

# Getting started with the EXPLORER<sup>®</sup> 300

Version 02 15 May 2008



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# 1 Introduction

# 1.1 About this guide

This document introduces the EXPLORER 300 terminal, and explains how to set up the terminal for use on the BGAN network, register with the network, and set up data, voice and text connections.

It is intended for first time end-users, Distribution Partners, Service Providers and anyone who wants to use a BGAN terminal to connect to the BGAN network and use network services. A previous knowledge of satellite communications is useful, but not essential.

#### The sections include:

- Introducing the terminal a brief overview of the physical features and interfaces of the terminal, and of the available services.
- Setting up the terminal includes installing the battery and SIM card, connecting to a computer and registering with the network
- Making voice, data and text connections an explanation of how to make a voice call, how to
  make IP data connections how to set up and open Bluetooth connections, and how to send and
  receive a text message.

#### **1.2** Other sources of information

This is one of a series of PDF documents in the BGAN Solutions Guide. The Solutions Guide is
designed to help you make the most of your BGAN terminal. Other documents in the series are
available for download from www.inmarsat.com/bgan. Click on BGAN support, then click on
How to guides.

This Web site also gives further information on the BGAN service, including Industry solutions.

- For help in using BGAN LaunchPad, refer to the document "Using BGAN LaunchPad", available for download from www.inmarsat.com/support.
- For further information on the EXPLORER 300 terminal, refer to the "EXPLORER 300 User Manual", supplied in PDF format on the Thrane & Thrane CD.

# 1.3 Upgrading software

• To obtain the latest terminal firmware, contact your distributor.

# 2 Introducing the terminal

This section introduces the physical characteristics, interfaces and services available on the Thrane & Thrane EXPLORER 300 (called the EXPLORER 300 in the rest of this document).

# 2.1 Physical characteristics

Item	Specification
Manufacturer	Thrane & Thrane
Physical dimensions	Approx. 217 mm x 168 mm x 52 mm (8.5 in. x 6.6in. x 2in.)
Weight (including battery)	1.4 kg (3.1 lbs)
External power	15 Volts DC, 100-240 Volts AC (47-63Hz)
Battery life	Transmit: 1 hr 20 mins at 96kbps Receive: 3 hr 30 mins at 64kbps Stand-by time: 36 hrs
Ingress protection	IP 54

# 2.2 Interfaces

Interface	Equipment needed		
LAN 10/100Mbps, RJ-45	IP data device, LAN-enabled		
Phone RJ-11	RJ-11 handset		
Bluetooth v1.2	Bluetooth handset, or Bluetooth data device		

# 2.3 Services

Services	Specification		
Standard IP data	Up to 384kbps (send) Up to 240kbps (receive)		
Streaming IP data	32kbps, 64kbps (send and receive)		
Phone/fax	Standard (4kbps)		
Text	To other BGAN terminals or cellular mobile phones.		
	From other BGAN terminals, and some mobile phones, depending on service provider.		

# 3 Setting up the terminal



This section explains how to set up the EXPLORER 300 terminal and connect to the BGAN network. The steps described are:

- a. Installing BGAN LaunchPad on your computer.
- b. Installing the SIM card and battery.
- c. Obtaining power and charge the battery.
- d. Obtaining a GPS fix.
- e. Connecting the terminal to your computer. Inmarsat recommends that when first setting up you use the LAN interface.
- f. Pointing the terminal and registering with the BGAN network.

#### **Pre-requisites**

Before you start, make sure that you have:

- The BGAN terminal.
- The rechargeable battery, supplied with the terminal.
- A USIM card, supplied by your Service Provider.
- The Ethernet cable supplied with the terminal.
- The BGAN LaunchPad installation CD, supplied with the terminal. Make sure that the PC or Mac has the minimum system requirements for BGAN LaunchPad (refer to page 4 for details).
- A Bluetooth-enabled computer, with a supported profile, if you intend to connect using Bluetooth.

# Minimum system requirements for BGAN LaunchPad

The following are the minimum hardware and software requirements for using BGAN LaunchPad to manage the EXPLORER 300 on your computer.

#### Hardware requirements

You must have the following on your computer:

- Support for at least one of these interfaces LAN or Bluetooth.
- Intel Pentium III CPU, or equivalent.
- 100Mb of free hard disk space.
- 128Mb of RAM.
- CD-ROM drive.

#### **Operating systems**

You must have one of the following operating systems on your computer:

- Microsoft Windows 2000 with SP4.
- Microsoft Windows XP with SP2.
- Linux Red Hat 9 KDE 3.1.10 (Kernel Version 20.4.20-8).
- Mac 10.x

#### 3.1 Installing BGAN LaunchPad

To install BGAN LaunchPad on your computer:

- a. Insert the BGAN LaunchPad Installation CD into your computer's CD-ROM drive.
- b. Follow the on-screen instructions.

#### 3.2 Installing the SIM card and battery

To get the terminal ready for connection:

a. Remove the battery and insert the SIM card provided by your Service Provider into the SIM slot, with the gold contacts facing towards the back of the terminal, as shown below.



b. Press the SIM card gently until it clicks into place.

c. Slide the lock to close the SIM slot.



d. Take the battery and position it as shown below.

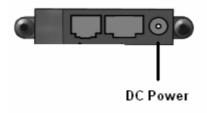


e. Press gently until it snaps into place.

# 3.3 Powering on and charging the battery

To power on the terminal using the power adapter, with the terminal switched off:

a. Insert the power adapter output connector to the DC power input jack on the back of the terminal, as shown below.



b. Insert the plug end into any AC outlet between 100 and 240 VAC.

Note The battery charges automatically whenever the terminal is connected to the power source. To ensure accurate information on battery capacity, Thrane & Thrane recommends that you fully charge, then fully discharge the battery (until the terminal closes down automatically), and finally charge the battery again before using the terminal for the first time.

The terminal can be used during the discharging pro¬cess, but the remaining battery capacity may not be displayed accurately in the BGAN LaunchPad status bar.

#### 3.4 Obtaining a GPS fix

Note You must install a SIM card before you can obtain a GPS fix.

The BGAN network requires a valid GPS fix to successfully register your BGAN terminal.

- a. Take the EXPLORER 300 outside, open the stand so that the terminal antenna is facing upwards, and place the unit on a flat surface with an open view of the sky.
- b. Switch the unit on using the power button on the left of the display. The EXPLORER 300 automatically searches for a GPS fix when first powered on.
- c. You may be prompted to enter a PIN code. Press **C** to cancel the PIN code prompt, (you do not need to enter a PIN code to obtain a GPS fix).
- d. Leave the terminal to acquire a GPS fix. This may take a few minutes. To check the terminal's GPS status, enter the **PROPERTIES > GPS STATUS** menu on the terminal's display panel.
  - If the terminal has a GPS fix, and the position can be displayed, the position is shown in the display, in the format shown below:



- If the terminal has a GPS fix, but the position cannot be displayed the word ACQUIRED is displayed. The position may not be displayed because it is not permitted in this location, or because the terminal is not yet registered on the BGAN network. However, you can still use your terminal even if you cannot view the GPS fix location.
- If the terminal does not have a GPS fix, the display shows almanac data, which is a series of vertical bars giving the status of 16 GPS satellites.

# **About GPS**

The Global Positioning System (GPS) uses 24 orbital satellites to fix the position of the terminal anywhere on the globe.

In normal operation, a GPS receiver, such as that built in to the Terminal, needs to be able to
receive signals from at least three satellites so that it can then calculate latitude, a longitude
and an altitude – this position fix is referred to as a 3-dimensional or 3-D fix. If only two GPS
satellites can be seen by the GPS receiver, then the last available altitude measurement is
assumed and the GPS receiver calculates a position fix based on latitude and longitude only.
This simpler position fix is referred to as a 2-dimensional or 2-D fix and is quicker and easier
to obtain than a 3-D fix, but may be less accurate.

Note You can register with the BGAN network with a 2-D or a 3-D fix.

- The GPS receiver may take between a few seconds and 20 minutes to obtain a GPS fix, depending on how frequently the GPS receiver is being used. The frequency of use determines the how quickly the GPS Terminal is able to start.
  - Hot start if the GPS receiver is being used frequently, (that is, at least every two to six hours), it is regularly updated with data from the GPS satellites, and so only takes a short time to obtain a GPS fix after being switched on.
  - **Warm start** if a GPS receiver has not been used for more than six hours, then it will take longer to obtain a GPS fix, perhaps up to 45 seconds.
  - Cold start if the GPS receiver has not been used for some time or is 300 km or more from where it was last used, it can take between 10 and 20 minutes to obtain a valid position fix.
- Following successful registration and providing the Terminal is left switched on and remains stationary, the GPS is no longer needed. Periodically, the BGAN terminal contacts the BGAN network to inform the network that it is still switched on. In addition, the BGAN network periodically checks each terminal for activity, and if there has been no traffic through the terminal, and the terminal has not automatically contacted the BGAN network as described above, then the terminal will be de-registered from the network.

# 3.5 Connecting the terminal to your computer

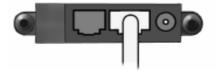
When you first connect the terminal to your computer, Inmarsat recommends that you use the LAN interface.

- Tip Ethernet can operate over a distance of up to 100m with standard Ethernet cables.
- Note For the LAN interface to work without any further setup, your computer must be configured to obtain an IP address and DNS server address automatically. To check that these settings are configured on your computer, refer to the documentation for your operating system.

#### To connect the BGAN terminal to your computer using Ethernet:

a. Connect the LAN cable to the LAN port of your computer. A suitable cable is provided with the EXPLORER 300.

b. Connect the other end of the cable to the LAN port on the EXPLORER 300, as shown below. A message confirming the connection is displayed.



Tip Some corporate computers are configured with a static IP address. If your computer has a static IP address, you must go into the IP Properties option, and change your computers settings to obtain an IP address automatically.

This is only necessary the first time you connect. You can then change the IP settings to use a static IP address, if required.

# IP addressing on the EXPLORER 300

 In normal operation, the terminal uses its built-in DHCP server to allocate IP addresses automatically. If you want to manually set up IP addressing, you can use the terminal's default range of IP addresses, as shown below:

Terminal IP address	192.168.0.1
Default range of IP addresses	192.168.0.x
Subnet mask	255.255.255.0
DNS	If you use BGAN.INMARSAT.COM as your APN, the default DNS addresses are 172.30.66.7 and 172.30.34.7 If you use another APN, your Distribution Partner supplies you with a DNS address for your APN.

• To test connectivity between your computer and the terminal, ping **192.168.0.1**, from your computer. If a reply is received, your computer is connected to the terminal.

Refer to the Solutions Guide document "BGAN and IP data connections" for further details.

# Interfacing with the BGAN terminal

You have three ways of interfacing with the BGAN terminal when using the EXPLORER 300.

- BGAN LaunchPad Inmarsat's easy to use software interface, that provides step by step instructions on connecting to the BGAN network and setting up satellite connections. You can use BGAN LaunchPad to manage data connections, send and receive text messages, monitor telephone usage and upgrade software. The interface can be installed on any computer connected to the terminal and accessed by double-clicking on a desktop icon. With BGAN LaunchPad, you have access to all the latest customization options and features of the BGAN service. You can also update firmware automatically using BGAN LaunchPad.
- The terminal's LCD display and keypad the EXPLORER 300 has an LCD display and keypad for displaying status and for changing simple parameters. For details, refer to the EXPLORER 300 User Manual.
- The terminal's web interface the EXPLORER 300 has a built-in web interface for easy configuration of the terminal and software upgrades. The interface can be accessed directly from a computer connected to the terminal by entering the default IP address of 192.168.0.1 into a standard Internet browser. For details, refer to the EXPLORER 300 User Manual.

Inmarsat recommends that only one interface be used to ensure that settings and configurations are not overwritten. This guide assumes use of BGAN LaunchPad.

#### 3.6 Registering with the network

Establishing a connection with the BGAN network requires the careful orientation of the BGAN terminal towards the satellite - a process called pointing. Accurate and precise pointing is important, because a badly-pointed antenna can reduce the data rate achievable over the network. When pointing is complete, you can register the terminal with the BGAN network.

Use the BGAN LaunchPad pointing wizard to step through the process of pointing the terminal and registering with the network. In addition, you can use the BGAN terminal's display and keypad to point the terminal. To use BGAN LaunchPad to point the terminal:

a. Open BGAN LaunchPad by clicking on the BGAN LaunchPad icon on your desktop.



The following screen is displayed.

🖲 BGAN LaunchPad 3.0.1		
File Terminal BGAN services Update H	telp	
Setup Data P	pone Text(2)	Services Support
Welcome to BGAN. Click on the map or choose your <u>nearest city</u> to display terminal pointing instructions. Nearest city: Santa Fe De Bogot Colombia	Annual Contraction	
Help me setup BGAN Register with network now	Recommended: Antenna angle: 68°	Compass direction: E (93°)
Connected to EXPLORER 300	In pointing mode. To use Inmarsat services please setup the BGAN terminal. Help	Signal strength

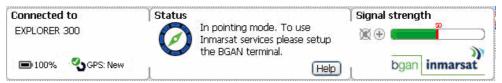
The status bar displays the message In Pointing Mode.

Note The coverage map and "Welcome to BGAN" area are provided to assist you in pointing, but the location shown may not correspond to your GPS fix, and does not affect network registration.

b. Click on **Help me setup BGAN** and step through the on-screen instructions. BGAN LaunchPad suggests the recommended pointing angle and direction to correctly position the terminal.

Note Do not touch the antenna.

- Using the terminals' built-in compass, rotate the terminal left or right until it points in the correct horizontal direction, known as the azimuth.
- Tilt the terminal slowly up or down until it points in the correct vertical direction, known as the elevation.
- c. Monitor the signal strength on the status bar:



Use this information, and the signal strength reading on the terminal's display, to further adjust the antenna position to obtain maximum signal strength. Remember not to touch the antenna.

Note If the signal strength is not sufficient, registration may not be possible and the terminal may not be able to establish a data connection.

- d. When you have positioned the terminal to obtain the maximum signal strength, you are ready to register with the network. Click on **Register with Network now**.
- Tip You can also register with the network by pressing the **OK** button on the terminal's keypad at any stage in the pointing process.

By default, BGAN LaunchPad opens a standard IP data connection after successful registration. The status zone reads "Standard Data Connection Open. Ready for Phone, Text and Data".

# Using BGAN LaunchPad during pointing and registration

Note the following about BGAN LaunchPad during pointing and registration:

- During pointing, the location shown on the coverage map is based on your previous location. The coverage map displays your current position only after you exit pointing and register with the network.
- During pointing, signal strength information is provided by the satellite's global beam. Once you have registered, the signal strength is provided by the satellite's regional beam. Therefore the signal strength bar shown in BGAN LaunchPad may change after registration. Once you have opened a data connection, signal strength is provided by the spot beam.
- To check the actual signal strength, go to **Help > Diagnostic Report** in BGAN LaunchPad. The actual signal strength is given in the dialog box that is displayed.
- Tip You can make or receive phone calls, or send and receive a text message even if you do not have an IP data connection.

# **Automatic mode**

The EXPLORER 300 offers the following automatic features:

By default, the terminal automatically opens a data connection after you register with the network. However, there may be a minimum charge for opening an IP data connection (depending on your Service Provider), and data may be transferred across the connection even if you are not actively using an application (for example, your computer may be receiving automatic updates).

If you do not want to incur these charges, you can switch off the automatic connection feature. To do this:

a. Select **BGAN Services > LaunchPad Automatic Connection** from the BGAN LaunchPad main menu.

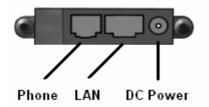
BGAN LaunchPad automatic connection	$\mathbf{X}$
Automatically open a standard Data connection after network registration     OK Cancel	

b. Uncheck the check box to turn off automatic data connection.

You can configure the terminal to automatically exit pointing and set up a data connection after power on. This feature is disabled by default, but you can enable it using the EXPLORER 300 Web interface. Refer to the "EXPLORER 300 User Manual" for details.

# 4 Making voice, data and text connections

• You can connect to the terminal using any of the following interfaces:



- Phone, for Standard (4kbps) voice connection.
- LAN, for IP data connections. If required, you can connect the LAN port to a hub, switch or router for multi-user connections.
- Bluetooth, for Bluetooth voice or data connections.

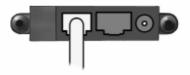
If required, you can connect to more than one interface simultaneously.

#### 4.1 Making an analog handset or fax connection

Note: Voice calls are charged by call duration. Refer to your Service Provider for details on call charges.

You need an analog telephone cable with an RJ-11 connector. To connect a phone or fax to the terminals' phone/fax interface:

- a. Connect the cable to your phone or fax.
- b. Connect the other end of the cable to the phone/fax connector on the BGAN terminal as shown below.



c. Check the connection by making a phone call or sending a fax.

If the connection fails, check the display on the terminal. If the analog phone icon is not present in the display, the interface is off. To turn the interface on:

- a. Using the terminal's display and keypad, select SETTINGS > INTERFACES.
- b. Select the PHONE/FAX interface.
- c. Select ON.

# 4.2 Making an IP Data Connection

#### **Pre-requisites**

Before you can open an IP data connection, ensure that you have done the following:

- Installed a provisioned SIM card, supplied by your Service Provider. The SIM card contains Access Control Point (APN) information, therefore Inmarsat recommends that you do not change the APN after installing the SIM card.
- Connected your computer to the BGAN terminal, using one of the terminal's interfaces.
- Pointed the terminal to obtain the maximum possible signal strength.
- Registered with the BGAN network

You can make an IP data connection using any of these interfaces:

- LAN
- Bluetooth.

# Opening a standard data connection



By default, when you first register with the BGAN network, the terminal opens a standard IP data connection. The standard connection is an always-on, best effort connection and is suitable for most basic data applications. It is charged by the amount of data sent and received.

To check that the standard connection is open, select the Data tab in BGAN LaunchPad.



#### The following screen is displayed:

Data connections				
Disconnect Standard	Connect Streaming 32	Connect Streaming 64	Connect Win Media	
View all Data	connections on te	erminal		Advanced Help

If the standard connection is open, the words **Disconnect Standard** are displayed below the connection icon.

Note If the standard connection is closed, the words Connect Standard are displayed below the connection icon. Click on the icon to open the standard connection.

You can now browse the Internet, send and receive email and use other IP applications. All traffic is transferred across the standard connection.

# Opening a streaming data connection



If you require a guaranteed data rate for your connection (if, for example, the application is time critical), you can connect using one of the three dedicated streaming connections, at the following data rates:

- 32kbps streaming
- 64kbps streaming

Each dedicated streaming class connection is charged by the length of time that the connection is live. When you open a streaming connection, the standard connection is closed.

Tip By default, error correction (also called network packet retransmission) is switched on. Inmarsat recommends that you turn error correction off for UDP/IP connections, as this feature is not required for this connection type. Refer to "BGAN and IP data connections" for details.

# To open a streaming connection:

a. Select the Data tab in BGAN LaunchPad:



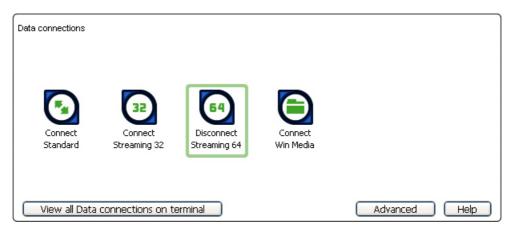
The following screen is displayed:

Data connections				
Disconnect Standard	Connect Streaming 32	Connect Streaming 64	Connect Win Media	
View all Data	connections on te	erminal		Advanced Help

b. Select the required streaming connection, for example Streaming 64. The following message is displayed, asking you to confirm that you want to close your current connection and open a new connection, charged by time:

Closing confirmation			
Your existing data connection will now be			
closed. The requested streaming class			
connection will be charged by time rather			
than volume.			
OK Cancel			

c. Click on OK. The new data connection opens, and the following screen is displayed:



The Standard connection is closed, and the **Streaming 64** connection is open. All traffic is transferred across the selected streaming connection.

- Note If you subsequently want to close the streaming connection and open another streaming connection, or reopen the standard connection, repeat steps a to c.
- Note If you want to close all connections, click on the currently open connection.

#### Opening a dedicated streaming connection



In addition to the default connections, BGAN LaunchPad enables you to configure and open one or more dedicated streaming connections (you can associate one of the icons shown above with a dedicated streaming connection). These are assigned to specific applications, for example Win Media, to ensure that the connection for this application's data is not shared with any other application.

You must have a pre-configured standard or streaming connection open before you can open a dedicated streaming connection. This is because each dedicated streaming connection creates a virtual IP data connection which shares the IP address of the pre-configured standard or streaming connection.

For details on configuring dedicated streaming connections, refer to the document "Using BGAN LaunchPad", available for download from **www.inmarsat.com/support**.

# **Traffic Flow Templates**

Each dedicated streaming connection is associated with a Traffic Flow Template (TFT). A TFT, also called an Application Template, assigns a priority to a selected type of traffic in order to maximize performance.

BGAN LaunchPad supports the following pre-configured TFTs, any one of which can be selected when you configure a dedicated streaming connection to ensure that the defined traffic has its own dedicated connection:

- FTP
- QuickLink
- QuickTime
- Real Media
- Streambox
- WinMedia

If you want to define your own TFT for another application, contact your Service Provider for assistance.

#### To open a dedicated streaming connection:

a. Select the Data tab in BGAN LaunchPad.



The following screen is displayed:

Data connections				
Disconnect Standard	Connect Streaming 32	Connect Streaming 64	Connect Win Media	
View all Data	connections on te	erminal		Advanced Help

In this scenario, you have set up a dedicated streaming connection for Win Media. The Standard connection is currently open.

b. Select the required dedicated streaming connection, for example Win Media. The following message is displayed, asking you to confirm that you want to open a dedicated connection in addition to your current connection:

Dedicated confirmation Message			
You have requested a dedicated connection.			
This will be opened in addition to your			
existing connection. The connection will be			
charged by time rather than volume.			
OK Cancel			

c. Click on **OK**. The new data connection opens and the following screen is displayed:

Data connections				
Disconnect Standard	Connect Streaming 32	Connect Streaming 64	Disconnect Win Media	
View all Data	connections on te	erminal		Advanced Help

The **Standard** and the **Win Media** connections are both open. All traffic other than Win Media data continues to use the standard connection.

You can open up to 10 dedicated streaming connections in addition to your default connection.

#### If you can't make a data connection...

If you can't open a data connection, check that the default Access Point Name (APN) is set correctly. The APN is stored on your SIM and must be configured as the access point for each of your data connections for the data connection to open successfully.

Tip If you want to open a dedicated streaming connection, the APN of the dedicated streaming connection must be the same as that of the standard or streaming connection already open.

To check the default APN is set correctly:

 a. Select LaunchPad Services > APN Options in BGAN LaunchPad. The APN Configuration screen is displayed, as shown below:

APN Configuration		
Defined APNs		
Select APN	BGAN.INMARSAT.COM	✓
Add	Edit Delete	Make default
Current default APN BGAN.INMARSAT.COM Fetch from SIM		
ОК	Cancel Apply	Help

- b. Check the **Current Default APN** text box to ensure that you are connected to the correct APN. If not, either:
  - Click on Fetch from SIM.
  - Select the required APN from the Select APN drop-down list and click on Make default.

To check that the APN for a specific data connection is set to the default:

a. Select the Data tab in BGAN LaunchPad.



The following screen is displayed:

Data connections				
Disconnect Standard	Connect Streaming 32	Connect Streaming 64	Connect Win Media	
View all Data	a connections on te	erminal		Advanced Help

b. Right-click on the connection you want to check and select **Edit**. The Connection Icon Setup screen is displayed (the following is the configuration window for the standard IP data connection):

Primary Connection	
-Icon Icon label: Standard	Routing Select APN bgan.inmarsat.com  IP Configuration O Use Dynamic (Network Assigned IP Address)
Streaming Streaming Parameters Desired Rate 32k Minimum Rate 32k Use error correction	<ul> <li>○ Use Static IP Address</li> <li>○ Use Dynamic (Network Assigned) DNS Servers</li> <li>○ Use Static DNS Server</li> <li>Primary DNS Server</li> <li>Secondary DNS Server</li> <li>✓ Use Header compression</li> </ul>
	Help OK Cancel Apply

c. Check the APN listed in the **Select APN** drop-down list. If it is not the same as the APN you noted in step a. select the correct APN and try to open the data connection.

Note: You may have to repeat steps b to c for each data connection you want to open.

# 4.3 Making a Bluetooth connection

Bluetooth and the EXPLORER 300			
Interface	Built-in antenna, v1.2		
	Cordless Telephone Profile     (CTP)		
	Service Discovery Application		
Supported Profiles	Serial Port Profiles (SPP):		
	Dial-up networking (DUN)		
	Headset Profile (HSP)		
Distance to device	Maximum 25m outdoors		

Your Bluetooth device must be paired with the terminal's built-in Bluetooth modem before you can make Bluetooth calls or transmit Bluetooth data. If you want to pair your device with the terminal, the default device name is "EXPLORER 300", and the default passkey is the terminal serial number. The terminal's serial number is found on the label on the back of the terminal.

You can use the terminal's in-built Bluetooth modem to open a Bluetooth voice connection or a Bluetooth data connection. To use a Bluetooth device with the BGAN terminal, you first have to enable the Bluetooth interface in the terminal and in the device, and then pair the device with the terminal. To do this, you can either:

- Search for the terminal from your Bluetooth-enabled device, using your device's Bluetooth software.
- Search for your Bluetooth-enabled device from the terminal. You can do this using BGAN LaunchPad.

#### Connecting from your device to the terminal

The Bluetooth device must be placed within a maximum distance of 25m from the BGAN terminal. Note that this is the absolute maximum distance; the actual maximum distance may be shorter, depending on the conditions.

To pair with the terminal and open a connection using the Bluetooth software on your Bluetooth device:

- a. Make sure the Bluetooth interface in the terminal is enabled (the interface is enabled by default). You can do this using one of the following methods:
  - · From the terminal's display and keypad.

From the display menu, select **SETTINGS > INTERFACES**, select **BLUETOOTH**, and make sure the interface is **ON**.

- From a Bluetooth-enabled computer using BGAN LaunchPad.
   You must be connected to the terminal via the LAN interface. From the BGAN LaunchPad main menu, select Terminal > Bluetooth Interface Settings to display the Configure Bluetooth Interface dialog box. Make sure the Enable radio button is selected, and click OK.
- From a Bluetooth-enabled computer using the terminal's Web interface. You must be connected to the terminal via the LAN interface. Type in **192.168.0.1** into a Web browser to display the Web interface. For information on using the Web interface, refer to the "EXPLORER 300 User Manual".
- b. Enable your Bluetooth device, and search for devices in range. The terminal's default Device Name is EXPLORER 300.
- c. Enter the terminal's passkey when prompted to pair with the terminal. By default, the passkey is the terminal's serial number, which you can find on the label on the back of the terminal (with the prefix S/N). When you have paired the device and the terminal, the Bluetooth software automatically installs two Bluetooth modems on your computer, one for BGAN LaunchPad and one for dial-up networking.
- d. Open BGAN LaunchPad. BGAN LaunchPad automatically detects the Bluetooth connection and you can use your device to access Bluetooth services.
- Tip If you want to open an IP data connection over Bluetooth using BGAN LaunchPad, you must un-pair from all other devices, so that your computer is paired only with the BGAN terminal. You can now open BGAN LaunchPad and access terminal services over BGAN LaunchPad.

#### Connecting from the terminal to your device

The Bluetooth device must be placed within a maximum distance of 25m from the BGAN terminal. Note that this is the absolute maximum distance; the actual maximum distance may be shorter, depending on the conditions.

To search for and pair with your Bluetooth-enabled device from the terminal using BGAN LaunchPad:

a. From BGAN LaunchPad main menu, select **Terminal > Bluetooth Interface Settings**. The **Configure Bluetooth Interface** dialog box is displayed, as shown below:

Configure Bluetooth Interface		
General		
Bluetooth Access:	💿 Enable	🔿 Disable
Device Name:	Explorer 500	
Discoverability Mode:	🔿 Enable	<ul> <li>Disable</li> </ul>
Default Passkey:		
List Bluetooth Device	es Help	OK Cancel

b. If the Bluetooth interface is not enabled, select the Enable radio button.

Note The Bluetooth device that you want to pair with must also be enabled.

c. Click on List Bluetooth Devices to list all Bluetooth devices within range. A screen similar to the following is displayed, giving the device address and current status, including pairing information.

Friendly Name	Device Address	Status
Pocket PC	00:05:4E:00:0D:13	In-Range - Not Paired
Anna's Phone	00:80:37:45:ER:08	In-Range - Paired
BGAN Terminal	00:60:57:TR:60:67	In-Range - Paired
Laptop Number One	00:10:C6:2A:DF:78	In-Range - Not Paired

If required, either:

 Pair a device by right-clicking on an unpaired device and selecting Pair. Enter the passkey when prompted.

Or:

- Unpair a device by right-clicking on a paired device and selecting Un-pair.
- d. Click on OK to save the configured settings, or click on Cancel to exit without saving. When you have paired the device and the terminal, the Bluetooth software automatically installs two Bluetooth modems on your computer, one for BGAN LaunchPad and one for dial-up networking.
- e. BGAN LaunchPad automatically detects the Bluetooth connection and you can use your device to access Bluetooth services.

You cannot make a local call between two Bluetooth handsets using the EXPLORER 300. You can make a local call from a Bluetooth handset to an analog phone, or from an analog phone to a Bluetooth handset.

You can look up the local Bluetooth phone numbers using the terminal's display and keypad. To do this, select **PROPERTIES > BLUETOOTH DEVICES > DISPLAY** from the terminal's display.

The list shows all accepted Bluetooth devices with local number and Bluetooth name.

Tip If you want to open an IP data connection over Bluetooth using BGAN LaunchPad, you must un-pair from all other devices, so that your computer is paired only with the BGAN terminal. You can now open BGAN LaunchPad and access terminal services across the Bluetooth connection.

#### If you can't make a Bluetooth data connection ...

If you can't make a standard data connection over Bluetooth, check the Dial-up networking properties on your operating system to ensure that the Bluetooth standard modem is selected. Refer to the documentation for your operating system for details.

# 4.4 Sending or receiving a text message

You can send text messages from a BGAN terminal to another BGAN terminal and from a BGAN terminal to a mobile phone. You can also send a text messages from a mobile phone to a BGAN terminal, but only on those networks with which Inmarsat has an agreement.

To access text features, select the Text tab in BGAN LaunchPad:



The following screen is displayed:

Text	
<u>File Settings H</u> elp	
Inbox Sent Draft	T BGAN terminal
From   Received	Contacts All Search Go
02-Accountant 05/03/08,14:11:36+00	Image: Normal Supple of the second
From +440987654321 Received 05/03/08,14:11:36+00	Compose new message Count: 0/160
Your 10am is confirmed           Reply         Forward         Delete	New Save Send

Refer to the document "Using BGAN LaunchPad", available for download from **www.inmarsat.com/support** for details on using this screen.

Note When you receive a text message, the Text message icon in BGAN LaunchPad changes, and the number of new text messages displays.