



Using BGAN LaunchPad on the EXPLORER 100/110

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Introduction

1 Introducing BGAN LaunchPad on the EXPLORER 100/110

1.1 Purpose of this manual

This document describes the functions of BGAN LaunchPad that are specific to the Thrane & Thrane EXPLORER 100/110.

It is intended for first time end-users, Distribution Partners, Service Providers and anyone who wants to use the EXPLORER 100/110 to connect to the BGAN network and manage network services using LaunchPad. A previous knowledge of satellite communications is useful, but not essential.

1.2 Scope

This document gives detailed instructions on every function or menu option available in BGAN LaunchPad that is specific to the EXPLORER 100/110. It does not describe how to use menu options that are common to all terminals. For this information, refer to the document "Using BGAN LaunchPad", available for download from www.inmarsat.com/support

This document also does not describe how to use specific applications over the BGAN network. For this information refer to the BGAN solutions guides and solutions sheets, available for download from www.inmarsat.com/support

1.3 Assumptions

- You have installed your EXPLORER 100/110, as described in the documentation supplied with your terminal.
- You have a connection already setup between the terminal and your computer.

1.4 Useful references

- Other documentation on BGAN and LaunchPad is available for download from the BGAN web site at www.inmarsat.com/support

2 Menu options

The following table shows the menu options specific to the EXPLORER 100/110, and where in this guide to look for information on the options. If you want information on a menu option other than those listed, refer to the supplementary guide for your particular terminal.

Menu > Sub menu	Refer to
Terminal > Pre-Defined Contexts	"Error! Reference source not found." on page Error! Bookmark not defined..
Terminal > Ethernet Interface (EXPLORER 110 only)	"Setting up the Ethernet interface" on page 3.
Terminal > ISDN Interface Settings	"Setting up the ISDN Interface" on page 5.
Terminal > Bluetooth Interface Settings	"Setting up the Bluetooth interface" on page 5.
Terminal > Audio and Lights	"Enabling or disabling audio and lights" on page 8.
Terminal > Auto Start Mode	"Enabling auto start and automatic registration" on page 9.
Terminal > Active Alarms	"Error! Reference source not found." on page Error! Bookmark not defined..
Terminal > GPS Status	"Error! Reference source not found." on page Error! Bookmark not defined..
BGAN services > Telephony settings	"Viewing telephone numbers" on page 10.
	"Setting up call forwarding" on page 11.
	"Setting up call barring" on page 12.
	"Setting up caller ID" on page 13.
	"Setting up call waiting" on page 14.
	"Setting up interface status" on page 15.

Terminal interface settings

3 Setting up the Ethernet interface

Note: The EXPLORER 100 does not have an Ethernet interface.

To set up the Ethernet interface on the EXPLORER 110:

- a. Click on **Terminal > Configure Ethernet**. The Ethernet Configuration screen is displayed, as shown below:

The screenshot shows the 'Ethernet Configuration' dialog box. It has a blue title bar with the text 'Ethernet Configuration' and a close button (red X). The main area is divided into three sections:

- Interface Status:** Contains two radio buttons: 'Off' (unselected) and 'On' (selected).
- BGAN Terminal IP Address:** Contains four input boxes with the values '192', '168', '0', and '1'.
- Subnet Mask:** Contains four input boxes with the values '255', '255', '255', and '0'.
- DHCP Configuration:** Contains the text 'To configure DHCP please select Advanced' and an 'Advanced' button.

At the bottom of the dialog are three buttons: 'OK', 'Cancel', and 'Help'.

- b. To enable the Ethernet interface, select the **On** radio button.
- c. The BGAN Terminal IP address information is displayed. The default IP Address of the terminal is **192.168.0.1**, and the Subnet Mask is **255.255.255.0**. If required, you can change one or both of these this by typing in a new IP address or subnet mask.
- d. If you want to set up DHCP information, click on **Advanced**. Alternatively, click on **OK** to save any changes and exit, or click on **Cancel** to exit without saving.

e. If you click on **Advanced**, the following screen is displayed:

The screenshot shows a window titled "DHCP Configuration" with a blue border and a close button in the top right corner. The window is divided into three main sections:

- DHCP Server:** Contains two radio buttons. The "On" radio button is selected and highlighted with a dashed border.
- DHCP Address Range:** Contains two rows of IP address fields. The "From" row has fields for 192, 168, 0, and 100. The "To" row has fields for 192, 168, 0, and 120. Below these is a "Subnet Mask" row with fields for 255, 255, 255, and 0.
- NAT:** Contains two radio buttons. The "Off" radio button is selected.

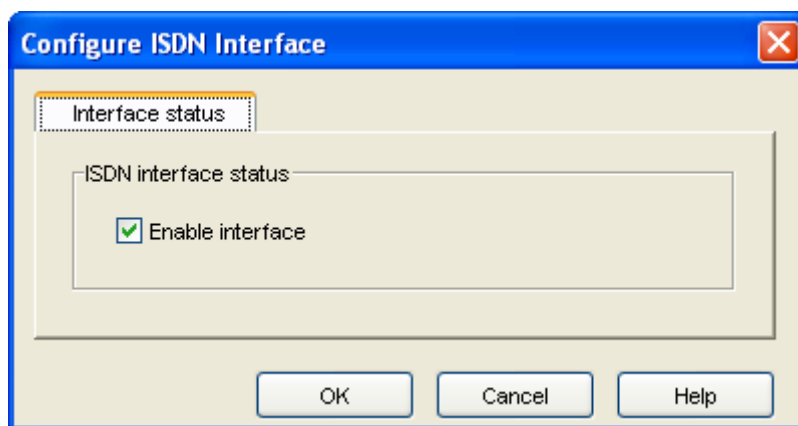
At the bottom of the window, there are three buttons: "Help", "OK", and "Cancel".

- f. Turn the DHCP Server **On**, if required. The screen displays the current DHCP Address Range, and subnet mask.
- g. If required, edit the DHCP address range by typing in a new start IP address in the **From** fields, and a new end IP address in the **To** fields. If required, edit the subnet mask.
- h. Turn NAT **On** or **Off** as required.
- If the terminal is operating in NAT mode, and multiple users are connected to the Ethernet interface over a hub or switch, all users share the standard or streaming IP data connection. Only one session of BGAN LaunchPad is required. Other users can open a dedicated connection, if required.
 - If the terminal is not operating in NAT mode, and multiple users care connected to the Ethernet interface over an external router, only one user can request a standard or streaming IP connection. Dedicated connections are not supported.
- i. Click on **OK** to save any changes and exit, or click on **Cancel** to exit without saving.

4 Setting up the ISDN Interface

You can establish ISDN communication by connecting your handset to the BGAN terminal's ISDN port. To activate ISDN, do the following:

- a. From BGAN LaunchPad main menu, select **Terminal > ISDN Interface Settings**. The **Configure ISDN Interface** dialog box displays, as shown below:



- b. Select the **Enable Interface** check box to activate the ISDN interface, or uncheck the check box to deactivate the interface.
- c. Click **OK** to save the changes, or **Cancel** to exit without saving.

5 Setting up the Bluetooth interface

5.1 Introduction

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. If you want to pair your device with the terminal, the default device name is "NERA-GW", and the default passkey is "0000" (four zeroes).
- Search for your Bluetooth-enabled device from the terminal. You can do this using BGAN LaunchPad.

5.2 Connecting from your device to the terminal

The Bluetooth device must be placed within a maximum distance of 20 m 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). To do this, you must be connected to the terminal via the LAN or USB 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**.

- b. Enable your Bluetooth device, and search for devices in range. The terminal's default Device Name is NERA-GW.
- c. Enter the terminal's passkey when prompted to pair with the terminal. By default, the passkey is 0000 (four zeroes). 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.

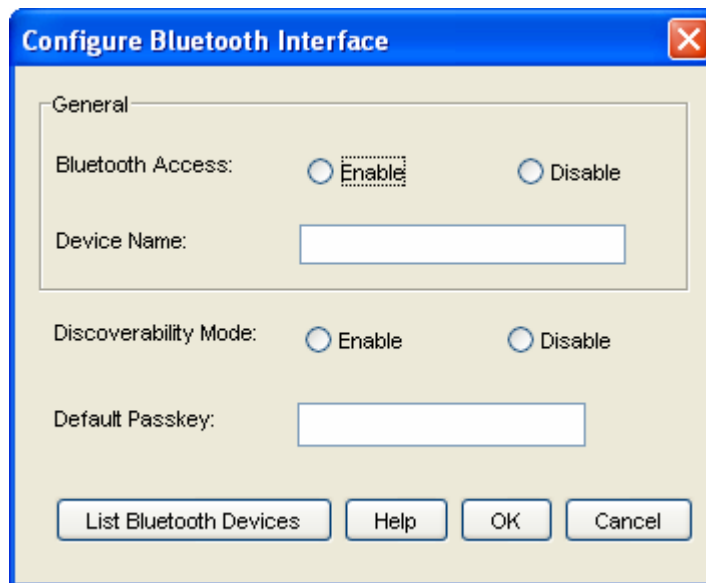
Tip: If you want to open an IP data connection over Bluetooth using BGAN LaunchPad, you must un-pair from all other devices, so that your computer is paired only with the BGAN terminal. You can now open BGAN LaunchPad and access terminal services over BGAN LaunchPad.

5.3 Connecting from the terminal to your device

The Bluetooth device must be placed within a maximum distance of 20m 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:

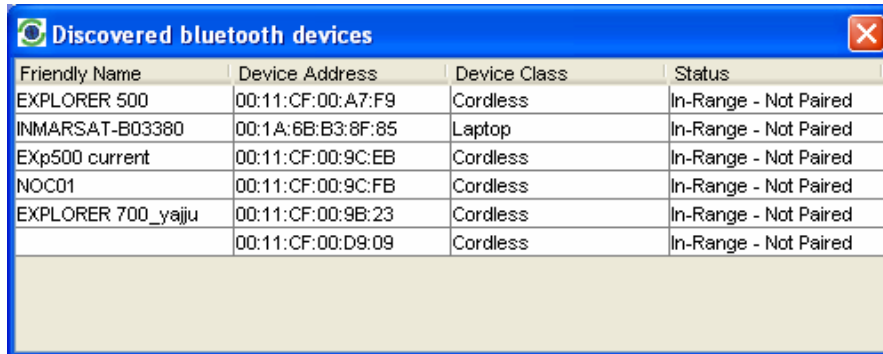
- e. From BGAN LaunchPad main menu, select **Terminal > Bluetooth Interface Settings**. The **Configure Bluetooth Interface** dialog box is displayed, as shown below:



- f. 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.

- g. 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	Device Class	Status
EXPLORER 500	00:11:CF:00:A7:F9	Cordless	In-Range - Not Paired
INMARSAT-B03380	00:1A:6B:B3:8F:85	Laptop	In-Range - Not Paired
EXp500 current	00:11:CF:00:9C:EB	Cordless	In-Range - Not Paired
NOC01	00:11:CF:00:9C:FB	Cordless	In-Range - Not Paired
EXPLORER 700_yajju	00:11:CF:00:9B:23	Cordless	In-Range - Not Paired
	00:11:CF:00:D9:09	Cordless	In-Range - Not Paired

- h. 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**.
- i. 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.
- j. 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 100/110. You can make a local call from a Bluetooth handset or headset to an analogue phone, or from an analogue phone to a Bluetooth handset or headset.

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.

Managing the terminal

6 Enabling or disabling audio and lights

The terminal has a built in audio and lights, which you can use to assist you in pointing the terminal. The terminal has a number of indicator lights (also called LEDs) on its external antenna unit and its interface unit, that indicate the status of various terminal features. To manage these features:

- a. From the BGAN LaunchPad main menu, select **Terminal > Audio and Lights**. The **BGAN Terminal Audio and Lights** dialog box displays:



- b. Set the **Buzzer volume** to the required level by clicking in the arrow and sliding it up or down. When you point the satellite, the buzzer increases in pitch as the satellite signal gets stronger.
- c. To turn the **Indicator lights** on or off for the Indoor (interface) unit or Outdoor (antenna) unit, click on **Enable** or **Disable** as required. You may want to disable these lights for security or other reasons.
- d. Click on **OK** to save the settings and close the window, click on **Apply** to save the setting and continue to edit this window, or click on **Cancel** to exit without saving.

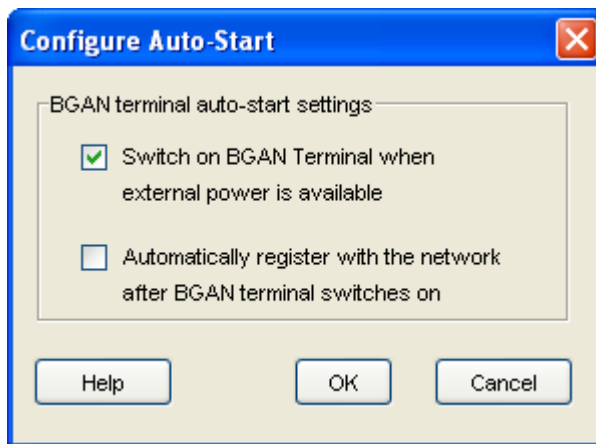
7 Enabling auto start and automatic registration

The auto start feature can be used in conjunction with automatic registration to allow the terminal to automatically recover from a power outage. This is useful if the terminal is mounted in a fixed location where the power switch cannot easily be reached, for example on a pole. In normal operation, the terminal does not turn back on when power is reapplied after a power failure. If you activate the auto start feature, the terminal turns back on automatically.

You can also enable automatic registration, in which case the terminal bypasses the pointing procedure and automatically reconnects to the network. Automatic registration should only be used for fixed installations, where pointing is not required after initial setup.

To activate auto start and/or automatic registration:

- a. From the BGAN LaunchPad main menu, select **Terminal > Auto Start Mode**. The **Configure Auto Start** dialog box displays:



- b. Check the **Switch on BGAN terminal when external power is available** check box to turn on auto start.
- c. If required, check the **Automatically register with the network after BGAN terminal switches on** check box to bypass pointing in the event of power failure.
- d. Click on **OK** to save the settings, or **Cancel** to exit without saving.

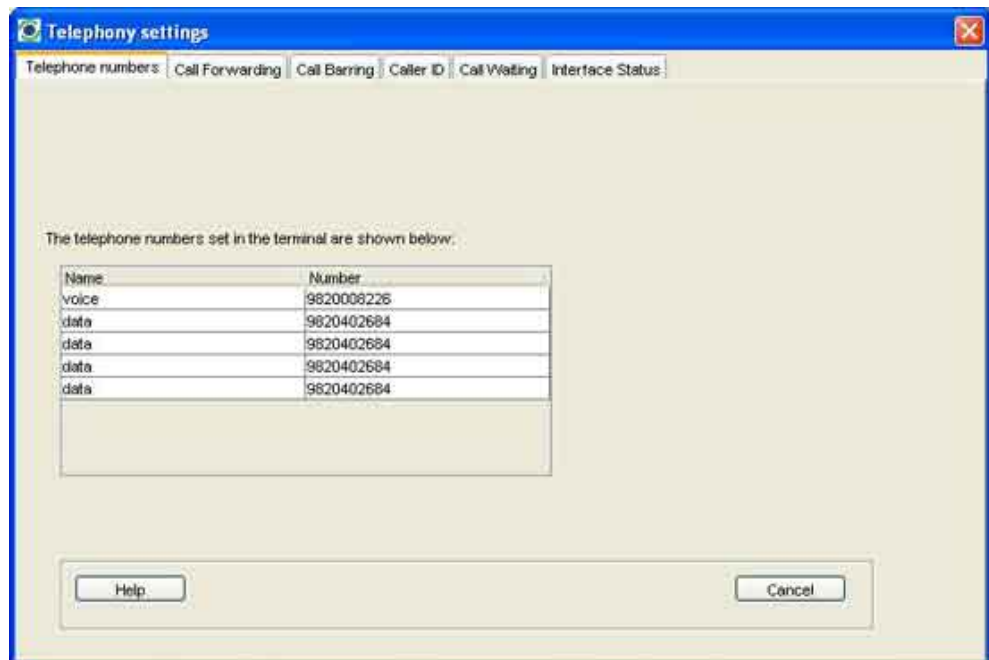
Telephony settings

You can use BGAN LaunchPad to set up phone settings such as call forwarding and call barring. Each of the available options are described in the following sections.

8 Viewing telephone numbers

You can display the terminal's telephone numbers and ISDN numbers in BGAN LaunchPad, if they have been supplied by your service provider. To do this:

- a. From the BGAN LaunchPad main menu, select **BGAN services > Telephony Settings**: (You can also click on **Advanced** in the Phone window). The Telephony Settings window displays.
- b. Select the **Telephone numbers** tab. The following window displays:



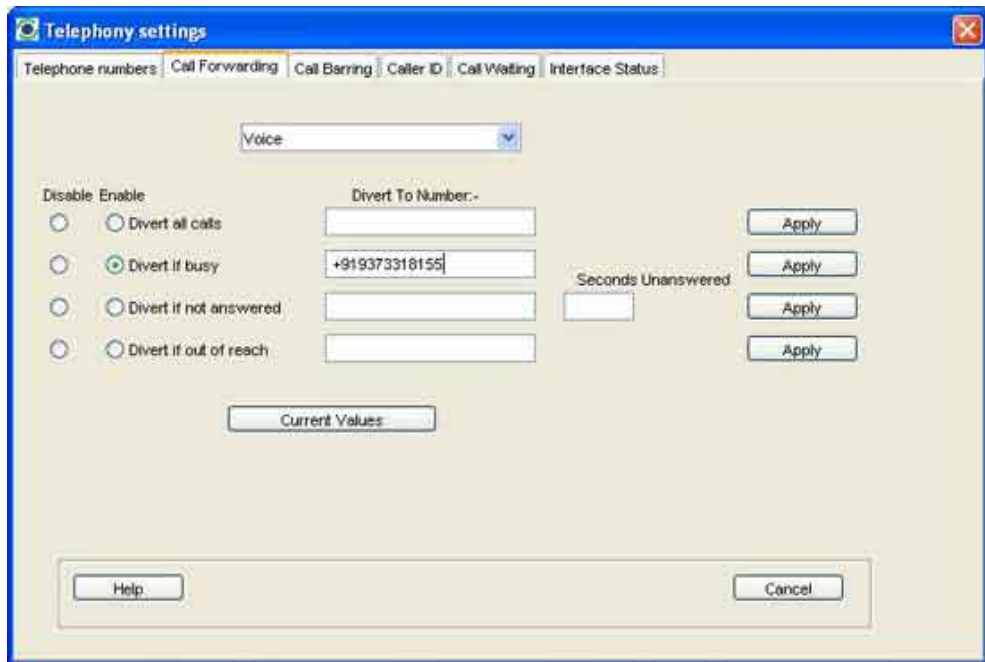
- c. The telephone numbers and ISDN numbers available to you are displayed in the **Telephone numbers** tab.

9 Setting up call forwarding

You can forward incoming calls to another phone using the Call Forwarding options.

To select call forwarding options:

- From the BGAN LaunchPad main menu, select **BGAN services > Telephony Settings**: (You can also click on **Advanced** in the Phone window). The Telephony Settings window displays.
- Select the **Call Forwarding** tab. The following window displays:



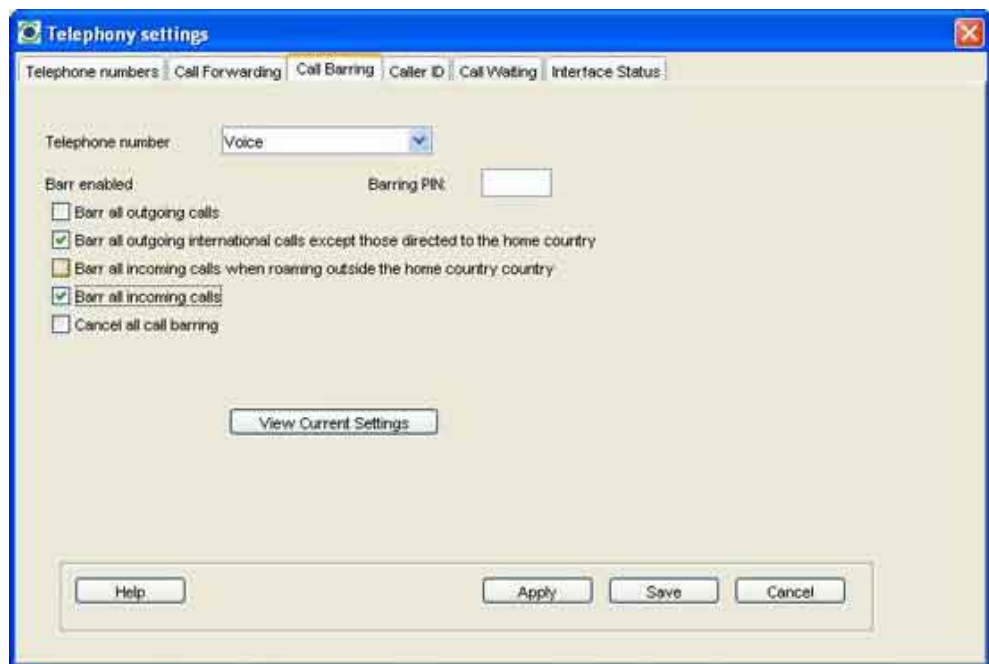
- From the drop-down list, select the service on which you want to set up call forwarding, either **Voice**, **Data** or **Fax**.
- Select **Enable** or **Disable** for each call forwarding option as required. If you enable a call forwarding option, enter the number of the telephone to which you want to forward the call in the text box alongside your selection. If you select **Divert if not answered**, enter the amount of time you want the phone to ring unanswered before the call is diverted, in the **Seconds unanswered** text box.
- If required, click on **Current Values** to display the current network settings for this service.
- Click on **Apply** to save the displayed configuration, and select another Phone settings tab, click on **Save** to save the displayed configuration and exit the Phone settings screen, or click on **Cancel** to exit without saving.

10 Setting up call barring

You can bar selected types of outgoing or incoming call using the Call Barring options. Before you can do this, you must enter the PIN supplied by your Service Provider.

To select call barring options:

- From the BGAN LaunchPad main menu, select **BGAN services > Telephony Settings**: (You can also click on **Advanced** in the Phone window). The Telephony Settings window displays.
- Select the **Call Barring** tab. The following window displays:



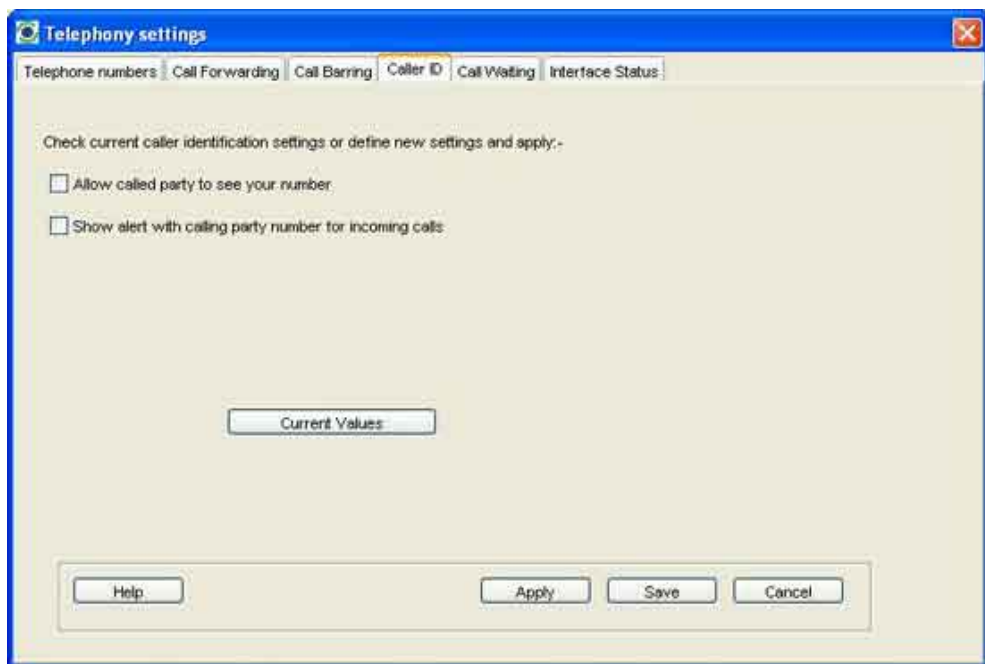
- In the **Telephone number** drop-down list, select the service on which you want to set up call barring: either **Voice**, **Data** or **Fax**.
- In the **Barring PIN** text box, enter the PIN supplied by your Service Provider. You cannot set up call barring options unless you enter the correct PIN.
- Check the check box if you want to activate a call barring service. If you choose **Cancel all call barring**, no other services are available to you. You must uncheck this box again to have access to the other services.
- If required, click on **Current Values** to display the current network settings for this service.
- Click on **Apply** to save the displayed configuration, and select another Phone settings tab, click on **Save** to save the displayed configuration and exit the Phone settings screen, or click on **Cancel** to exit without saving.

11 Setting up caller ID

You can enable caller ID if you want to see the number of an incoming caller, or allow a caller to see your number.

To set up caller ID:

- a. From the BGAN LaunchPad main menu, select **BGAN services > Telephony Settings**: (You can also click on **Advanced** in the Phone window). The Telephony Settings window displays.
- b. Select the **Call Barring** tab. The following window displays:



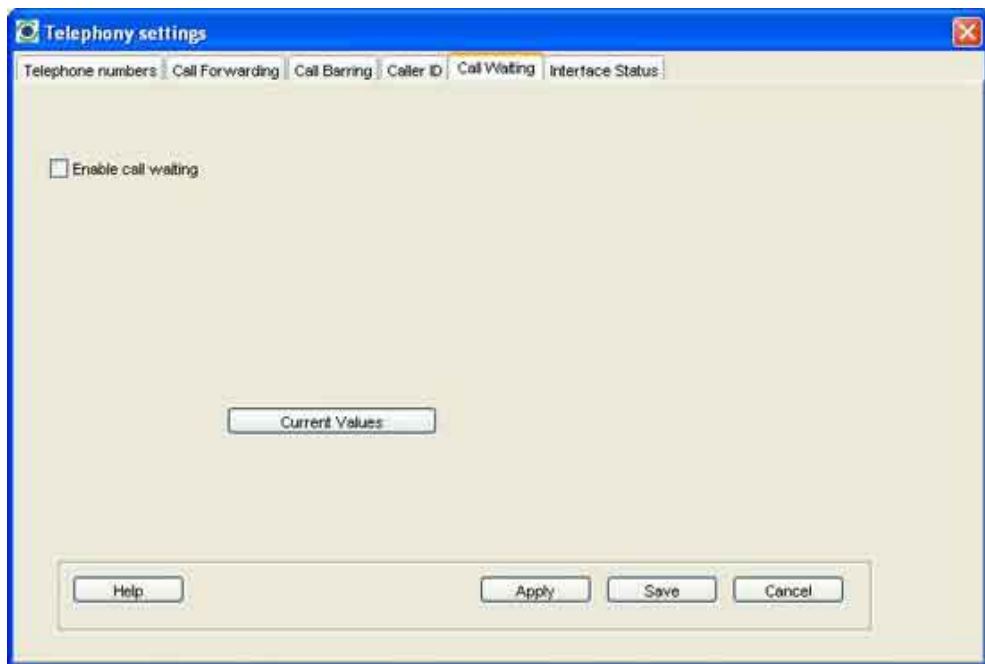
- c. Check the **Allow Called Party to see your number** check box if you want to allow the caller to see your number.
- d. Check the **Show alert with calling party number for incoming calls** check box if you want to see the number of an incoming caller.
- e. If required, click on **Current Values** to display the current network settings for this service.
- f. Click on **Apply** to save the displayed configuration, and select another Phone settings tab, click on **Save** to save the displayed configuration and exit the Phone settings screen, or click on **Cancel** to exit without saving.

12 Setting up call waiting

You can enable call waiting if you want to be notified that another caller is waiting which you are on a call.

To set up call waiting:

- a. From the BGAN LaunchPad main menu, select **BGAN services > Telephony Settings**: (You can also click on **Advanced** in the Phone window). The Telephony Settings window displays.
- b. Select the **Call Waiting** tab. The following window displays:

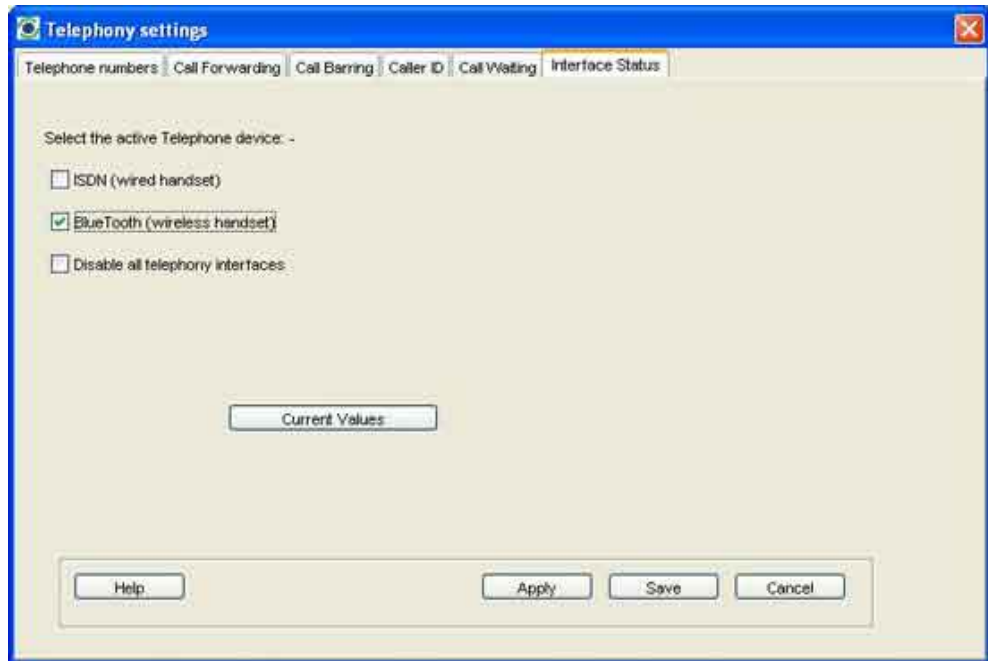


- c. Check the **Enable Call Waiting** check box to activate call waiting, or uncheck the check box to turn call waiting off.
- d. If required, click on **Current Values** to display the current network settings for this service.
- e. Click on **Apply** to save the displayed configuration, and select another Phone settings tab, click on **Save** to save the displayed configuration and exit the Phone settings screen, or click on **Cancel** to exit without saving.

13 Setting up interface status

You can set the active telephone interface as ISDN, Bluetooth, ISDN and Bluetooth together, or you can disable all telephony interfaces. To set the interface status:

- a. From the BGAN LaunchPad main menu, click on **BGAN Services > Telephony Settings** (or click on **Advanced** in the Phone window). The Telephony settings window displays.
- b. Click on **Interface Status**. The following window displays:



- c. Check the available check boxes as required. If you choose **Disable all telephony interfaces**, no other services are available to you. You must uncheck this box again to have access to the other services.
- d. If required, click on **Current Values** to display the current network settings for this service.
- e. Click on **Apply** to save the displayed configuration, and select another Phone settings tab, click on **Save** to save the displayed configuration and exit the Phone settings screen, or click on **Cancel** to exit without saving.