

Configuring Microsoft Exchange and the InterJet II

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2 Overview

This document describes how to configure a Microsoft Exchange 5.5 server and an InterJet II 4.x system so that the Exchange server is protected by the InterJet II firewall, but can act as the central mail server for the customer's site.

3 Configuring the InterJet II

Configuring the InterJet II to work with the Microsoft Exchange 5.5 server requires four operations:

- Connect to the InterJet II as the **admin** user to bring up the **system agent**
- Allocate a static IP address for the Microsoft Exchange 5.5 server
- Bring up the **mail agent**
- On the **Mail Options** page, forward all incoming email to the Microsoft Exchange 5.5 server

The sections immediately following this one will walk you through this process. Once this has

been completed, you will be ready to configure the Microsoft Exchange 5.5 server.

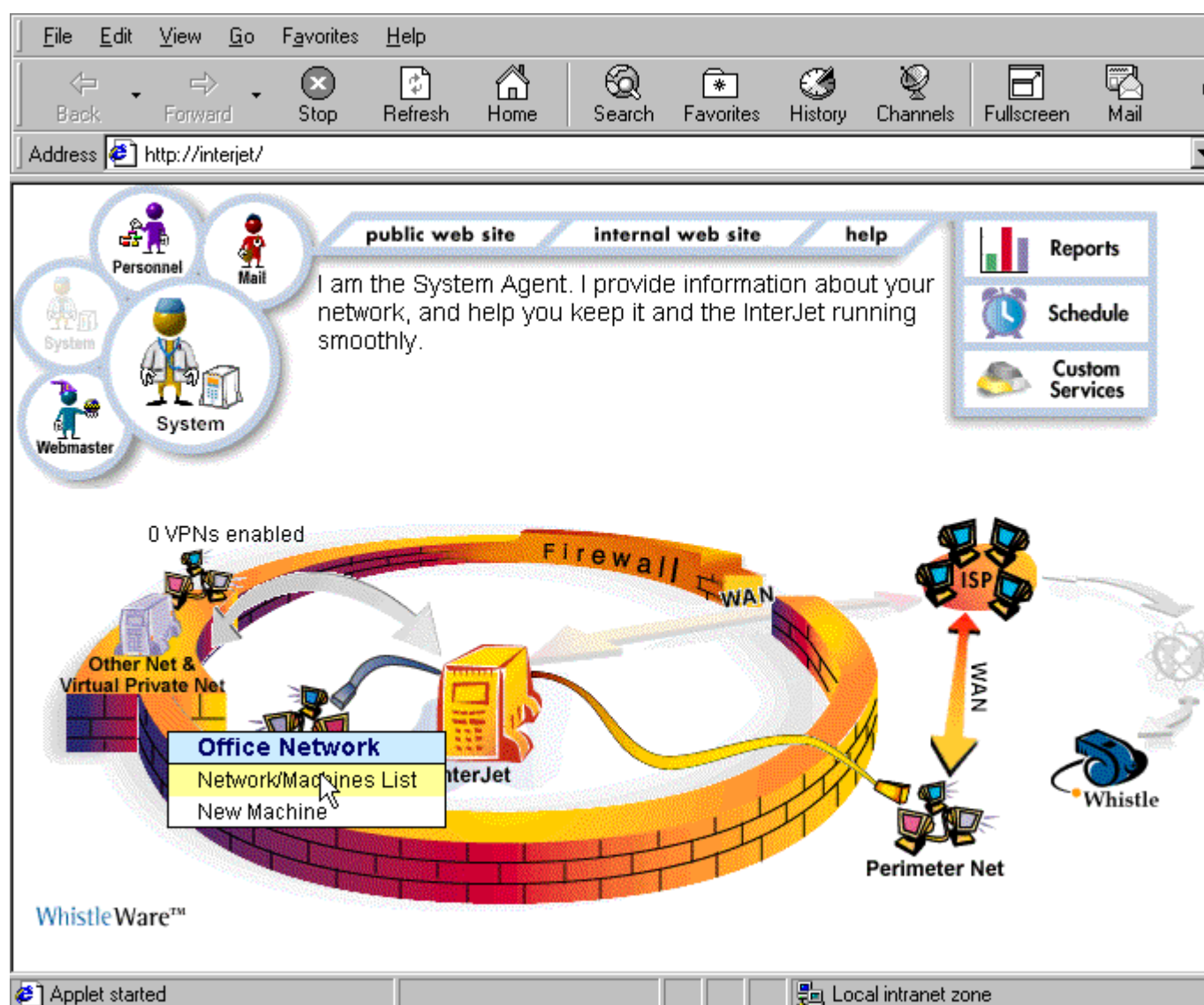
3.1 Connect to the InterJet II

Connect to the InterJet II as the **admin** user to bring up the **system agent**; you can do this by using the URL

<http://interjet/>

Note: If you have already allocated a static IP address for your Microsoft Exchange 5.5 server, you can skip to [Bring up the Mail Agent](#) now.

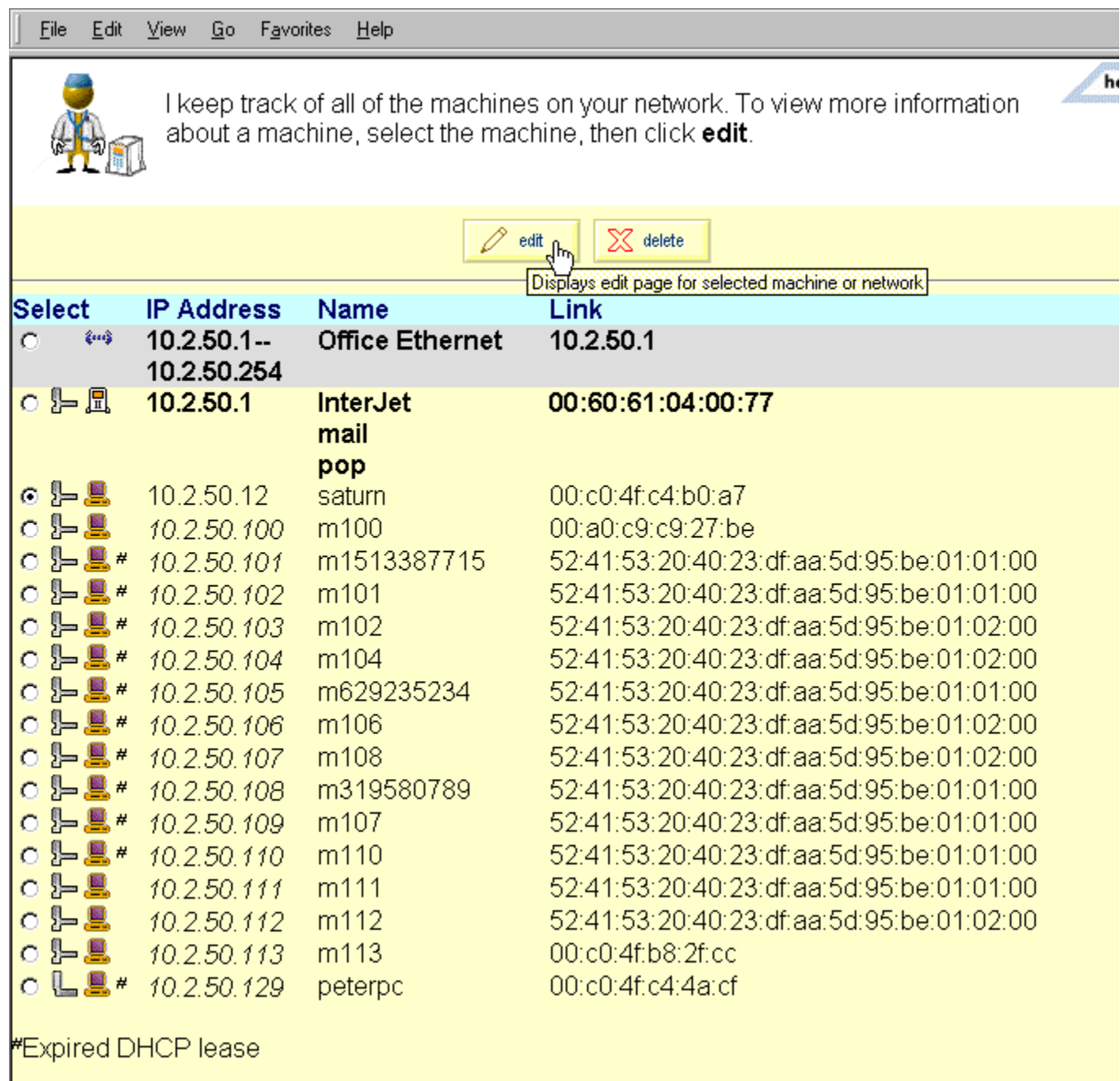
Once the system agent is up, put your pointer over the **Office Net** icon to bring up the **Office Network** menu, as shown below:



If your Microsoft Exchange 5.5 server is obtaining an IP address via DHCP, you should click on **Network/Machines List** to bring up the **View Network/Machines** page. If you have not yet configured TCP/IP on your Microsoft Exchange 5.5 server, you should click on **New Machine** instead, to bring up the **New Machine** page.

Note: If you clicked *New Machine*, you should skip to [Allocate a static IP address](#) now.

If you clicked on *Network/Machines List* to bring up the *View Network/Machines* page, you will see a page that looks like this:



I keep track of all of the machines on your network. To view more information about a machine, select the machine, then click **edit**.

edit delete

Displays edit page for selected machine or network

Select	IP Address	Name	Link
☐	10.2.50.1--10.2.50.254	Office Ethernet	10.2.50.1
☐	10.2.50.1	InterJet mail pop	00:60:61:04:00:77
☒	10.2.50.12	saturn	00:c0:4f:c4:b0:a7
☐	10.2.50.100	m100	00:a0:c9:c9:27:be
☐	# 10.2.50.101	m1513387715	52:41:53:20:40:23:df:aa:5d:95:be:01:01:00
☐	# 10.2.50.102	m101	52:41:53:20:40:23:df:aa:5d:95:be:01:01:00
☐	# 10.2.50.103	m102	52:41:53:20:40:23:df:aa:5d:95:be:01:02:00
☐	# 10.2.50.104	m104	52:41:53:20:40:23:df:aa:5d:95:be:01:02:00
☐	# 10.2.50.105	m629235234	52:41:53:20:40:23:df:aa:5d:95:be:01:01:00
☐	# 10.2.50.106	m106	52:41:53:20:40:23:df:aa:5d:95:be:01:02:00
☐	# 10.2.50.107	m108	52:41:53:20:40:23:df:aa:5d:95:be:01:02:00
☐	# 10.2.50.108	m319580789	52:41:53:20:40:23:df:aa:5d:95:be:01:01:00
☐	# 10.2.50.109	m107	52:41:53:20:40:23:df:aa:5d:95:be:01:01:00
☐	# 10.2.50.110	m110	52:41:53:20:40:23:df:aa:5d:95:be:01:01:00
☐	10.2.50.111	m111	52:41:53:20:40:23:df:aa:5d:95:be:01:01:00
☐	10.2.50.112	m112	52:41:53:20:40:23:df:aa:5d:95:be:01:02:00
☐	10.2.50.113	m113	00:c0:4f:b8:2f:cc
☐	# 10.2.50.129	peterpc	00:c0:4f:c4:4a:cf

#Expired DHCP lease

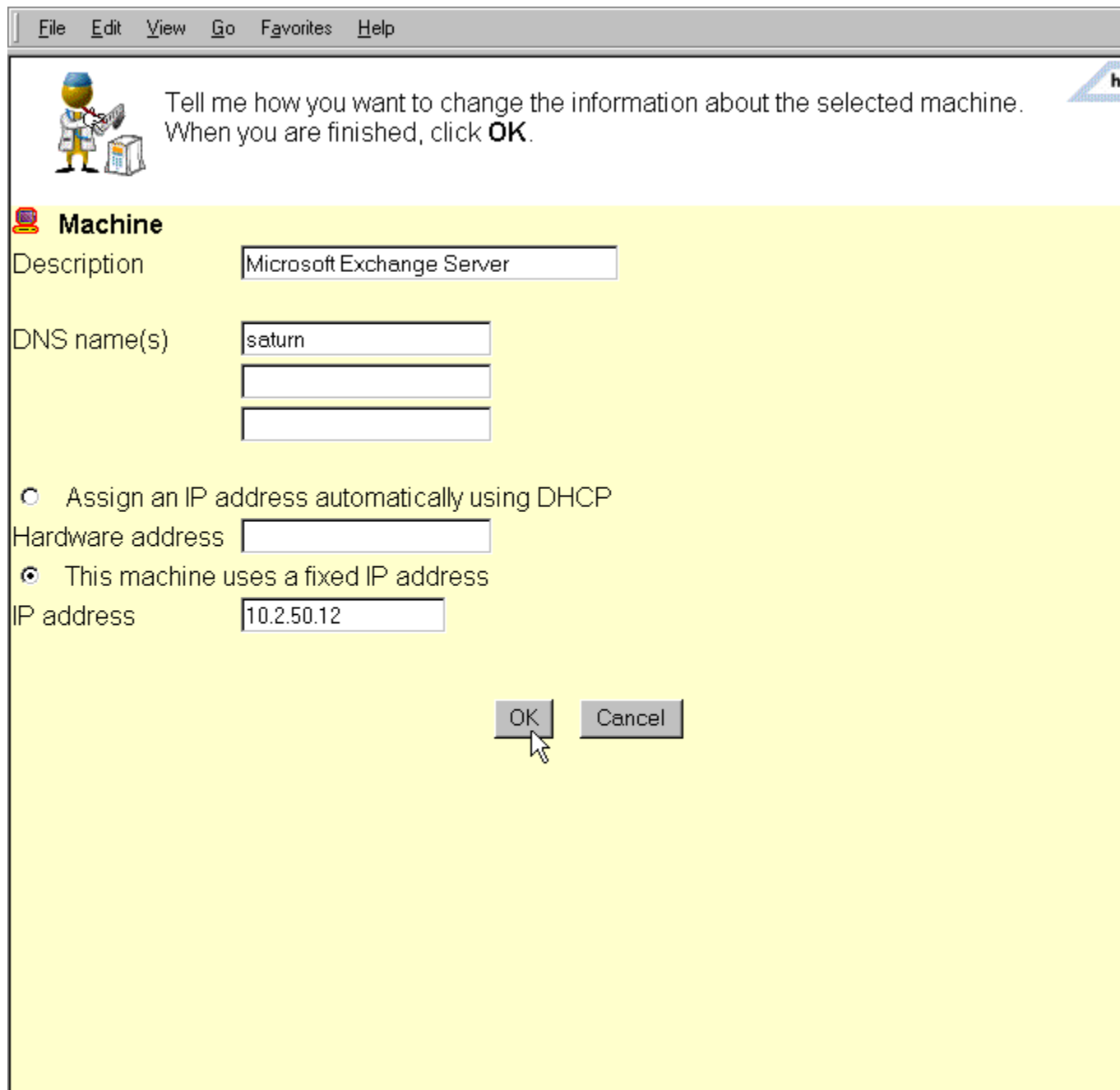
In our example, the name of the Microsoft Exchange 5.5 server is *saturn*; we have selected *saturn*, and are ready to edit it.

Note: We generally recommend that you name your Microsoft Exchange 5.5 server simply *exchange*, but we recognize that you might have a legacy installation, so we have used that in our example.

After clicking on the *edit* button, you will be brought to the *Edit Machine* page for the Microsoft Exchange 5.5 server DNS information.

3.2 Allocate a static IP address

The **Edit Machine** page allows you to allocate a static IP address for the Microsoft Exchange 5.5 server. Using our example from before, *saturn*, this is what we end up with:



File Edit View Go Favorites Help

 Tell me how you want to change the information about the selected machine. When you are finished, click **OK**.

Machine

Description

DNS name(s)

☐ Assign an IP address automatically using DHCP

Hardware address

☒ This machine uses a fixed IP address

IP address

OK Cancel

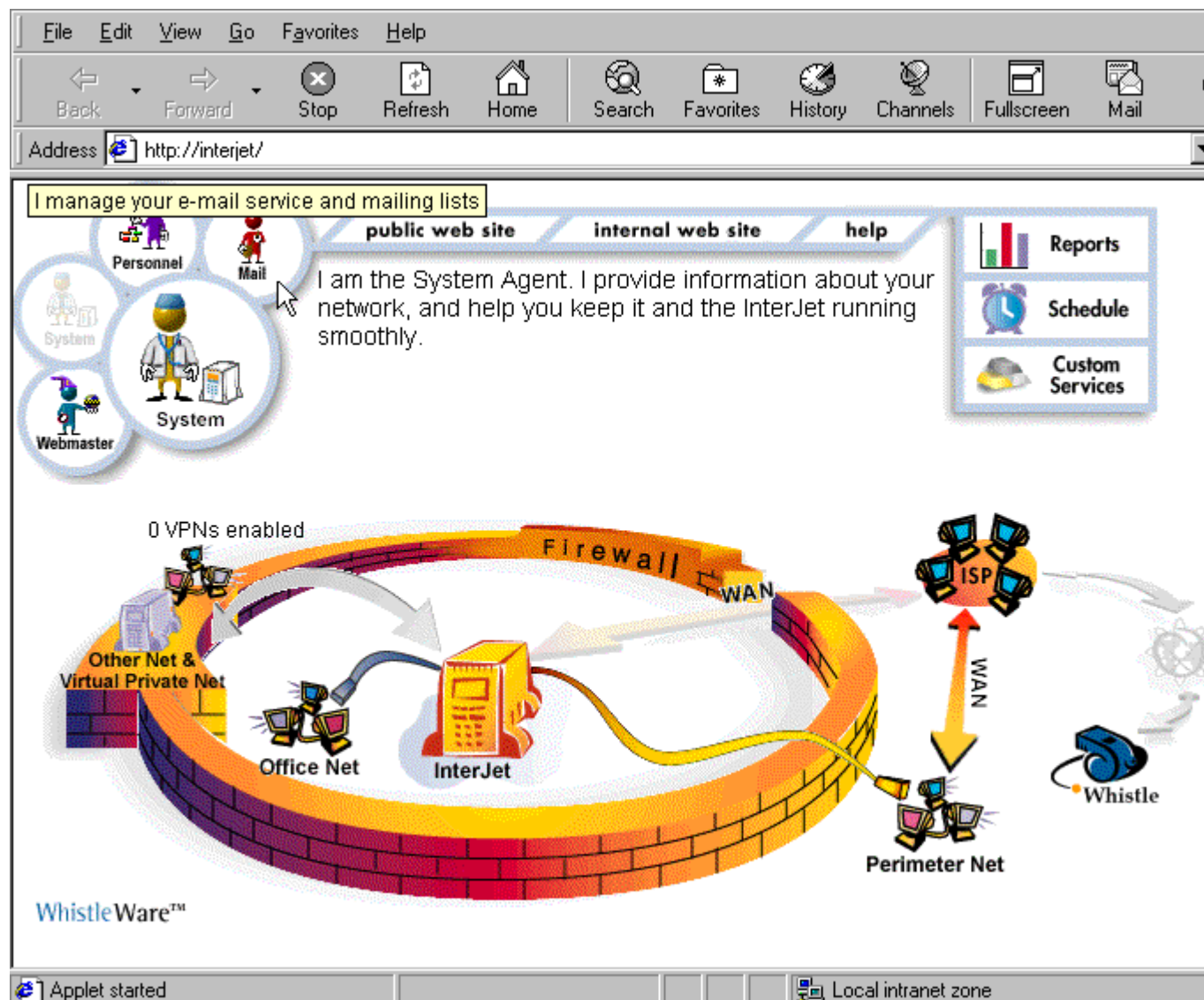
Our machine description is **Microsoft Exchange Server**, its DNS name is *saturn*, and its static IP address is now **10.2.50.12**.

Note: By default, the InterJet II 4.x system will be configured to use IP addresses in the class C network **192.168.1.X**, not in the class A network 10.X.X.X. Again, this is just an example. We recommend that you select an address which would not normally be allocated by the DHCP server, such as 196.168.1.10, to ensure that the address is not already taken by another machine.

Note: After you have clicked **OK**, if the **View Network/Machines** page is currently open, then you should close it, since you will not need to edit more machines.

3.3 Bring up the Mail Agent

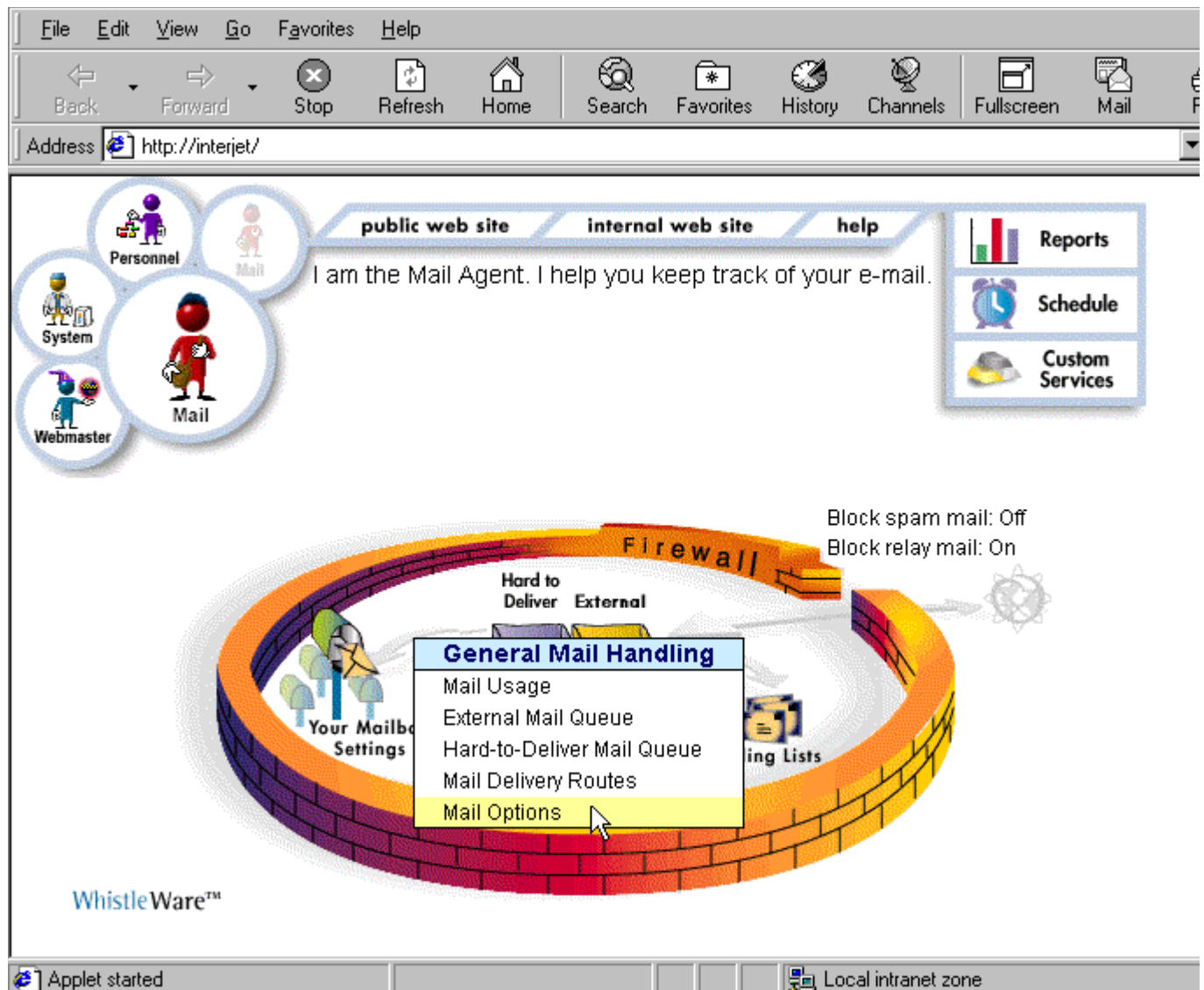
You are now ready to bring up the **mail agent** by clicking on it from the **system agent** page:



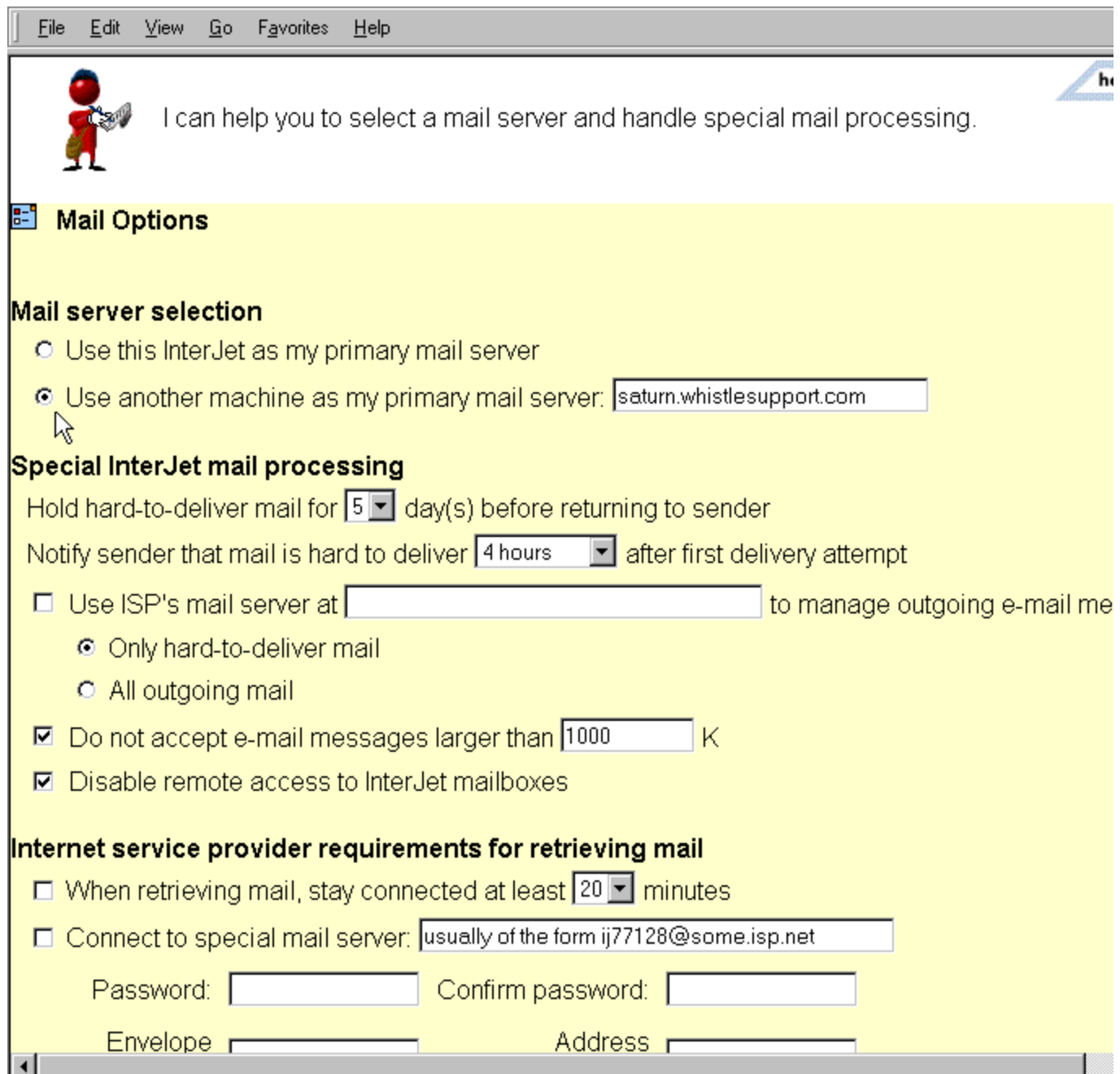
Once the **mail agent** is up, we need to bring up the **Mail Options** page.

3.4 Forward all incoming mail to the Microsoft Exchange 5.5 server

Place your pointer over the **General Mail Handling** icon to bring up the **General Mail Handling** menu, and select the **Mail Options** menu item:



This will bring up the Mail Options page:



File Edit View Go Favorites Help

 I can help you to select a mail server and handle special mail processing.

Mail Options

Mail server selection

☐ Use this InterJet as my primary mail server

☒ Use another machine as my primary mail server:

Special InterJet mail processing

Hold hard-to-deliver mail for day(s) before returning to sender

Notify sender that mail is hard to deliver after first delivery attempt

☐ Use ISP's mail server at to manage outgoing e-mail messages

☒ Only hard-to-deliver mail

☐ All outgoing mail

☒ Do not accept e-mail messages larger than K

☒ Disable remote access to InterJet mailboxes

Internet service provider requirements for retrieving mail

☐ When retrieving mail, stay connected at least minutes

☐ Connect to special mail server:

Password: Confirm password:

Envelope Address

In the section entitled *Mail server selection*, select the *Use another machine as my primary mail server* radio button. In the blank, type in the fully qualified domain name for your Microsoft Exchange 5.5 server.

Note: In our example, our domain name is *whistlesupport.com* and our Microsoft Exchange 5.5 server is named *saturn*, so we should type *saturn.whistlesupport.com*. This will be different for you based on your unique domain name and the name you have assigned your Microsoft Exchange 5.5 server.

Scroll to the bottom of the page, and click the **OK** button. This is all the configuration you will need to do on your InterJet II, so you can now exit your browser.

4 Configuring the Microsoft Exchange 5.5 Server

Your Microsoft Exchange 5.5 server requires more detailed configuration; there are six operations involved:

- Verify that your Microsoft Exchange 5.5 server has TCP/IP correctly installed and configured
- Run the *Microsoft Exchange Administrator* program
- Install the *Internet Mail Service* component
- Configure the *Internet Mail Service* routing
- Configure each of your user accounts Internet email addresses
- Exit the *Microsoft Exchange Administrator* program

Once completed, you should be able to send and receive Internet email via your Microsoft Exchange 5.5 server.

4.1 Verify the Microsoft Exchange 5.5 Server has TCP/IP installed

Configuration of TCP/IP for the Microsoft Exchange 5.5 server is beyond the scope of this document; there are other resources available for this task.

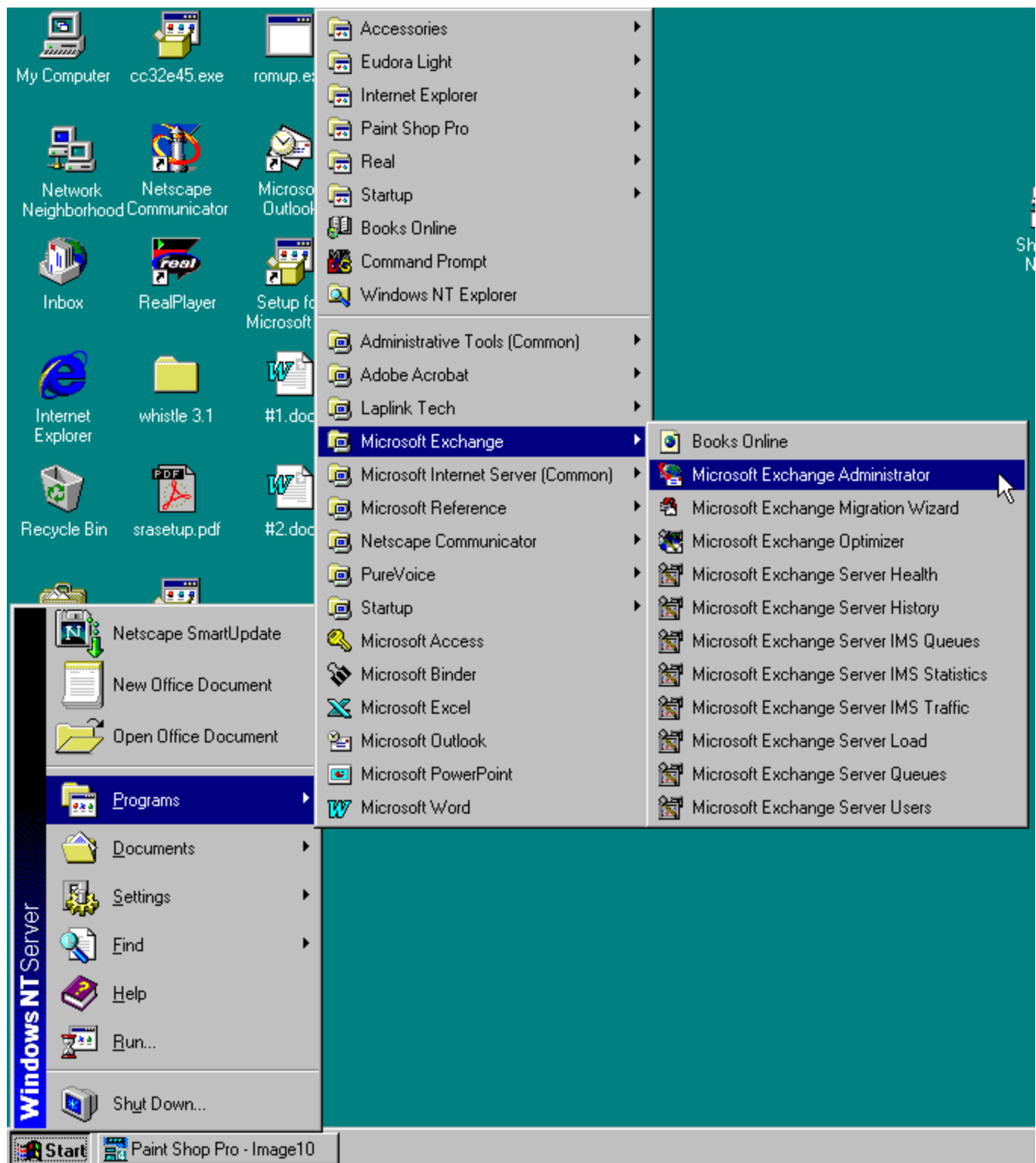
Some hints, however, are:

- If you can surf to the net from your Microsoft Exchange 5.5 servers console, then TCP/IP is installed.
- Your Microsoft Exchange 5.5 server should be configured with a static IP address.
- This should match the address which you entered in [Allocate a static IP address](#), above.
- If you accepted our recommendations, then this will be **192.168.1.10**.
- If you have a default installation of the InterJet II 4.x server, the DNS server will be the InterJet's default Office IP address, **192.168.1.1**.
- You can verify this setting from the front panel of the InterJet II 4.x by pressing the *Enter* key, followed by the digit **2**. This will display the current Office IP address.

More information on TCP/IP configuration for your Microsoft Exchange 5.5 server can be obtained by right-clicking the *Network Neighborhood* icon on your server desktop, and selecting the *Properties* option.

4.2 Run the Microsoft Exchange Administrator program

Run the *Microsoft Exchange Administrator* program from your Start menu; if you have performed a default installation, it will be located under *Programs / Microsoft Exchange / Microsoft Exchange Administrator*:



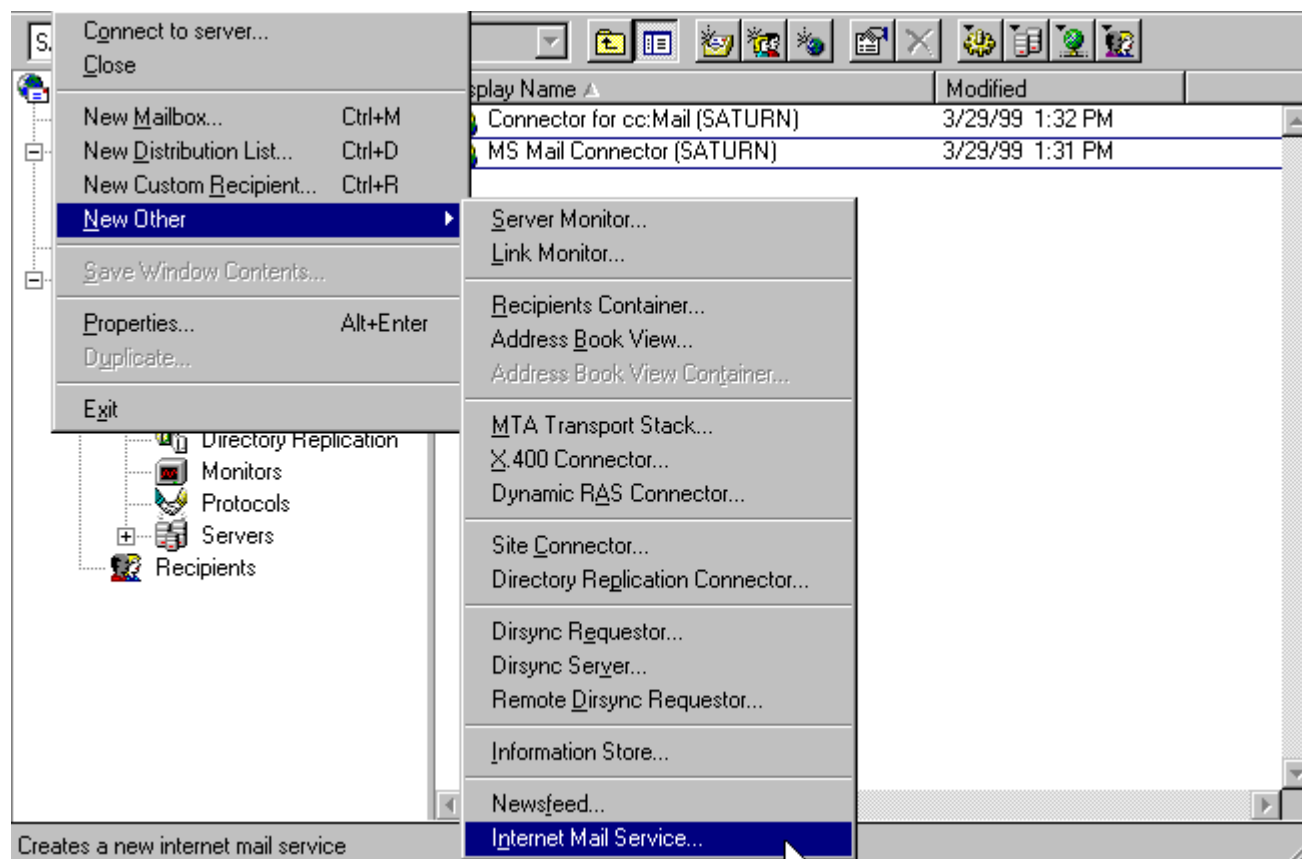
This will start the *Microsoft Exchange Administrator* program.

4.3 Install the Internet Mail Service component

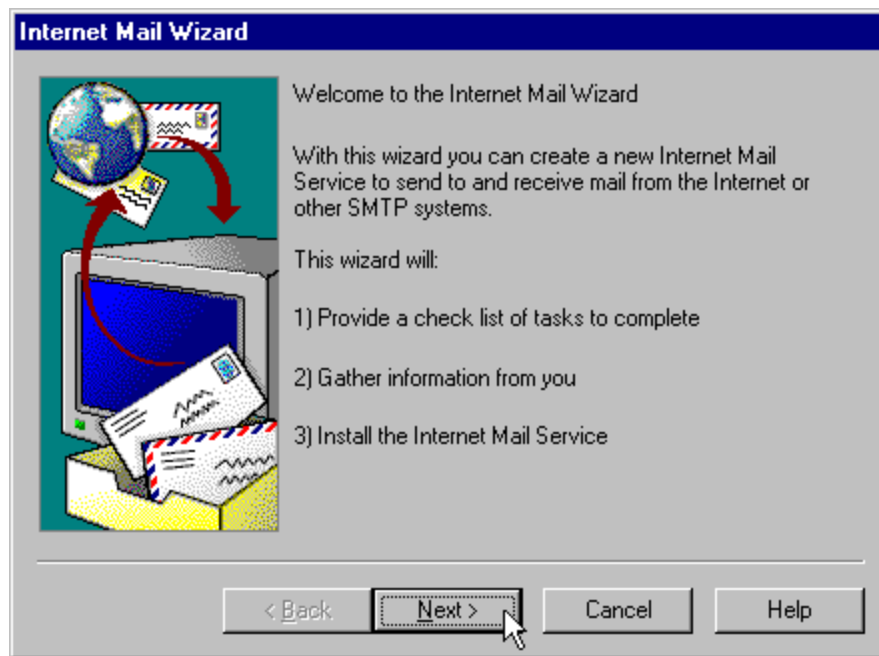
You will need to install the Internet Mail Service component. If it is already installed, it may be easier to delete it and reinstall it, so that you will be taken through the installation wizard, instead of needing to hunt down options; in any case, you should be able to locate the necessary options in the [Configure the Internet Mail Service routing](#)

and [Configure each of your user accounts Internet email addresses](#) sections, below.

If you intend to use the wizard method, you should start installation of the Internet Mail Service component from the File menu; select New Other, and then Internet Mail Service:



This will start the *Internet Mail Wizard*:



Click *Next*:



If you have not installed TCP/IP on your Microsoft Exchange 5.5 server, you will need to cancel out of this operation, and install TCP/IP now. Remember that you should be able to surf to the web from your Microsoft Exchange 5.5 server desktop, as described in the [Verify the Microsoft Exchange 5.5 Server has TCP/IP installed](#) section.

The DNS server is the InterJet II 4.x server, also as described in the [Verify the Microsoft Exchange 5.5 Server has TCP/IP installed](#) section.

The *A* and *MX* records described here have already been taken care of at the NOC and in the InterJet II 4.x configuration performed earlier in the [Forward all incoming mail to the Microsoft Exchange 5.5 server](#) section.

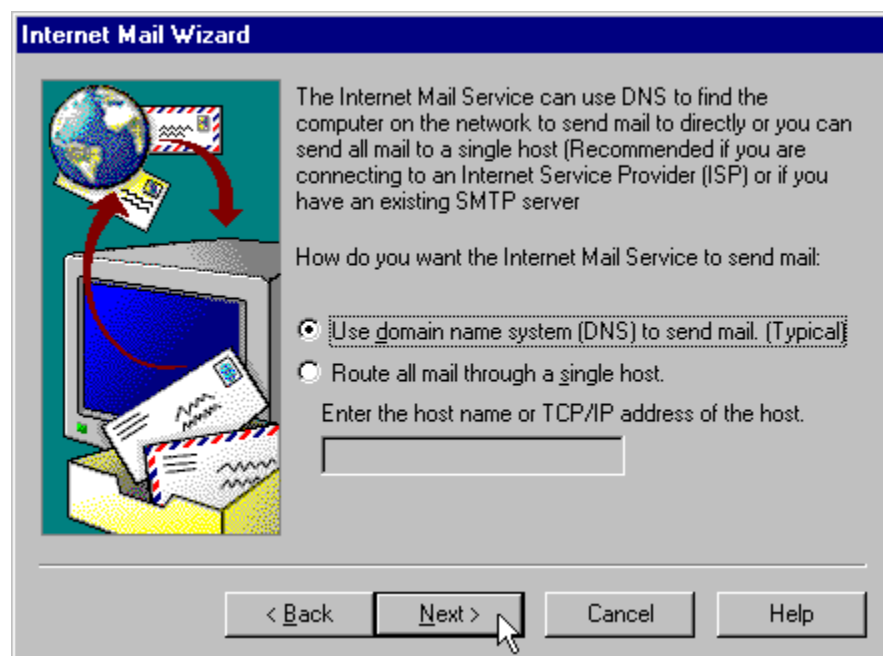
You will not be using a modem to access your ISP, you will be using the InterJet II 4.x server. It may use a modem, but you don't have to tell your Microsoft Exchange 5.5 server anything about it.

Click *Next*:



The name of our example Microsoft Exchange 5.5 server was *saturn*, as first noted in the [Connect to the InterJet II](#) section. We [recommended](#) that you use *exchange* instead, but you can pretty much ignore this, since it is the internal name of the Microsoft Exchange 5.5 server, unless you have more than one. If you do, select the correct one from the dropdown listbox.

Click *Next*:

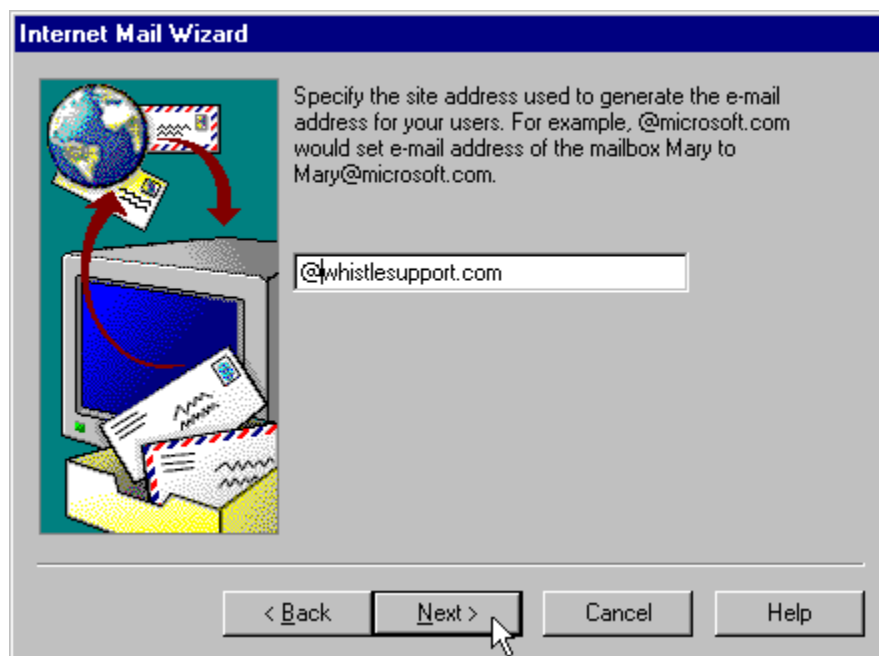


You will be using DNS to send mail (this is Internet mail, after all). Click *Next*:



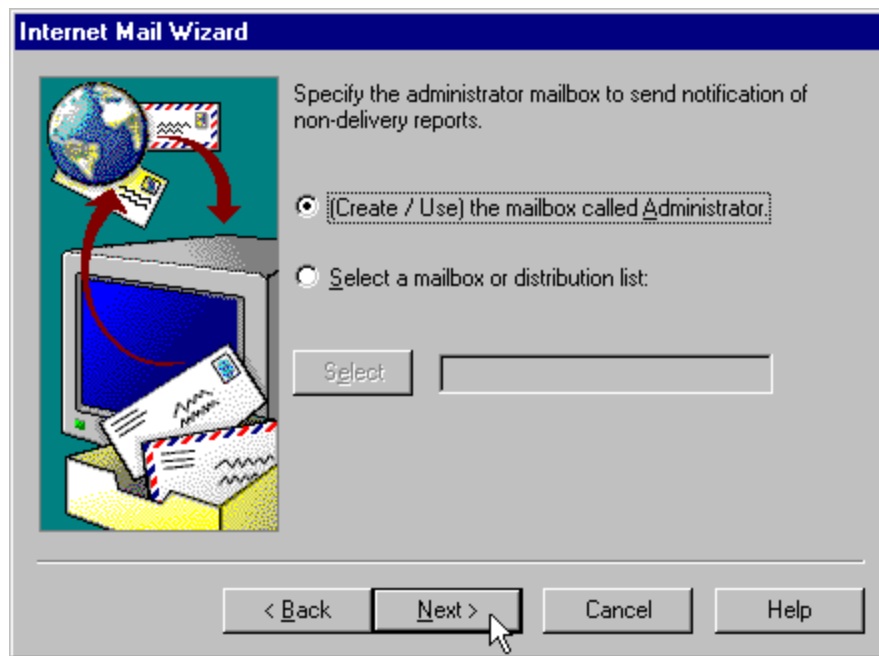
You will now be asked for your site address. Because your Microsoft Exchange 5.5 server is behind a protective firewall, the rest of the Internet will not be able to contact it directly. Because your firewall is forwarding mail from within your domain, you will need to change this setting, which will default to the fully qualified hostname of your Microsoft Exchange 5.5 server. In our case, this is **@saturn.whistlesupport.com**; we need to change this to just **@whistlesupport.com**, so that mail sent by our users has a valid return address.

Here is what the dialog box looks like after the change:



Click *Next*.

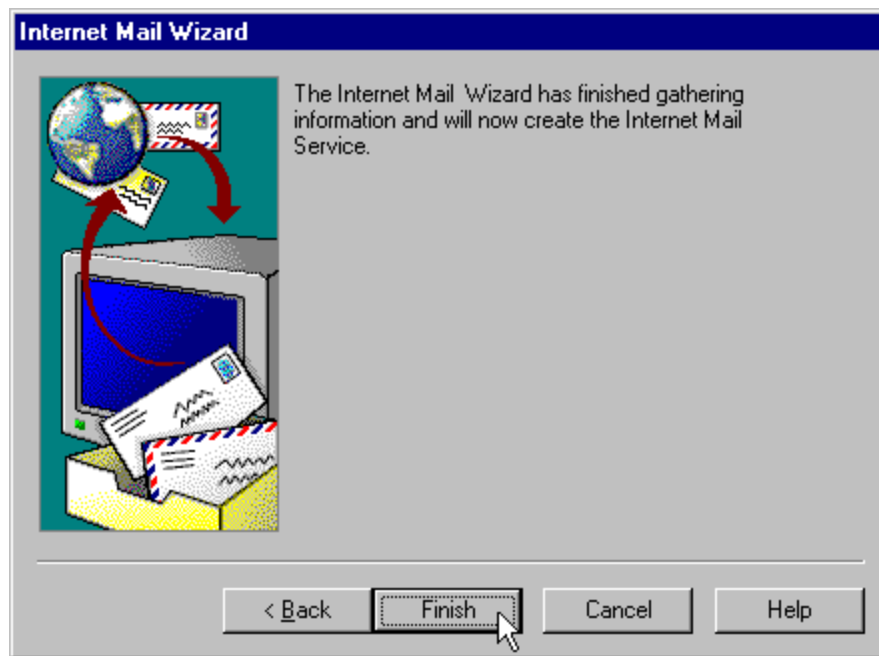
Now we have to create a mailbox to accept messages about delivery problems; the Microsoft supplied default is fine, for our purposes:



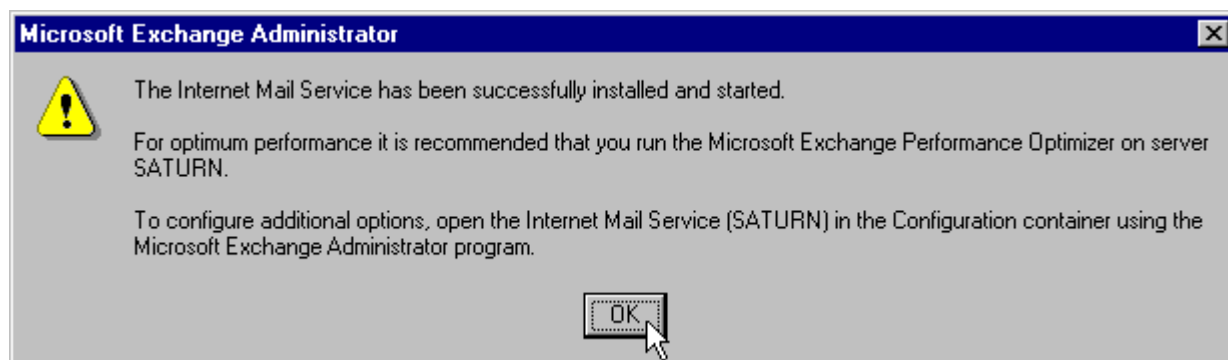
Click **Next**; you will be prompted for a password. This dialog box is not very friendly; you won't be asked to type the password again to verify that you typed it correctly, so be careful:



Click **Next** to get the **Finish** dialog:



Now click **Finish**; this may take a little bit of time to complete, so be patient; when it does, you will be given a completion dialog:

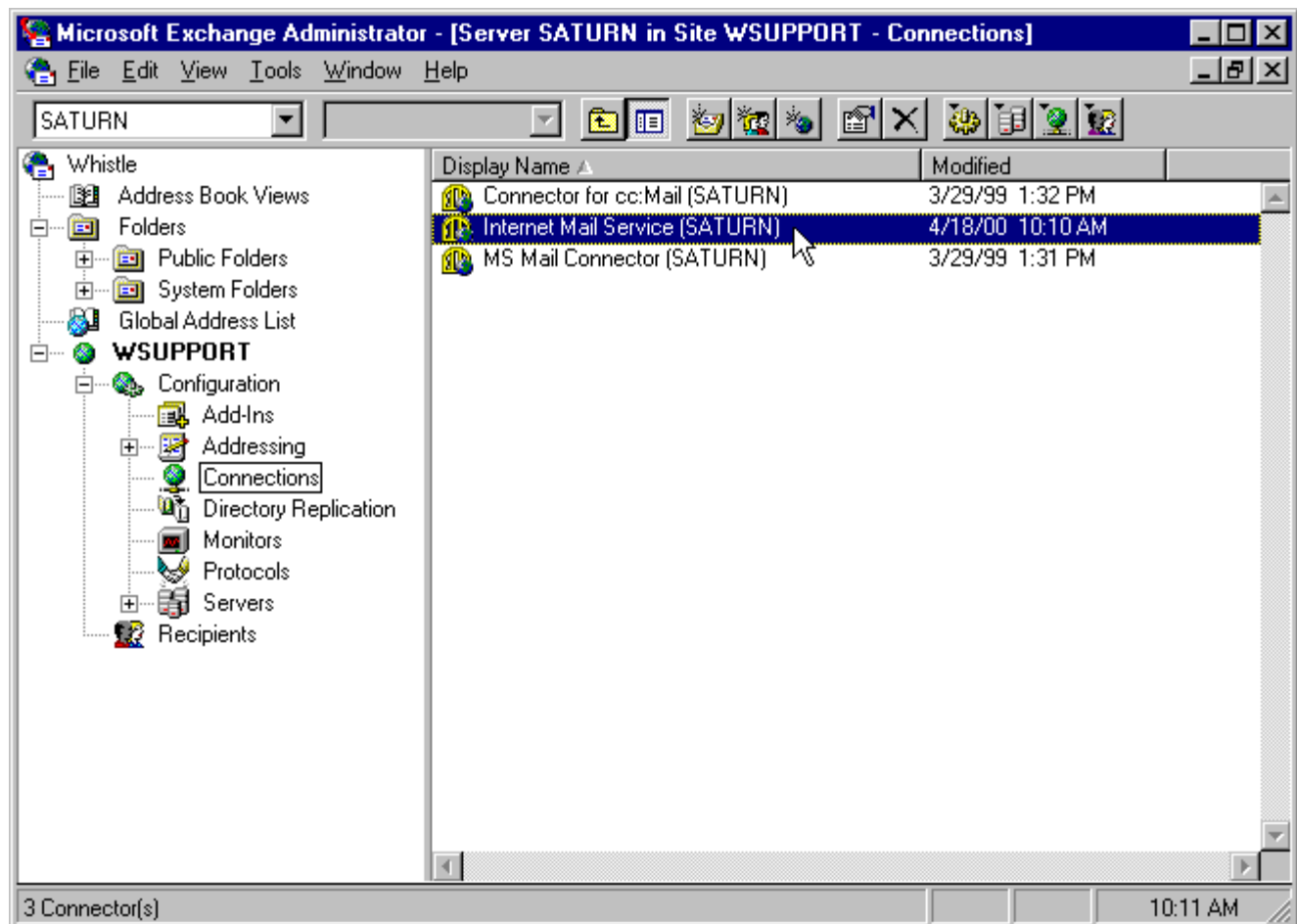


Click **OK**; the Internet Mail Service component has now been successfully installed. Now it needs some additional configuration.

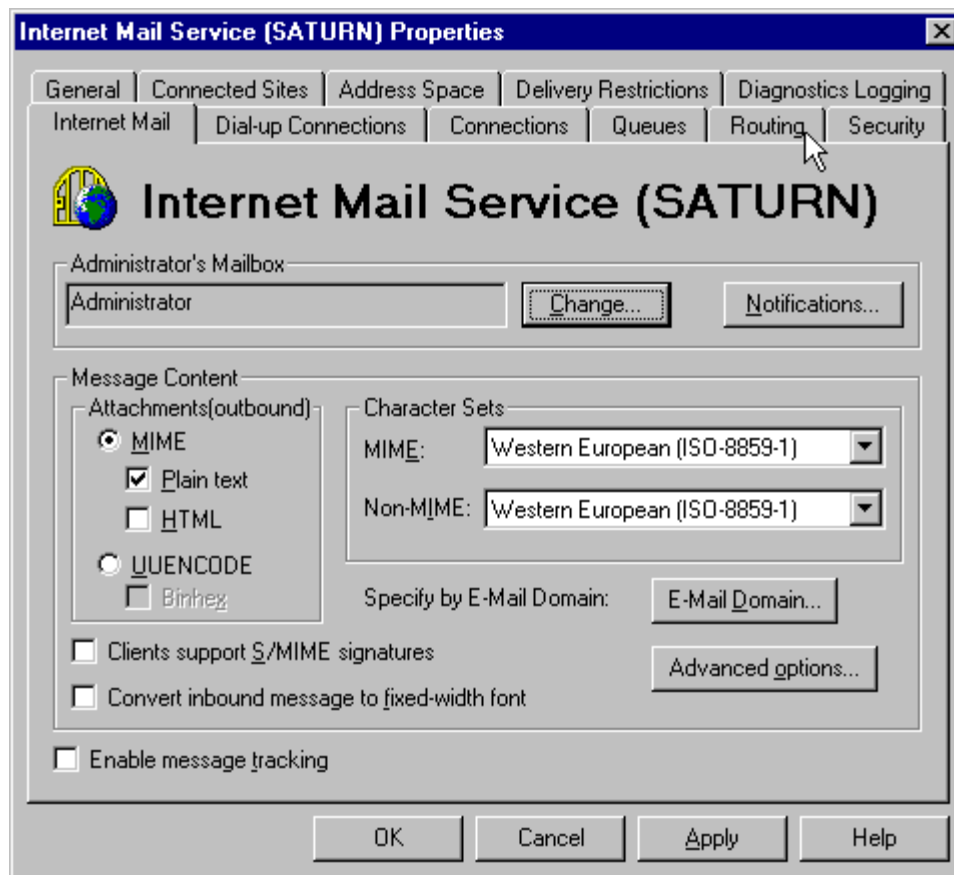
4.4 Configuring the Internet Mail Service routing

Your Microsoft Exchange 5.5 server is getting its mail forwarded by the InterJet II 4.x; this means that mail stops at your InterJet before continuing on to your exchange server. This means that the incoming address is rewritten to be the fully qualified host name of the Microsoft Exchange 5.5 server.

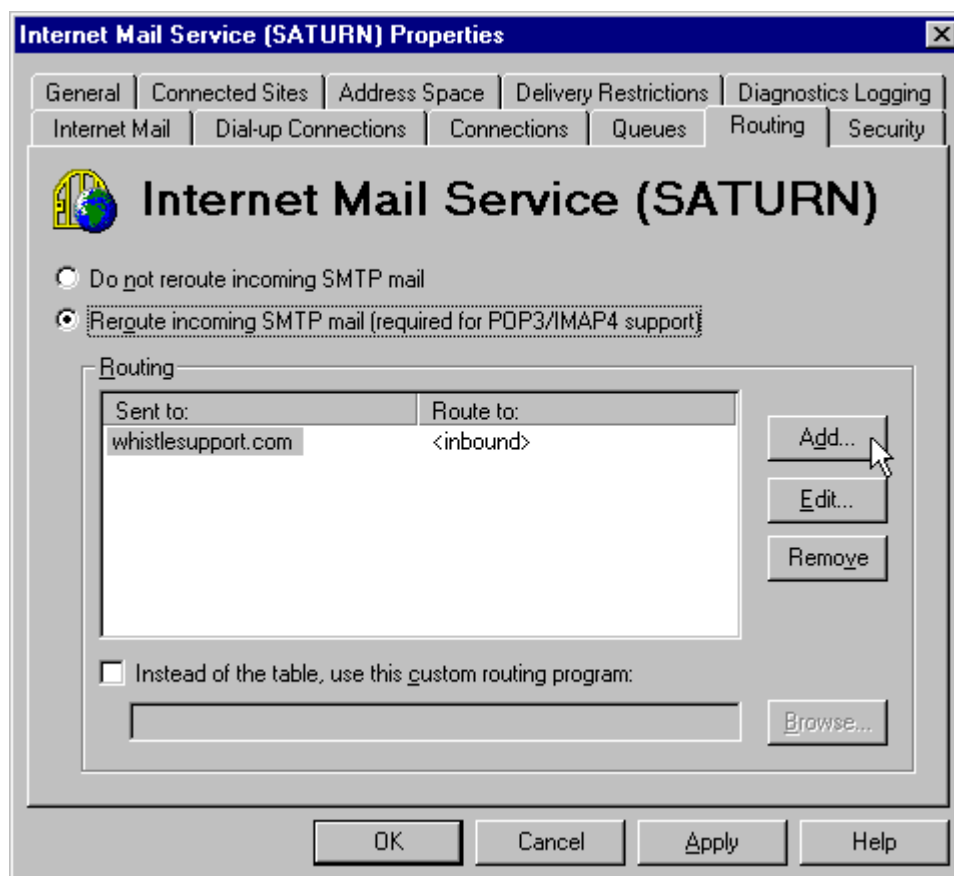
Because of this, your Microsoft Exchange 5.5 server must be configured to also accept mail for that address, as well as accepting it for just your domain; by default, it will only accept for your domain, and not any hosts in your domain, or delegated subdomains. By clicking on your server name, the **Configuration** treeview control, and the **Connections** treeview control under that, you can locate the **Internet Mail Service** icon:



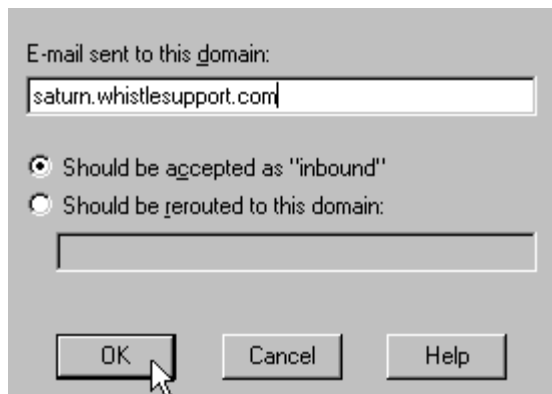
Double-click the *Internet Mail Service* icon to bring up the *Internet Mail Service Properties* dialog:



We want to click on the **Routing** tab, as shown in the image above; this will bring up the **Routing** properties page:

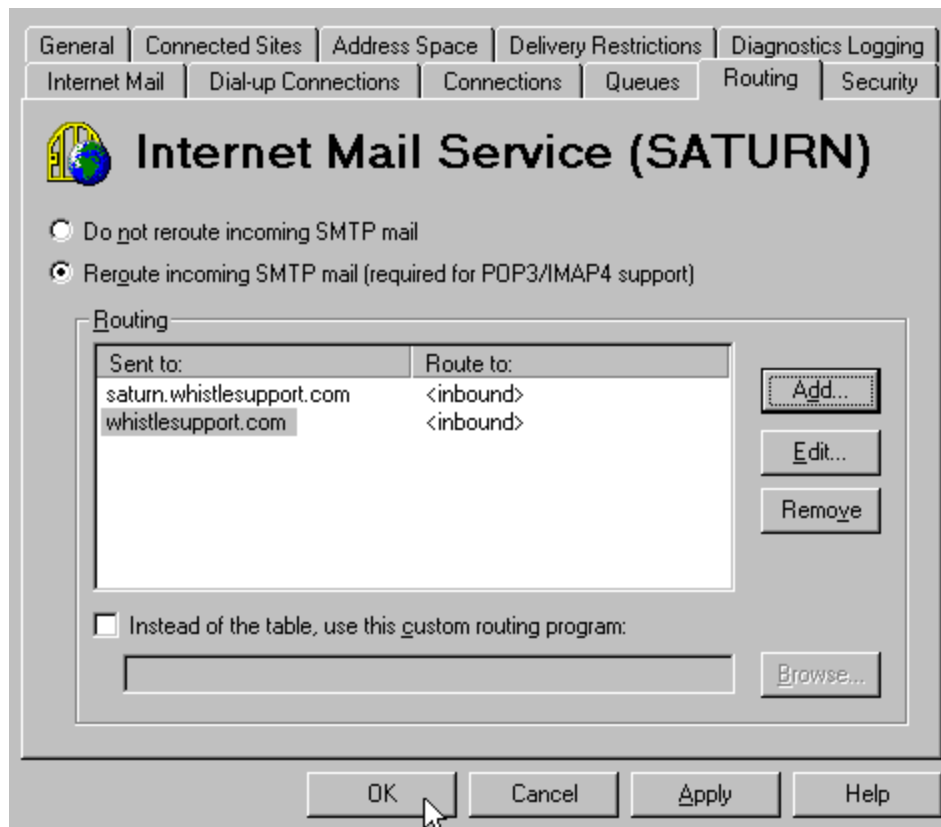


We want to click on **Add...** to add a new route. Notice that the current route is for the domain itself, `whistle.support.com`, as we entered into the wizard in the [Install the Internet Mail Service component](#) section, above. We are going to add a new route for the Microsoft Exchange 5.5 server itself:



In our case, the actual name of the Microsoft Exchange 5.5 server in the DNS is **saturn**, so its fully qualified name, which we told the InterJet II 4.x server about in the [Forward all incoming mail to the Microsoft Exchange 5.5 server](#) section, is therefore **saturn.whistlesupport.com**. We tell the Microsoft Exchange 5.5 server that we want this mail accepted as "inbound". You will put in the fully qualified name of your Microsoft Exchange 5.5 server, instead. This will depend on your domain name, and the name you gave the server in the Interjet II 4.x servers DNS, in the [Allocate a static IP address](#) section.

Click **OK**; you will see the new entry appear in the dialog box:



Click **OK**; you will be given a warning dialog:



This dialog just means that your Microsoft Exchange 5.5 server wants you to do the configuration of the InterJet; we already did this in the [Forward all incoming mail to the Microsoft Exchange 5.5 server](#) section. Click **OK**.

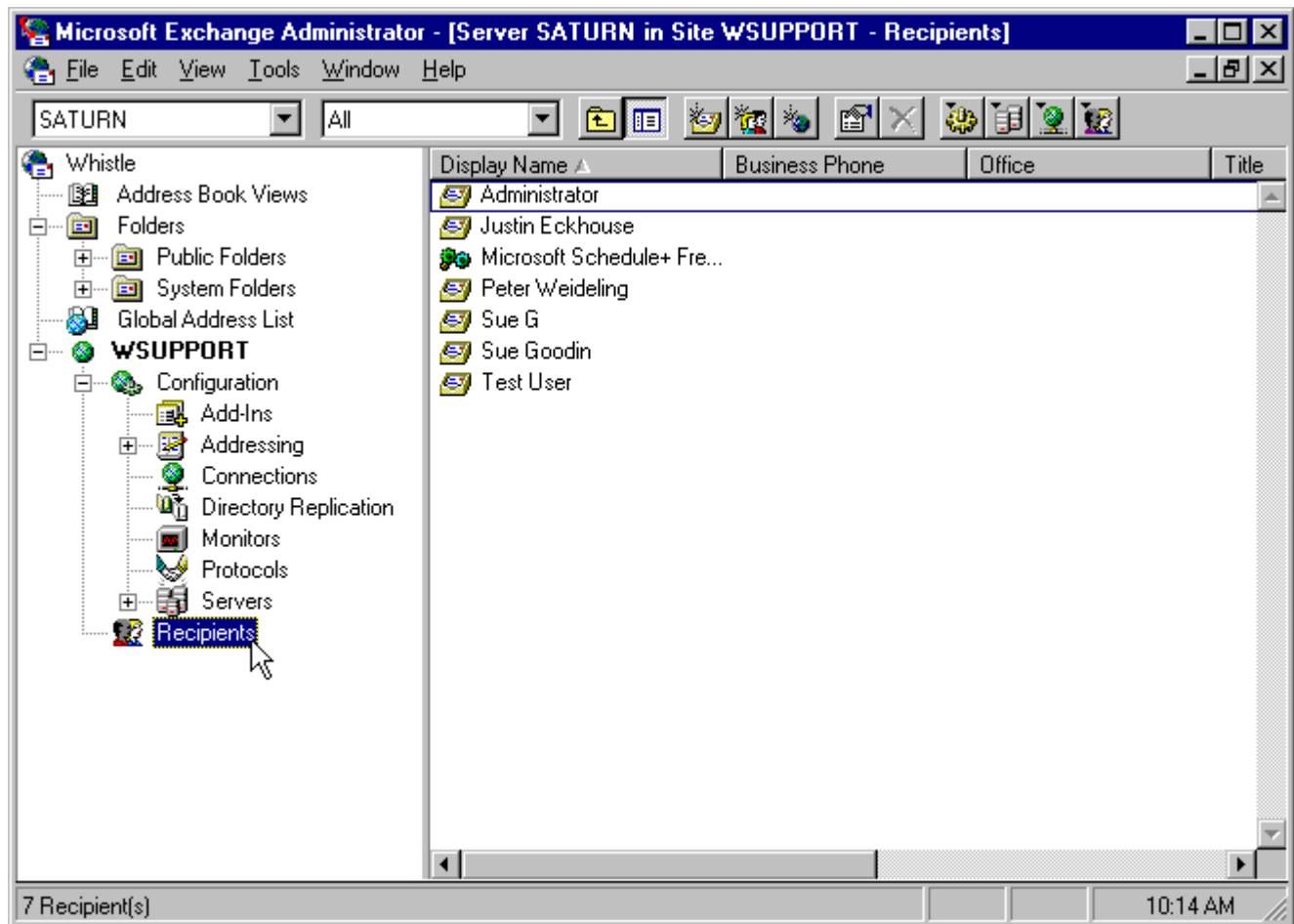
You are now done configuring routing. Your Microsoft Exchange 5.5 server will now accept incoming mail, provided you have user accounts with properly configured Internet email addresses. Configuration of user accounts Internet email addresses is the subject of the next section.

4.5 Configure each of your user accounts Internet email addresses

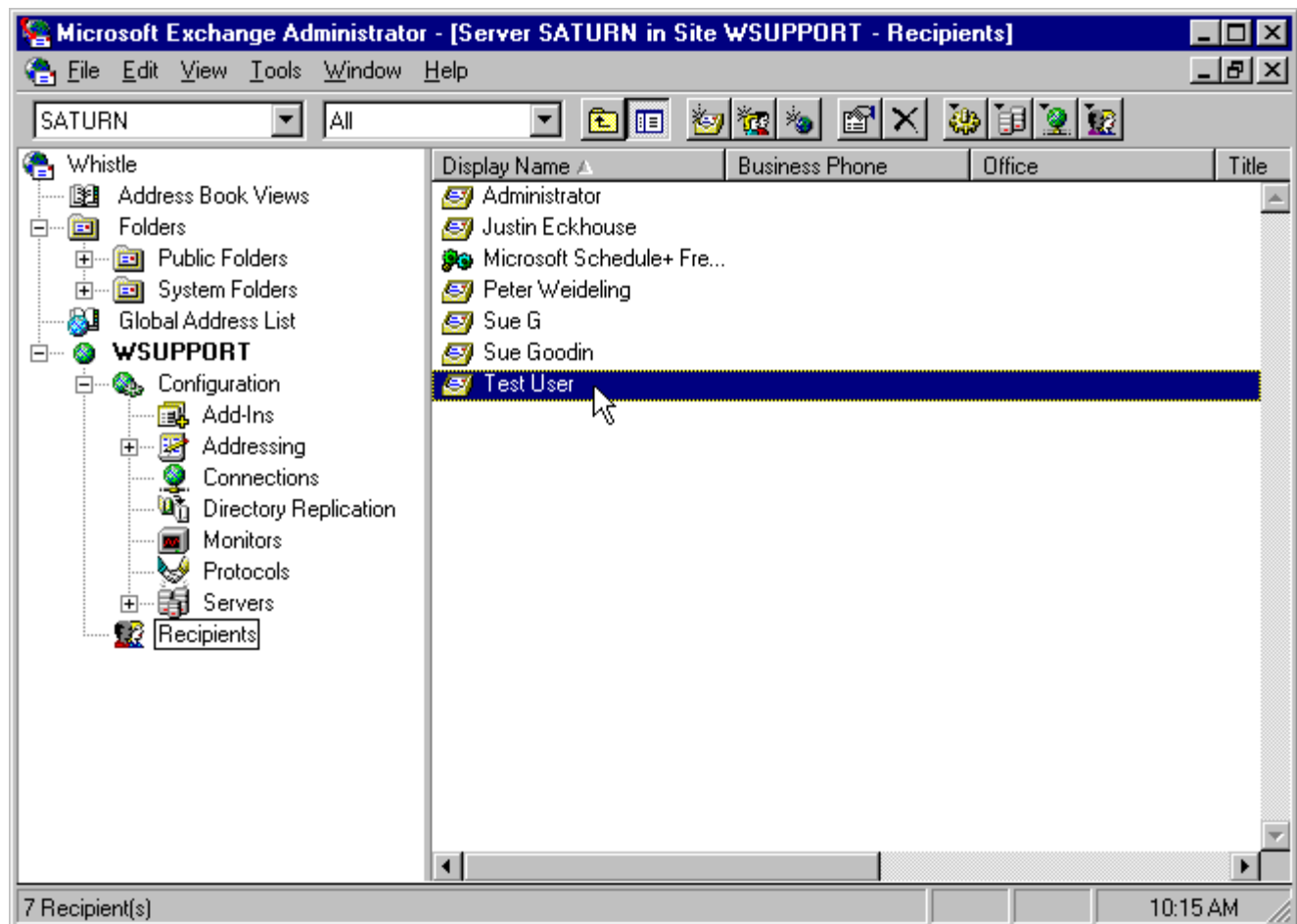
Your Microsoft Exchange 5.5 server won't accept Internet mail for your users, unless the incoming Internet email address has been properly configured.

The following process will walk you through configuration of the incoming Internet email address for one user; you will need to repeat this process for all Microsoft Exchange 5.5 server users you wish to permit to accept incoming Internet email.

By clicking on your server name, the *Recipients* treeview control, you can locate the recipient icons:



We're going to modify the user *Test User*. You can modify any or all of your users, or you can decide that some of your users should not receive inbound Internet email.



Double click your user (we're still using *Test User*); this will bring up their properties page:

Test User Properties

Delivery Restrictions | Delivery Options | Protocols | Custom Attributes | Limits | Advanced

General | Organization | Phone/Notes | Distribution Lists | E-mail Addresses

Test User

Name

First: Initials: Last:

Display: Alias:

Address: Title:

City: Company:

State: Department:

Zip Code: Office:

Country: Assistant:

Phone:

Primary Windows NT Account...

Created 2/16/00 8:58 AM Home site: WSUPPORT Home server: SATURN Last modified 4/18/00 10:10 AM

OK Cancel Apply Help

Click on the *E-mail Addresses* tab to bring that property sheet forward:

Test User Properties

Delivery Restrictions | Delivery Options | Protocols | Custom Attributes | Limits | Advanced

General | Organization | Phone/Notes | Distribution Lists | E-mail Addresses

Test User

E-mail addresses

	CCMAIL	User, Test at WSUPPORT
MS		WHISTLE/WSUPPORT/TEST
SMTP		test@whistlesupport.com
X400		c=US;a= ;p=Whistle;o=WSUPPORT;s=User;g=T

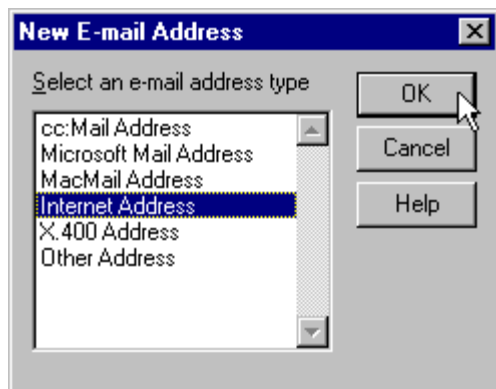
New... Edit... Remove

Set as Reply Address

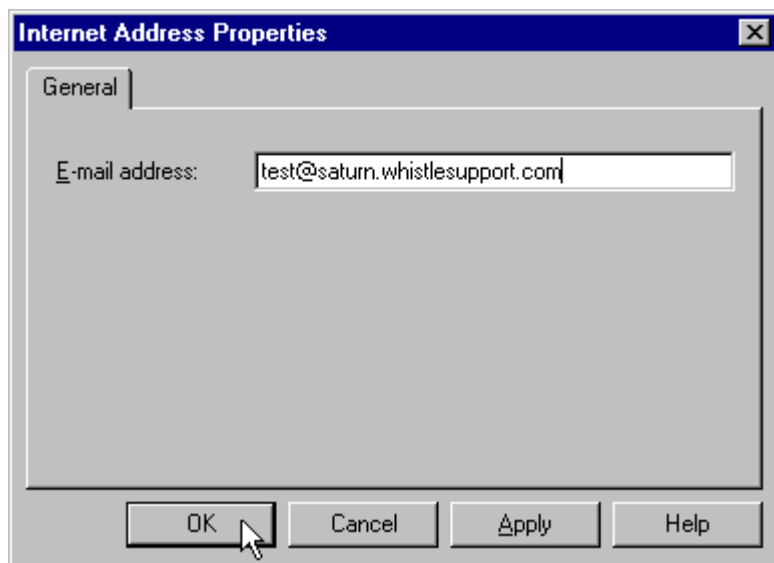
OK Cancel Apply Help

You can see that there is already an **SMTP** address (also called an **Internet Address**) for the user in our domain; that address is **test@whistlesupport.com**. This means that their internet email address is **test** at our domain.

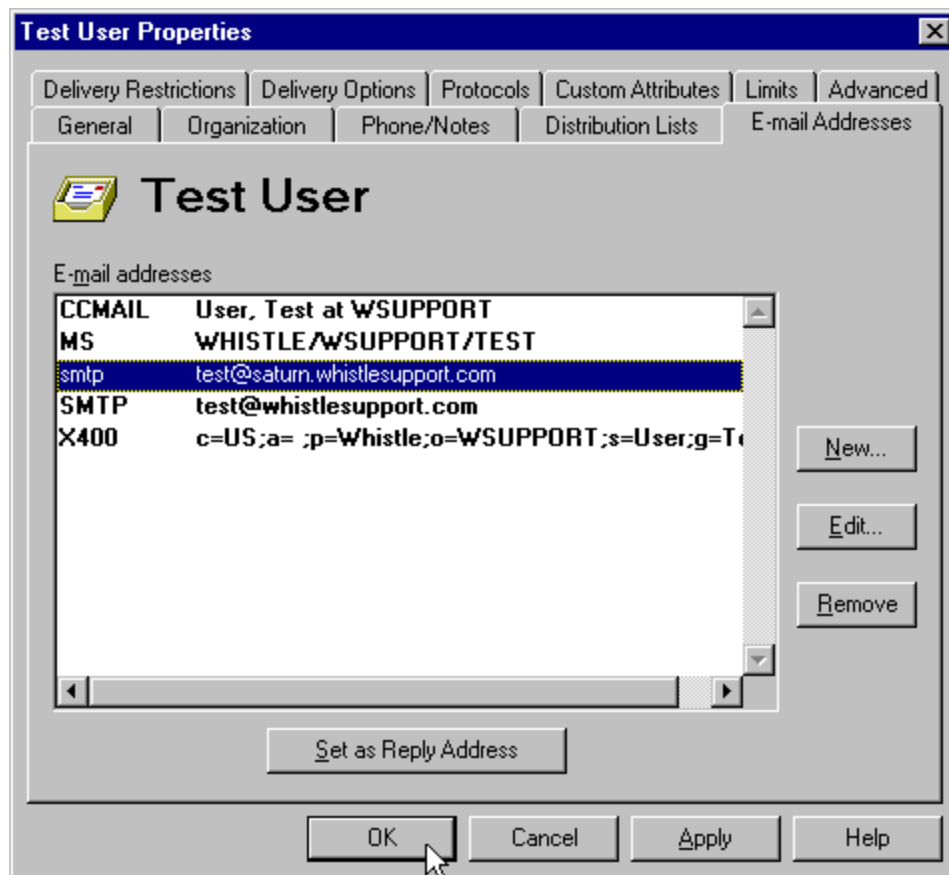
We need to add an email address, named not after the domain, but after the fully qualified host name of the Microsoft Exchange 5.5 server, as we discussed [at the start of this section](#), so we click **New...**:



We select **Internet Address**, and click **OK**:



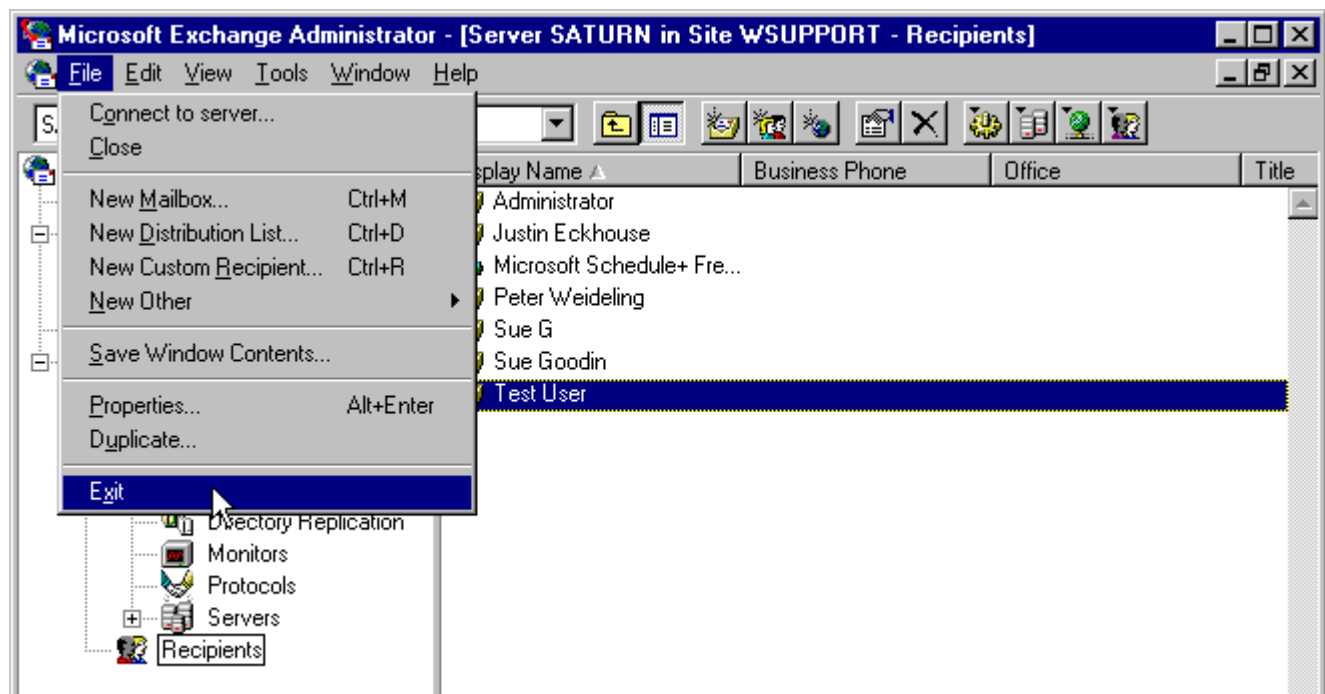
Now we enter the address for the Microsoft Exchange 5.5 server itself. The user already has an SMTP address at the domain, which in our example was **test@whistlesupport.com**. Since our Microsoft Exchange 5.5 server is named **saturn**, we need to add **test@saturn.whistlesupport.com**. Click **OK**; we see the new address show up in the **E-mail addresses** list for the user **Test User**, and we see that the entry is correct:



We click **OK**, and return to the Recipients list, where we can add incoming Internet email addresses for the other Microsoft Exchange 5.5 server users. When we are done, we go on to the next section.

4.6 Exit the Microsoft Exchange Administrator program

After setting up all of the Microsoft Exchange 5.5 server user accounts whom you wish to receive incoming Internet email, we're done:



Select *Exit* from the *File* menu to exit out of the *Microsoft Exchange Administrator* program.

5 End of Document