

ExecView

Overview

Backup Exec for Windows NT Server's ExecView program gives you the ability to determine quickly the status of the entire Windows NT enterprise Backup Exec operation from any Windows NT enterprise computer that the ExecView program is installed on.

Once the application is running, the status of the following can be monitored:

- Backup servers (computers with attached backup devices)
- Backup devices
- Scheduled, active, and/or completed jobs

ExecView also monitors all alert conditions that may occur during a Backup Exec session. These alerts appear on the device experiencing an alert condition in the form of an international warning symbol icon. You can view and respond to any alert without actually being at the backup server in question.

Installing ExecView

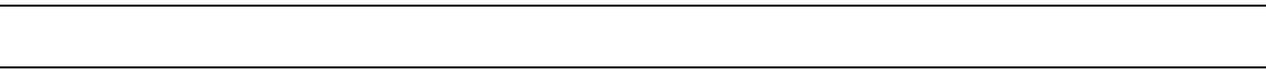
To install the files needed to run ExecView, run the Backup Exec installation program from the CD-ROM at the Windows NT computer you want to monitor backup servers from. When the Backup Exec Install screen appears, select ExecView Only and continue with the installation.

Starting the ExecView Program

ExecView can be started and used directly at any Windows NT backup computer, or it can be run from any Windows NT computer on the enterprise.

To start ExecView from a backup server, double-click the ExecView icon. The ExecView's main window appears and the program is now active.

Important: If you are running ExecView for the first time after installing the product, an ExecView window appears stating that no backup servers have been selected to monitor. The dialog box prompts you to create a list of backup servers to monitor. Click Yes to proceed to create a list of servers.



Adding Servers to be Monitored

You can add servers to be monitored using two methods: adding servers using the Options|Preferred Server List from the menu bar, or during the initial start-up of ExecView, after it is installed.

If you are adding servers to ExecView after the initial installation, an ExecView dialog box appears stating that no servers have been selected for monitoring.

1. Click Yes.

A Preferred Backup Server List appears.

The following options are available from this dialog box:

Backup Servers	shows a list of all the servers that can be selected
Backup Servers to Monitor	shows a list of servers that are already being monitored
Add	adds servers to the Backup Servers To Monitor list
Remove	deletes servers from the Backup Servers To Monitor list
Add All	adds all servers from the Backup Servers list to the Backup Servers To Monitor list
Add the Specified Server	adds a particular server to the Backup Servers to Monitor list. Enter the target server name and click the Add button next to the field

You can individually add servers to the Backup Servers To Monitor list by highlighting each server one at a time using the mouse and clicking Add, or you can simply click Add All to incorporate the entire list.

The ExecView Window Components

ExecView's main program window consists of four sections. These include:

- Title Bar
- Menu Bar

- Toolbar
- Views

Each of these sections gives specific information dealing with enterprise backup operations. For example, the title bar displays the server name from which the ExecView program is running. Each section is explained on the following pages.

Each view can be resized to meet your needs. To resize the views, pass the mouse pointer over the Views Resize Bar (the bar dividing the views). When the mouse arrow changes to a set of double vertical bars, click and hold down the left button. Drag the bar left or right to resize.

The same thing can be achieved by selecting View|Split from the menu bar. The bar dividing the views becomes active, allowing the views to be resized.

The Title Bar

Besides showing the name of the software package, the Title Bar also shows you which Windows NT computer is running the ExecView program, along with the user name of the user running the program.

The program's title bar text looks similar to the following example:

Example: `_ExecView - [machine_name]\user name`

The Menu Bar

After ExecView is started, a menu bar appears at the top of your screen. Each menu selection is described in the following tables.

File	
Exit	Allows you to exit the program.
View	
Refresh Current Selection	Allows you to update the current selection's information shown on-screen. <F5> can also be used to refresh the selection information.
Properties of Current Selection	Shows the properties of the current selection.
Alerts on Current Selection	Shows the alerts on the current selection.
Toolbar	Gives you the option of viewing the Toolbar on-screen. A check appears if the option is active.

Status Bar	Gives you the option of viewing the Status Bar on-screen. A check appears if the option is active.
Split	Allows you to resize the View windows.

Server	
Resume Server/Device	Allows you to resume after having paused or stopped a device or server.
Pause Server/Device	Allows you to pause a server or device while backup operations are active.
Each of the above are actually checked functions that allow the named jobs to be displayed in the Jobs View.	

Jobs	
Show Scheduled Jobs	Shows jobs scheduled for a selected backup server.
Show Active Jobs	Shows the status of all jobs in progress.
Show Completed Jobs	Shows the status of all completed jobs.
Abort Active Job	Allows you to abort an active job.

Options	
Preferred Server List	Allows you to customize the list of backup servers to monitor. Preferred servers appear in the Servers and Devices window.
Settings	<p>The Settings dialog box uses a tabular format when presenting information. These headings include:</p> <ul style="list-style-type: none"> • Jobs • Refresh • Notification
Jobs	<p>The Jobs dialog includes the following options:</p> <ul style="list-style-type: none"> • Maximum Number Of Scheduled Jobs To Show For Each Server The minimum number of scheduled jobs to show for each server can be 0; the maximum can be 50. The default is 10. • Maximum Number Of Completed Jobs To Show For Each Server The minimum number of completed jobs to show for each server can be 0; the maximum can be 50. The default is 10.
Refresh (The default setting refreshes	The Refresh dialog includes the following automatic refresh options. These options allow you to update the information that appears on-screen based on your interval preferences.

the entire server list every
minute)

- **Auto Refresh the Entire Server List**
Refresh Interval _ Minutes(s) _ Second(s)
This option forces the refresh of all servers, devices, and jobs in the Server view.
- **Auto Refresh the Selected Server, Device, or Active Job**
Refresh Interval _ Second(s)
This option forces the refresh of a selected server, device, or active job (and their associated jobs) rather than refreshing everything in the Server Property Sheet.
- **Auto Refresh the Active Job Property Page**
Refresh Interval _ Second(s)
This option forces the refresh of the selected active job that appears in the Jobs view.

Notification	<p>The Notification dialog gives you audible alarm options that sound when an Alert occurs during a Backup Exec operation. These options are:</p> <ul style="list-style-type: none"> • Audible Notification for Server Connection Failure <p>This alarm option sounds if you try to connect to a remote server and the connection fails.</p> • Audible Notification for Alert Messages <p>This alarm option sounds whenever an Alert message is generated.</p> • Execute the following Command Line when Alert Messages are detected <p>This option allows you to run an Windows NT command whenever an alert condition is generated. For example, Windows NT's net send command, along with the name of the machine that is logged in, appears as a default. This command sends a notification, along with the alert message, to a specified machine name.</p> <p>%m is the attachment link that attaches the actual alert message to the specified command.</p>
Help	
Index	Allows you to search for topics.
Using Help	Gives instructions for using Help.
About ExecView	Shows version numbers and copyright information.

The Toolbar

The Toolbar, appearing directly below the menu bar, includes an assortment of buttons to activate the tools. Each tool button is explained below.

The Toolbar Buttons

Resume Server/Device Button	The Resume Server/Device button allows you to re-activate a server or device that was paused or stopped.
Pause Server/Device Button	The Pause Server/Device button allows you to place a backup server or device in a paused state of operation.
Refresh Current Selection Button	Clicking this button allows you to manually refresh the current selection when desired.
Current Selection Properties Button	Clicking this button allows you to see the properties associated with the current selection.
Current Selection Alerts Button	Clicking this button allows you to show alerts on the current selection.
Delete or Abort Job Button	Clicking this button allows you to abort active jobs.
Show Scheduled Jobs Button	Clicking this button displays a specified number of scheduled jobs. The number is determined in the Options Settings Jobs tab under Maximum # of Scheduled Jobs to show for each server.
Show Active Jobs Button	Clicking this button displays all active jobs.
Show Completed Jobs Button	Clicking this button displays a specified number of completed jobs. The number is determined in the Options Settings Jobs tab under

Exit Button

Maximum # of Completed Jobs to show for each Server.

This button exits ExecView.

The ExecView Views

ExecView presents its information to you in the form of two main sections called views. The left view, titled Servers and Devices, gives you an icon-based look at each Windows NT computer running Backup Exec and their associated backup devices on the enterprise. This view can be configured to show either a particular set of backup servers running Backup Exec on the Windows NT enterprise, or it can be configured to display all of them.

The right view is titled Jobs: Scheduled, Active and Completed Jobs. It presents in detail all jobs that are scheduled, active, or completed.

The vertical bar separating the two views is called the Views Resize Bar.

The Servers and Devices View

The Servers and Devices View displays, in a hierarchical structure, all backup servers running Backup Exec that you have selected for monitoring. It also displays backup devices attached to each backup server.

The first time you start ExecView, you will be prompted to select the backup servers to include in the list of devices to be monitored.

Icons

The following icons are used to represent backup servers, backup devices, and Alert conditions.

The Globe Icon	<p>The Globe icon represents the top of the hierarchical tree structure when looking at the graphical representation of the backup servers and devices.</p> <p>Double-clicking the icon brings up the Backup Server List dialog box.</p>
The Backup Server Icon	<p>This icon represents the name of a backup server running Backup Exec on the enterprise. The number in () represents the version.</p> <p>Double-clicking the icon brings up properties for the specified server. If a backup server is not running, the word Unavailable appears next to the machine name and the entire name string appears in gray.</p>
The Backup Device Icon	<p>This icon represents a backup device. The hardware alias assigned to the device appears next to the icon. This name helps to identify the device and appears in upper and lowercase letters.</p> <p>Double-clicking either the icon or icon text brings up the properties for that device.</p>
The Alerts Icon	<p>Alert icons appear whenever a user intervention occurs during an operation. To help you determine the cause of the problem, an Alerts dialog box will appear after you double-click the Alert icon. The dialog box presents information concerning the nature of the problem and allows you to respond to the alert from within ExecView program itself.</p> <p>The Alert icon appears at the device level of the hierarchical tree structure. It also appears at all levels directly above the device. Clicking the Alert icon at any level to displays the Alert dialog box; clicking the alert button on the tool bar also displays the dialog box.</p>

Note: To the left of the globe and backup server icons are small + - boxes. Single-clicking these either expands or collapses the hierarchical view of backup servers on the enterprise. Double-clicking either the machine or device name accomplishes the same thing.

The Jobs: Scheduled, Active and Completed Jobs View

The Jobs: Scheduled, Active and Completed Jobs View displays detailed information concerning each scheduled, active, or completed job.

This view presents the following information:

Field Name	Description
Server Name	The Backup Server attached to the job appears here.
Device Name	This field displays the name of the device assigned to process the job.
Job Name	This field shows the name of each backup, restore, verify, and archive job.
Job Type	<p>This field displays the type of job it is. The job type can be one of the following types:</p> <ul style="list-style-type: none"> <i>None</i> – No job is running. <i>Backup</i> – The backup job is in progress. <i>Verify</i> – The job is being verified. <i>Archive</i> – A backup job is in progress. After the job completes and the files are backed up, the original files are deleted from the hard drive. <i>Catalog</i> – The catalog job is in progress. <i>Restore</i> – The restore job is in progress. <i>Erase</i> – A tape is being erased. <i>Format</i> – A tape is being formatted (only certain tape drives support this feature). <i>Retension</i> – A tape is being retensioned (only certain tape drives support this feature).
Job Status	<p>Shows the status of the operation. The status messages are:</p> <ul style="list-style-type: none"> <i>Success</i> – This message appears after any successful operation completes. <i>Aborted</i> – This message appears after an operation is aborted for any reason. <i>Scheduled</i> – This message appears as a status message for all jobs that are scheduled but have not run. <i>Error</i> – This message appears whenever errors are detected. If this message appears, view the Backup Exec log files for

	<p>help in determining the cause.</p> <p><i>Idle</i> – Indicates an operation is in an idle state</p> <p><i>Prejob Processing</i> – The operation is running a pre-job command.</p> <p><i>Postjob Processing</i> – The operation is running a post-job command.</p> <p><i>Running</i> – Indicates the job is being processed.</p>
Percent Complete	<p>Shows the completion percentage of the job. This dynamic field is updated regularly based on the refresh interval specified under Options Settings.</p>

Start Time	The actual time the operation began or the time the job is scheduled to begin.
Elapsed Time	This dynamic field shows the time elapsed during active jobs or the time taken to complete the job.
Byte Count	This dynamic field shows the number of bytes processed during active or completed jobs.

Color Codes

All jobs appearing in the Jobs view are assigned a color. This allows you to quickly determine the general status of each job simply by glancing at the screen.

Light blue, dark blue, green and red are used in the color coding scheme.

Color Code	Significance
Blue	Signifies active jobs or idle servers.
Black	Signifies successfully completed jobs.
Dark Blue	Signifies scheduled jobs.
Red	Signifies jobs stopped due to errors.

Job Icons

Each job is assigned an icon that appears to the left of each backup server name. These icons are dynamic in nature; they change to match the status of each job.

Job Property Information

Job property information about any job can be obtained in the Scheduled, Active and Completed Jobs view

Displaying Alert Messages

by double-clicking any listed job.

Active Job Information

To reveal active job properties, double-click an Active Job icon. This screen offers detailed information about the active job being processed.

Job Name	Displays the job name entered during the initial set up of the job. The term, Interactive, is also displayed if the operation is in an idle state.
Status	Displays the status of the operation.
Operation	Displays the type of operation currently in progress (Archive, Backup, Catalog, Restore, Verify).
Server Name	Displays the backup server processing the job.
Device Name	Displays the name of the device processing the job. This device is installed at the backup server listed in the Server Name field.
Source	Displays the tape or share being processed.
Destination	Place where the data is being written.
Current Directory	Name of the current directory being processed.
Current File	Name of the current file being processed.
File Statistics	
Directories	Number of directories processed.

Files	Number of files processed.
Bytes	Number of bytes processed.
Est. Total Bytes	Estimated total number of bytes to be processed.
Rate	Number of Mbytes backed up per minute.
Start Time	Time the operation started.
Elapsed Time	The amount of time that has elapsed since the operation started.
Est Rem Time	Estimated remaining time.
Corrupt Files	Number of corrupt files encountered during the operation.
Skipped Files	Number of files skipped during the operation.

Completed Job Information (Completed Job Tab)

The Completed Job Information dialog box presents information in a tabular format. It contains two tabs: Completed Job and Log File.

To view the Completed Job Information properties, use the following steps:

1. From the Jobs view, double-click a Completed Job icon for the job whose properties you want to see.

A Completed Job Information window appears, showing two tabs: Completed Job and Log File. Completed Job appears first as the default.

This window offers detailed information about the completed job.

Job Name	Displays the job name entered during the initial set up of the job.
Job Type	Displays the type of operation that was performed (Archive, Backup, Catalog, Restore, Verify).
Log File	Displays the associated log file.
Status	Displays the status of the operation.
Server Name	Displays the backup server that processed the job.
Device Name	Displays the name of the device that processed the job. This device is attached to the backup server listed in the Server Name field.
File Statistics	
Directories	Total number of directories processed.
Files	Total number of files processed.

Displaying Alert Messages

Total Bytes	Total number of total bytes processed.
Volumes	Total number of drives and/or shares processed.
Rate	Number of Mbytes backed up per minute.
Start Time	Time the operation started.
Elapsed Time	The amount of time that the operation took.
Files in Use	The number of open files encountered during the operation.
Corrupt Files	Number of corrupt files encountered during the operation.
Skipped Files	Number of files skipped during the operation.

Completed Job Information (Log File Tab)

To view the Completed Job Information Log File tabs, use the following steps:

1. From the Jobs view, double-click a Completed Job icon for the job whose properties you want to see.

A Completed Job Information window appears, showing two tabs: Completed Job and Log File.

2. Click Log File.

The Log File tab appears.

Note: If the Completed Job Information window is already in the foreground, simply click the tab, Log Files.

The Completed Job Information window offers detailed information about the completed job. The main body of this window allows you to view the log file by using the scroll bars found on the right side of the window. This window offers the following information:

Job Name	Displays the job name entered during the initial set up of the job.
Job Type	Displays the type of operation that was processed (Archive, Backup, Catalog, Restore, Verify).
Log File	Shows the name of the displayed log file.
Status	Displays the status of the operation.
Server Name	Displays the backup server that processed the job.
Device Name	Displays the name of the device that processed the job. This device is attached to the backup server listed in the Server Name field.

Scheduled Job Information

Scheduled Job properties can be displayed by double-clicking any listed scheduled job icon in the right view. This window offers the following information:

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Job Name	The scheduled job name appears here. This name was created during the initial set up of the job.
Job Type	Displays the type of operation currently scheduled (Archive, Backup, Catalog, Restore, Verify).
Status	Displays the status of the operation.
Start Time	The time the job is scheduled to start.
Server Name	Displays the name of the backup server that will be processing the job.
Device Name	Displays the name of the device that will be processing the job. This device is attached to the backup server listed in the Server Name field.

Alerts

Backup Exec uses alerts to inform you of problems or conditions that may appear during a Backup Exec operation. They warn you about hardware errors and tape change notices.

When Alerts occur, they appear in ExecView's Servers and Devices view as warning icons on the tape drive icon where the condition exists. They also appear on the backup server icon that the tape drive is attached to, and on the Global View icon. To determine the actual status of the alert, double-click either the backup server or tape drive showing the alert icon.

Displaying Alert Messages

Alert messages can be displayed by either double-clicking the tape drive icon or name (or the Backup Server icon or name) in which the Alert icon appears, or by single-clicking the device in question and then clicking the Alerts icon on ExecView's menu bar.

Alerts Appearing on the Backup Server Icon

Double-clicking an alert icon that appears on a backup server appearing in the Servers and Devices view presents a dialog box consisting of two tabs:

- Alerts
- Server

The Alerts tab appears as the default with the Server tab recessed in the background. The name of the backup server appears in the title bar.

The Alert Server window allows you to view the actual alert message at the machine running the ExecView program. You can respond to the alert from ExecView by selecting either Respond Yes or Respond No, which may clear the problem, depending on the type of alert condition that appears. For example, when dealing with hardware-related conditions, it may be necessary to move to the device in question and fix the problem there.

This dialog displays the following information:

Alerts	Displays the device name and the backup server where the alert condition is located. Also tells you how many alert conditions there are at this particular backup server.
Information window	This area of the dialog box presents you with the actual alert message. This same message will be displayed in the instance of Backup Exec running on the backup server.
Response buttons	<p>These buttons are dynamic in nature, based on the type of response needed. The response button types are:</p> <ul style="list-style-type: none"> • Respond OK • Respond Yes • Respond No • Respond OK • Respond Cancel • Respond Abort • Respond Ignore • Respond Disable

The Server dialog box appears after you click its tab. This tab presents you with the following information:

Status	This shows the current status of the backup server.
Description	This is the default description of the server provided by Backup Exec.
Version	This is the version of the Alert system service running on the backup server.
Server Start Date and Time	The actual date and time the server was first started.
Current Server Date and Time	The current time and date on the remote backup server.
Statistics	

Number of Devices	This states the total number of tape drives connected to the backup server.
Number of Active Jobs	This states the number of active jobs presently running on the backup server.
Total Number of Alerts since Server Startup	Total number of alerts since this server was booted.
Total Number of Jobs Completed since Server Startup	Total number of jobs this server has completed since it was booted.

Alerts Appearing on the Device Icon

Double-clicking an alert icon that appears on a backup server tape drive presents a dialog box consisting of two tabs:

- Alerts
- Device

The Alerts tab appears as the default with the Device tab recessed in the background. The name of the tape drive along with the backup server it is attached to, appears in the title bar.

This dialog box allows you to view the actual alert message at the machine running the ExecView program. You can respond to the alert from ExecView by selecting either Respond Yes, Respond No, Respond OK, Respond Cancel, etc. which may clear the problem, depending on the type of alert condition that appears. For example, when dealing with hardware-related conditions, it may be necessary to move to the device in question and fix the problem there.

This dialog displays the following information:

Alerts	Displays the device name and the backup server where the alert condition is located. Also tells you how many alert conditions there are at this particular backup server.
Information window	This area of the dialog box presents you with the actual alert message. This same message will be displayed in the instance of Backup Exec running on the backup server.
Response buttons	<p>These buttons are dynamic in nature, based on the type of response needed. The response button types are:</p> <ul style="list-style-type: none"> • Respond OK • Respond Yes • Respond No • Respond OK • Respond Cancel • Respond Abort • Respond Ignore • Respond Disable

The Device dialog box appears after you click its tab. This tab presents you with the following information:

Name	Displays the tape drive name.
Server	Displays the server name that the tape drive is attached to.
Status	Shows the current status of the tape drive.
Active Job	Displays the job the tape drive is presently processing.
Statistics	
Number of Alerts since server startup	Total number of alerts appearing on this tape drive since the backup server it is attached to was started.
Number of Completed Jobs since server startup	Total number of jobs this tape drive has completed since the backup server it is attached to was started.

