

# Using a Commercial Email Account with IRIDIUM

## **Application Note**

1	Introduction	3
	1.1 PURPOSE 1.2 BACKGROUND	3
2	Client Software Configuration	4
	<ul> <li>2.1 MICROSOFT OUTLOOK 98 AND 2000.</li> <li>2.2 OUTLOOK EXPRESS (IE5)</li></ul>	4 .10 .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*.

Internet Connection Wizard		×
Your Name		×
When you send e-mail, yo Type your name as you w	our name will appear in the From field of the outgoing message. vould like it to appear.	
Display name:	John Doe	
	For example: John Smith	
	< Back Next > Cancel	Help

#### 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*.

Internet Connection Wizard		×
Internet E-mail Address		×
Your e-mail address is the	e address other people use to send e-mail messages to you.	
<u>E</u> -mail address:	john_doe@yahoo.com	
	< <u>B</u> ack <u>N</u> ext > Cancel	Help

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*.

Internet Connection Wizard	×
E-mail Server Names	1 AL
My incoming mail <u>s</u> erver is a POP3 server.	
Incoming mail (POP3 or IMAP) server:	
pop.mail.yahoo.com	
An SMTP server is the server that is used for your outgoing e-mail. Outgoing mail (SMTP) server: smtp.mail.yahoo.com	
< <u>B</u> ack <u>N</u> ext > Canc	el Heip

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.

Internet Connection Wizard		×
Internet Mail Logon		×
Type the account name an	d password your Internet service provider has given you.	
Account name:	john_doe	
<u>P</u> assword:	Remember password	
If your Internet service provid (SPA) to access your mail ac Authentication (SPA)' check Log on using <u>S</u> ecure Pas		
	< <u>B</u> ack <u>N</u> ext > Cancel	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.

Internet Connection Wizard	×
	×
If you already have an account with an Internet service provider and have obtained all the necessary connection information, you can connect to your account using your phone line. If you are connected to a local area network (LAN) that is connected to the Internet, you can access the Internet over the LAN.	
Which method do you want to use to connect to the Internet?	
C Connect using my phone line	
C Connect using my local area network (LAN)	
I will establish my Internet connection manually	
< <u>B</u> ack <u>N</u> ext > Cancel	Help

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*.

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

😤 pop.mail.yahoo.com Properties 🛛 🕐 🗙				
General Servers Connection Advanced				
Server Information				
My incoming mail server is a POP3 server.				
Incoming mail (POP3): pop.mail.yahoo.com				
Outgoing mail (SMTP): smtp.mail.yahoo.com				
Incoming Mail Server				
Account name: john_doe				
Password:				
Remember pass <u>w</u> ord				
Log on using Secure Password Authentication				
Outgoing Mail Server				
✓         My server requires authentication         Settings				
OK Cancel <u>Apply</u>				

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*.

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*.

😪 pop.mail.yahoo.com Properties 🛛 🕐 🗙				
General Servers Connection Advanced				
Server Port Numbers				
Qutgoing mail (SMTP):				
This server reguires a secure connection (SSL)				
Incoming mail (POP3): 110				
This server requires a secure <u>c</u> onnection (SSL)				
Server Timeouts				
Short — J Long 1 minute				
Sending				
$\square$ Break apart messages larger than 60 $\implies$ KB				
Deliveru				
Leave a copy of messages on server				
Remove from server after 5 day(s)				
Remove from server when deleted from 'Deleted Items'				

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*.

2. Select the *Mail* tab.

Internet Accounts				
All Mail Ne	ws   Directory Ser	vice	Add >	
Account	Туре	Connection	<u>R</u> emove	
			Properties	
			Set as <u>D</u> efault	
			Import	
			<u>E</u> xport	
			<u>S</u> et Order	
			Close	

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

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

Internet Connection Wizard		×
Your Name		×
When you send e-mail, yo Type your name as you wo	ur name will appear in the From field of the outgoing messa; ould like it to appear.	ge.
<u>D</u> isplay name:	John Smith	
	For example: John Smith	
	< <u>B</u> ack <u>N</u> ext > Ca	ancel

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

Internet Connection Wizard		×
Internet E-mail Address		×
Your e-mail address is the	address other people use to send e-mail messages to you.	
I already have an e-m	ail address that I'd like to use.	
<u>E</u> -mail address:	johnsmith@yahoo.com	
	For example: someone@microsoft.com	
C I'd like to <u>s</u> ign up for a	new account from: Hotmail	
	< <u>B</u> ack <u>N</u> ext > C	Cancel

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*.

Internet Connection Wizard	×
E-mail Server Names	×
My incoming mail <u>s</u> erver is a POP3 server.	
Incoming mail (POP3, IMAP or HTTP) server:	
pop.mail.yahoo.com	
An SMTP server is the server that is used for your outgoing e-mail. Outgoing mail (SMTP) server: smtp.mail.yahoo.com	
< <u>B</u> ack <u>N</u> ext >	Cancel

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.

Internet Connection Wizard		×
Internet Mail Logon		×
Type the account name an	d password your Internet service provider has given you.	
Account name:	johnsmith	-
<u>P</u> assword:		
If your Internet service provid (SPA) to access your mail acc Authentication (SPA)' check I	er requires you to use Secure Password Authentication count, select the 'Log On Using Secure Password box.	
Log on using <u>S</u> ecure Pas	sword Authentication (SPA)	
	< <u>B</u> ack <u>N</u> ext > Ca	ancel

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)

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

😪 pop.mail.yahoo.com Properties	<u>?×</u>
General Servers Connection Security Advanced	
Server Information	-
My incoming mail server is a POP3 server.	
Incoming mail (POP3): pop.mail.yahoo.com	
Outgoing mail (SMTP): smtp.mail.yahoo.com	
Incoming Mail Server	-
Account name: johnsmith	
Password:	
Remember password	
Log on using Secure Password Authentication	
Outgoing Mail Server	-
✓ My ser⊻er requires authentication Settings	
OK Cancel <u>A</u> pp	ly 🔤

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.

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*.

😭 pop.mail.yahoo.com Properties 🏾 🙎 🗙
General Servers Connection Security Advanced
Server Port Numbers
Outgoing mail (SMTP): 25
This server reguires a secure connection (SSL)
Incoming mail (POP3): 110
This server requires a secure <u>c</u> onnection (SSL)
Server Timeouts
Short Long 1 minute
Sending
🔲 Break apart messages larger than 🙃 📑 KB
Delivery
Leave a copy of messages on server
■ <u>R</u> emove from server after 5 <u></u> day(s)
Remove from server when deleted from 'Deleted Items'
OK Cancel <u>Apply</u>

#### 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:

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

Profile Manager	×
Communicator stores information about your settings, p bookmarks, and stored messages in your personal pro Click New to create a new profile, or select a profile a appropriate button to rename or delete that profile, or o When you are finished, click Back to select a profile a	preferences, rfile. nd click the change its password. and start
Communicator.	
🌥 Dialup	<u>N</u> ew
LAN	<u>R</u> ename
	<u>D</u> elete
1	
	Back

2. Click Next.

reating a New Profile	×
Creating a New Profile	
Communicator stores information about your settings, preferences, bookmarks, and stored messages in your personal profile.	
If you are sharing this copy of Communicator with other users, you can use profiles to keep each user's information separate. To do this, each user should create his or her own profile and optionally protect it with a password.	
If you are the only person using this copy of Communicator, you must create at least one profile. If you would like, you can create multiple profiles for yourself to store different sets of settings and preferences.	
For example, you may want to have separate profiles for business and personal use.	
To begin creating your profile, click Next.	
Z Rack Next > Finish Cancel	-
< <u>B</u> ack <u>Next</u> Finish Cancel	

#### 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*.

Enter your Name and Email Address
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:
John Smith (e.g. John Smith)
Email Address (if available): JohnSmith@yahoo.com (e.g. jsmith@company.com)
Please click Next to continue
< <u>B</u> ack <u>N</u> ext > Finish Cancel

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

Choose a Name and Directory for your Profile	×
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:	
Iridium	
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.	
C:\Program Files\Netscape\Users\iri	
Please click Next to continue	
< <u>B</u> ack <u>N</u> ext > Finish Car	icel

5. Click Finish.

Set up your Outgoing Mail Server	×
Communicator now has enough information to set up your basic profil However, Communicator needs additional information if you want to send or receive email or use newsgroups. If you do not know the information requested, please contact your	le.
System administrator or internet Service Provider. Outgoing mail (SMTP) server: mail	
Click Next to continue entering information. Click Finish if you want to start Communicator and continue entering your mail and newsgroup information later.	
< <u>B</u> ack <u>N</u> ext > Finish	Cancel

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*.

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*.

Preferences	×
<u>C</u> ategory:	
<ul> <li>Appearance         <ul> <li>Fonts</li> <li>Colors</li> </ul> </li> <li>Navigator</li> <li>Mail &amp; Newsgroups</li> <li>Identity</li> <li>Mail Servers</li> <li>Addressing</li> <li>Messages</li> <li>Window Settings</li> <li>Copies and Folders</li> <li>Formatting</li> <li>Return Receipts</li> <li>Disk Space</li> <li>Composer</li> <li>Offline</li> <li>Offline</li> <li>Advanced</li> </ul>	Mail Servers       Specify servers for mail         Incoming Mail Servers       Add         mail       Edit         Delete       Delete         To set server properties (such as checking for new messages automatically), select a server and then click Edit.       Delete         Outgoing Mail Server       Delete         Qutgoing mail (SMTP) server:       mail         Outgoing mail server user name:       default         Use Secure Socket Layer(SSL) or TLS for outgoing messages:       O Always         Local mail directory:       C:\Program Files\Netscape\Users\default\mail       Dhoose
	OK Cancel <u>H</u> elp

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

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.

I	Mail Server Properties
	General POP
	Server Name: pop.mail.yahoo.com
	Server Type: POP3 Server
	User Name: JohnSmith
	OK Cancel Help

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*.

Mail Server Properties	X
General POP	
Leave messages on server	
When deleting a message locally, remove it from the server	
OK Cancel Help	

- 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*).

Preferences	×
<u>Category:</u>	
Category: □ - Appearance - Fonts - Colors • Navigator □ - Mail & Newsgroups - Identity - Mail Servers - Newsgroup Servers - Addressing - Messages - Window Settings - Copies and Folders - Formatting - Return Receipts - Disk Space • Composer • Composer • Offline • Advanced	Mail Servers       Specify servers for mail         Incoming Mail Servers       Add         pop.mail.yahoo.com       Add         Edit       Delete         To set server properties (such as checking for new messages automatically), select a server and then click Edit.       Delete         Outgoing Mail Server       Detete         Qutgoing Mail Server       Detete         Outgoing mail (SMTP) server:       smtp.mail.yahoo.com         Uutgoing mail Server user name:       JohnSmith         Use Secure Socket Layer(SSL) or TLS for outgoing messages:       Meyer         Never       If Possible       Always         Local mail directory:       Secure Socket Cayer(Stripter)       Secure Socket Cayer(Stripter)
	C:\Program Files\Netscape\Users\default\mail
	OK Cancel <u>H</u> elp

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

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*.

Preferences	x
<u>C</u> ategory:	
<ul> <li>Appearance</li> <li>Fonts</li> <li>Colors</li> <li>Navigator</li> <li>Mail &amp; Newsgroups</li> <li>Identity</li> <li>Mail Servers</li> <li>Newsgroup Servers</li> <li>Addressing</li> <li>Messages</li> <li>Window Settings</li> <li>Copies and Folders</li> <li>Formatting</li> <li>Return Receipts</li> <li>Disk Space</li> <li>Roaming Access</li> <li>Composer</li> <li>Offline</li> <li>Advanced</li> </ul>	Identity       Set your name, email address, and signature file         The information below is needed before you can send mail. If you do not know the information requested, please contact your system administrator or Internet Service Provider.         Your name:       John Smith         Email address:       John Smith@yahoo.com         Beply-to address(only needed if different from email address):
	OK Cancel <u>H</u> elp

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