

Stellar Phoenix Novell (NWFS)

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Stellar Phoenix Novell (NWFS)

Version 3.0

User Guide



Overview

Stellar Phoenix Novell (NWFS) software recovers data from corrupt volume(s) of a crashed Server. This software is easy and simple to use, and very robust for all kinds of hard drives for Novell Network Partition and Data Recovery.

Stellar Phoenix Novell (NWFS) enables you to access data when volume(s) cannot be mounted. Stellar Phoenix Novell (NWFS) - software can save data to another drive in cases of corrupt volume(s), missing volumes, deleted files, allocation errors and partition loss.

Key Features:

- Novell recovery when the important file data structure(s) has(have) got damaged
- Novell Network Recovery when the volumes are segmented
- Support Multi-Disk Drive- IDE, EIDE and SCSI
- Data recovery even when the Vrepair fails to perform its task
- Recover data from sub allocated data volumes
- Recovery from compressed file and directories is possible
- Interactive user interface with non-demanding nature of prior technical skills
- Structured phase wise analysis for the effective Novell partition recovery
- File Masking
- Disk Imaging
- Save scan
- Search Lost Volume
- File Filter
- Save data in FTP
- Save data in Archive mode
- Marked Compressed files



Stellar Phoenix Novell (NWFS)

Getting Started

Stellar Phoenix Novell (NWFS) software recovers data from Netware partitions. It supports Novell Netware 3.1 and later and Traditional Volumes (NWFS). This software provides you three different linking modes.

You can apply filter to search for files in a Netware partition. In addition, you can find file from the recovered files and apply mask to narrow the search result.

You can also recover compressed data from Netware partitions.

- [System Requirements](#)
- [Installation Procedure](#)
- [User Interface](#)
- [Order and Register](#)



System Requirements

These are the minimum system requirements:

- **Operating System:** Windows 2000, Windows XP and Windows Vista
- **RAM:** Minimum 128Mb (Recommended 256 Mb)

Supported Novell NetWare Versions

- Novell Netware 3.1 and later

Supported Novell NetWare File System(s)

- Traditional Volumes (NWFS)

System Requirement for un-compressing Compressed Data

- Novell NetWare server preferably with same version or a higher release
- Novell Client with Netware Logon configured
- A separate hard disk to store compressed data(might require)

Note: The hard disk of the working machine will be used to save the data recovered from the crashed drive.



Installation Procedure

Attach the crashed hard disk as per the instructions mentioned in previous sections, run setup.exe from Stellar Phoenix software CDROM or diskette. If you have downloaded Stellar Phoenix from www.stellarinfo.com or from a download engine, run the application stelnet.exe file from windows explorer to begin the installation process on the working machine.

Set up launches the installation wizard; follow the steps of the wizard. Create a desktop shortcut and create an entry in program groups menu. The default path where software is installed is C:\Program Files\Stellar Phoenix Novell\

Notes:

- Install Stellar Phoenix Novell (NWFS) in a different partition other than the partition from which you are trying to recover data. Since installing on the same partition may result in overwriting of lost data and can cause permanent damage.
- Ensure that you are logged in as administrator before initializing setup, as the software installation requires administrator rights in Windows NT/2000/XP.



Configuring Default Options

You can configure the default options of the Stellar Phoenix Novell (NWFS) software to define properties that should be applied every time you start the software.

To configure default options of Stellar Phoenix Novell (NWFS):

- Click **Tools** and select **Advance Settings**. In the Advance Settings dialog box select the required options:
 - Check the **Check for Latest Updates at Startup** checkbox to receive latest update when you start the software.
 - Check the **Search for Known File Types (i.e. Signature Search) during Advance Scan** checkbox to search data according to known file types
 - Check the **Save Log Before Closing the Application** checkbox to save the log file of processes. Click Browse to specify the location where log files should be saved by default.
 - Specify the number of read attempts that should be taken while searching for data



Order and Register

To know how to order and register:

- [How to Order?](#)
- [How to Register?](#)



How to Order

The software can be purchased by making payments online using a credit card. Please visit <http://www.stellarinfo.com/disk-recovery-prices-novell.htm> for more information and to place an order.

Alternatively, if the demo version is installed then you can register the demo version. To register the demo version click **Help** and select **Order Stellar Phoenix...** to start the registration process.


Once the payment is complete, an activation serial number along with activation details is sent through email. This activation serial number is required to register the software.



How to Register



Notes:

- If the software is downloaded from <http://www.stellarinfo.com/disk-recovery-prices-novell.htm> (i.e., ESD version), for the full functionality, the product must be activated using Serial Number (received through email after purchasing the product).
 - If the software is installed using the product installation CD (i.e., BOX version), hardware lock [] is mandatory for the functioning of the software which is available with the software kit.
-

To register the software:

- **Over Internet**

The product can be registered over the Internet after purchasing the serial number.

To register the software:

1. On the Menubar, click **Activation** and click **Activate Online**. The Stellar Phoenix Novell (NWFS) dialog box opens.
 2. Click **Yes**. The software checks for the Internet connection. After successful connection, software registration wizard will appear. Click **Next**.
-



Note: If Internet connection is unavailable, user can also register the software by sending email. For more information click [here](#).

1. Click **Next**. Type the Serial number (received through email after purchasing the product) in the Serial number text box.



2. Click **Next**. The software would automatically communicate with registration server and would register the software. Click **Finish** to complete the registration process.

- **Using Email**

If the software could not communicate with the server, while registering the software over Internet, an error message pops up. Click **OK**, for registering through email.



To register by using email:

1. The registration wizard for sending the authorization request opens.

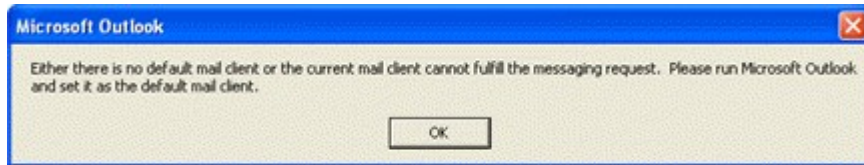


2. Leave the Manually send email checkbox option unchecked and click **Next**. Type the e-mail address in the text box to which the unlocking code has to be sent. Click **Next**.

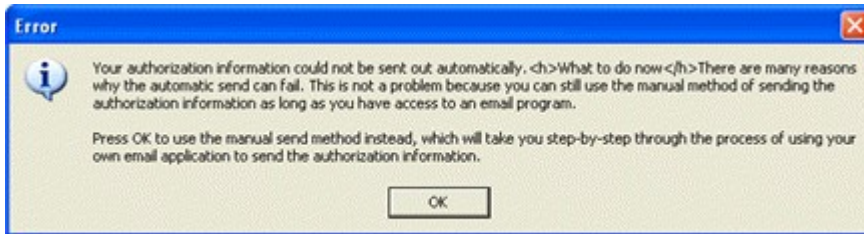


1. The email address verification window appears. Click **Yes**, if email address is correct. The software automatically launches the default email client, and sends an email containing the unique site code with registration request to the registration server. If the registration wizard could not launch the default email client, following messages appear.

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2. Click **OK**. The Error dialog box opens. Click **OK** to start the process manually.



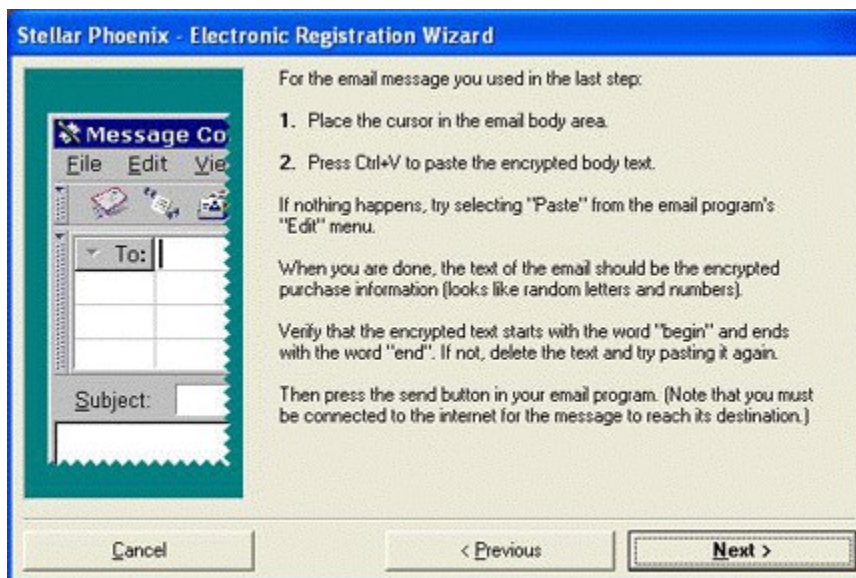
3. The window shown below appears.



4. Open the email client such as, Outlook Express, MS outlook, Eudora and create a new message. Place the cursor in the box labeled To and press **CTRL+V** to paste address. If it does not work, right-click on the **To** box and select **Paste** from the popup menu. The To box will contain the address. Click **Next**.



5. Place the cursor in the box labeled Subject in the same message window and paste (method same as above) the text. The Subject box will contain the text.
6. Click **Next**, do the same process as mentioned to paste the encrypted text content in the body of the message.



7. Click **Next** to finish the procedure and send the email.



Note: Ensure that the content of the email sent for automatic authorization have the details as mentioned above. If they are incorrect, the server will reject the mail

registration request.

8. If the process is successful, following window will appear.



After processing the email, registration server would send an email containing unlocking code/site-key.



Note: In case wizard is not able to launch the default email client, it automatically shifts to the manual process for sending the activation authorization request.

- **Without Internet**

To register without Internet connection:

1. If the software is registered without Internet connection, following window pops up. Enter the Serial Number (received through email) and click **Next**.



2. Click **Finished** to complete the manual registration.

Manual registration is complete, software would create a PHX_REG.txt file on the desktop. This file has to be mailed to register@stellarinfo.com. After verifying the details, the unlocking code/site key is sent through email.

To register the software manually (after receiving the site-key):

1. Click **Activation** and select **Manual Registration** in the Menubar.
2. Type the Site Key and click **Validate** to register the software.



Note: All Manual registration process will take maximum of one business day for completion.

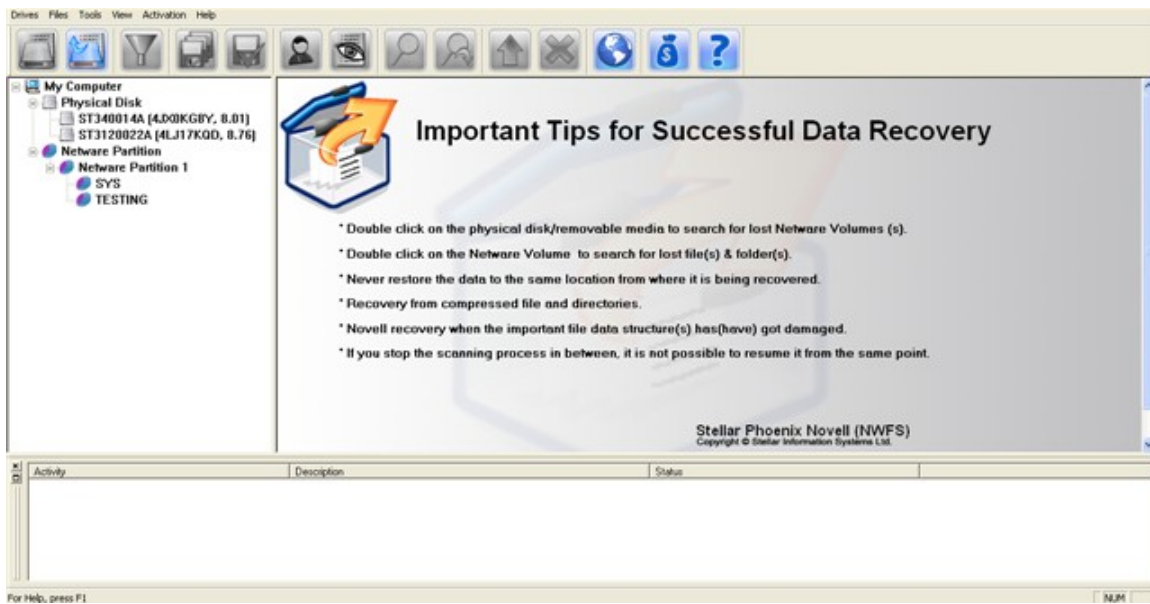
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Stellar Phoenix Novell (NWFS)

User Interface

The main user interface of Stellar Phoenix Novell (NWFS) is as shown below:



View:

- [Menu Bar](#)
- [Toolbar](#)
- [Log Window](#)



Menu Bar

Menu bar of Stellar Phoenix Novell (NWFS) consists of the following:

Drives Menu

Show Drive List	To create drive tree using existing drive list
Refresh Drive List	To create and show drive list again
Open Drive Using Scan Information	To open the scan information saved before
Open Image File	To open the image file created by the software
Exit	To close the application

File Menu

Recover All	To recover all files from the scan result
Recover Selected	To recover the selected files from the scan result
Add File Filter	To include or exclude files based on given criteria
Remove File Filter	To remove the filter

Tools Menu

--	--

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Stop Current Process	To halt the current process
Save Scan Information	To save the scan result
Advance Settings	To set the advanced features
Find	To search files of a specific type from the scan result
Find Next	To select the next file of the type specified in the Find command
File Mask	To view/recover specific file types based on used-defined criteria
Show Original List	To generate the complete list of lost/deleted files in the tree structure
Select All	To check all the files in the tree structure
Unselect All	To clear all the check boxes
Save Log	To save log information
Clear Log	To clear log information
Change Current Linking Mode	To select the file type
File Preview	To view the file contents

View Menu

Toolbar	Show / Hide toolbar
Status bar	Show / Hide Status bar
Message Log	Show / Hide log window
Go Up	To go one level up to the parent directory of the selected folder
Large Icon / Small Icon / List / Details	To change the preview of the files in the right panel
Arrange	To arrange the files in the right panel by Name, Type, Size, Modified date, Created Date, Last accessed date and File ID

Activation Menu

Activate Online	To activate the software which has been purchased
Manual Registration	To register the software manually

Help Menu

Help Topic	To open user guide
Order Stellar Phoenix....	Purchase details of the product
Update Stellar Phoenix....	Opens the update wizard, to check for the latest version

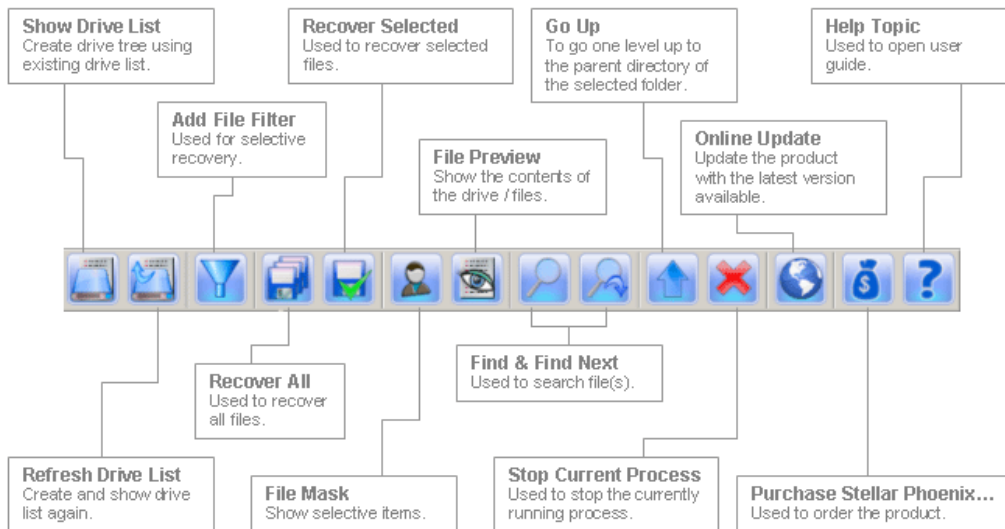
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Email Stellar Support	Opens the outlook express, to send the email
View Support Section	Opens Stellar support section webpage
View Knowledge base articles	Opens knowledge base article webpage
Generate a Ticket	Opens the login page, to submit ticket
Show Tip of the day	To view tip of the day.
About Stellar Phoenix....	To view the general information regarding the software



Toolbar

The toolbar of Stellar Phoenix Novell (NWFS) consists of the tools as shown in figure below:





Log Window

Log window is used to display useful information about ongoing activity. In Stellar Phoenix Novell (NWFS) log window displays - Activity, Description and Status.

To save the information shown in the log window, select **Save Log** on the Tool menu.

To clear the information from the log window, select **Clear Log** on the Tool menu.



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Using the Software

Stellar Phoenix Novell (NWFS) has many options that help you to recover lost or deleted data from Netware partitions. This software recovers almost all data from corrupted volumes and allows you to save at either in local hard disk or to an FTP server.

In addition, you can create image of partitions or entire hard disk.

- [Recovering Novell Data](#)
- [Using Advance Options](#)
- [Creating Image](#)



Recovering Novell Data

You can recover and save data of Netware partitions by using Stellar Phoenix Novell (NWFS) software. You can save all or individual files as per your preference. In addition, you can recover compressed data from Netware partitions.

- [Recovering data](#)
- [Saving data](#)
- [Recovering compressed data](#)
- [Searching Netware volumes](#)
- [Saving Scan Information File](#)
- [Linking mode](#)

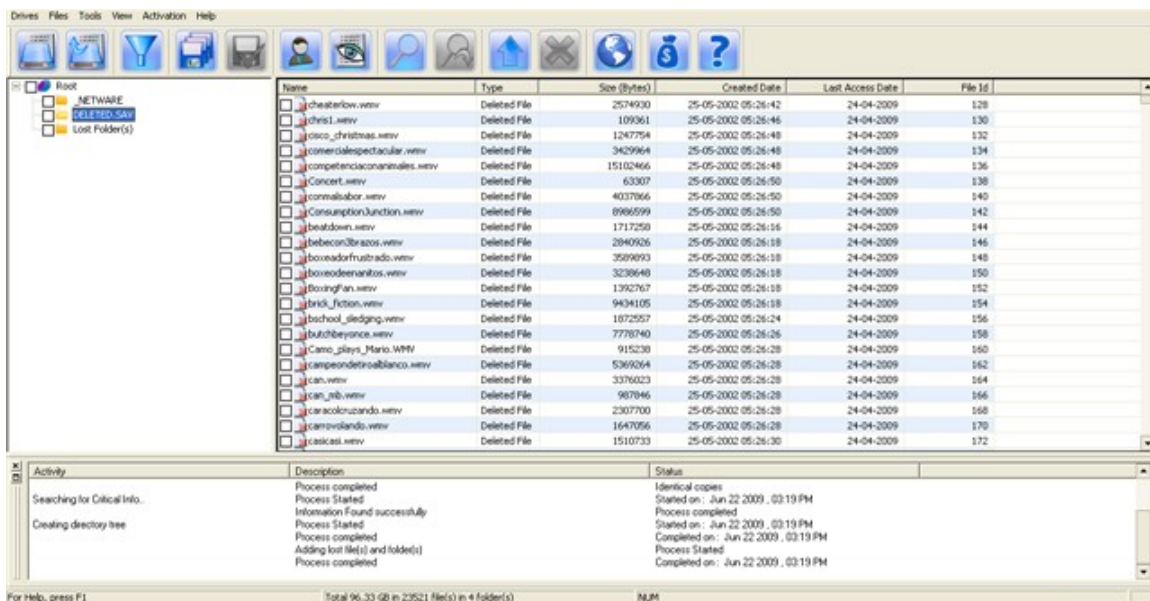


Recovering Data

Stellar Phoenix Novell (NWFS) software shows all existing Netware partitions when you start the software. However, if no partition is shown you can [search for Netware partitions](#) in the attached drives. You can recover all data from a corrupted or lost Netware partition by using Stellar Phoenix Novell (NWFS) software.

To recover data:

1. Under My Computer tree, double-click on a Netware partition to open Select Appropriate Action dialog box.
2. Select Appropriate Action dialog box, click **Quick Recovery** icon to start scanning process. You can also [specify filter](#) such that only that files should be searched during scanning process that are specified in the filter.
3. All files that are recovered after completion of scanning process will be listed in Stellar Phoenix Novell (NWFS) window in a three-pane structure. In the left-pane, all folders will be listed under Root tree. All files that are under folders will be listed in the right-pane with details. Bottom-pane shows the information about processes such when a process is started and finished.



To preview a file:

1. Select a file in the right-pane.
2. Click **Preview** icon on the toolbar or on the Tools menu select **File Preview**.

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Note: You can change the name of a file by right clicking on file name and select **Rename**.



Saving Recovered Files

You can save recovered files to local hard disk or to a File Transfer Protocol (FTP) server. You can save individual or multiple files as per your preference. In addition, you can save recovered files in zip folder that is in compressed form.

To save recovered file:

1. If you want to save all files that are recovered click **Recover All** icon on the toolbar. If you want to save individual files then check the checkboxes of files that needs to be saved and then click **Recover** icon on the toolbar. You can also [specify mask](#) to narrow the scan result. In addition, you can find files from the list of recovered files by using [find](#) option.
2. In the Choose destination & Recovery option dialog box, select the required options:
 - **Recover to local drive:** to save files to the hard disk. Click **Browse** to specify the location.
 - **Recover to FTP server:** to save files to an FTP server. Click FTP Options to specify Server Name / IP Address, User Name, Password for logon to FTP server. In the FTP Settings box, click Browse to specify the location where files should be saved.

The screenshot shows a dialog box titled "FTP settings..". It contains the following elements:

- A text input field for "Server Name / IP Address".
- A text input field for "User Name :".
- A text input field for "Password :".
- A "Browse FTP.." button located below the password field.
- Three buttons at the bottom: "OK", "Cancel", and "Help".

- Under File Creation Option box, check the Create zip file checkbox to save files as zip file. Select either Zip each file individually or Zip to a single file option. The former will save files in individual zip folder whereas the latter will save all files in a single zip folder.
- Under Recovery Option box select any one of the option:

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- All file & folders (Exclude deleted files & folders)
 - All file & folders (Include deleted files & folders)
 - Only deleted files & folders
3. Click **OK** after selecting the required options.



Recovering Compressed Data

Note: This procedure is not applicable for version earlier than 4.x

After recovering data from the crashed server(s) many files will not open, as the files were earlier stored in compressed form that is supported by Novell NetWare version 4.x and later.

These are the steps to un-compress the recovered data:

Pre-Requisites

- You will need another working Novell NetWare server preferably with same version or a higher release.
- Novell Client with Netware Logon configured.

Procedure

1. Attach the hard drive having the recovered compressed data with the Novell client's hard drive.
2. Log on as an administrator.
3. Upload data in a folder of a volume of the working server as shown in Fig (A).

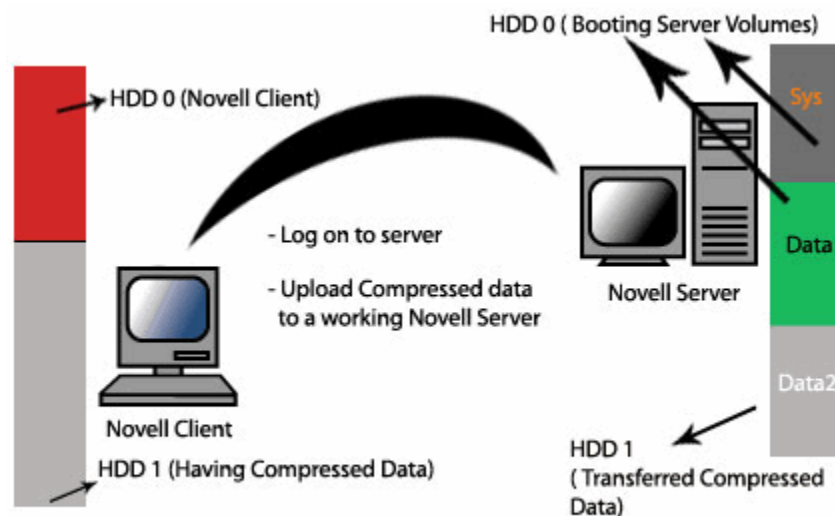
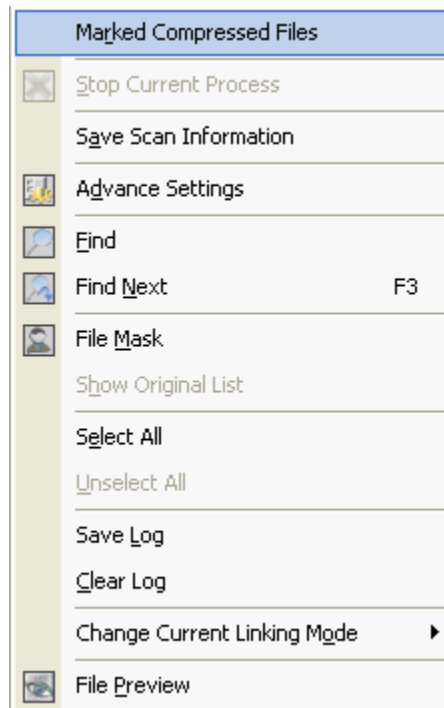


Fig (A)

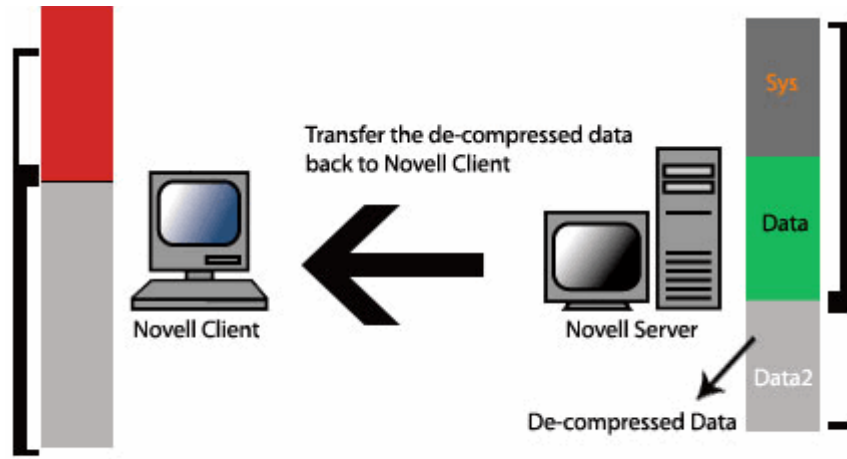
4. Shut down the server.

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5. Take out the drive HDD1 from the Novell server that contains uploaded compressed data and then attach this HDD1 as a secondary drive to the machine where Stellar Phoenix Novell software is installed.
6. Once the Drive is attached start Stellar Phoenix Novell, select the volume having compressed data, and analyze the volume, the software would display all data.
7. Select all the compressed file(s) and go to Tools menu and select the option "**Mark Compressed File(s)**" as shown in the figure below



8. Once the process is complete, remove the hard disk and connect it to the server. Boot the server and client machine again.
9. Copy the un-compressed data back to the client in a new folder and store the data in their respective user folders for the users to verify the data as shown in Fig (B)



Fig(B)

Note: Do not use the crashed server drives unless the total data has been verified to the user satisfaction.



Searching Network Volumes

The existing Network partitions will be automatically listed in the left-pane when you start Stellar Phoenix Novell (NWFS). However, you can also search the partitions in the attached hard disk.

To search Network volumes:

1. Under My Computer tree, under sub tree Physical Disk, double-click on the name of hard disk to open Select Appropriate Action dialog box.



2. In the Select Appropriate Action dialog box, click **Search Volumes** icon.
3. In the Search Logical drive dialog box, select either **Search Network Partition** or **Search Volume Table** icon to search for Network partition and volumes respectively. All partitions or volumes that are found as the result of scanning process will be listed in a new tree.





Saving Scan Information

You can save scan result of any scanning process as a .dat file. You can save scan result of a complete or incomplete process. If you stopped a scanning process, you can save scan information up to that point. However, you should perform complete scan, and then save scan result.

Saving scan information saves your time. Since, you will not need to scan the same drive again. You can resume recovery by selecting the .dat file.

To save scan information:

1. On the Tools menu, select **Save Scan Information**.
2. In the Save scan information dialog box, browse to the location where .dat file should be saved. Type the name of the image file in the File name textbox. Click **Save**.



Linking Mode

Stellar Phoenix Novell (NWFS) provides three linking mode:

- FAT1
- FAT2
- Contiguous

Stellar Phoenix Novell (NWFS) processes drive if there is no FAT table present. This may be useful if the drive has been reformatted and a new FAT table is created and the previous drive is deleted. In this case, it is reasonable to recover files from the previous drive without processing the new and irrelevant FAT table. All files will be recovered as continuous byte chains beginning from their start cluster by selecting contiguous mode. Unfragmented files will be recovered successfully. If it is FAT1 or FAT2, Stellar Phoenix Novell (NWFS) uses the first or second FAT table copy, respectively.

You should change linking mode:

- When all the recovered file(s) have a common size i.e. 4KB, 8KB, and 16KB respectively.
- When recovering data from FAT1 and FAT2 is not producing the desired results.
- When the drive is re-formatted and the results are not as desired.



Using Advanced Options

Stellar Phoenix Novell (NWFS) provides you many options that can be applied at different stages during recovering saving data.

- [Applying filter](#)
- [Applying mask](#)
- [Finding files](#)



Applying Filter

Filters allow you to select files based on extensions. You can include, exclude or remove files by applying filter. Scanning process shows every file that is found during the process. You can apply filter to save only required files.

To apply filter:

1. When scanning process is completed. Click **Filter** icon on the toolbar.
2. A list of extensions categorized according to file types is available in drop-down box.
3. Select a group from **Enter Filter basis** list box. Click **Add**. All extensions under that group will be listed in bottom box.

- **Remove**

This option removes the selected extension from the left pane. Select an extension and click **Remove**. Files that are having the same extension will not be included when you save recovered files.

- **Include**

This option includes the selected file extension. Select an extension from left-pane and click **Include**. Files that are having the same extension will only be included when you save recovered files. All files with extension other than the selected extension will not be included when you save recovered files.

- **Exclude**

This option excludes the selected file extension. Select an extension from left-pane and click **Exclude**. Files that are having the same extension will excluded when you save recovered files. All files with extension other than the selected extension will be included when you save recovered files.

You can also add a file extension other than the available extensions. Type in the Enter File Basis list box and click **Add**.



Applying Mask

Mask allows you to narrow the scan result. After completion of scanning process, all scanned files are listed in a tree structure. You can apply mask to create a new tree structure from the existing tree structure according to file types. The new tree structure will only contain the selected file types. For example, you want to view and recover only Microsoft Word documents. Scanning process shows you all scanned files in a tree structure. You can apply mask to create a new tree structure that will contain only Microsoft Word documents.

You can view the original tree structure that is created after scanning by removing mask. This will automatically shows the original tree structure shown after scanning.

To apply mask:

1. When the scanning process is completed, click **Mask** icon on the toolbar.
2. In the Set File Mask screen, define values
 - Files of type:** Type the extension of required files such as .doc, .avi in the textbox. The new tree will only contain files that are specified in this box.
 - Check the required checkboxes:
 - Match Case:** to search according to the typed text
 - Deleted File:** to search the typed text in deleted files' name
 - Existing Files:** to search the typed text in existing files' name
 - Size from (KB):** to search files according to file size. Type the limits in textboxes.
 - Date:** To search files according to date
 - Date list box:** select any of the three option from date list box - **Created Date, Last Access Date, Modified Date**
 - in the last months:** specify number of months in this box
 - in the last days:** specify number of days in this box
 - between:** specify time period
3. Click **OK**. A new tree structure will be shown according to the values defined in mask screen.



Notes:

- You can define one or all values in Mask screen.
 - You can add multiple options by using colon such as *.avi:png
 - In the Files of Type textbox, the *. should be present to enable OK button, whether, any file extension is typed or not in this textbox.
-



Finding Files

You can search files in the list of files shown after scanning process. If you want to recover specific files from the list of scan result you can use Find button. This option provides you various options for searching required files.

To search files:

1. In the Data Recovery screen, click **Find** icon on the toolbar.
2. In the Find screen, type text in the **Enter file type(s) delimited by semi-colons** textbox. Check the **Deleted File**, **Match Case** and **Existing Files** checkboxes such that typed text should be searched in these file names. Click **Search Now**.
3. File that contains the typed string will be highlighted in the Data Recovery screen. Press **F3** to highlight the next file that contains the same or relative text.

Advanced Options

Advanced option of Find option enables you to search files according to the date criteria and size of file. You can define size of file in KB textbox such that search should be performed based on defined size. You have two option for size, either the file should not exceed the defined size or at least of the defined size.

Date search provides you three options- Last Access Date, Last Modified Date or Created Date for searching required file. Select **Last Access Date** to search file according to the last accessed date. Select **Last Modified Date** to search file according to the last modified date. Select **Created Date** to search file according to the creation date of file. In addition, you can specify number of days, number of months or time interval for any of the selected date option.

To search files by using advanced options:

1. In the Find screen, click **Advanced**.
2. Check either

1. **Size Checkbox**

Select this checkbox to search required file according to its size. Click **Size** list box and select either **at least** or **at most** option. Type numeral number in the KB textbox.

1. **Date Checkbox**

Select this checkbox to search required file according to date. In the date list box, you can select any of the option - **Created Date**, **Last Access Date** and **Modified Date** from date list box. After selecting the required option, select any of the option - **in the last month** to specify number of months, **in the last days** to specify number

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of days and **between** to specify a time interval. Use up and down button to increase or decrease numbers or type in boxes.

3. Click **Search Now**. The file, if found, will be highlighted in the Data Recovery screen.
-



Notes:

- You should specify text in the **Enter file type(s) delimited by semi-colons** textbox to enable the **Search Now** button.
 - You can also apply Size and Date options in a single search.
-



Creating Image

You can create image of the local hard disk, attached hard disk and of Netware, partitions by using create image option of Stellar Phoenix Novell (NWFS).

To create image:

1. In the left-pane, under My Computer tree, double-click either the hard disk or partition of which image needs to be created.
2. In the Select Appropriate Action dialog box, click **Create Image File:** icon. You can also specify region of the selected hard disk or partition. Image will be created of only the selected partition. Click **specified region** link to open Image Selection dialog box. Specify starting and ending sector of the region. Click **OK**.
3. In the Save As dialog box, specify the location where the image file should be saved. Click **Save**.

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