

Smart Data Recovery Enterprise

www.smartpctools.com/network_data_recovery

Quick Start Guide

Recover deleted files and data remotely over the network. Smart Data Recovery Enterprise is a free and easy data recovery solution for network administrators. Undelete files and data remotely without leaving a chair!

Network data recovery is handy when it comes to big offices and large corporations. The demand is there, causing outrageous prices for remote data recovery solutions. Smart Data Recovery Enterprise takes network data recovery onto a new level with a completely free solution to recover deleted files over the network. Don't pay now, and don't pay later!

Smart Data Recovery Enterprise is easy for you and for your users. The powerful technologies used to locate and recover the deleted documents are coupled with a convenient and easy user interface that requires absolutely no prior experience with disks, partitions or file systems.

While giving the user a perfect chance to recover deleted files locally on their own, Smart Data Recovery Enterprise involves system administrators as the last resort. Designed similar to Windows Remote Assistant, Smart Data Recovery Enterprise operates in a similar manner. When the user fails to recover the file, a remote assistance request is being sent to the system administrator. The system administrator gets the ability to list user's disks remotely, scan them for deleted files, and perform the actual recovery.

Scan remote disks for deleted files, locate files by the mask and filter the results to recover exactly what's needed. Smart Data Recovery Enterprise provides a recoverability estimate for each recoverable file, allowing you to quickly find the freshest copy of a file.

Smart Data Recovery Enterprise offers system administrators a free and reliable way to secure corporate networks against data loss that occurs when the users accidentally delete files. The remote recovery allows network administrators to locate and recover deleted files remotely over the network. The best part is that it's completely free to use.

Smart Data Recovery Enterprise addresses the following requirements:

- Scanning for deleted files remotely
- Previewing deleted files on remote computers
- Restoring deleted files remotely

In order to achieve these goals, the system utilizes the TCP/IP protocol. Smart Data Recovery Enterprise is divided into two parts: the Administrator and the Agent. The Administrator controls the process of scanning, previewing, and restoring of deleted files on remote computers, while the Agent performs the actual job of scanning, previewing, and restoring of deleted files.

In TCP/IP networking, a connection always consists of a server and a client, where the client is the one that initiates the connection. In this system, the Agent acts as a client, and the Administrator acts as a server. Effectively, the Agent initiates the connection.

By default, the connection uses TCP port 999.

The system installs the following files.

On the remote computer:

- Agent.exe
- DataRecovery.dll
- Recovery.avi
- config.ini (will be created automatically if missing)

On the administrator computer:

- Admin.exe
- Admin.ini (will be created automatically if missing)

Network requirements:

- TCP/IP protocol must be installed on both computers
- There must be no firewall blocking the TCP port used by the system between the remote (Agent) and Administrator computers.
- The Administrator computer must have an IP address that is visible to the remote (Agent) computer. For example, it is almost impossible for the Agent to connect to an Administrator that is behind a NAT server unless the Administrator provides the correct mapping of a TCP port to an IP address.

Chapter 1

Agent Software

This chapter will guide you through the configuration of the Data Recovery Agent

Activating Data Recovery Agent

Please perform the following steps to activate the Data Recovery Agent.

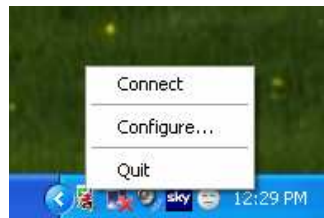
- 1.** Press Start – Programs – Smart Data Recovery Net.
- 2.** Click *Run Data Recovery Net Agent* to launch it.
- 3.** The Data Recovery Agent icon will be shown in the system tray.



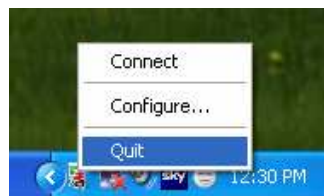
Closing Data Recovery Agent

Perform the following steps to close the Data Recovery Agent.

1. Right-click on the Data Recovery Agent icon in the system tray.



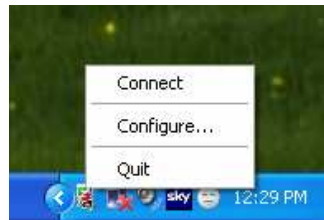
2. Click *Quit*.



Configuring Data Recovery Administrator Address

In order to connect to the Data Recovery Administrator, the Data Recovery Agent needs to know the address of the computer or server of the Data Recovery Administrator. Please perform the following steps to specify the address of Data Recovery Administrator.

1. Right click on the Data Recovery Agent icon in the system tray.



2. Click *Configure*.



3. Enter the address of the Data Recovery Administrator in the *Admin address* box, and then in the *Port* box enter the port number where the Data Recovery Administrator is listening.



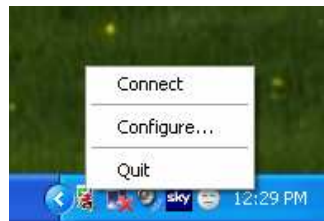
4. Note that you can enter the host name instead of an IP address. For example, you can enter *jupiter.solarsystem.com*, *admin01*. But make sure that your network is configured properly to use this naming system.
5. Click *Apply* to apply changes, or *Cancel* to discard.

Connecting to Data Recovery Administrator

You can connect to the Data Recovery Agent to Data Recovery Administrator manually or automatically. This section will guide you through creating the connection manually. Configuring the connection automatically will be explained in following sections.

Perform the following steps to create a manual connection from the Data Recovery Agent to the Data Recovery Administrator.

1. Right-click on the Data Recovery Agent icon in the system tray.



2. Click *Connect*.



3. If an IP address and listening port of the Data Recovery Administrator have been specified correctly, and if it is online/active, then the connection will be created and the *Connect* menu item will be renamed into *Disconnect*.



Automatically Connecting to Data Recovery Administrator

This section explains how to configure the Data Recovery Agent automatically in order to connect to the Data Recovery Administrator.

1. Right-click on the Data Recovery Agent icon in the system tray.



2. Click *Configure....*



3. Select *Automatically connect to admin.*



4. Click *OK* to apply changes, or *Cancel* to discard. Continue to the next step only if you choose to accept the modification.
5. Close the Data Recovery Agent.
6. Run the Data Recovery Agent again. This time, the Data Recovery Agent will try connecting to the Data Recovery Administrator automatically.



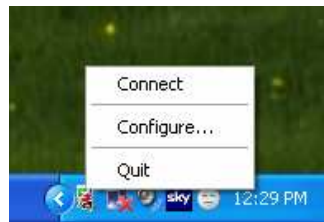
If the address and listening port of the Data Recovery Administrator have been specified correctly, and it is online/active, then the connection will be created and the *Connect* menu item will be renamed into *Disconnect*.

If the address or listening port is not configured properly, or if the administrator is not online/active at the time, the Data Recovery Agent will try making a connection again in 2 minutes. This will be repeated until a connection is successfully created or the Data Recovery Agent gets terminated.

Keeping Connection

Sometimes, a connection between the Data Recovery Agent and the Administrator gets broken unexpectedly. This could be caused by a network failure, shutdown of the computer running Data Recovery Administrator, or the termination/deactivation of the Data Recovery Administrator. You can configure the Data Recovery Agent to attempt connecting to the Administrator every two minutes if a connection has been created previously.

1. Right-click on the Data Recovery Agent icon in the system tray.



2. Click *Configure....*



3. Select *Keep connection*.

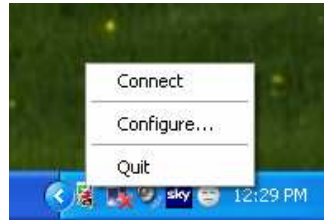


4. Click *Apply* to apply, or *Cancel* to discard.

Running Data Recovery Agent Automatically

You can easily configure the Data Recovery Agent to run automatically when the system starts and a user logs on to the system. Perform the following steps to run the Data Recovery Agent automatically.

1. Right-click on the Data Recovery Agent icon in the system tray.



2. Click *Configure....*



3. Select *Keep connection*.



4. Click *Apply* to apply or *Cancel* to discard. Only continue to the next step if you clicked *Apply*.
5. Close the Data Recovery Agent.
6. If you want to test the new setting, restart your PC.
7. After you log on to your PC, you will see the Data Recovery Agent already active in the system tray.



Chapter 2

Administrator Software

This chapter will guide you through the configuration of the Data Recovery Administrator.

Running Administrator

1. Press Start – Programs – Smart Data Recovery Net.
2. Click *Smart Data Recovery Net* to launch.
3. The main window of Data Recovery Administrator will be displayed.



Activating Administrator

The Administrator cannot receive connections from the Data Recovery Agent if it is not activated. You can see activation status circled with red on the figure below.



When this text displays *Server NOT Active*, the Administrator is not ready to accept connections because it is not yet activated. Otherwise, the Administrator is ready to accept connections, and is already activated.

To activate the Administrator:

1. Click *Activate*.
2. When the activation is successful, the button will be renamed into *Deactivate*, and the text above it will become *Server Active*.

Deactivating Administrator

Deactivating the Administrator disconnects all currently connected Data Recovery Agents and refuses any incoming connections.

Perform the following steps to deactivate the Administrator.

1. Click *Deactivate*.



2. When the deactivation is successful, the button will be renamed into *Activate*, and the text above it will become *Server NOT Active*. If previously there were one or more connected Agent icons, now they are gone.



Scanning Remote Drives

Perform the following steps to scan a remote drive, i.e. a drive on the computer connected with the Data Recovery Agent. Note that the Data Recovery Agent must be already connected to the Administrator prior to doing the procedure.

1. Select the computer that has the drive you are about to scan by clicking on the circled computer icon (see figure).



2. Select the drive you want to scan in the circled drop-down list (see figure).



3. Click *Find* to start scanning.



4. Wait for a while for initial pre-scan operation to be executed.
5. When the scan is running, the progress of the operation will be indicated in the progress bar.



6. You can wait until the scanning operation is complete, or stop the scanning operation whenever you like. To stop the ongoing scan, click Stop.

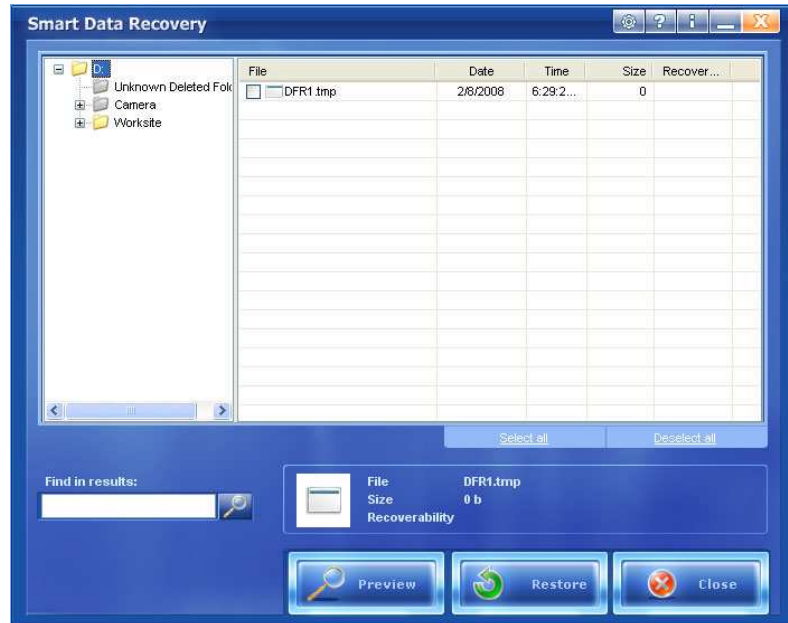


7. If the scanning operation did not find any deleted files, the following dialog will be displayed. Click Close.

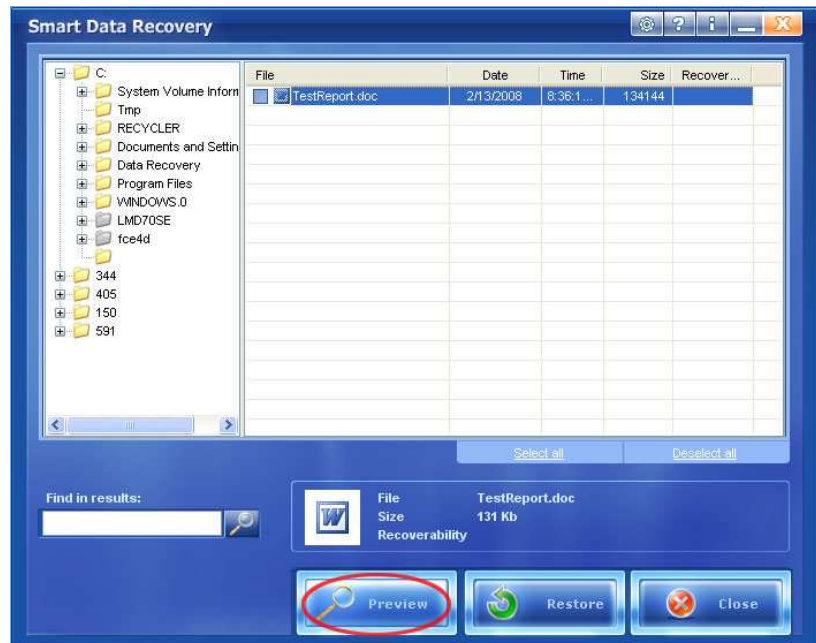
Previewing Deleted Files

Before restoring a deleted file, you can inspect its content. This can be essential for making a decision on whether to restore the file or not. Perform the following steps to preview a deleted file.

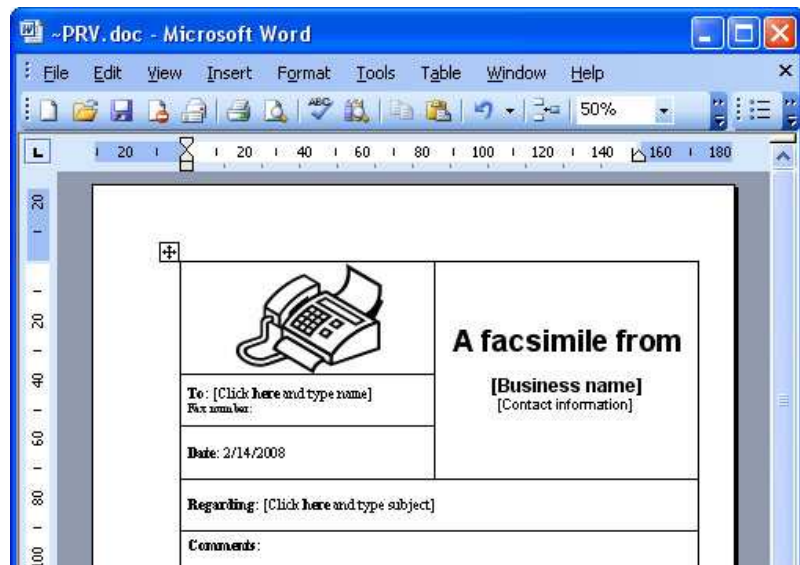
1. Scan the drive until you have been presented with the form that lists the deleted files as shown on the figure.



2. Using the tree on the left, browse to the folder containing the deleted files you are about to recover.
3. Select the deleted file that you want to preview by highlighting it in the list. Click *Preview*.



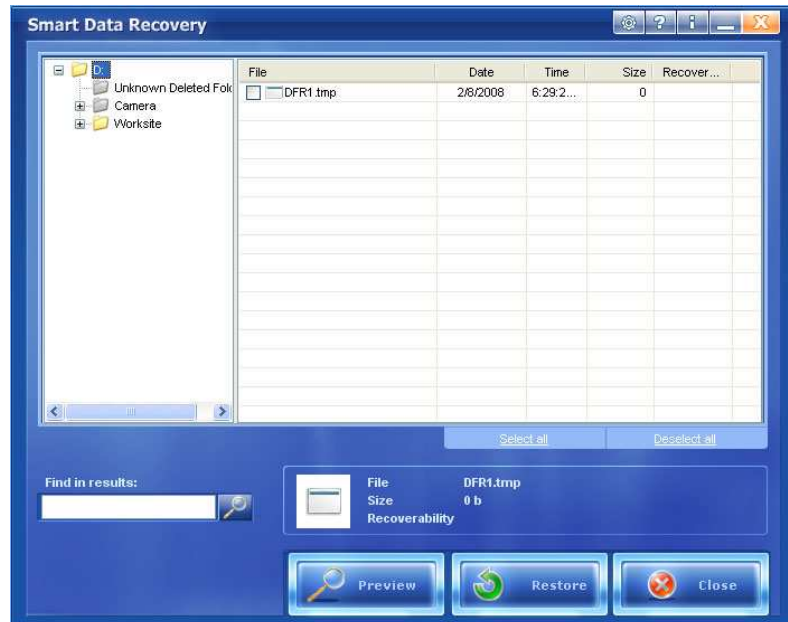
4. The Administrator will open the deleted file using application that is registered to handle the extension of the previewed file. If there is no application registered for it, the Administrator will open Notepad to view the file's content.



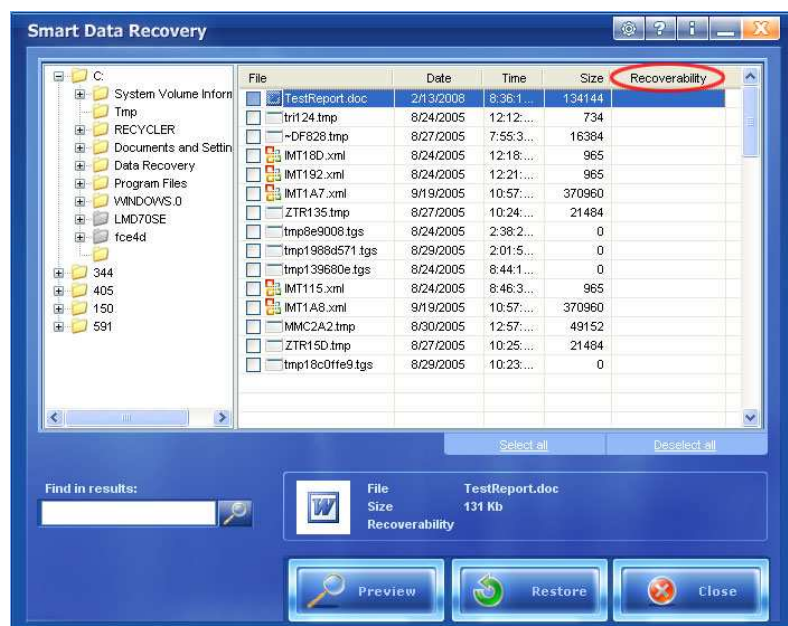
5. Simply close the application that is used to preview the file when you finish previewing.
6. Repeat the steps for each deleted file that you want to preview.

Restoring Deleted Files

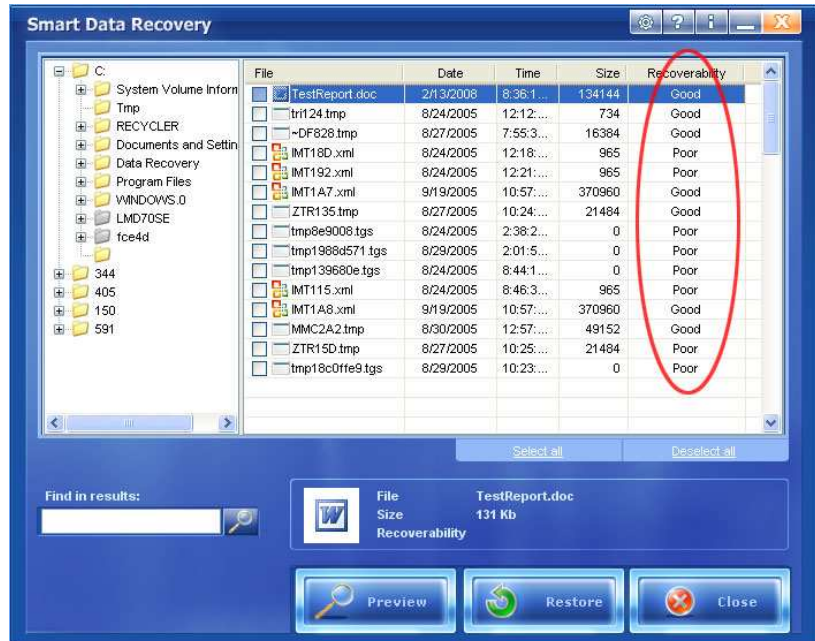
1. Scan the drive until you see the following window.



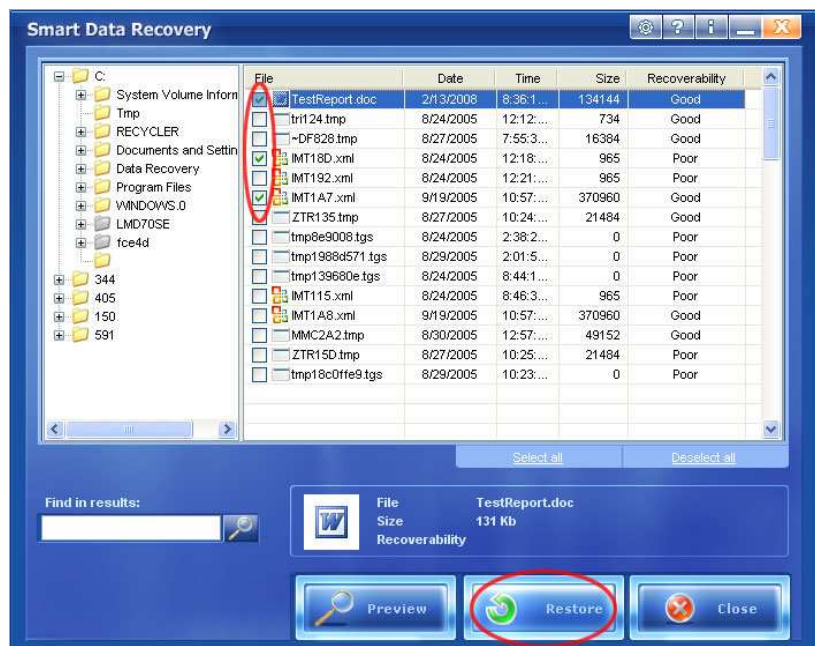
2. Using the tree on the left, browse to the folder containing the deleted files you are about to recover.
3. Before recovering files, you can check the recoverability of each file. Get this information by clicking the *Recoverability* column header (see figure).



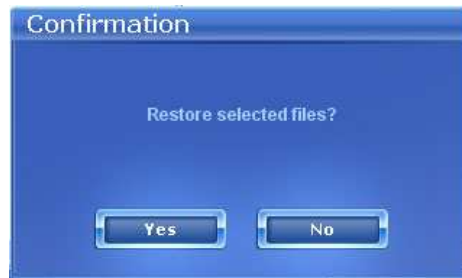
4. After clicking the *Recoverability* column header, the column will be filled with recoverability information.



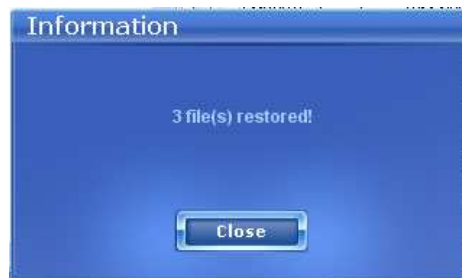
5. Check the files that you want to restore.



- 6.** Click *Restore* to recover the selected files, and click *Yes* to confirm.



- 7.** After the restoration operation is complete, you will be notified with a dialog box.



- 8.** Repeat steps 2 to 7 for every folder.

Run Administrator Automatically

The Data Recovery Administrator can be configured to run automatically when the system starts and a user logs in. Perform the following steps to make the Administrator start with the system.

1. Click *Options*.



2. Select *Autorun*.



3. Click *Save* to apply, or *Cancel* to reject changes.

Activating Administrator Automatically

The Data Recovery Administrator can be configured to activate automatically on startup, meaning it is ready to accept connections from Data Recovery Agents immediately.

Perform the following steps to make the Data Recovery Administrator activate automatically.

1. Click *Options*.



2. Select *Automatically activate*.



3. Click *Save* to apply, or *Cancel* to reject changes.

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