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# **RASport *On-Line Documentation***



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## **Glossary**

Use the Word Search Function in Windows 95 and Windows NT for best results

## **What is RAS (Remote Access Service)**

RAS (Remote Access Service) allows a computer running Windows 95, Windows NT, Windows for Workgroups, or Windows 3.1, to access a Windows RAS Server through a local modem\*.

The Windows NT Server authenticates the user who connects, and then services the session until terminated by the user. During the connection the user can have access to all the services that are normally available to a LAN connected user (depending on what services that the user is authorized to use). This includes file, print, database access and messaging.

All of the manager tools that are available in Windows (program manager, file manager, print and manager) will function under RAS. This also includes the use of [UNC pathnames](#) and conventional DOS based naming.

As conventional modems are used to make RAS connections through public telephone lines, the standard data compression and error correction protocols available on today's high speed modems are supported (V.32, V.32bis, V.42, etc.).

RAS is fully integrated with Windows NT security and authentication.

For further information on RAS consult you Windows NT System Guide®.

[Click here to return to main screen.](#)

\*Other methods of connection are allowed, such as X.25 and ISDN cards. These modes are not supported by RASport.

## **Installing RASport**

**Note: Prior to Installing RASport you must stop the RAS service in Windows NT**

This is done through the Windows NT control Panel. See the Windows NT system guide for information on Services if you have further questions on this procedure.

The installation of RASport is simple, requiring only two main steps. The first step is to have the software placed into the Windows NT Server's hard drive, then to configure the software as a 'Service'. Click on the following topics for a 'walk through' of the procedure.

**Point and Click on each item you need assistance with  
or use the tab key to select an item, then press Enter**

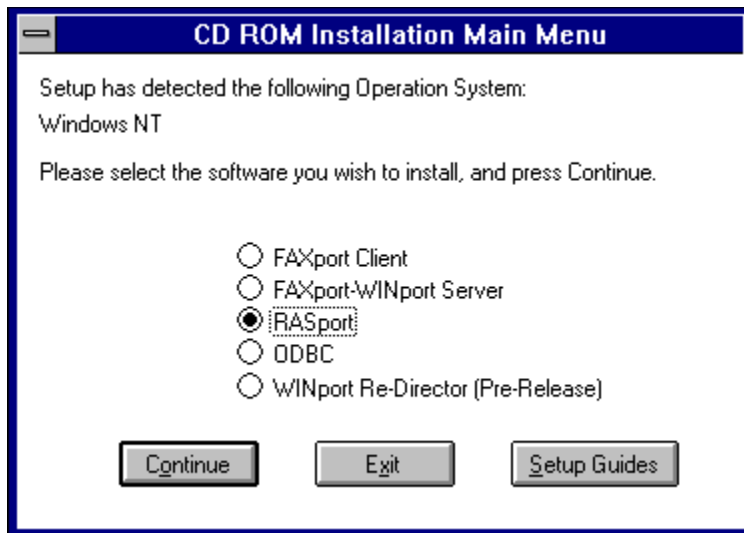
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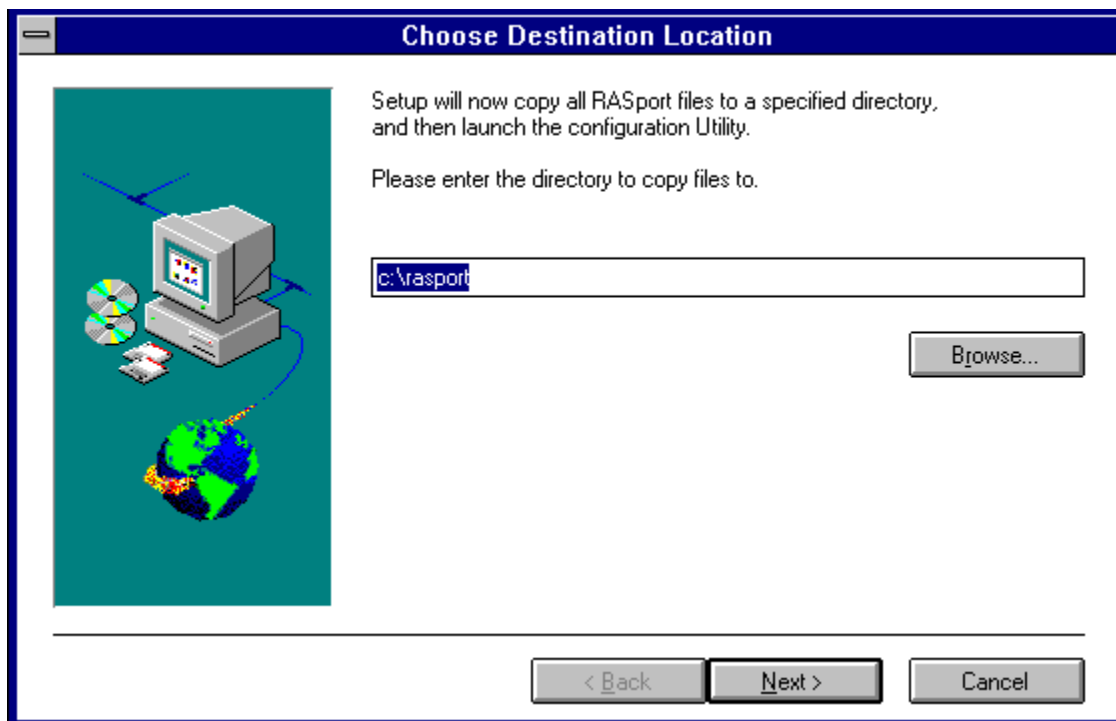
## Starting the Installation

If you are installing from CD-ROM, simply choose the RASport Option from the main installation menu.

You will immediately begin the RASport installer program.



Simply choose the RASport option and click on continue.



The RASport files will be copied to either the default directory or to a directory of your choice.

Click here on, [Using the RASport Installer Program](#) for further instructions

Click here for instructions on [Installing from a Diskette](#)

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# Installing from a Diskette

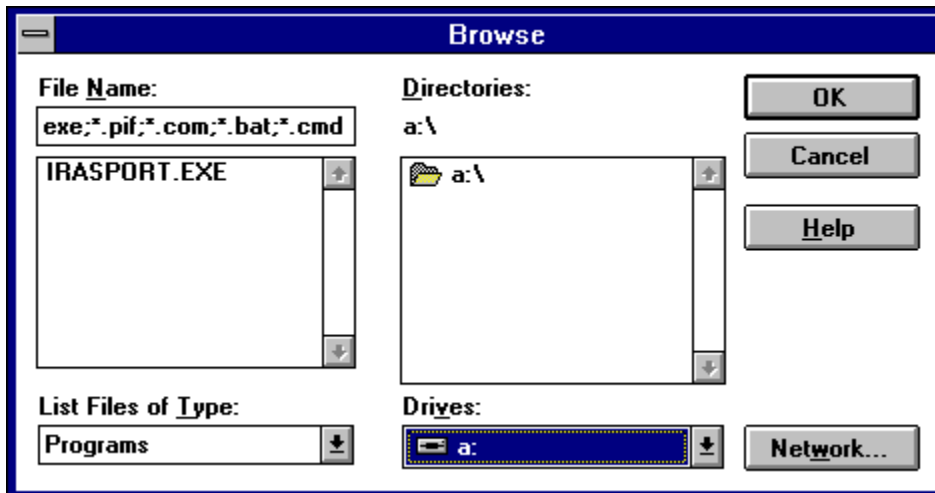
## If You are Installing from Diskette use the following:

Simply place the RASport disk in drive A: and use Windows 'RUN' (found under the pull down menu 'File' under the program manager) to launch the program called

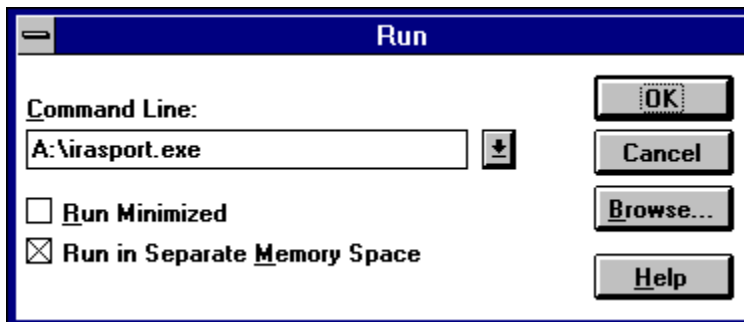
### IRASPORT.EXE

To 'RUN' a program you may need to make two steps:

First you may need to click on the 'Browse' button and select the A: drive in order to see the file to RUN. This must be selected and appear in the upper box.



After properly selecting the file, you then click on the 'OK' button. This will return you to the 'RUN' dialog box.



After you click the 'OK' button in the RUN dialog box, you will then see the dialog box called

### 'RASport Installer'

See [Using the RASport Installer Program](#) for further instructions

## Using the RASport Installer Program

The RASport Installer program is very simple to use. Simply click on the 'Install' button to have the files installed as a Windows NT service. Then you would click on the 'Setup' button to define the COM ports.

The only two points that are important to understand are:

First is that the 'Uninstall' function does not remove the files from your system, but simply removes the RASport program as a service from the Windows NT Server.

Secondly, you must restart the Windows NT Server in order to start the RASport function.

**Point and Click on each item you need assistance with or use the tab key to select an item, then press Enter**



[Click here for instructions on how to use RASport](#)



## How RASport Works with RAS

RAS (Remote Access Service) in the Windows NT program allows a remote client to access a Remote Access Server in the Local Area Network and connect to it via a telephone line. When the connection is made there is a transparent access to the Local Area Network resources for the person connected.

The Remote Access Service provides a number of features such as SQL Server, SNA Server for Windows NT and Lotus Notes™. (See the MicroSoft™ Windows NT System Guide for further details on this feature).

The benefit of using RASport is based on improving the way that COM ports are used under RAS.

*Normally RAS needs a dedicated COM port and when someone is not connected to the RAS Server, that COM port is idle.*

With RASport, NT communications programs can **share** an NT serial port with RAS so they are constantly available for use. This allows for a more efficient use of modems on a system by reducing their potential idle time.

(Note: The RASport setup dialog lists all the serial COM ports that are available on the NT System (up to 16 physical ports in total).

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# How to Use RASport

The following topics document how to setup and use RASport with a Windows NT Server

**Point and Click on each item you need assistance with  
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## Using RASport

When you specify that RASport should use a COM port, RASport will automatically provide a different names for that COM port .

E.G. The extra COM port name (e.g. RASPORT2)

After RASport has been started, both of the COM port names will be visible to NT communications programs (like RAS, FAXport, and Windows Terminal) *will be the regular COM port number. **The RASport name is displayed in the monitoring functions of Windows NT only.***

E.G. The extra COM port name (e.g. RASPORT2) will not be shown in the box used to select a COM port as is found in a regular terminal or fax program(e.g. FAXport, and Windows Terminal) even while RAS has opened the original COM port name and is listening for an incoming call.

Using RASport you will be able to select and connect to the COM port normally reserved for use by RAS. You would normally see an error message if you attempted this connection otherwise.

**Remember: If RAS is using a RASport defined port you will still not be able to connect to that port until RAS has finished with it.**

## **Handling Inbound and Outbound Calls with RASport**

a) The current version of RASport supports RAS dial-in, but not RAS dial-out (so do not dial an outbound RAS connection on a COM port that is being shared by RASport).

b) RASport monitors I/O activity on each COM port, to determine when the port is idle

(where 'idle' means that the application has open the port, but is merely sitting there waiting for an incoming call) ...

## **Opening Extra COM port Names**

If a program (e.g. FAXport or Windows NT Terminal) tries to open the extra COM port, while RAS is actively handling an incoming call through the original COM port, then the attempt to open the extra COM port will fail (and the RAS connection will not be interrupted). If this happens, simply wait until the RAS connection has finished: as soon as RAS is idling, waiting for an incoming call, then the attempt to open the extra COM port name will succeed.

## **RASport and Adaptive dial-in**

The current version of RASport supports adaptive dial-in connections on the extra COM port, only if that extra COM port is being used by FAXport (not by any other application); whenever an application other than FAXport is using the extra COM port, then RAS will not be able to receive incoming calls.

## **RASport and FAXport 5.0**

If FAXport 5.0 is using the extra COM port but has allowed the line to idle (because it has no outbound faxes to send, and is merely listening for an incoming fax), then RASport will use the modem's adaptive answer to route any incoming call to the correct program: incoming data calls are passed to RAS, and incoming fax calls are passed to FAXport.

## **Application Use Limitations**

Only one application at a time can be using the extra COM port. For example, if the extra COM port is being used by FAXPORT, then you will not be able to open that COM port using Windows Terminal program.



## **Modem Initialization Strings and RASport**

RASport watches the modem initialization strings that are sent by RAS, so that whenever an application finishes using the extra COM port, RASport can reinitialize the modem into the state expected by RAS.

RASport will be confused by the multitude of strings that RAS sends to the modem, when RAS is trying to detect the type of modem (when you use Control Panel/Network to install RAS, or to configure it for a new COM port or new type of modem).

Control Panel will tell you to restart the system, whenever you change the RAS settings: you should do this (RASport will not be able to properly reinitialize the modem until after the system is restarted; you will see the following RASport message in the NT System Event Log "The last modem initialization string captured from RAS did not contain the expected 'Answer On' (i.e. S $\emptyset$ =)").

## **RASport Error Reporting**

When RASport is used (or abused), RASport cannot display messages on the Windows desktop (because RASport is a Windows NT kernel-mode device driver). Instead, information messages (for example, which say that RASport is loaded successfully), and any error messages, can be displayed using the NT System Event Log.

## Supported Modems and Serial Ports for RASport

RASport has been tested only with SERIAL.SYS (the standard Windows NT serial port driver).

Due to the nature of RASport's design, it should work with other serial drivers.

Only 16550AF UART (serial chip) or the equivalent (e.g. data buffering supported such as provided by US Robotics' [USR] internal modem's) should be used in a serial port for data (or fax) communications. 8250 and 16450 UARTs are now considered obsolete for today's data and fax software.

See the latest Windows NT Hardware Compatibility List for a list of modems supported by RAS as supplied by Microsoft.

Faxport will work with any **Class 1**, **Class 2**, or **Class 2.0** fax or fax data modem (there are too many of these modems to list). However, *the current version of RASport can provide adaptive answer **only for Class 2.0 modems***. The following are Class 2.0 modems which have been tested with RASport:

- ◆ USR Courier with Supervisor date 07/10/95
- ◆ USR Sportster 288 with Supervisor date 04/18/95 rev 6.0.5 DSP date 03/31/95 rev 1.0.9

## UNC - Universal Naming Convention

UNC Pathnames makes it easier to access network resources by providing a standard naming scheme to reference network servers, and shared directories.

***UNC allows the user to browse and connect to network servers without mapping a drive letter to a network resource.***

In the different dialog boxes and viewing screens of your Windows utility and application programs, such as FAXport 5.0 [sold separately], you will see your components such as Phonebooks or data storage folders shown in a new format from the way in which was done under MS-DOS™.

Under the old method of connecting to a file or program, you would see a FAXport folder shown like this:

```
C:\FAXPORT\FOLDER\FOLDER.SER
```

which is the

```
drive name:\root directory\first sub-directory\sub-directory\file name
```

Under UNC Pathnames you will now see it show like this:

```
\\ADMIN\APPS\FOLDER\FOLDER.SER
```

which is now

```
\\servername\sharename\pathname\filename
```

- The **servername** identifies the name of the computer (server) where the information resides.
- The **sharename** identifies the name of the shared file resource that the information has been shared under.
- The **pathname** is the name of the directory where the **file** (filename) you wish to use resides.

Now, rather than having to know a complicated and detailed list of directories, sub-directories and drives, all you need to know is exactly where the information you need is to be found.

Using UNC Pathnames then allows you to use the power of the Windows operating system to be able to browse for information in your local area network with greater ease than you could with MS-DOS based drives.

For further information on UNC Pathnames consult your Microsoft System Guide.

## Install

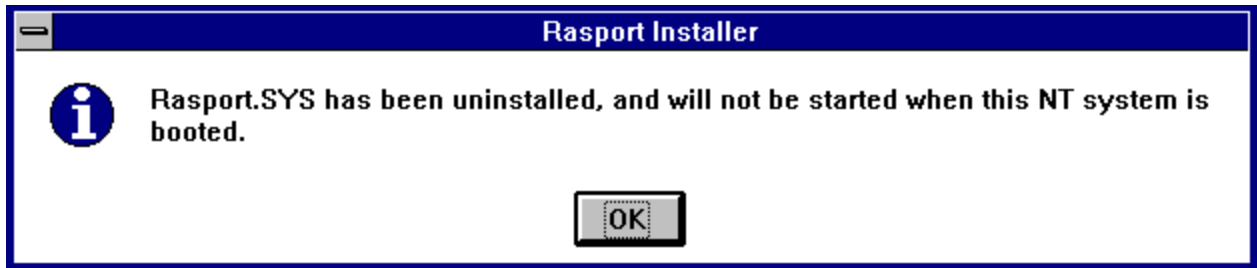


In the first step of the setting up of the RASport program you will be asked to confirm on the directory where the files should be placed.



When this has been done you will be asked to proceed to the setup of the COM ports.

## Uninstall



**When you 'Uninstall RASport, you are not doing the same function as 'de-install' where files are removed from the hard drive. Instead, what you are doing is terminating the function of the program completely. You can 're-install' at any time.**

## Setup

The setup dialog box allows you to define the RAS COMports to be used by Windows communications programs under RASport.

You will be shown all of the COM ports that are available on the Windows NT Server and you will select the COM port that is being used by the RAS Server. This is done by pointing and clicking on the COM port (COM2, COM3 etc) shown in the box called 'Not used by RASport'.

When the COM port (e.g. COM2) has been transferred to the 'Used by RASport' box on the left, simply give it an 'extra name' that will be 'seen' by a Windows NT monitoring functions.

You will see the COM port as a regular COM port in the fax or terminal software you are using. As it will be available for use when RAS is not being accessed by the COM port you will not get an error message if it is selected for

To save these values, click on the 'Close' button, then restart the Windows NT Server to start RASport.

[Click here to see the RASport Setup Screen \(Dialog Box\).](#)

[Click here to return to the Contents screen](#)

## **Help**

Access to the On-Line documentation.



## **Cancel**

Ends the Installation process with out any permanent changes being made.

## RASport Setup Screen

The dialog box below allows you to see the available COM ports and simply chose the ones that RAS will share with RASport.

**Rasport COM Setup**

Existing serial port hardware

**Used By RASPORT:**

COM5

**Not used By RASPORT:**

COM2  
COM3  
COM4

<< Use

Don't Use >>

**Total (combined Rasport and Hardware) serial ports:**

COM2  
COM3  
COM4  
RASPORT5

Rasport's extra name ...

RASPORT5

Close

Help

Fax

## **Creation Date**

Created January February 29, 1995

Reference CD ROM #6

Build 5018 r

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