



Using a Commercial Email Account with IRIDIUM

Application Note

Using a Commercial Email Account with IRIDIUM

1	Introduction.....	3
1.1	PURPOSE.....	3
1.2	BACKGROUND.....	3
2	Client Software Configuration.....	4
2.1	MICROSOFT OUTLOOK 98 AND 2000.....	4
2.2	OUTLOOK EXPRESS (IE5).....	10
2.3	NETSCAPE MESSENGER 4.7.....	17

1 Introduction

1.1 Purpose

This document is intended to provide the reader with the information required to configure their Email client software in order to send and receive Email via the IRIDIUM system. It is specifically oriented toward using a widely used commercial Email service such as that provided by Yahoo!

1.2 Background

Figure 1 illustrates the use of Iridium to operate with an Email provider (e.g., Yahoo!) on the Internet. As shown, this can be accomplished either using the Iridium Direct Internet service, or using Iridium Dial-up Data service and an Internet Service Provider (ISP).

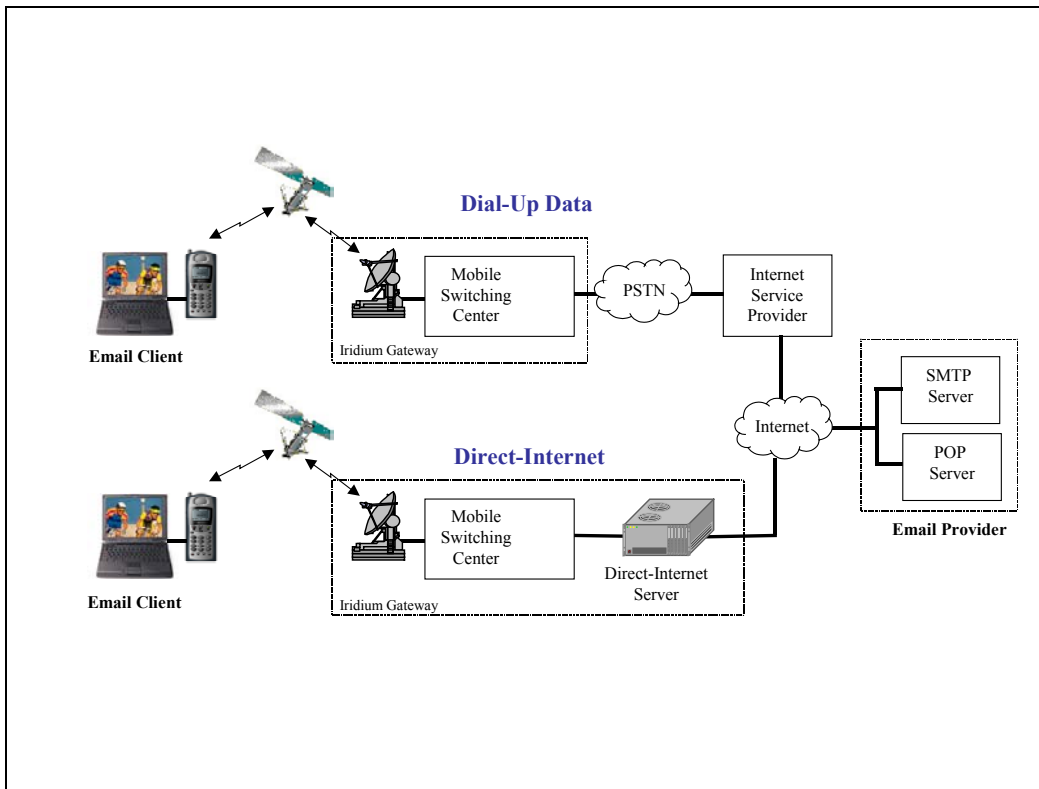


Figure 1. Email Connectivity Using Iridium.

As indicated in Figure 1, there are two servers that are used by the Email Provider, an SMTP server and a POP server. SMTP (short for Simple Mail Transfer Protocol) is a protocol for sending Email messages between computers. Whenever an Email user wishes to send an Email, their Email client software (for example, Microsoft Outlook) connects to the SMTP server and transfers the message(s) to be sent. The SMTP server subsequently forwards the message(s) to their ultimate destination.

POP (short for Post Office Protocol), is the protocol that is predominantly used to retrieve Email. Each time a user checks for new Email, their client software connects to the POP server to check for mail and then downloads any new messages. It is worth noting that some servers today use the IMAP (Internet Message Access Protocol) for this purpose, although POP is much more widely used. This document only addresses the use of a POP server.

2 Client Software Configuration

In order to configure your Email client software to successfully send and receive messages, the following information must be specified within your client's configuration:

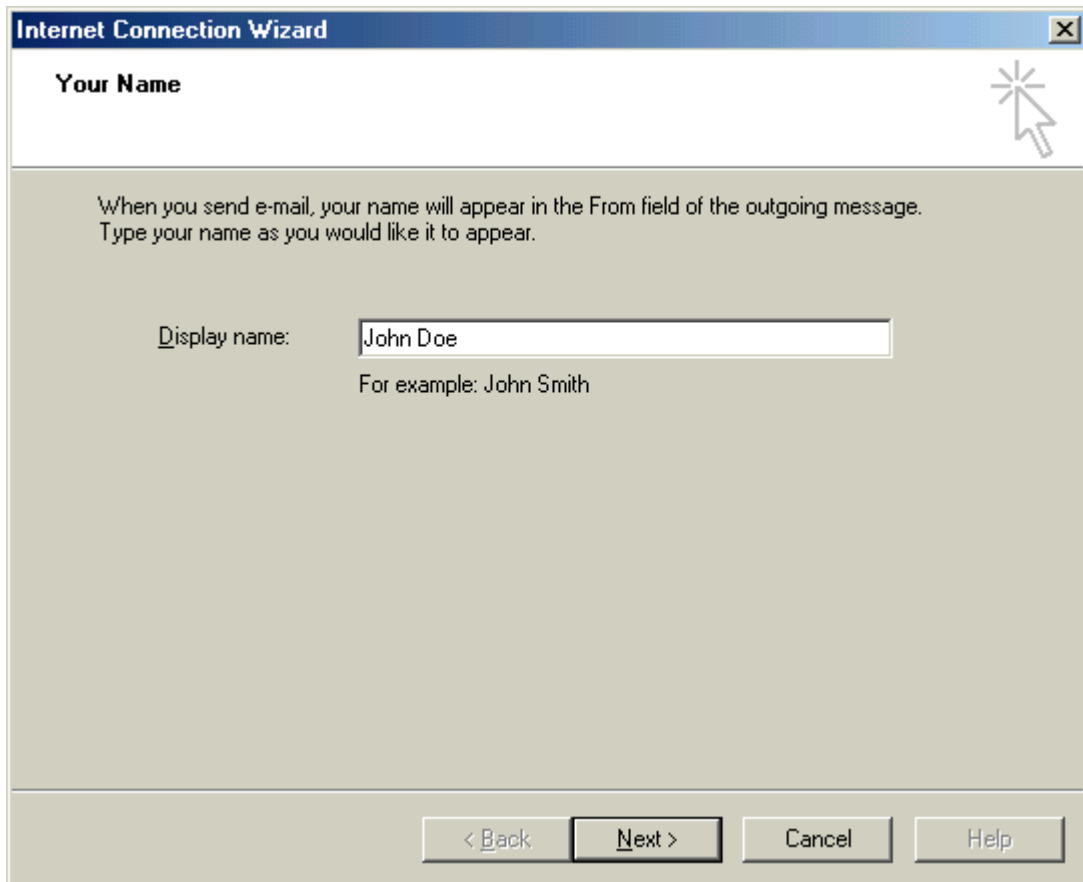
- Your name
- Your Email address
- The address of your POP server
- The address of your SMTP server
- Your username and password

The sections that follow provide detailed instruction for configuring some popular Email clients.

2.1 Microsoft Outlook 98 and 2000

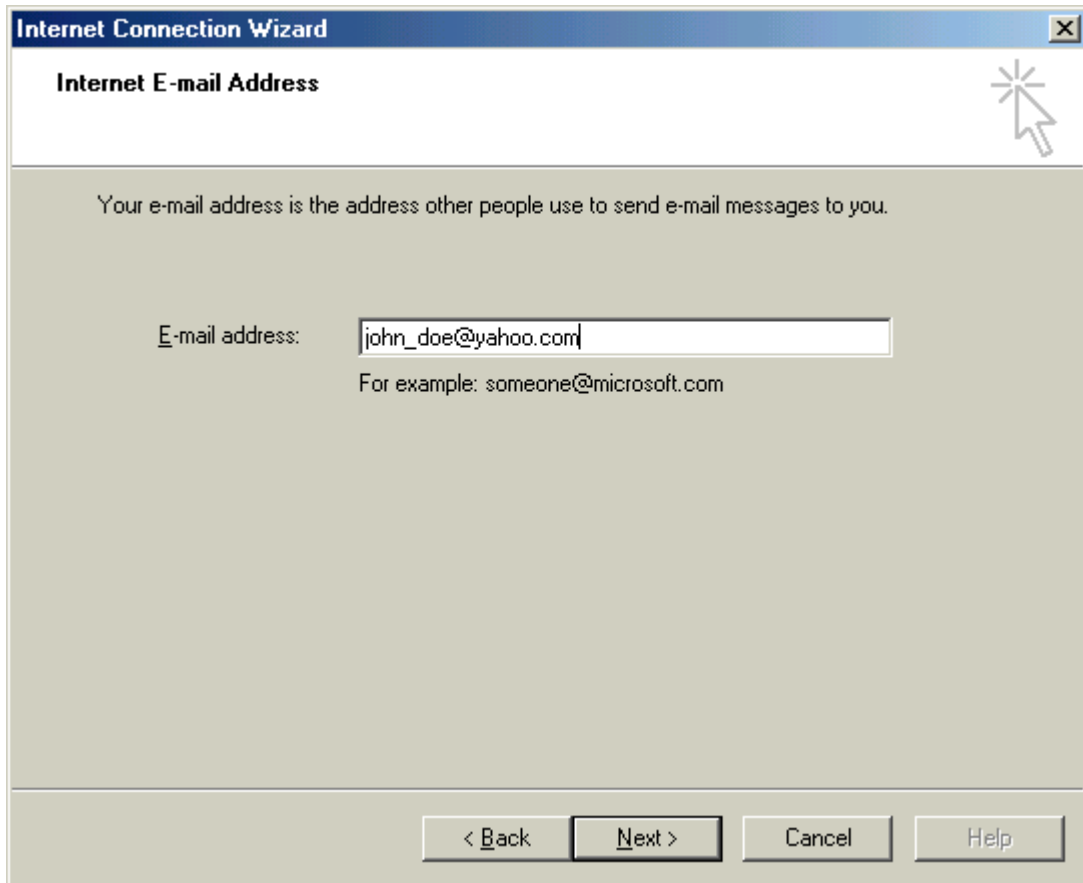
To add a new email account to your existing profile:

1. From the Tools menu, select *Accounts*. If you do not see *Accounts*, place your cursor over the two arrows at the bottom of the list to display more choices.
2. Click the *Add* button.
3. From the *Add* menu, click *Mail*.
4. Type your name as you would like it to appear when you send a message in the *Display name* box and click *Next*.



Using a Commercial Email Account with IRIDIUM

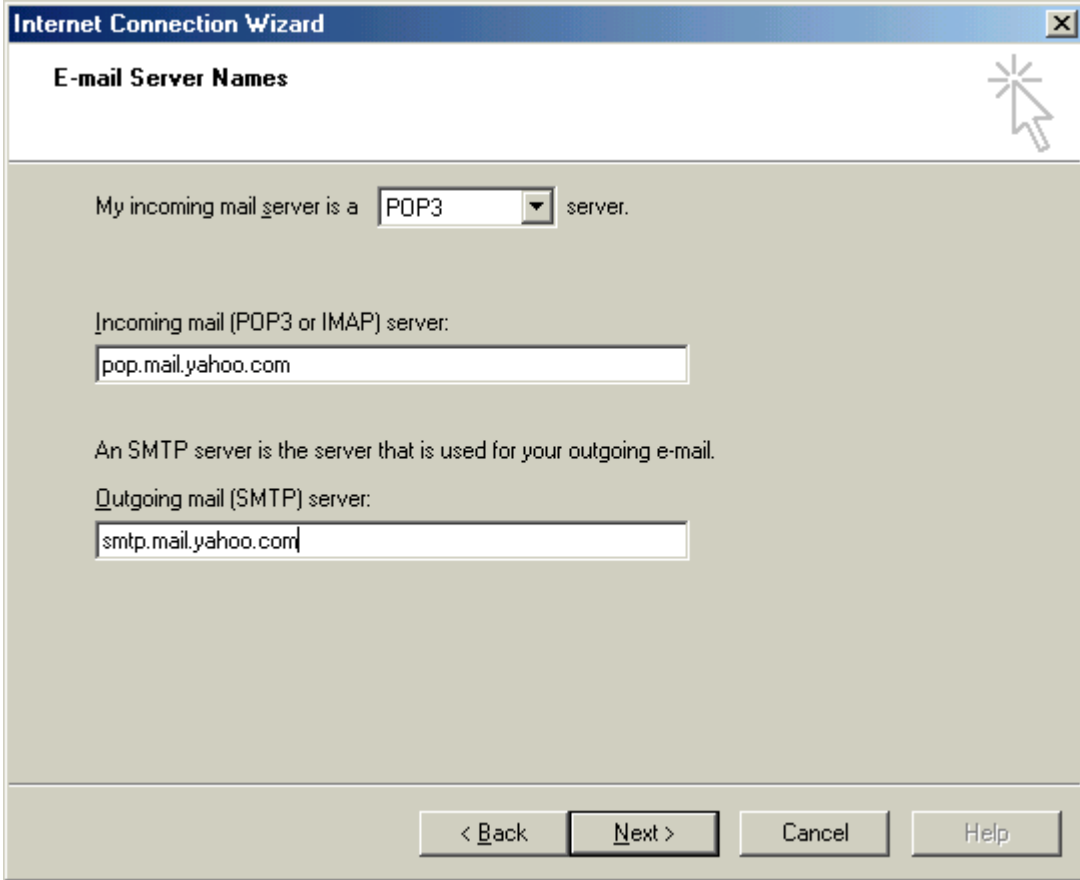
5. In the *Email Address* box, enter your Email address (for example, *john_doe@yahoo.com*) and click *Next*.



The screenshot shows a Windows-style dialog box titled "Internet Connection Wizard" with a close button (X) in the top right corner. The main title of the dialog is "Internet E-mail Address". Below the title bar, there is a mouse cursor icon pointing towards the top right. The main content area contains the text: "Your e-mail address is the address other people use to send e-mail messages to you." Below this text is a label "E-mail address:" followed by a text input field containing the text "john_doe@yahoo.com". Underneath the input field is the text "For example: someone@microsoft.com". At the bottom of the dialog, there are four buttons: "< Back", "Next >", "Cancel", and "Help".

Using a Commercial Email Account with IRIDIUM

6. Select *My incoming mail server is a POP3 server*. In the *Incoming Mail (POP3 or IMAP) Server* box, enter the address for your POP server (for example, if you have a mail account with Yahoo, you would enter *pop.mail.yahoo.com*). In the *Outgoing Mail (SMTP) Server* box, enter the address for your SMTP server (for example, if you have a mail account with Yahoo, you would enter *smtp.mail.yahoo.com*). Click *Next*.



The screenshot shows a Windows-style dialog box titled "Internet Connection Wizard" with a close button (X) in the top right corner. The main title of the dialog is "E-mail Server Names". In the top right corner of the dialog area, there is a mouse cursor icon pointing at a starburst symbol. The dialog contains the following text and input fields:

My incoming mail server is a server.

Incoming mail (POP3 or IMAP) server:

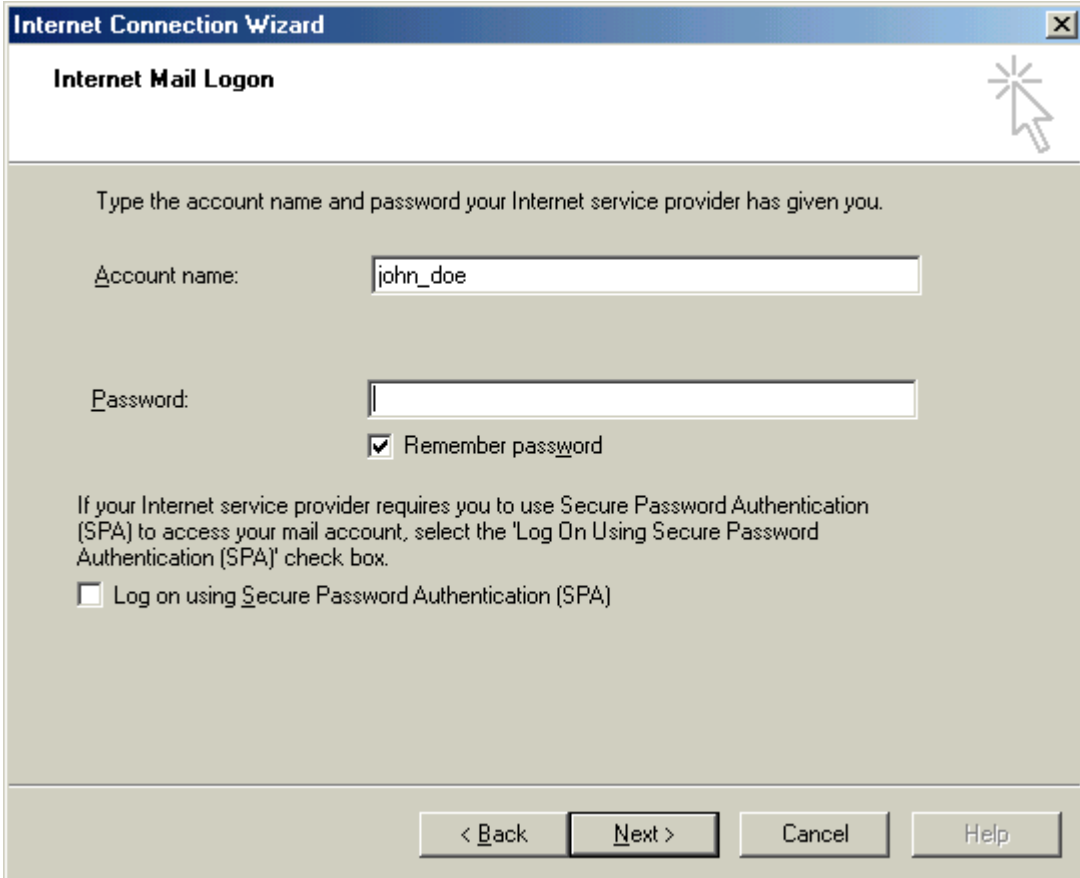
An SMTP server is the server that is used for your outgoing e-mail.

Outgoing mail (SMTP) server:

At the bottom of the dialog, there are four buttons: "< Back", "Next >", "Cancel", and "Help".

Using a Commercial Email Account with IRIDIUM

7. In the *Account Name* box, enter the username portion of your Email address (for example, if your Email address is *john_doe@yahoo.com*, then enter *john_doe*). In the *Password* box, enter your password. You should have received a password when you arranged for your Email service. Check *Remember Password* if you do not want Outlook to prompt you for your password every time you check your mail. Do **not** check the box labeled *Log on using Secure Password Authentication* unless explicitly instructed to do so by your email provider. Click *Next*.

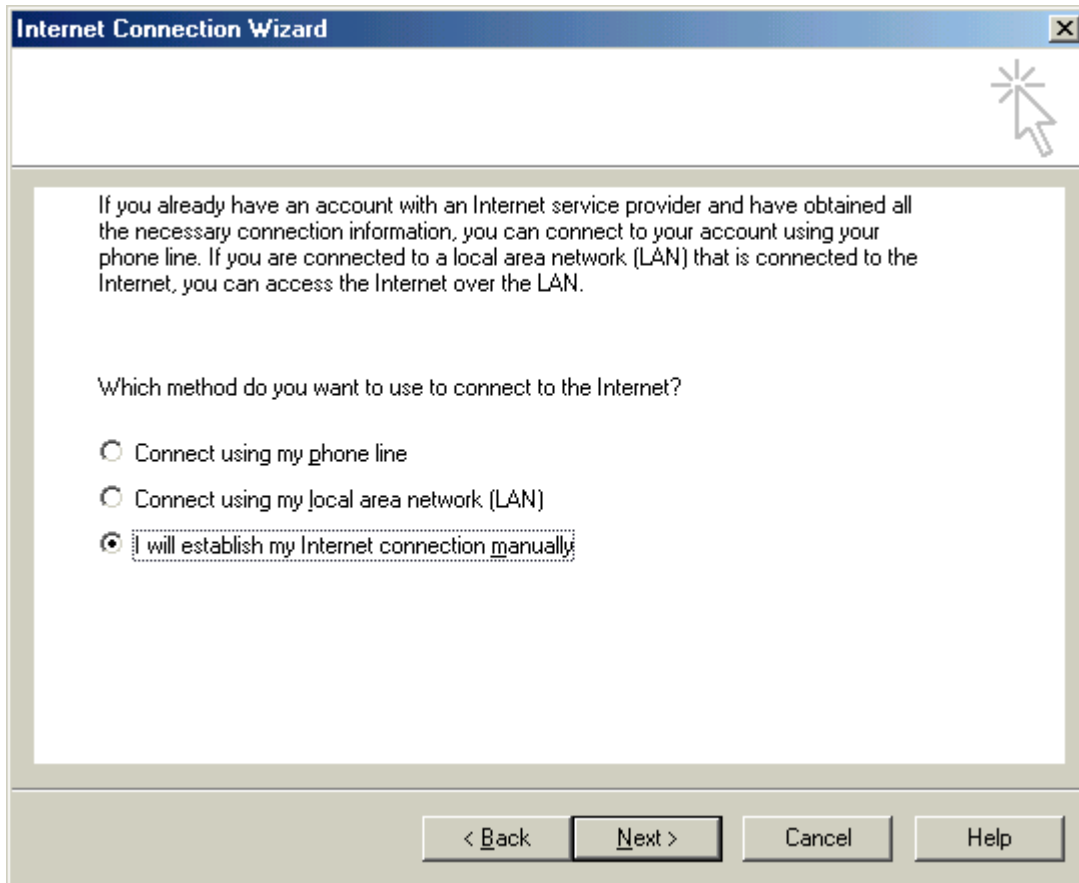


The screenshot shows a Windows dialog box titled "Internet Connection Wizard" with a sub-header "Internet Mail Logon". The dialog contains the following elements:

- A text prompt: "Type the account name and password your Internet service provider has given you."
- An "Account name:" label followed by a text input field containing "john_doe".
- A "Password:" label followed by an empty password input field.
- A checked checkbox labeled "Remember password".
- Instructional text: "If your Internet service provider requires you to use Secure Password Authentication (SPA) to access your mail account, select the 'Log On Using Secure Password Authentication (SPA)' check box."
- An unchecked checkbox labeled "Log on using Secure Password Authentication (SPA)".
- Four buttons at the bottom: "< Back", "Next >", "Cancel", and "Help".

Using a Commercial Email Account with IRIDIUM

8. Select *I will establish my Internet connection manually* when asked, *Which Method Do You Use to Connect to the Internet?* Click *Next*.



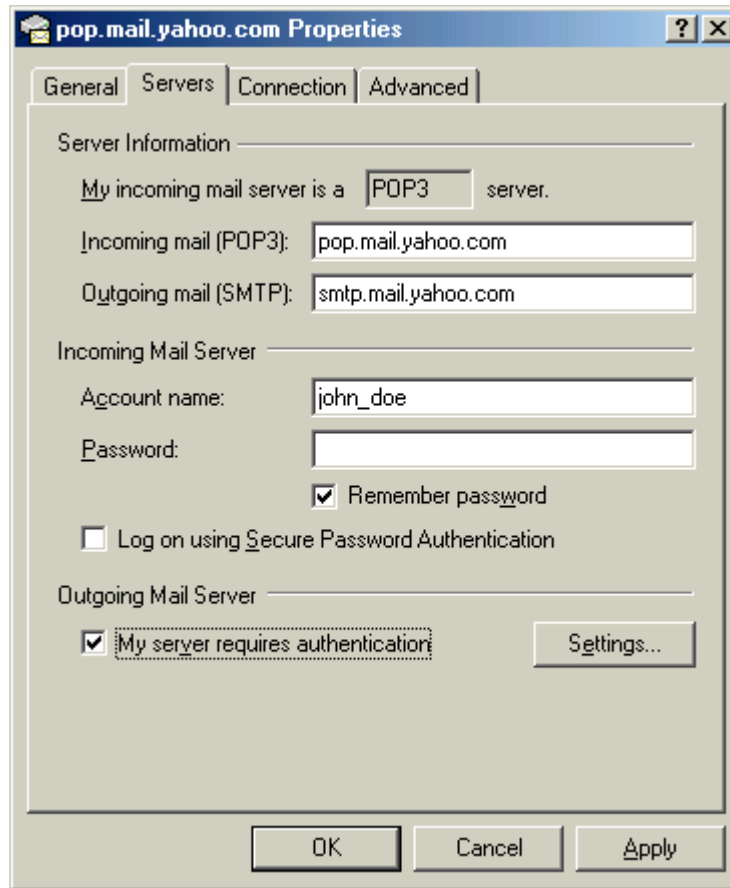
9. Click *Finish*.

Some outgoing (SMTP) servers authenticate users when sending Email (for example, Yahoo! Mail does this). If your SMTP server requires authentication:

1. From the *Tools* menu, choose *Accounts*.
2. Select the *Mail* tab.
3. Select your Email account and click *Properties*.

Using a Commercial Email Account with IRIDIUM

4. Click on the *Servers* tab. Check the box next to *My Server Requires Authentication*. Click *OK*.

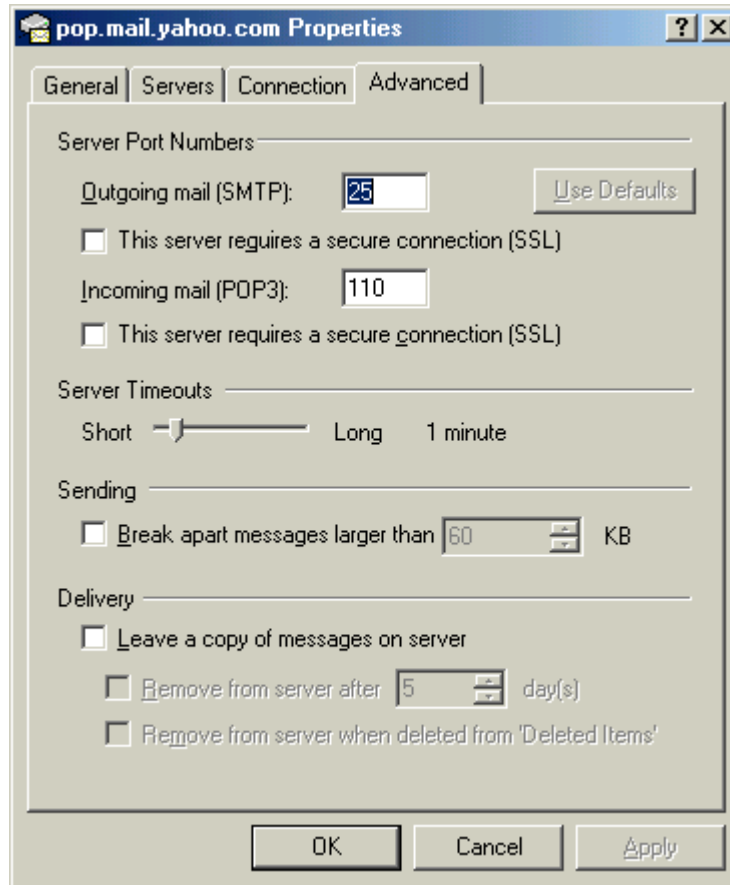


When you download messages from your POP server, you can choose whether to delete your messages from the server once they have been successfully downloaded. To do this:

1. From the *Tools* menu, select *Accounts*.
2. Click on the *Mail* tab.
3. Select your Email account and click *Properties*.

Using a Commercial Email Account with IRIDIUM

4. Click on the *Advanced* tab. Check *Leave a copy of messages on server* if you want to save your Email messages on the POP server as well as on your local computer. Do not check this box if you want your messages to be deleted from the server once you have received them in Outlook. Click *OK*.



Close Microsoft Outlook and restart the application.

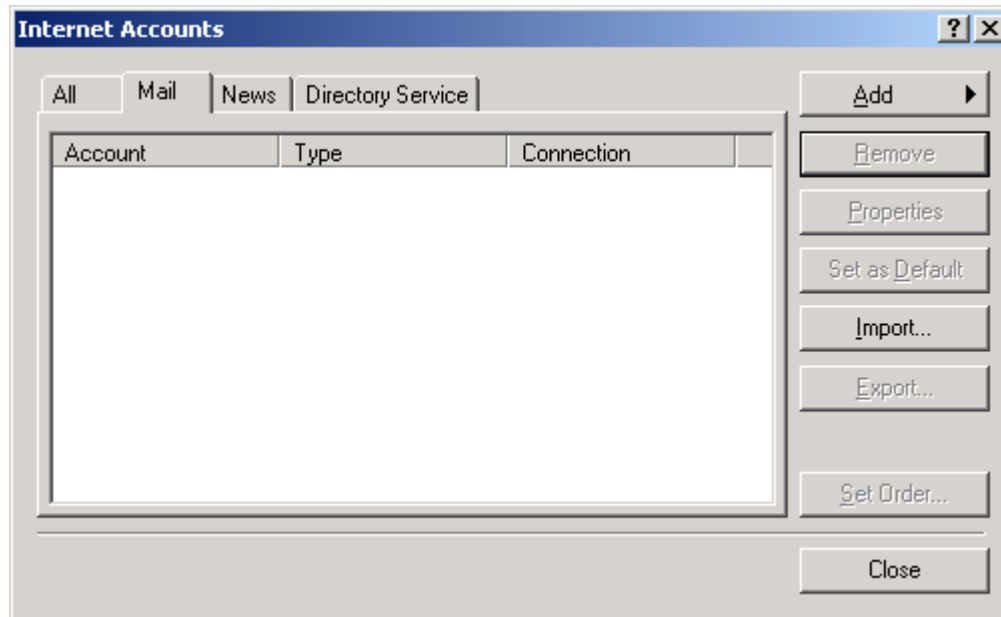
2.2 Outlook Express (IE5)

Outlook Express allows you to add a new email account to your existing profile. This means you do not have to replace your current settings in order to send and receive Yahoo! Mail messages. Here's how:

1. From the Tools menu, choose *Accounts*.

Using a Commercial Email Account with IRIDIUM

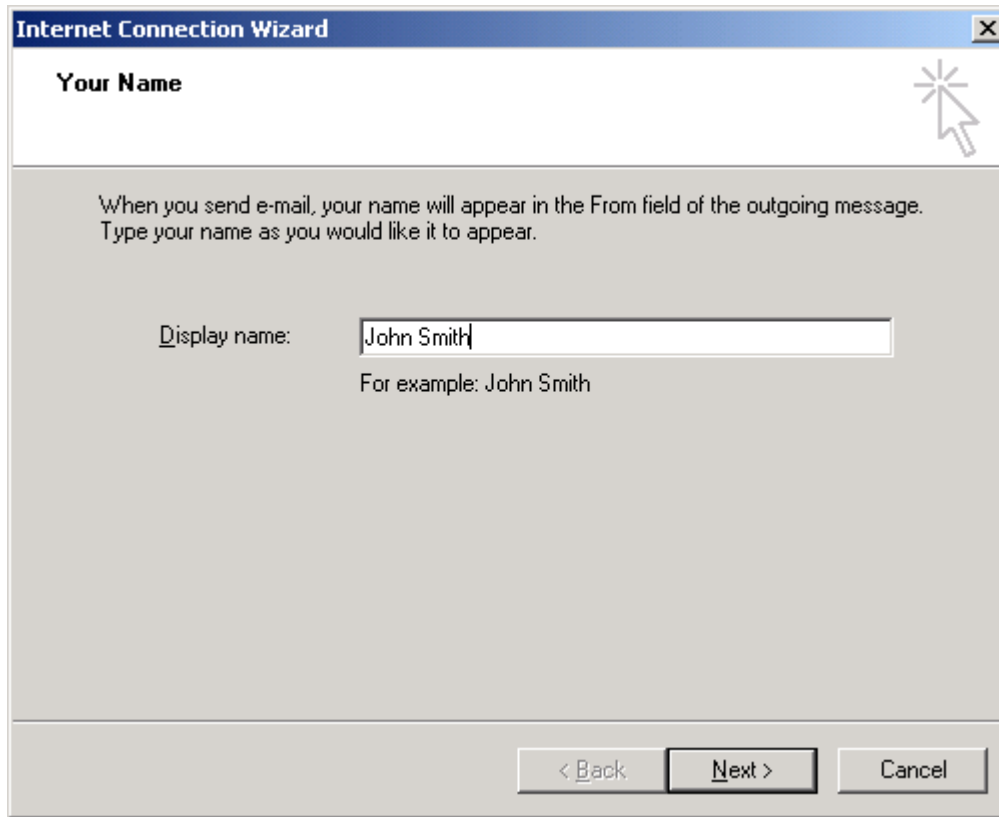
2. Select the *Mail* tab.



3. Click the *Add* button.
4. From the *Add* menu, click *Mail*.

Using a Commercial Email Account with IRIDIUM

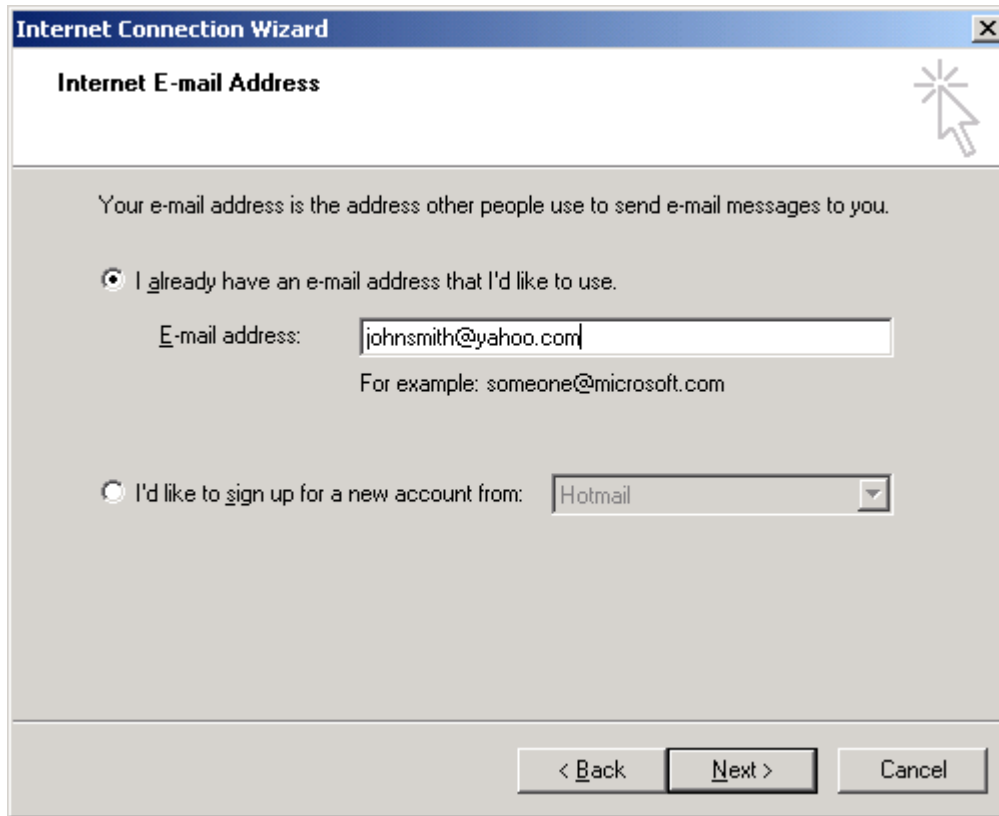
5. In the text box labeled *Display Name*, type your name and click *Next*.



The screenshot shows a Windows-style dialog box titled "Internet Connection Wizard" with a close button (X) in the top right corner. The main heading is "Your Name". Below the heading is a mouse cursor icon. The main text reads: "When you send e-mail, your name will appear in the From field of the outgoing message. Type your name as you would like it to appear." Below this text is a label "Display name:" followed by a text input field containing "John Smith". Underneath the input field is the text "For example: John Smith". At the bottom of the dialog box are three buttons: "< Back", "Next >", and "Cancel".

Using a Commercial Email Account with IRIDIUM

6. In the Email Address box, type your Email address (for example, *johnsmith@yahoo.com*) and click *Next*.



The screenshot shows a Windows-style dialog box titled "Internet Connection Wizard" with a close button (X) in the top right corner. The main title of the dialog is "Internet E-mail Address". Below the title bar, there is a mouse cursor icon pointing towards the top right. The main content area contains the following text and controls:

Your e-mail address is the address other people use to send e-mail messages to you.

I already have an e-mail address that I'd like to use.

E-mail address:

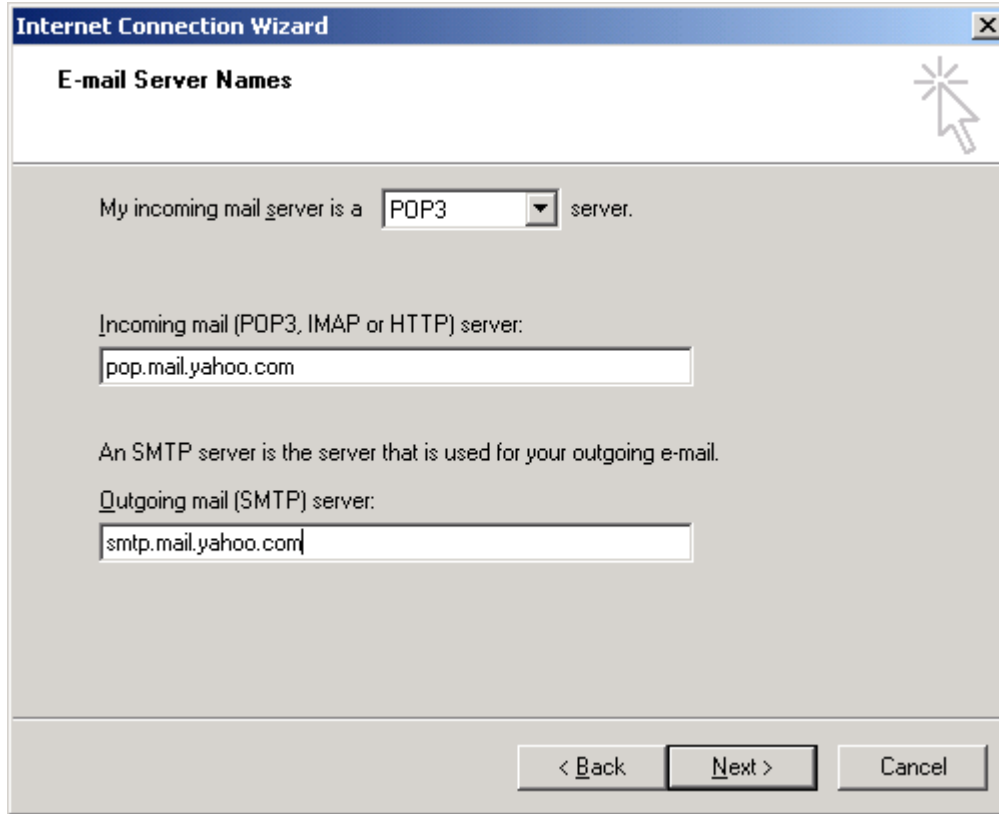
For example: someone@microsoft.com

I'd like to sign up for a new account from:

At the bottom of the dialog, there are three buttons: "< Back", "Next >", and "Cancel".

Using a Commercial Email Account with IRIDIUM

7. Select *My incoming mail server is a POP3 server*. In the *Incoming mail (POP3, IMAP, or HTTP) server* box, enter the address for your POP server (for example, if you have a mail account with Yahoo, you would enter *pop.mail.yahoo.com*). In the *Outgoing mail (SMTP) server* box enter the address of your SMTP server (for example, if you have a mail account with Yahoo, you would enter *smtp.mail.yahoo.com*). Click *Next*.



The screenshot shows a Windows-style dialog box titled "Internet Connection Wizard" with a close button (X) in the top right corner. The main title of the dialog is "E-mail Server Names".

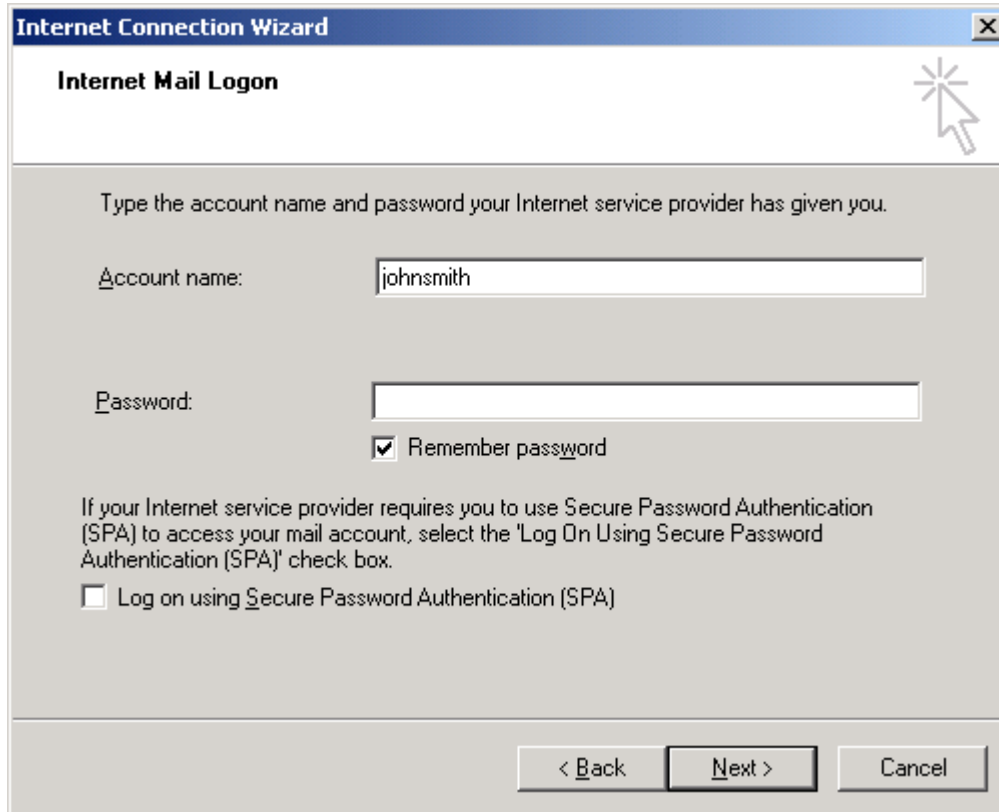
The dialog contains the following text and input fields:

- "My incoming mail server is a server." (The dropdown menu is currently set to "POP3")
- "Incoming mail (POP3, IMAP or HTTP) server:" followed by a text input field containing "pop.mail.yahoo.com".
- "An SMTP server is the server that is used for your outgoing e-mail."
- "Outgoing mail (SMTP) server:" followed by a text input field containing "smtp.mail.yahoo.com".

At the bottom of the dialog, there are three buttons: "< Back", "Next >", and "Cancel". A mouse cursor is visible over the "Next >" button.

Using a Commercial Email Account with IRIDIUM

8. In the *Account Name* box, enter the username portion of your Email address (for example, if your Email address is *johnsmith@yahoo.com*, then enter *johnsmith*). In the *Password* box, enter your password. You should have received a password when you arranged for your Email service. Check *Remember Password* if you do not want Outlook to prompt you for your password every time you check your mail. Do **not** check the box labeled *Log on using Secure Password Authentication* unless explicitly instructed to do so by your email provider. Click *Next*.



The screenshot shows a Windows dialog box titled "Internet Connection Wizard" with a sub-header "Internet Mail Logon". The main text reads: "Type the account name and password your Internet service provider has given you." There are two input fields: "Account name:" with the text "johnsmith" and "Password:" which is currently empty. Below the password field is a checked checkbox labeled "Remember password". Further down, there is a paragraph: "If your Internet service provider requires you to use Secure Password Authentication (SPA) to access your mail account, select the 'Log On Using Secure Password Authentication (SPA)' check box." Below this is an unchecked checkbox labeled "Log on using Secure Password Authentication (SPA)". At the bottom of the dialog are three buttons: "< Back", "Next >", and "Cancel".

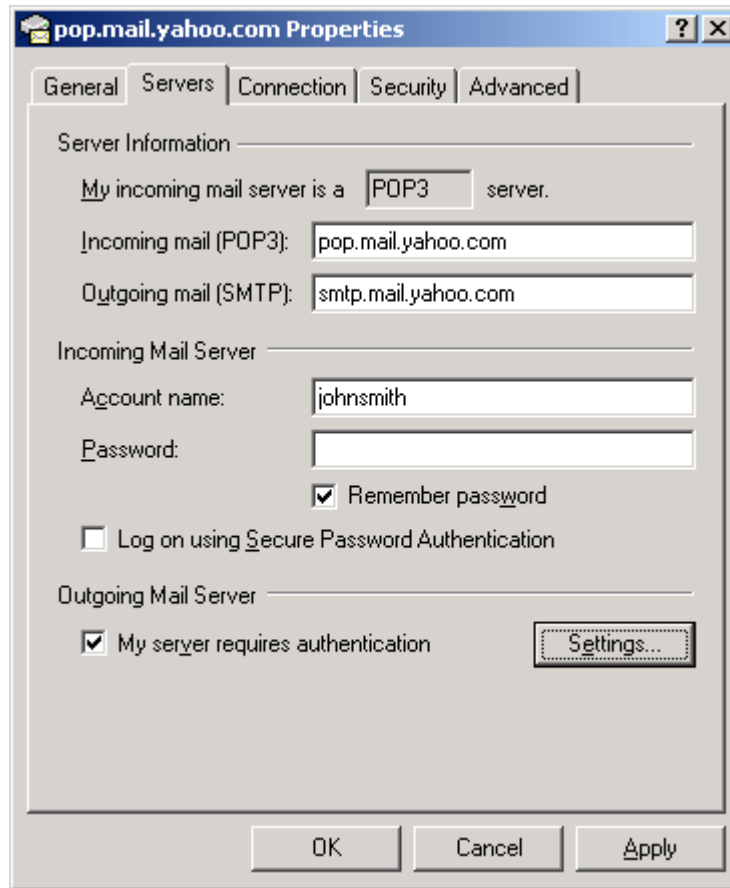
9. Click *Finish*.

Some outgoing (SMTP) servers authenticate users when sending Email (for example, Yahoo! Mail does this). If your SMTP server requires authentication:

1. From the Tools menu, choose *Accounts*.
2. Select the *Mail* tab.
3. Double-click on your mail account (for example, *Yahoo Mail*)

Using a Commercial Email Account with IRIDIUM

4. Select the *Servers* tab. Check the box next to *My Server Requires Authentication*. Click *OK*.

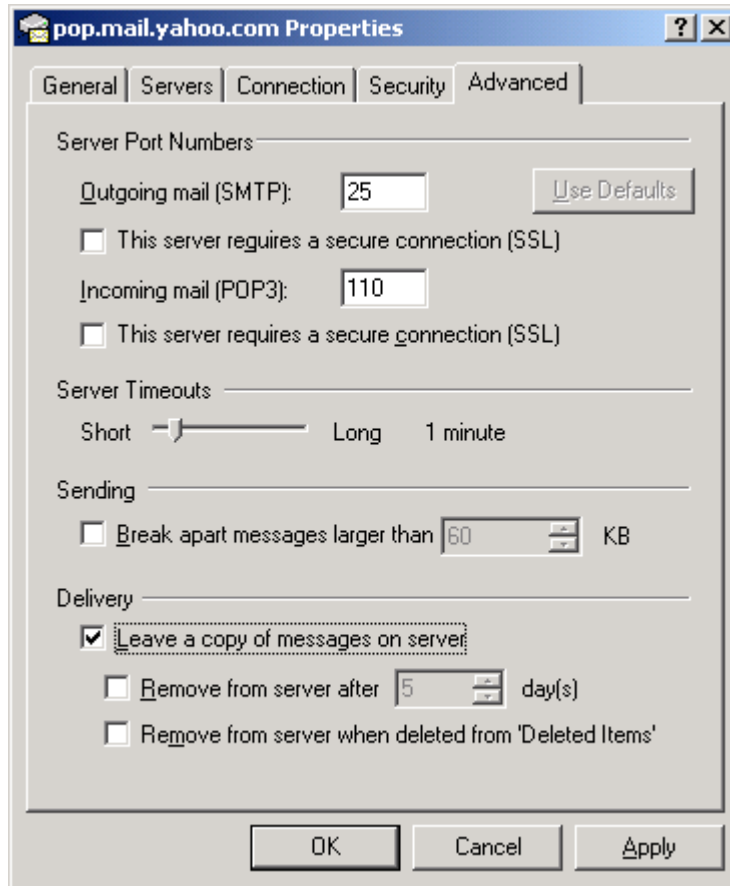


When you download messages from your POP server, you can choose whether to delete your messages from the server once they have been successfully downloaded. To do this:

1. From the Tools menu, choose *Accounts*.
2. Select the *Mail* tab.
3. Double click on your mail account.

Using a Commercial Email Account with IRIDIUM

4. Select the *Advanced* tab. Check *Leave a copy of messages on server* if you want to save your Email messages on the POP server as well as on your local computer. Do not check this box if you want your messages to be deleted from the server once you have received them in Outlook Express. Click *OK*.

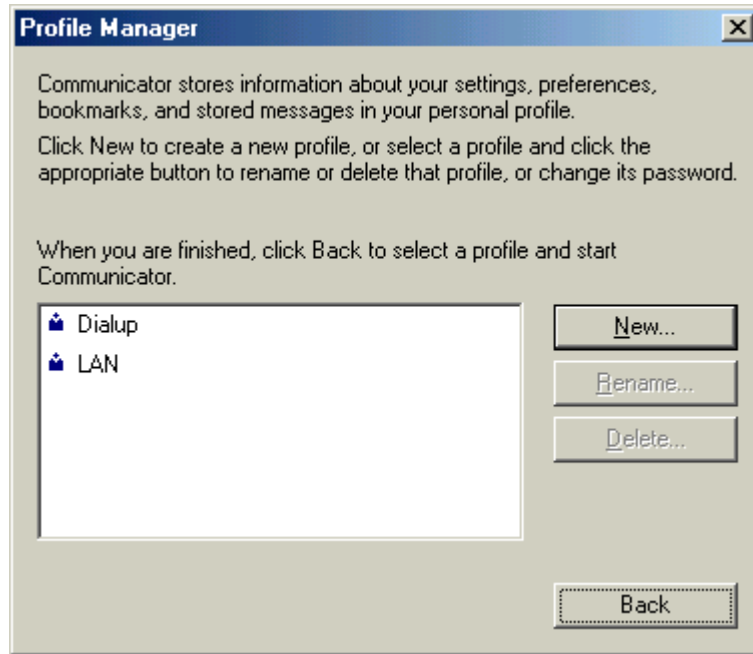


2.3 Netscape Messenger 4.7

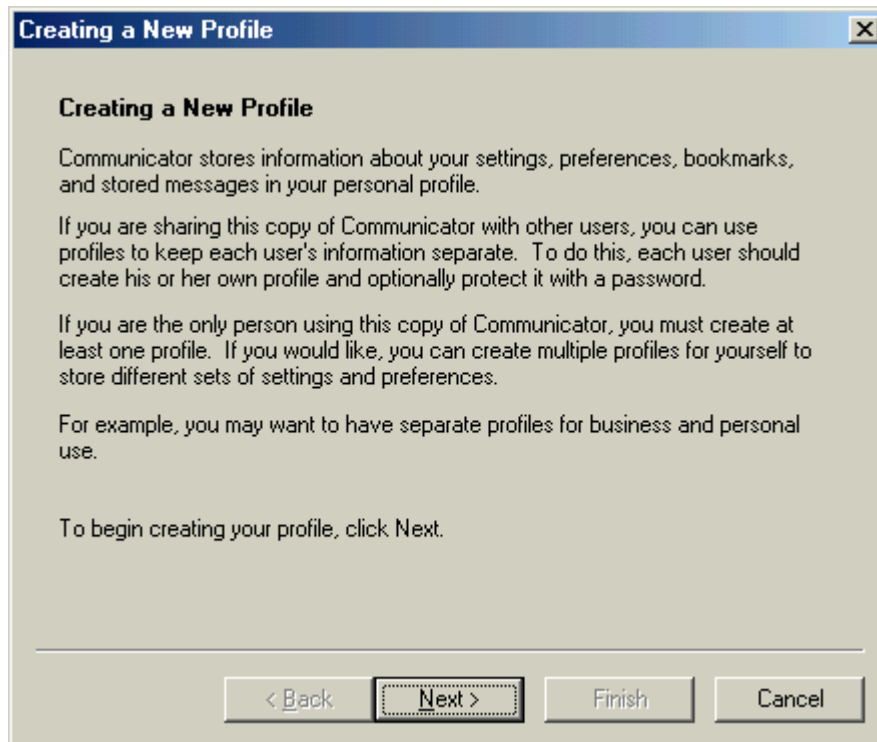
Netscape provides the ability to store different user settings and preferences under separate user profiles. While not necessary, if you use your Netscape Communicator to browse the Internet or check email via alternate connections (for example, corporate LAN at work, dial-up ISP at home, Direct-Internet over Iridium), it is recommended that you setup a unique profile for your Email access using Iridium. To do this:

Using a Commercial Email Account with IRIDIUM

1. Choose *Start>Programs>Netscape Communicator>Utilities>User Profile Manager* to open the Profile Manager window. Click *New...* to create a new user profile to use for Iridium Satellite data services

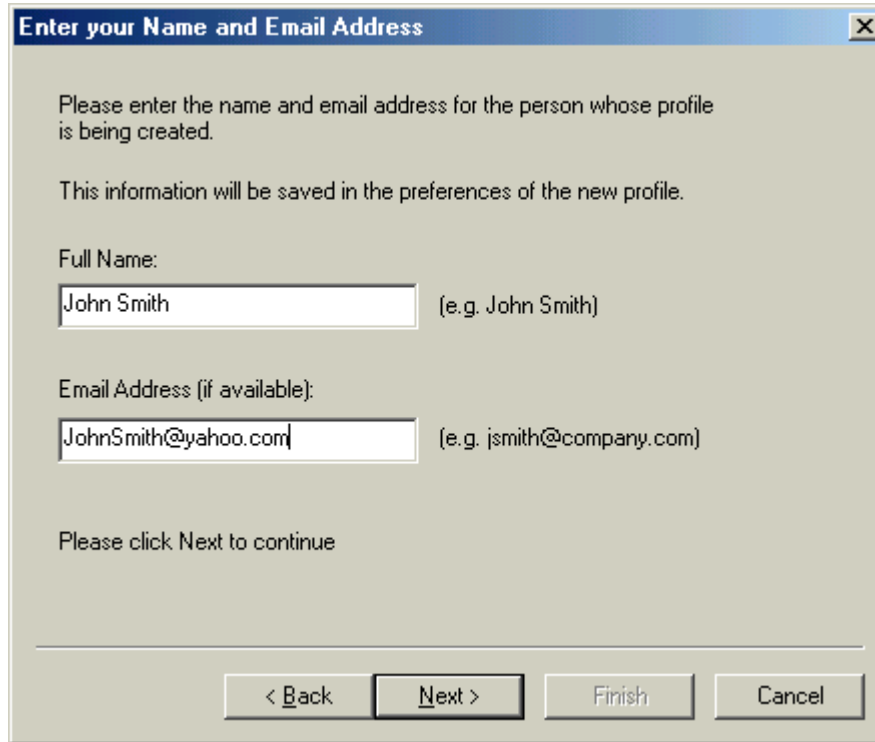


2. Click *Next*.



Using a Commercial Email Account with IRIDIUM

3. In the box labeled *Full Name*: enter your name. In the box labeled *Email Address (if available)*: enter your Email address (for example, *JohnSmith@yahoo.com*). Click *Next*.



The dialog box has a title bar that reads "Enter your Name and Email Address" with a close button (X) on the right. The main content area contains the following text and fields:

Please enter the name and email address for the person whose profile is being created.

This information will be saved in the preferences of the new profile.

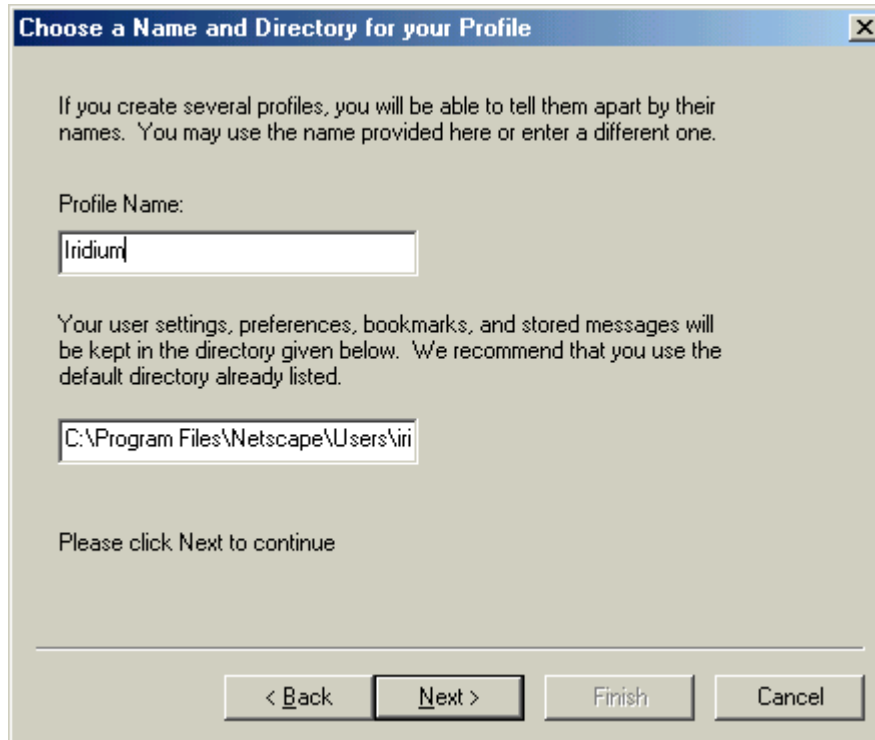
Full Name:
 (e.g. John Smith)

Email Address (if available):
 (e.g. jsmith@company.com)

Please click Next to continue

At the bottom, there are four buttons: "< Back", "Next >", "Finish", and "Cancel".

4. Under *Profile Name*: enter the name you would like to assign this profile (for example, *Iridium*). Click *Next*.



The dialog box has a title bar that reads "Choose a Name and Directory for your Profile" with a close button (X) on the right. The main content area contains the following text and fields:

If you create several profiles, you will be able to tell them apart by their names. You may use the name provided here or enter a different one.

Profile Name:

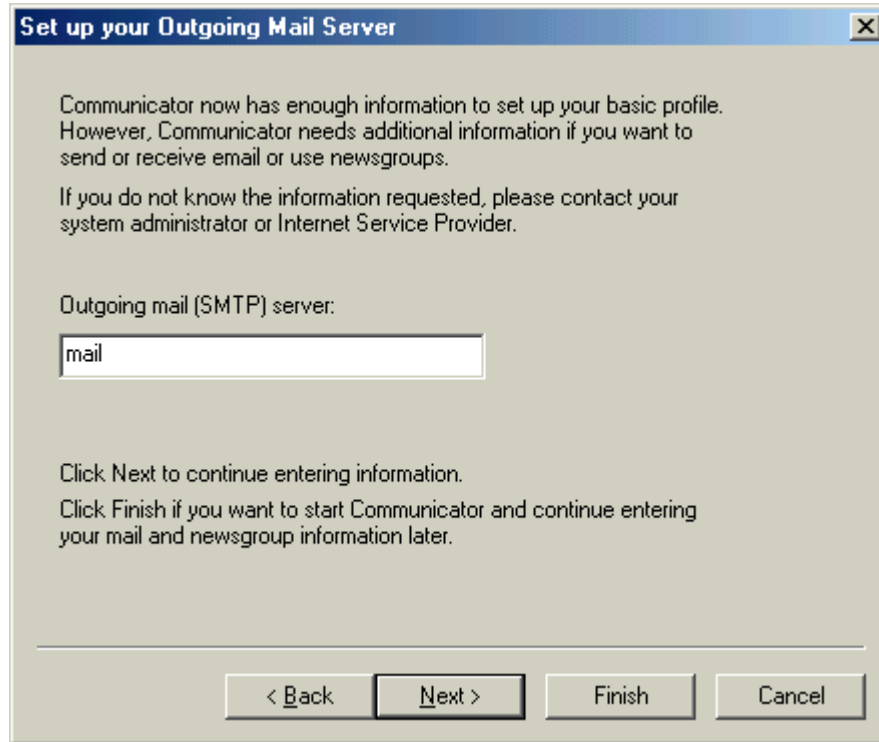
Your user settings, preferences, bookmarks, and stored messages will be kept in the directory given below. We recommend that you use the default directory already listed.

Please click Next to continue

At the bottom, there are four buttons: "< Back", "Next >", "Finish", and "Cancel".

Using a Commercial Email Account with IRIDIUM

5. Click *Finish*.

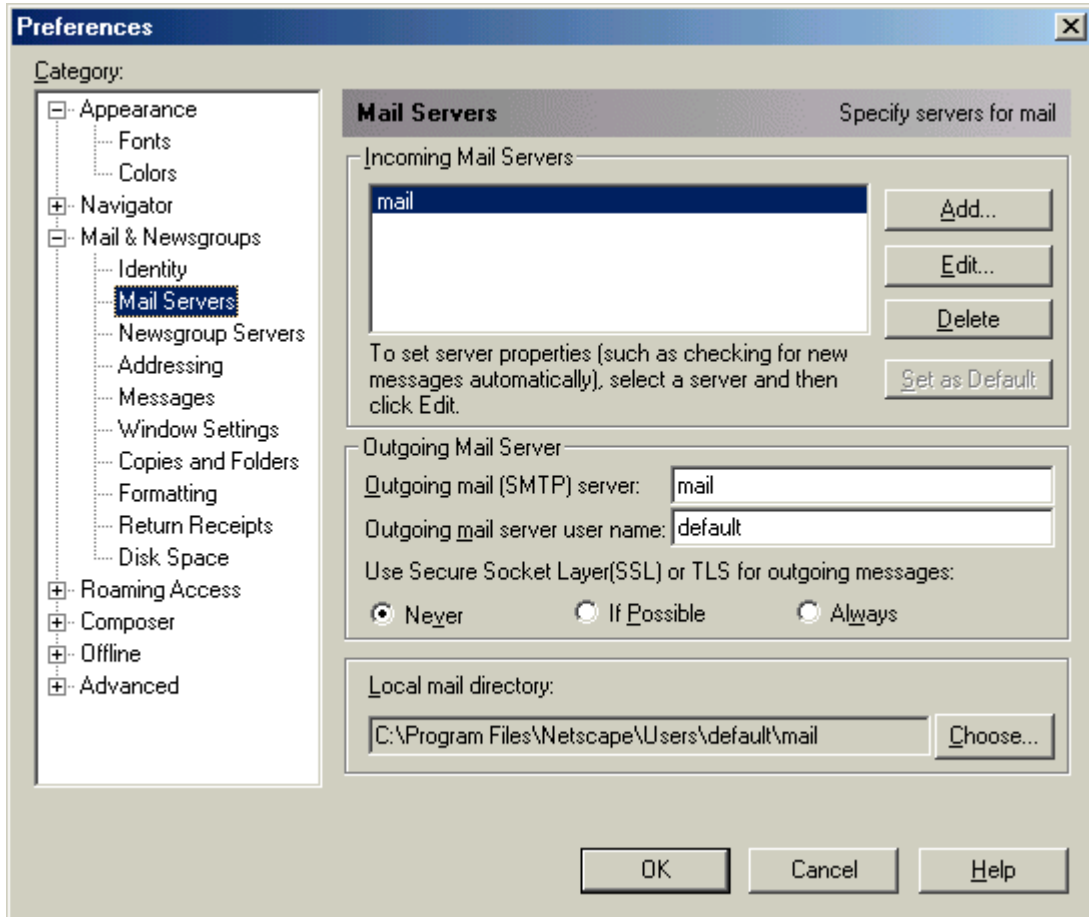


In order to configure the desired profile for Email access:

1. Start Netscape in the profile you would like to use for Email access via Iridium.
2. From the *Edit* menu on the toolbar, select *Preferences*.

Using a Commercial Email Account with IRIDIUM

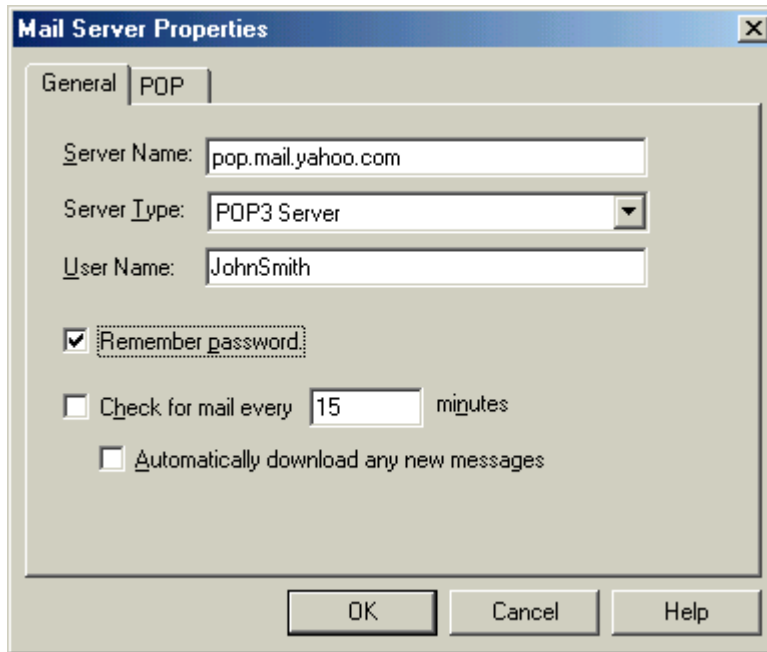
3. Under the Mail & Newsgroups category on the left, select *Mail Servers*. If *Mail Servers* is not displayed click the plus sign next to *Mail & Newsgroups*.



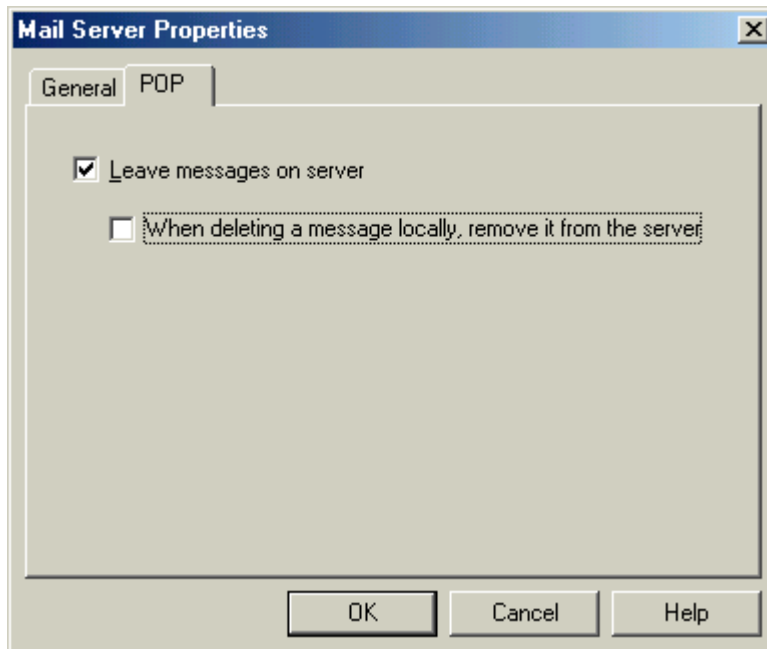
4. Click *Add* to display the *Mail Server Properties* dialog box.

Using a Commercial Email Account with IRIDIUM

5. Select the tab labeled *General*. In the *Server Name* box, type the address of your POP server (for example, "pop.mail.yahoo.com. Under *Server Type*, click the pull-down list and select *POP3 Server*. Under *User Name*, enter the username portion of your Email address (for example, if your Email address is *JohnSmith@yahoo.com*, then enter *JohnSmith*). In the *Password* box, enter your password. You should have received a password when you arranged for your Email service. Check *Remember Password* if you do not want Netscape to prompt you for your password every time you check your mail.

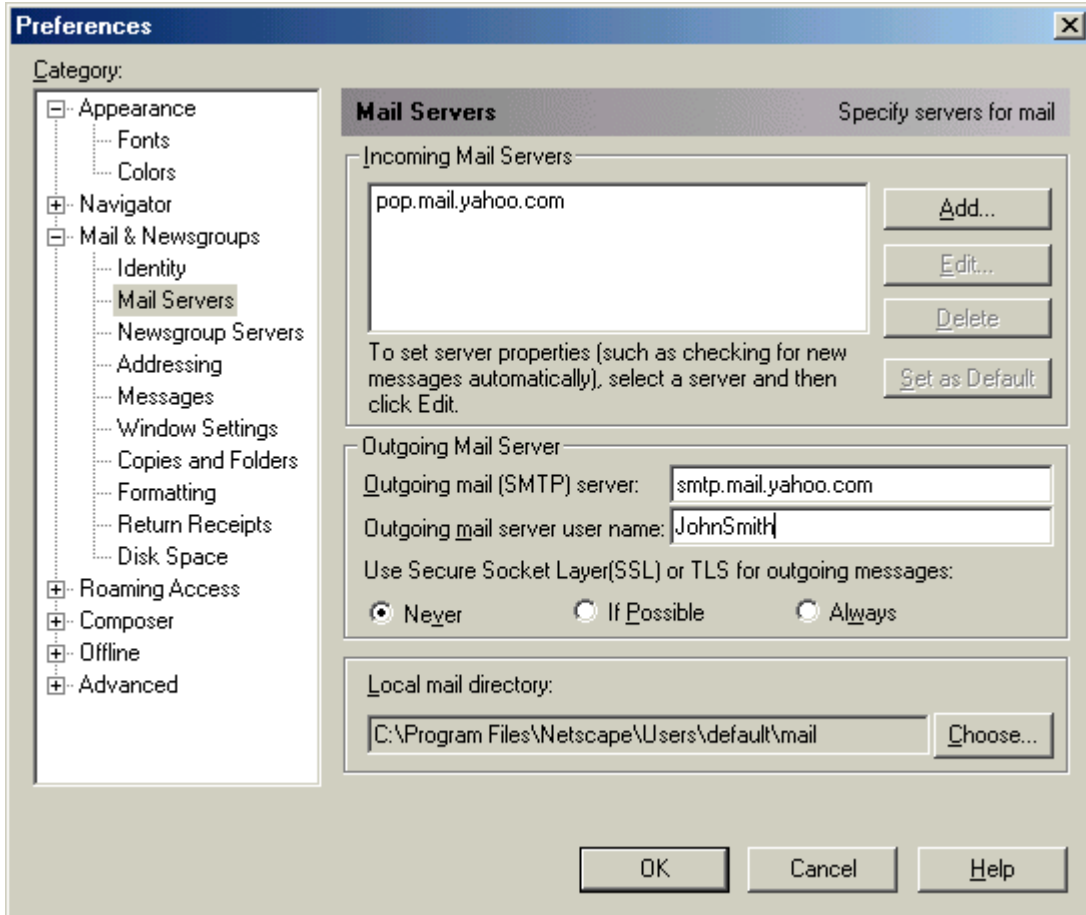


6. Select the tab labeled *POP*. When you download messages from your POP server, you can choose whether to delete your messages from the server once they have been successfully downloaded. If you want to leave messages on your POP server, check the box labeled *Leave messages on server*. Click *OK*.



Using a Commercial Email Account with IRIDIUM

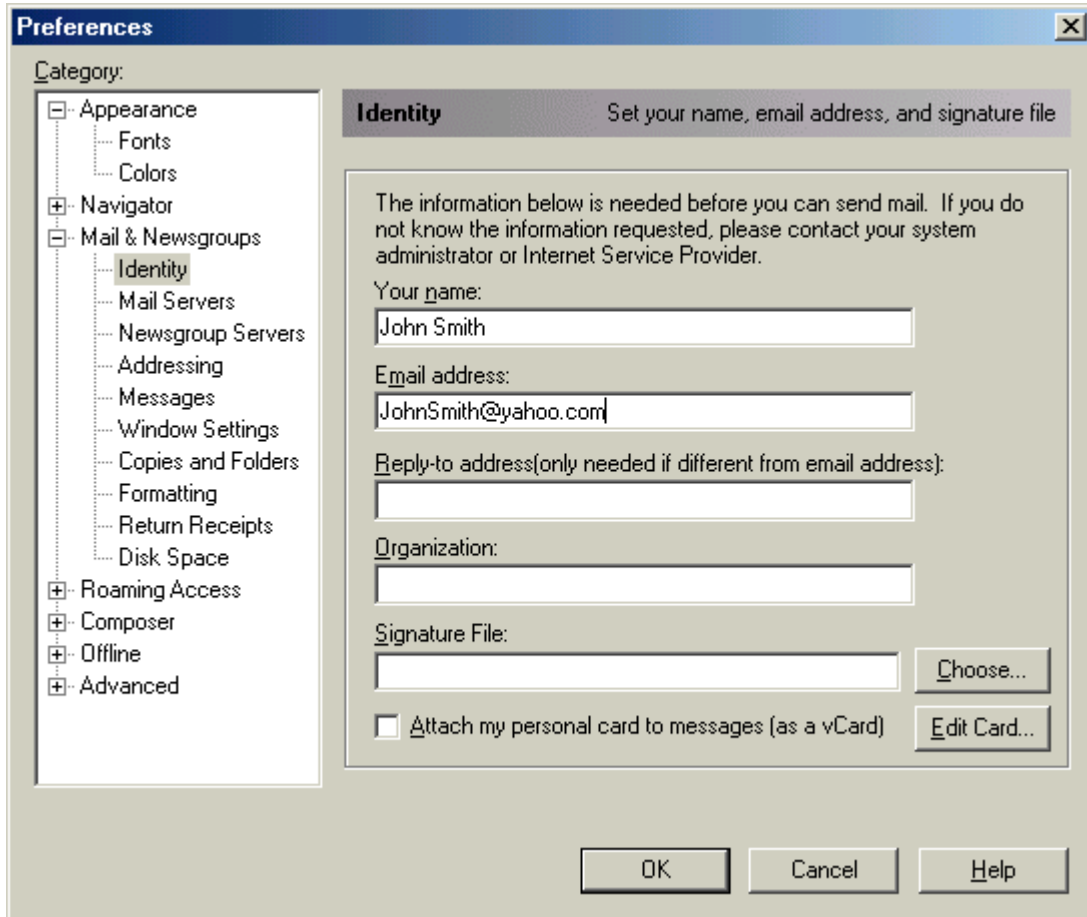
7. In the Outgoing mail (SMTP) server box, type "smtp.mail.yahoo.com"
8. In the Outgoing mail server user name box, enter the username portion of your Email address (for example, if your Email address is *JohnSmith@yahoo.com*, then enter *JohnSmith*).



9. Under the *Mail & Newsgroups* category on the left, select *Identity*.

Using a Commercial Email Account with IRIDIUM

10. Type your name in the box labeled *Your Name*. In the box labeled *Email address*: type your Email address (for example, JohnSmith@yahoo.com). Click *OK*.



Trademark Notice

Iridium and the Iridium logo are registered trademarks and/or service marks of Iridium Satellite LLC.

Windows, Windows 95, Windows 98, Windows Me, Windows NT, Windows 2000, Dial-Up Networking, Outlook, Outlook Express and Internet Explorer are registered trademarks of Microsoft Corporation.

Netscape, Netscape Navigator and Netscape Messenger are registered trademarks of Netscape Communications Corporation.

Yahoo!, Yahoo! Mail, and Yahoo are registered trademarks of Yahoo! Incorporated.

Apollo Emulator and Smart Connect are registered trademarks of Brand Communications Ltd.

Motorola and Satellite Series are registered trademarks of Motorola, Inc.