Workstation Setup Boot Disk (diskette #1 of the DR Set) and restart your computer.
2. Follow the instructions on the screen until you receive a message indicating that the test is complete.



## Disaster Recovery

The Disaster Recovery (DR) process enables you to recover from hard disk failure and should be used in emergency situations only. If you do not have a Disaster Recovery Set, see “[Creating the Disaster Recovery Set](#)” on page 58. If you created a DR Set, follow the steps below.

Before using Disaster Recovery, decide if another recovery method can be implemented instead. For example, if the problem appears to be a Windows system problem, such as a corrupt registry, try to recover by following the steps outlined in your Microsoft Windows User's Manual before using Disaster Recovery.

If your hard drive failed completely and you have replaced it, Disaster Recovery may be the best method for recovery. However, you may also consider re-installing Windows, re-installing your backup software, then selectively restoring the rest of the files you need.

### ▼ To use Disaster Recovery for Windows 9x:

1. Replace any lost hard drives with comparable drives.

---

**Note** In order to recover all of your information, Disaster Recovery must have at least as much hard disk space as existed before the drive failure.

---

2. Insert the Windows Startup Disk (diskette #1 of the DR Set) into your machine's 3.5" boot floppy drive and restart your computer.

A DOS screen appears.

3. If a Windows Startup Diskette #2 was created, (not all systems require the creation of a second diskette) insert that diskette into your machine's 3.5" boot floppy drive, then press any key.

The Disaster Recovery screen appears.

4. If necessary, you can prepare your hard disk at this time using the following tools, by pressing **Enter**:

- ◆ DDIFF—Displays any differences between your current and original hard drive configurations
- ◆ \*FDISK—Re-partitions your hard disk
- ◆ \*FORMAT—Formats one or more partitioned drives
- ◆ \*SYS—Installs the system boot files onto the hard disk

\*For instructions on the use of these utilities, please refer to your operating system user manual or contact your operating system's manufacturer.

**Note** After using the FDISK utility, repeat steps 2-4 before continuing with the recovery.

When you are done preparing your hard disk, at the prompt, type (Your boot drive letter):\bRECOVER, and press Enter.

5. To continue with Disaster Recovery, press F5.
6. Your system files will be copied from the diskette to your hard drive.

The following prompt should appear:

```
Please insert Disaster Recovery Media #1 into your (device name).
```

7. If it's not already in your drive, insert media #1 of your DR Set into your device when prompted, then press Enter.

**Note** If your Disaster Recovery Set consists of more than one piece of media, you will be prompted to insert each media in the order it was created.

You will then be prompted to select a drive, or volume to recover. If you have only one drive, it will be automatically selected for recovery and this prompt will not appear.

8. Select the volume that you wish to recover by highlighting the volume using the Up and Down arrow keys, then pressing Enter.  
You will then be asked to confirm your selections before recovering your information.
9. Press Enter to confirm your selections.

**Note** If media #1 of your DR Set is not in your drive, you will be prompted to insert it at this time.

Disaster Recovery will begin recovering the Windows File System.

10. Once the volume has been recovered, a summary of the process will be displayed. To exit this screen, press Enter. If there is more than one volume to be recovered, you may select it at this time.

After recovering the volume(s), you may wish to view the REPORT.TXT file which contains a text summary of the files that could not be recovered. If you wish to view this file, you must first exit the program by pressing the ESC key twice, then typing **EDIT REPORT.TXT**. After reading the text, press ALT+F, then press X to exit the editor.

Your recovery is complete. Remove any media from your machine and restart your computer.





---

**Note** It may be necessary to restart your computer more than once if any hardware in your system has changed since your DR Set was created.

---

▼ **To use Disaster Recovery for Windows NT:**

A minimal install of the Windows NT Workstation will be performed from the Disaster Recovery Set.

Disaster Recovery screens will display messages instructing you when to insert each of the diskettes from your Disaster Recovery Set.

1. Insert the Windows NT Workstation Setup Boot Disk (diskette #1 of the DR Set) and restart your computer. You will be guided through a partial NT installation.

Only the boot drive and the NT installation drive need to be partitioned at this time. You will be able to partition and format other drives at a later time through the Disk Administrator in the Disaster Recovery process.

2. Restart your computer when prompted.

The Recovery Wizard should appear now and guide you through the steps necessary to recover your system.

---

**Note** If setup determines that your primary partition is not set up (i.e. if your C drive is not partitioned or formatted), then you will be prompted to do so. You should attempt to partition any new drive(s) to the same settings as were set before the drive failure.

---

3. After you have restored all the files from your backup volumes, reboot the machine to complete your recovery.

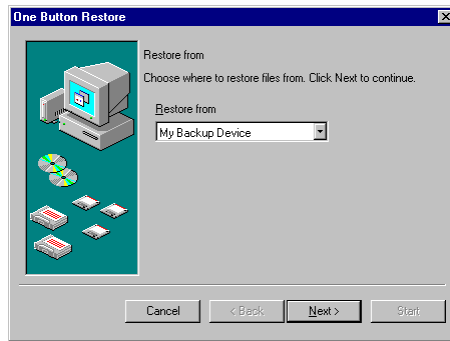
## One-Button Restore

One-Button Restore launches a series of dialogs which help you perform a restore in just a few steps.

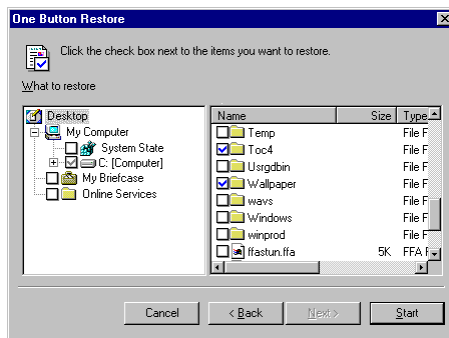
### ▼ To run One-Button Restore:

1. Click the **Start** menu, select **Programs Backup Exec**, and then click **One-Button Restore**.

The *One-Button Restore* dialog box appears.



2. Select a device or File in the drop-down list box.
3. Click **Next** to continue.
4. Check the drives, folders, and files you want to restore.



5. Click **Start** to begin restoring your files.



**Note** If your backup job spanned more than one media, insert the first media of the backup set. Backup Exec will then prompt you to insert each additional piece of media.

---

## Restore Default Settings

Your restore will run with the following default settings:

- ◆ What to Restore—Folder view. See [“What to Restore”](#) on page 75.
- ◆ Where to restore—Original Location. See [“Where to Restore”](#) on page 76.
- ◆ How to restore—Always replace. See [“How to Restore”](#) on page 77.

## Restoring All Your Files

This section explains how to quickly and easily restore all your files in the event of a hard disk failure. This procedure can also be used to transfer all your files to a new computer.

Before you can restore your files after a hard disk failure, you must first prepare your hard disk and reinstall Windows. Then follow these steps:

### For Windows 9x

1. Install and configure Backup Exec. See [“Installing Backup Exec”](#) on page 8.
2. Collect the media containing your most recent All Selected Files and your New and Changed Files backups. Which backup sets you’ll need to restore depends on your backup strategy.

If you performed:

All Selected Files only—restore only your most recent backup set.

All Selected Files and Differential New and Changed Files—restore your All Selected Files backup first, then restore the most recent Differential backup set.

All Selected Files and Incremental New and Changed Files—restore your All Selected Files backup first, then restore each of the Incremental backups sets in order, starting with the oldest.

3. Restore the All Selected Files backup set. Make the following option selections on the Restore window:

What to Restore—Click Device view, then select each local drive.

Where to Restore—Choose Original Locations.

How to Restore—Choose Always replace.

4. Click Start.
5. If you used the *Back up Windows Registry...* option and backed up the registry, a prompt will appear asking if you would like to restore the Windows Registry. See [“Advanced Tab”](#) on page 50 for information on this option.

---

**Caution** Restoring the Registry may cause serious problems if your hardware configuration has changed since you last backed up the Registry.

---

If your system’s hardware configuration and system settings *have not changed* since the last backup of the registry, click **Yes** to restore the Windows Registry.

The entire registry will be restored along with all selected local drives.



Or,

If your system's hardware configuration *has* changed, (i.e. you've added a new drive or changed the IRQ settings on a card) click **No** when prompted to restore the hardware and system settings in the registry. Only those portions of the registry containing your software settings and configuration will be restored along with all selected local drives.

6. When the restore is complete, you are prompted to reboot your computer. Click **Yes** to reboot (recommended).
7. Restore any New and Changed Files backup sets using step 3 and 4.

### For Windows NT

1. Install and configure Backup Exec. See "[Installing Backup Exec](#)" on page 8.
2. Collect the media containing your most recent All Selected Files and your New and Changed Files backups. Which backup sets you'll need to restore depends on your backup strategy.

If you performed:

All Selected Files only—restore only your most recent backup set.

All Selected Files and Differential New and Changed Files—restore your All Selected Files backup first, then restore the most recent Differential backup set.

All Selected Files and Incremental New and Changed Files—restore your All Selected Files backup first, then restore each of the Incremental backups sets in order, starting with the oldest.

3. Restore the All Selected Files backup set. Make the following option selections on the Restore window:

What to Restore—Click **Device view**, then select each local drive.

Where to Restore—Choose **Original Locations**.

How to Restore—Choose **Always replace**.

---

**Caution** Restoring the Registry may cause serious problems if your hardware configuration has changed since you last backed up the Registry.

---

If your system's hardware configuration and system settings *have not changed* since the last backup of the registry, click **Options** in the Restore window and select **Restore Windows Registry** from the **Advanced** tab. For more information on the **Advanced** tab, see "[Advanced Tab](#)" on page 79.

The entire registry will be restored along with all selected local drives.

Or,

If your system's hardware configuration *has* changed, (i.e. you've added a new drive or changed the IRQ settings on a card) make sure the **Restore Windows Registry** checkbox is not selected. Only files selected from your local drives will be restored.

4. Click **Start**.
5. When the restore is complete, you are prompted to reboot your computer. Click **Yes** to reboot (recommended).
6. Restore any **New and Changed Files** backup sets using step 3 and 4.

## Restoring Bindery Files

If you backed up files on your SYS volume or Novell Server and checked the **Back up NetWare Bindery...** option, you can restore your bindery files. See "[Advanced Tab](#)" on page 79 for more information on this option.

### ▼ To restore your bindery files:

1. Click the **Restore** tab.  
The *Restore* window appears.
2. In the selection panes, select any file(s) on the SYS volume.
3. When prompted whether or not to restore the bindery, click **Yes**.



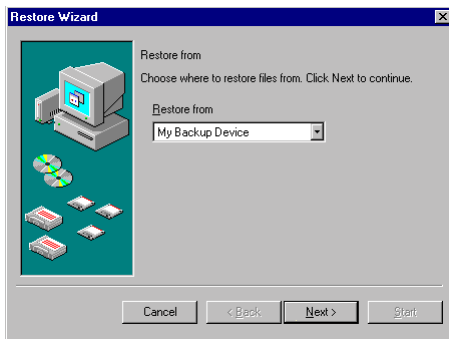
## Using the Restore Wizard

The Restore Wizard guides you through the steps required to run a restore, using a series of windows to let you choose the options used to create your restore job. After choosing an option, click **Next** to continue.

▼ **To create your restore job using the Restore Wizard:**

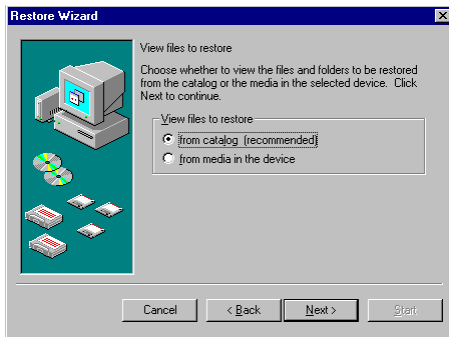
1. Click **Restore Wizard** in the Startup window and click **OK**, or click the **Restore Wizard** button on the toolbar, or select **Restore Wizard** from the **TOOLS** menu.

The *Restore From* window appears.



2. Choose the backup device, or File to restore from, then click **Next**.

The *View files to restore* window appears.

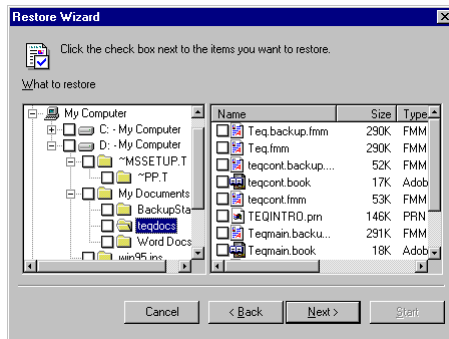


3. You may select your files from the catalog stored on your hard disk or from the media in your drive.

See “[File Views](#)” on page 75 for more information.

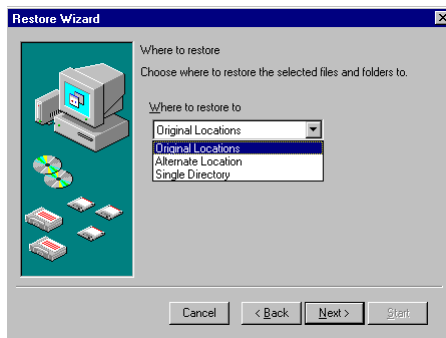
4. Click **Next** to continue.

The *Restore selection* pane window appears.



5. Click the check boxes next to the items you want to restore. For more information on file selection, see [“Selection Panes”](#) on page 19.
6. Click **Next** to continue.

The *Where to Restore* window appears.



7. Choose a destination for your restored files.
8. If you choose to restore to another location, type a path into the text box or click **Browse**.
9. Files are restored in their original folder structure unless you check **Restore all files to a single folder**. See [“Where to Restore”](#) on page 76.
10. Click **Next** to continue.





The *How to Restore* window appears.



11. Select an option. See [“How to Restore”](#) on page 77.

12. Click **Start**.

The *Media Required* box appears. Follow the instructions on the screen, then click OK.

The *Restore Progress* window appears.

See [“Restore Progress Window”](#) on page 82.

---

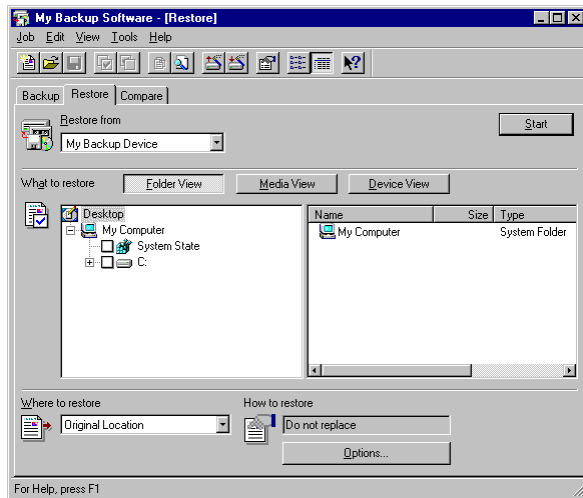
**Note** If your backup job spanned more than one media, insert the first media of the backup set. Backup Exec will then prompt you to insert each additional piece of media.

---

## The Restore Window

This section first describes the Restore window. For step-by-step instructions for restoring your files, see “Restoring Files with the Restore Window” on page 81.

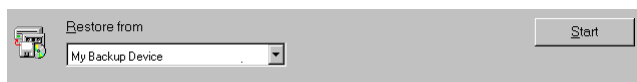
The Restore window gives you quick access to all the restore options. The Restore window is composed of four sections.



- ◆ **Restore from**—Select the backup device to restore from, or select File if you backed up your files to a hard drive, network drive, a floppy drive, or removable media.
- ◆ **File find**—Locate the files you want to restore.
- ◆ **What to restore**—Select the files you want to restore.
- ◆ **Where to restore**—Select the location to restore your files to.
- ◆ **How to restore**—Select your overwrite option.

### Restore From

The Restore from box lists all available backup devices to restore from. To change the device you want to restore from, select another device in the drop-down list box. If you used the File selection and backed your files up to a hard drive, a network drive, a floppy diskette, or removable media, select File in the drop-down list box.



## Restore File

The File option enables you to restore your data that was backed up to a file in some custom location, such as a hard disk, a network drive, a floppy diskette, or removable media.



### ▼ To restore your data from a file:

1. Select File in the Restore from drop-down list box on the Restore window.

A text box and browse button appear below the drop-down list box.

2. Type a folder and filename in the text box.

Or,

Click **Browse**, select a folder and a file within that folder, then click **OK**. The path appears in the text box.

## File Find

The File Find option enables you to locate file(s) for restore. You can search by filename, location, and date modified. Backup Exec lists all the backed up files that match your criteria.

You may terminate the File Find operation at any time by clicking the **Close** button.

### ▼ To search for files with the File Find option:

1. From the Restore tab, select the device that you used to back up your file(s).
2. Click the File Find button on the Toolbar, or select File Find from the Edit menu.  
The *File Find* window appears.
3. Enter a file name and path (if no path is entered, Backup Exec searches all paths).
4. To search by date, click the **Date Modified** tab and enter a date or date range.
5. To start searching, click **Find Now**.

Backup Exec searches the catalog that corresponds to the selected device and displays a list of all files that match the search criteria.

6. When the search is completed, the file name and path will appear in the window. Set options, if necessary, by clicking the **Options** button and choosing from the **Restore Options** tabs. Set your options, then click **Start**.
7. The *Media Required* box appears. Follow the instructions on the screen, then click **OK**.

## What to Restore

Select a file view and files to restore in the *What to restore* section.

### Catalog

Each time you make a backup, Backup Exec creates a backup catalog. This catalog contains information about the files and folders that were backed up and the Backup Job used. Backup Exec uses the information in the backup catalog to restore or compare backed-up files.

After viewing the backup catalog, you may find items you no longer need to restore or compare. To remove these items from the backup catalog, use the *Catalog Clean Up* tool located on the **TOOLS** menu. See “[Catalog Clean Up](#)” on page 94 for more information.

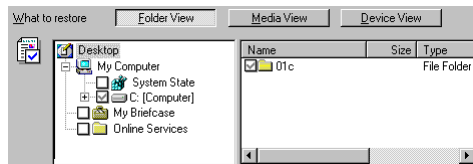
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**Note** If you get a message indicating the catalog is empty, select **Device view** on the **Restore** window.

---

### File Views

Backup Exec provides three different view options to help you select the files you need to restore.



- ◆ **Folder view**—displays the catalog on the hard disk using the traditional file tree system. Folder view displays cataloged files filtered by the selected backup device. Use this view when you want to see all the files currently on your hard drive.
- ◆ **Media view**—displays the catalog on the hard drive sorted by media. Media view displays cataloged files for all devices. Use this view when your backup spans more than one media, or if you have multiple backups (i.e. Incremental) and you wish to see the files for a particular backup job.



- ◆ **Device view**—displays the contents of the media currently in the drive. Device view displays all logged files for the selected device. Use this view when you want to see the contents of a single piece of media.

---

**Note** If you wish to view a backup set during Device View that spans more than one media, you must insert all media in sequence.

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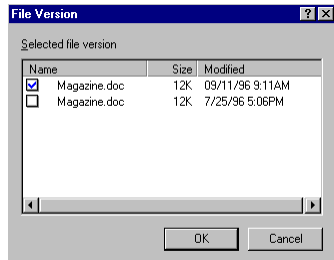
### Restore Selection Panes

Backup Exec uses the same drive and file selection methods as the Windows Explorer. Drives and folders are selected in the All Folders pane, and individual files and folders are selected in the Contents pane. Select drives and files to restore by clicking the check box next to the item. For more information, see “[Selection Panes](#)” on page 19.

### Multiple File Versions

If you back up the same set of files more than once, you will be able to restore any version of the files you backed up.

By default, Backup Exec restores the most recent file version. To restore an older version, choose **Version** from the **Edit** menu or toolbar and use the *File Version* dialog box, which lists each available version’s size and date/time modified.



You can also open the *File Version* dialog if you right-click a file in the **Restore** selection pane, and then click **Version**.

### Where to Restore

You’ll usually want to restore files to the same place from which you backed them up. However, if you want to restore your files to a different location, use the *Where to restore* box. The following selections are available:

- ◆ **Original Location**—All files and folders are restored to the same path from which they were backed up. This is the default setting.

- ◆ **Alternate Location**—All files and folders are restored using the original tree as backed up, but the root of the tree is set to the specified path.
- ◆ **Single Directory**—All files and folders are restored to a single folder, specified in the path text box.

▼ **To restore your files to an alternate location:**

1. Select **Alternate Location** from the *Where to restore* list.
2. Type a path into the text box.

Or,

Click **Browse**, select a folder in the list, then click **OK**. The folder appears in the text box.

▼ **To restore your files to a single folder:**

1. Select **Single Directory** from the *Where to Restore* drop-down list box.
2. Type a folder (directory) name into the text box.

Or,

Click **Browse**, select a folder from the list, then click **OK**. The folder appears in the text box.

## How to Restore

Restore options lets you choose how to treat files in your backup set with the same name as those on your hard drive.

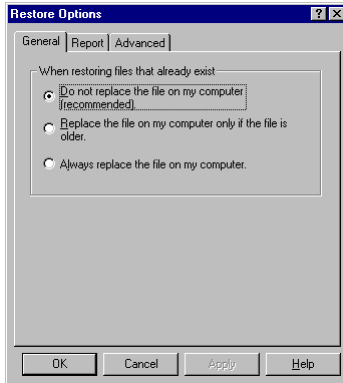
▼ **To set your restore options:**

1. Click **Options** in the Restore window.  
The *Restore Options* dialog box appears:
2. Choose a Restore option.



## General Tab

- ◆ Do not replace—Never replace the files on the hard disk, even if the backed-up file is a more recent version than the file on the hard disk.



- ◆ Replace older files—Replace only older files with the most recent file versions.
- ◆ Always replace—Always replaces the files on the disk.

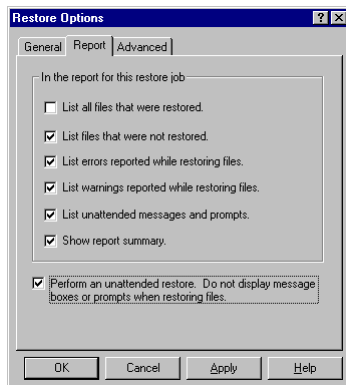
---

**Caution** Always Replace will always overwrite the files on your hard disk with the backed up files.

---

## Report Tab

Use the Report tab to specify the items you want to include in your restore report and to set your unattended restore option.



- ◆ List all files that were restored—Includes a list of the files that were selected and successfully restored.

- ◆ List files that were not restored—Includes a list of the files that were selected, but not successfully restored.
- ◆ List errors reported while restoring files—Includes a list of any errors encountered while restoring files.
- ◆ List warnings reported while restoring files—Includes a list of any warnings encountered while restoring files.
- ◆ List unattended messages and prompts—Includes a list of any messages and prompts encountered while performing an unattended restore.
- ◆ Show report summary—Includes a report summary of the results of the restore.

### Unattended restore

Check **Unattended restore** to run unattended restore jobs. This option enables the program to bypass most prompts during a restore operation. *Unattended restore* is the default setting.

### Advanced Tab

Use the Advanced tab to specify the following options:

- ◆ Restore Windows Registry—Restores the Windows Registry.
- ◆ Restore Netware Bindery...—Restores the Netware Bindery when a Netware system volume is selected for restore. Backup Exec will restore NetWare 3.11-3.12 server bindery, and NetWare file and directory attributes from NetWare server volumes, including trustee information.
- ◆ Restore NTFS File Permissions—Restores user's permissions to files and directories.

---

**Note** If you are running under Windows 9x, the *Restore NTFS File Permissions* option will not be available.

---

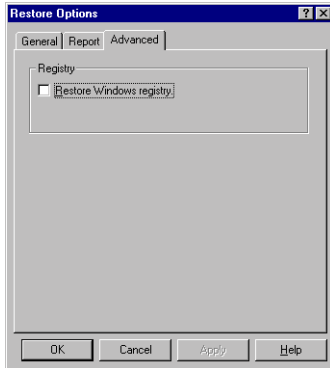




▼ **To set the Advanced Options:**

1. Click the Advanced tab in the Restore Options dialog box.

The Advanced tab appears.



2. Check the option you want.
3. Click OK.

## Restoring Files with the Restore Window

### ▼ To restore files using the Restore window:

1. Click Blank Restore Job in the Startup window, or click the Restore tab from the Main or Program window.

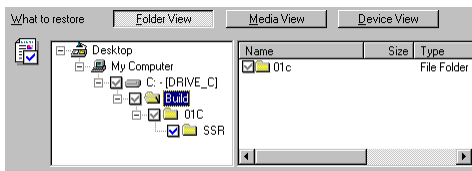
The *Restore* window appears.

2. Select the backup device containing the files you wish to restore.

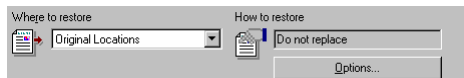


**Note** If you backed your files up to a hard disk, network drive, a floppy diskette, or removable media, select File. See “[Restore File](#)” on page 74.

3. To choose your files from your backup device instead of from the catalog on your hard disk, select Device view. See “[File Views](#)” on page 75.
4. Place a checkmark in the box next to the drive and files you want to restore.



5. To change your restore location, select another location in the *Where to restore* box. See “[Where to Restore](#)” on page 76.

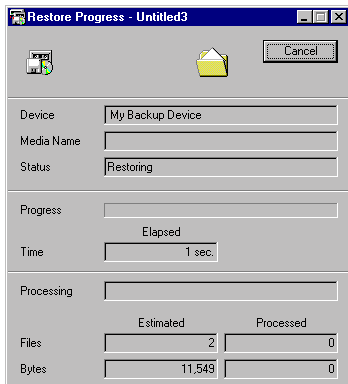


6. To change your restore options, click Options. Change the settings for the restore job under the options tabs, click Apply, then click OK. See “[How to Restore](#)” on page 77.
7. On the Restore window, click Start.
8. The *Media Required* box appears, follow the instructions on your screen, then click OK.



## Restore Progress Window

The Restore Progress window appears when you click OK, and provides information about your restore job. It is divided into three sections.



The top section lists the selected backup device and the name of your media. It also displays the current status of your restore job.

The center section displays a progress bar and the time elapsed since the start of restore.

The bottom section lists the name of the file currently being restored, and the estimated number and size of the files restored.

You can cancel the restore job at any time by clicking the **Cancel** button or pressing **Esc**.

When the restore job is complete, the *Cancel* button changes to *OK* and a *Report* button is displayed below it. Click *Report* for a summary of your restore or click *OK* to continue.

This chapter explains how to use the Compare window to read data from the backup set and compare it to the data on the hard disk. You can compare one file, selected files, or all files in the backup set.

Compare is a separate function designed to provide maximum data security. After you have created a backup set, you can go to the Compare window and verify that the information contained on the backup media is identical to the data on the hard disk and that it can be restored.

It is strongly recommended that you perform compares after your first few backups and after changing your system's configuration. This will confirm Backup Exec is running properly on your computer.

Performing a compare at any time in the future lets you see how the files in the backup set differ from the files currently on the hard disk.

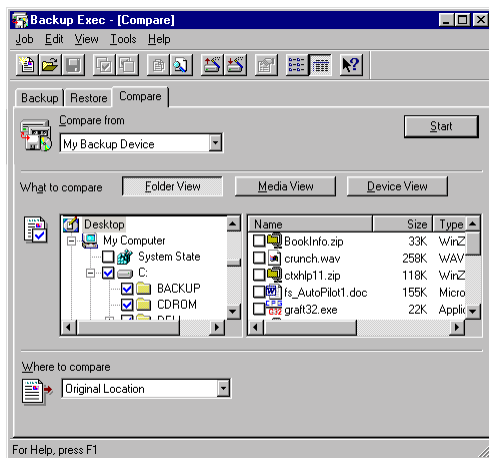
## Where to Look—Compare

- ▼ **For more help on compare topics, see:**
  - ◆ [“The Compare Window”](#) on page 84
  - ◆ [“Comparing Files with the Compare Window”](#) on page 87
  - ◆ [“Compare Progress Window”](#) on page 88



## The Compare Window

The Compare window gives you quick access to all the compare options. It consists of three main sections:



- ◆ Compare from—Select the backup device to compare from.
- ◆ What to compare—Select the files you want to compare.
- ◆ Where to compare—Select the location to compare your files to.

### Compare From

The Compare from drop-down list box lists all available backup devices to compare from. To change the drive you want to compare from, select another drive in the drop-down list box. If you used the File selection and backed your files up to a hard drive, a network drive, a floppy diskette, or removable media, select File in the drop-down list box.



### Compare File

- ◆ The File option enables you to compare your data that was backed up to a file in some custom location, such as a hard disk, a network drive, a floppy diskette, or removable media.

### ▼ To compare your data from a file:

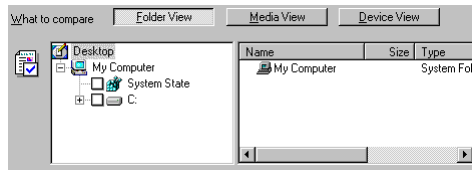
1. Select **File** in the Compare from drop-down list box on the Compare window.  
A text box and browse button appear next to the drop-down list box.
2. Type a folder and filename in the text box.  
Or,  
Click **Browse**, select a folder and a file within that folder, then click **OK**. The path appears in the text box.

## What to Compare

Select the files to compare in the What to compare section.

### File Views

Backup Exec provides three different view options to help you select the files you want to compare.



- ◆ **Folder view**—displays the catalog on the hard disk using the traditional file tree system. Folder view displays cataloged files filtered by the selected device.
- ◆ **Media view**—displays the catalog on the hard drive sorted by media. Media view displays cataloged files for all devices.
- ◆ **Device view**—displays the contents of the media currently in the drive. Device view displays all logged files for the selected device.

### Compare Selection Panes

Backup Exec uses the same drive and file selection methods as the Windows Explorer. Drives and folders are selected in the All Folders pane, and individual files and folders are selected in the Contents pane. Select drives and files to compare by clicking the check box next to the item. For more information, see [“Selection Panes”](#) on page 19.



## Where to Compare

You'll usually want to compare files to the same drive and directory as the one from which they were backed up. If their location has changed, however, the *Where to compare* box lets you specify where the original files are now located.

### ▼ To compare your options to an alternate location:

1. Select Alternate Location from the Where to compare drop-down list box.
2. Type a path in the text box.

Or,

Click Browse, select a folder in the list, then click OK. The folder appears in the text box.

### ▼ To start comparing your files:

- ❖ Click Start.

## Comparing Files with the Compare Window

### ▼ To compare your files:

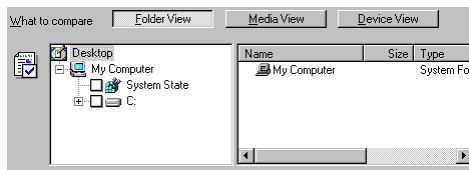
1. Click the Compare tab in the Main Application window.

The *Compare* window appears.

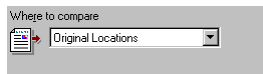
2. Select the backup device containing the backup set you wish to compare in the Compare from drop-down list box.



3. Select the files you wish to compare. See “[Selection Panes](#)” on page 19 for more information.



4. Select a location in the Where to Compare drop-down list box.



5. Click Start.
6. The Media Required box appears. Follow the instructions on your screen, then click OK.

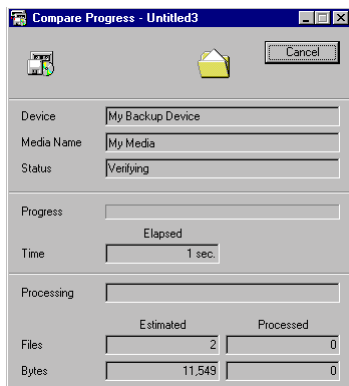
The *Compare Progress* window appears.





## Compare Progress Window

The Compare Progress window appears when you click OK, and provides information about your compare. It is divided into three sections.



The top section lists the selected backup device and the name of your media. It also displays the current status of your compare job.

The center section displays a progress bar and the time elapsed.

The bottom section lists the name of the file currently being compared, and the estimated number and size of the files compared.

You can cancel the compare at any time by clicking the **Cancel** button.

When the compare is complete, the *OK* and *Report* button replace the *Cancel* button. Click *Report* for a summary of your compare or click *OK* to continue.

Backup Exec offers several tools to help you handle your media, catalog, and reports. This chapter describes how to use Media Tools, Report Tools, Catalog Tools, and Preferences.

## Where to Look—Tools

▼ **For more help about tools topics, see:**

- ◆ “Media Tools” on page 89
- ◆ “Report Tools” on page 93
- ◆ “Import Catalog” on page 93
- ◆ “Catalog Clean Up” on page 94
- ◆ “Preferences” on page 94

## Media Tools

The following Media Tools commands are located on the **Tools** menu.

---

**Note** If you have more than one backup device configured, each device will be listed and will have its own set of tools. Different drive types use different tool sets.

---

### Identify

This command displays the media name and contents.

▼ **To identify a media:**

1. Select **Media** from the **Tools** menu, then select **Identify**.

The *Identify* window appears. The device name and media name are displayed.



2. To view the backup sets on the media, click **Device View** in the **Identify Progress** window.
3. Select **OK** to close the **Identify** window.

## Initialize

This command erases the header portion of the media, making all the data on the media inaccessible. Using this command is substantially faster than the **Erase** command, but somewhat less secure, since some data will remain on the media after initializing.

### ▼ To initialize a media:

---

**Caution** Initializing a piece of media destroys all data on the media.

---

1. Select **Media** from the **Tools** menu, then select **Initialize**.  
If the media contains data, you are prompted to confirm the initialize.
2. Click **Yes** to confirm the operation or **No** to cancel.  
If you are using **SCSI** media, you may enter a new media name.
3. Click **OK**.  
The *Initialize Progress* window appears.

## Erase

This command erases all files on the media, and positions the media to start writing or recording. The **Erase** command takes more time to complete, but is more secure than the **Initialize** command, since it erases all data on the media. Use this command if you are concerned about the security of the data on your media. Since the **Erase** command is not supported by all devices, you may need to use the **Initialize** command to prepare your media for use.

### ▼ To erase a piece of media:

---

**Caution** Erasing destroys all data on the media.

---

1. Select **Media** from the **Tools** menu, then select **Erase**.  
If the media contains data, a message box appears asking you to confirm the erase.
2. Click **Yes** to confirm the operation or **No** to cancel.

---

The *Erase Progress* window appears.

## Retension

This command winds and rewinds a tape to remove any slack and evenly tension the tape by performing a fast forward and rewind. It is not applicable to other media, such as writable optical devices.

### ▼ To retension a tape:

- ❖ Select **Media** from the **Tools** menu, then select **Retension**.

The *Retension Progress* window appears.

Or,

To have Backup Exec automatically retension your tape before each backup, select **Preferences** from the **Tools** menu, and place a check mark next to the **Retension the tape before each backup** option.

## Rename

---

**Note** This section applies to Windows 9x only

---

Use this command to rename your QIC medium.

If you rename your medium, be aware that backup sets with the old medium name will be removed from the catalog. If you want to restore or compare files that you backed up before you renamed your medium, you need to perform a **Device View**. Any backup sets that you create after you rename your medium will appear in the catalog.

### ▼ To rename a QIC medium:

1. Select **Media** from the **Tools** menu, then select **Rename**.

A dialog appears displaying the name for the inserted QIC medium.

2. If you wish to rename your QIC medium, type a name in the text box, then click **OK**.

## Security Erase

This command erases the cartridge and overwrites the data with zeros, so that it cannot be read. Security Erase can take several hours to complete, depending on the media type.



▼ **To security erase a tape:**

1. Select **Media** from the **Tools** menu, then select **Security Erase**.

Your tape will spin for several seconds. If your tape contains one or more backup sets, a warning is displayed before the security erase begins.

2. Click **OK** to erase or **Cancel** to cancel the security erase operation.

## Format

---

**Note** This section applies to Windows 9x only

---

This command formats media. When media is formatted, all data on the media is lost. Formatting can take several hours to complete, depending on the media type.

---

**Note** SCSI devices use the **Initialize media** tool instead of the **Format media** tool.

---

▼ **To format QIC media:**

---

**Caution** Formatting destroys all data on the media.

---

1. Select **Media** from the **Tools** menu, then select **Format**.

If the media contains data, a message box appears asking you to confirm the operation.

2. Click **Yes** to confirm the operation or **No** to cancel.

3. Enter a new media name, then click **OK**.

If the drive supports multiple capacities, you are prompted to select either a high or low capacity format.

---

## TapeAlert

The TapeAlert feature detects errors on TapeAlert-supported drives by constantly checking the drive for potential failures, and reporting these problems to you before they occur. When an error is detected, a dialog is displayed explaining the error, and offering instructions on how the problem can be resolved.

## Report Tools

Report tools give you access to the backup log or report, which provides backup information and error messages. The following commands are available under the Report sub-menu.

- ◆ **View**—Launches Notepad with the log file loaded and displays the last five reports.
- ◆ **Print**—Launches Notepad, prints the log file, and exits Notepad.

---

**Tip** Click **Report** on the **Progress** window to view the report for the current backup, compare, or restore operation.

---

## Import Catalog

To add backup sets to your catalog, use the **Import Catalog** command from the **Tools** menu. This allows you to recatalog backup sets or media that have been deleted or to add files from media that have been backed up on a different system.

▼ **To import items into your backup catalog:**

1. On the **Restore** or **Compare** window, select **Import Catalog** from the **Tools** menu. *Device View* is selected.
2. Select the backup set you wish to add to your catalog in the **Select Backup Sets** dialog box.
3. Click **OK**. The items in the backup set are added to your catalog.

---

**Note** The media is searched and catalog information is added to your catalog. If the backup set is very large, this operation can take several minutes.

---



## Catalog Clean Up

The Catalog Clean Up tool helps you manage your catalog. Use this tool to delete backup sets or media from the backup catalog. This command displays the Catalog Clean Up dialog box. See “[Catalog](#)” on page 75 for more information.

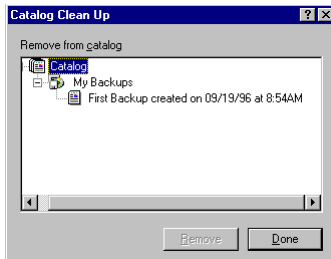
---

**Note** If you remove backup sets or media from the catalog, you must perform a Device View to restore or compare them.

---

▼ **To delete items from the backup catalog:**

1. On the Restore or Compare window, select Catalog Clean Up from the Tools menu.  
The *Catalog Clean Up* dialog box appears.



2. Select media or a backup set in the *Remove from catalog* list box.
3. Click Remove.
4. Click Yes to confirm this operation or No to cancel.

---

**Tip** If you want to compact the catalog so that it occupies less space, click **Compact** on the Catalog Clean Up dialog box.

---

## Preferences

The Preferences dialog box lets you set the following options:

### General

- ◆ Show startup dialog when Backup Exec is started.—The startup screen is displayed each time the program starts.

- ◆ **Show the number and size of files before backing up, restoring and comparing data.**—The estimated number and size of files selected are displayed. This option also enables Backup Exec to display time estimates and file counts in the Progress windows.
- ◆ **Retension the tape before each backup.**—This command automatically winds and rewinds a tape to remove any slack and evenly tension the tape before each backup.







This chapter provides troubleshooting tips to solve the most common configuration, compatibility, and other issues.

## Where to Look—Troubleshooting

- ▼ **For more help on troubleshooting topics, see:**
  - ◆ [“Backup Device Configuration”](#) on page 97
  - ◆ [“System and Software Lockups”](#) on page 102
  - ◆ [“Common Error Messages”](#) on page 104

## Backup Device Configuration

This section is designed to help you configure your system. You will find useful troubleshooting tips that can help you solve most of the problems you may encounter.

\*Backup Exec supports plug and play operation. However, if for some reason your backup device is not automatically detected, this section provides instructions on manually configuring your drive or controller. Chances are you won't need to manually configure either of them. See your device type below for specific steps.

\*For Windows 9x only

## Conflicts With Drivers from Other Backup Programs

Some driver files from other backup programs and Windows 3.1 applications may conflict with your backup software. [“Driver File Lines and Associate Applications”](#) on page 98 lists the driver files, with their associated applications, that may be causing a conflict.

As a troubleshooting step, disable any drivers on your system that might cause conflict.



**Caution** If you are running the applications associated with these driver files, do not remove them permanently.

---

▼ **To disable drivers that may be creating conflicts:**

1. Make a copy of your SYSTEM.INI file (found in your Windows folder) and name the copy SYSTEMBKUP.INI. This provides an unmodified copy of your original file.
2. Click Run on the Start menu.
3. Type **system.ini** and click OK. The SYSTEM.INI file opens in Notepad.
4. In the [386Enh] section of your SYSTEM.INI file, type a semi-colon (;) at the beginning of the driver file lines listed below. The semi-colon disables the driver that may be causing a conflict.
5. Save the modified SYSTEM.INI file and restart your computer.

If you find that any of the programs listed below with a dagger (†) are causing the conflict, you should obtain the Windows version of the software to eliminate the problem.

Table 2. Driver File Lines and Associate Applications

<b>Driver File Line</b>	<b>Application</b>
device=cmswtape.386	Colorado Backup for Windows
device=cmsdtape.386	Colorado Backup for DOS
device=vfintd.386	Backup Exec, Conner Backup, Iomega Backup, Norton Backup
device=cpbvxd.386	Central Point Backup
†device=symeant.386	Symantec Norton Utilities
†device=adw30.386	After Dark Screen Savers
†device=awdos.386	PCanywhere for DOS
†device=vpcaw.386	PCanywhere for Windows
device=fastback.386	Fastback Backup
device=irw286.drv	Irwin Eztape Backup
device=novabkp.386	Novastor Backup
device=virwt.386	Irwin EZtape Backup

## Conflicts With Other Programs

### ▼ If the problem persists:

1. Make a copy of your WIN.INI file (found in your Windows folder) and name the copy WINBKUP.INI. This provides an unmodified copy of your original file.
2. Click Run on the Start menu.
3. Type win.ini and click OK. The WIN.INI file opens in Notepad.
4. Type a semi-colon (;) at the beginning of the load= and run= lines, then save the file.
5. Restart your computer and run Backup Exec.

## Conflicts With Other Device Drivers

---

**Note** This section applies to Windows 9x only.

---

If the problem continues, try changing the file extension of any Backup Exec drivers that are not in use to .old.

### ▼ To change the file extension of Backup Exec drivers that are not in use:

1. Open the Explorer, double-click Windows, double-click System, then double-click Iosubsys.  
The contents of the Iosubsys folder appear in the right pane.
2. Search for the files listed in Table 2, and change their file extensions to .old. For example, rename drvppqt.vxd to drvppqt.old
3. Restart your computer and run Backup Exec.

Table 3. Drivers Not In Use

If you are using this device:	Change these files:
SCSI backup device	drvppqt.vxd drvq117.vxd



## SCSI Backup Devices

If your system cannot locate your SCSI backup device, disable any real-mode drivers loading in your CONFIG.SYS file. Follow the steps below:

1. Click Run on the Start menu.
2. Type **sysedit.exe** and click OK.
3. Click on the CONFIG.SYS window.
4. Type **rem** at the beginning of each line that contains a real-mode driver. For example, **rem device=C:\aspi\aspi4dos.sys**
5. Save the CONFIG.SYS file.
6. Restart your computer and run Backup Exec.

## Parallel Port Backup Device

If your system cannot locate your Parallel Port device, you may have an IRQ conflict.

### ▼ To check for IRQ conflicts:

1. Right-click the My Computer icon and select Properties.
2. Click the Device Manager tab in the System Properties window.
3. Computer is highlighted and appears at the top of the list. Click Properties.
4. Make sure your printer port drive is the only device with an IRQ setting of 07. If another device has the same IRQ setting, change that device's IRQ setting to avoid conflicts.

---

**Note** Your printer port may not appear in this list. If it does not appear, change your printer port IRQ setting using the steps in the next section.

---

5. Restart your computer and rerun Backup Exec.

### ▼ To change your printer port IRQ setting to 07:

1. Right-click the My Computer icon and select Properties.
2. Click the Device Manager tab in the System Properties window.

3. Double-click **Ports** in the list box, select **Printer Port (LPT1)**, then click **Properties**.
4. Click the **Resources** tab, then write down your current **Input/Output Range** settings.
5. Uncheck **Automatic Settings** and select **Basic Configuration 1** in the **Setting based on** drop-down list box.

*Interrupt Request* appears in the list box.

6. Highlight **Interrupt Request** and click **Change Setting**.
7. Select **07** for the new interrupt.
8. Click **OK** and verify that the **Input/Output Range** is at the setting you wrote down.
9. Click **OK**, then restart your computer.

▼ **If the problem persists:**

- ◆ Remove any conflicting drivers or programs. See [“Conflicts With Drivers from Other Backup Programs”](#) on page 97.
- ◆ Some drives may be incompatible with enhanced parallel ports (ECP/EPP). Check with your computer hardware vendor to confirm the kind of parallel port you have and to learn how to change the setting from ECP or EPP to a compatible setting, such as bi-directional.



## System and Software Lockups

If your system or software stops responding, there is often a conflict with outdated software drivers or with other software. This section will help you eliminate those and other conflicts.

### Backup Exec Locks Up During Installation

If you are using DriveSpace or Stacker, install Backup Exec on a non-compressed volume.

#### ▼ To determine which volume is non-compressed:

1. Click the Start button on the taskbar.
2. Click Programs, Accessories, System Tools, DriveSpace 3.
3. You should now see a list of the compressed volumes as well as the Host drive (the host drive is non-compressed). If you double-click on the host volume it will indicate how much space is available.
4. Ensure that you have at least 10 MB available on the host drive.
5. Ensure that the host drive is not hidden. To unhide the host drive, click on the host drive and click the Properties button. Uncheck the Hide this host drive option.
6. Install Backup Exec to the host drive.

If Backup Exec still locks up after installation, boot Windows in Safe Mode by holding down F8 during boot-up. Install Backup Exec while in Safe Mode. When the installation is complete, reboot the system in normal mode and then run Backup Exec. If this procedure does not resolve the problem, contact VERITAS Software Technical Support (See [“Technical Support”](#) on page 107) and request replacement installation diskettes.

### System Locks Immediately After Installation

If your system is locking up immediately after Backup Exec is installed, there may be conflicts between Backup Exec and other applications.

#### ▼ To disable other applications:

1. Press the CTRL, ALT and DELETE key at the same time to display the *Close Program* dialog box.

The only application that can be running is the Explorer.

2. Close other applications by highlighting the desired application and clicking the End Task button.

If all applications have been disabled and Backup Exec is still not responding, rename (using an .OLD extension) the Backup Exec drivers not being used.

## Backup Exec Locks Up While Displaying Selection Information Before a Backup

Files in your Recycle Bin may be conflicting with other files on your hard drive. Delete the files in your Recycle Bin before using Backup Exec.

### ▼ To empty the Recycle Bin:

- ❖ Click the right mouse button on the Recycle Bin located on the Desktop, then select Empty Recycle Bin.

### ▼ To delete any protected files in the Norton Recycle Bin:

- ❖ Right click on the Norton Protected Recycle bin located on the desktop. Select Empty Norton Protected Files.

If the problem continues, files in TEMP and cache folders may be causing the backup software to appear locked up. Delete any on-line service TEMP folder files or Cache folder files. Most on-line and web browsers allow you to purge their disk cache (for example, Netscape, Microsoft Internet Browser, or AOLnet).

### ▼ To delete these temp files:

1. In NetScape Navigator, click Options, Network Preferences, Clear Disk Cache Now.  
Or,  
In Microsoft Internet Explorer, click View, Options, then Advanced tab. In the cache box, click Empty.
2. Launch Backup Exec and start the backup again.





## Common Error Messages

This section lists some common backup device errors. The most commonly received error messages

### ASPI Manager Not Found or ASPI Manager Not Responding

1. Lower the rate at which data is transferred to the backup device from the SCSI BIOS to 5MB/sec. Refer to your hardware manual for complete instructions.
2. Ensure the SCSI backup device has a low SCSI ID (for example, a lower ID than a CD-ROM installed on the system).
3. Contact your hardware vendor for the latest BIOS or Firmware for your SCSI adapter card and/or backup device and get the latest Windows miniport driver for your SCSI controller.
4. First see [“Conflicts With Drivers from Other Backup Programs”](#) on page 97 for troubleshooting tips.

### Device Driver Error

Device driver errors will contain the following number format in the error dialog:  
XX-XX-XX-XX-XXXX

#### ▼ To solve device driver errors:

1. Close any open applications.
2. Disable advanced power management or screen savers.
3. Update drive firmware.
4. Update controller driver (SCSI).
5. Replace media.
6. Check physical hardware configuration.

### DMA Conflict During Backup or Compare

If the problem continues, follow the steps below.

1. Go to Device Manager and double-click the backup device item.
2. Select the backup device and click Properties.
3. Select the Settings tab and disable high speed burst mode, concurrent video update, and concurrent hard disk access.
4. Reduce the transfer rate to its lowest setting.

If you still have a DMA conflict problem, use the lowest resolution setting available on your video card. If this fixes the problem, contact your video card or computer manufacturer for available driver updates for Windows.

## Media Not Formatted or Unreadable

If you are receiving a “media not formatted or unreadable by drive” error and are using an internal backup device, try these steps:

1. Right-click the My Computer icon and select Properties.
2. Click the Device Manager tab in the System Properties window.
3. Click the plus sign next to your backup device type to expand the tree, then double-click your backup device.
4. Click the Settings tab in the Properties window.
5. Uncheck the High speed burst transfers option and click OK.
6. Restart your computer.

## Media Formatter Error

Media formatter errors will contain the following number format in the error dialog:  
XXXX-XXXX

### ▼ To solve media formatter errors:

1. Clean the drive (for information on cleaning the drive, see the hardware documentation).
2. Try another piece of media.
3. Try restoring your data to another machine, or drive.



4. Follow steps 1-6 in the section “[Device Driver Error](#)” on page 104.

Many problems can be solved with the on-line help system or User's Guide. You can always press F1 to get help for the active window or dialog box. If you have a problem that cannot be solved using the on-line help or this User's Guide, collect the information described in "Preparing for Technical Support," then contact technical support.

## Preparing for Technical Support

Write down your exact problem. Include the following information:

- ◆ Name and version number of your program copy.
  - ◆ The wording of any error messages from your backup software, DOS, Windows, or any other application involved in the problem.
  - ◆ Your computer name and model.
  - ◆ Names and models of any additional hardware (expanded memory boards, special video cards, tape drive controllers, etc.).
  - ◆ Operating system and version number (including Windows).
  - ◆ Can you consistently reproduce the problem you are having?
  - ◆ Has this problem occurred previously? If it is new, did you change your system configuration recently?
- ▼ **When calling, follow these guidelines:**
- ◆ Call from a phone next to your computer.
  - ◆ Please have your notes ready with the information described above, then contact technical support.





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