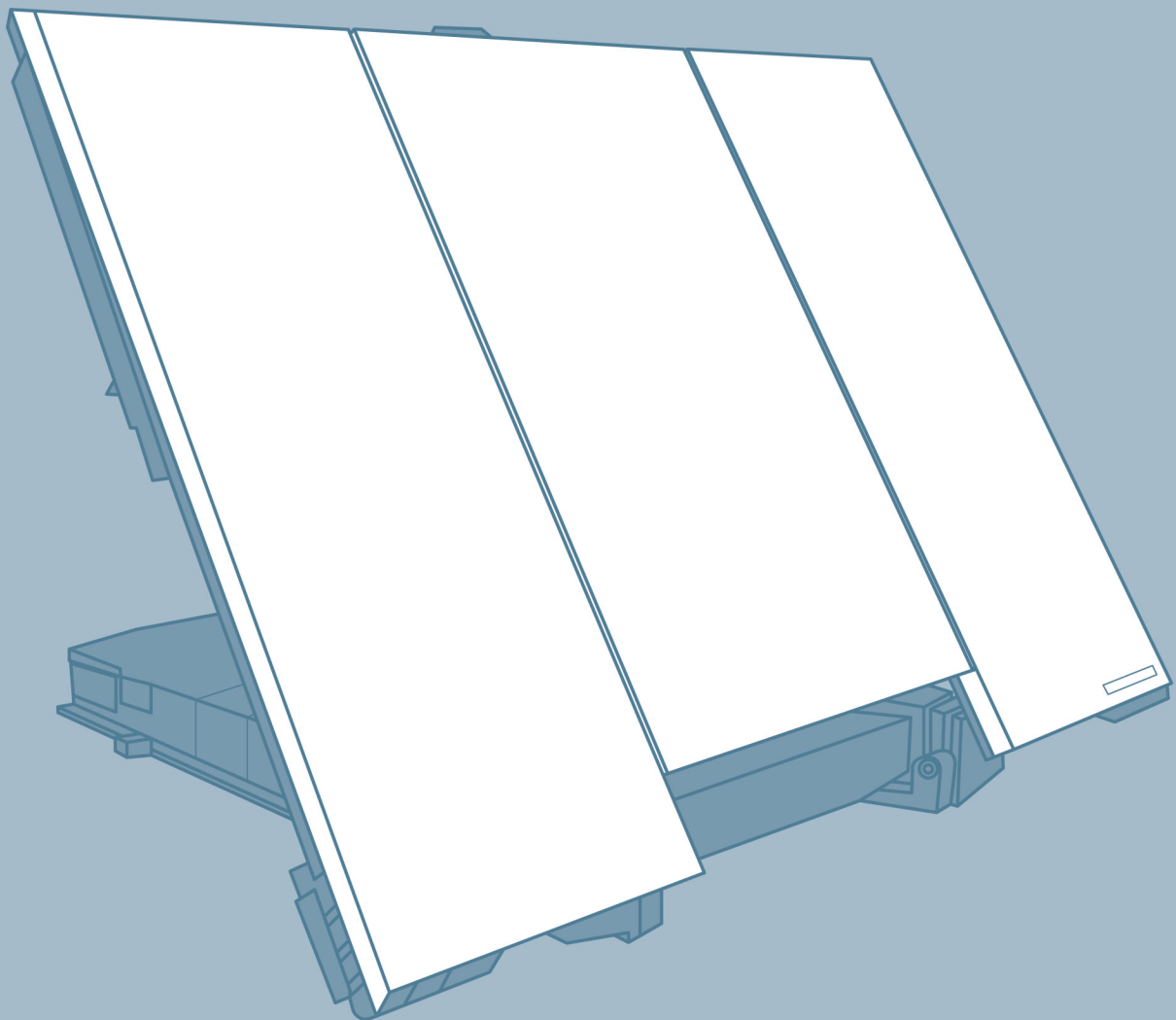


# USER MANUAL



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# TT-3720A EXPLORER<sup>®</sup> 700

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## Safety Summary

The following general safety precautions must be observed during all phases of operation, service and repair of this equipment.

Failure to comply with these precautions or with specific warnings elsewhere in this manual violates safety standards of design, manufacture and intended use of the equipment. Thrane & Thrane A/S assume no liability for the customer's failure to comply with these requirements.

### **Do Not Operate in an Explosive Atmosphere**

Do not operate the equipment in the presence of flammable gases or fumes. Operation of any electrical equipment in such an environment constitutes a definite safety hazard.

### **Keep Away from Live Circuits**

Operating personnel must not remove equipment covers. Component replacement and internal adjustment must be made by qualified maintenance personnel. Do not replace components with the power cable connected. Under certain conditions, dangerous voltages may exist even with the power cable removed. To avoid injuries, always disconnect power and discharge circuits before touching them.

### **Do Not Service Alone**

Do not attempt internal service or adjustments unless another person, capable of rendering first aid resuscitation, is present.

### **Do Not Substitute Parts or Modify Equipment**

Because of the danger of introducing additional hazards, do not substitute parts or perform any unauthorized modification to the equipment.

### **Keep Away from Antenna Front**

This device emits radio frequency energy when switched on. To avoid injury, keep a minimum safety distance of 1 m from the antenna front when the EXPLORER 700 is on.

For information on the safety distance from the transceiver, see the *FCC Radiation Exposure statement* on the next page.



### **Only Use Approved Batteries from Thrane & Thrane**

Use of non approved batteries may result in explosion, fire, electrical shock or injury.

### **Observe Marked Areas**

Under extreme heat conditions do not touch areas of the EXPLORER 700 that are marked with this symbol, as it may result in injury.



## FCC Radiation Exposure statement

Transceiver Unit (when separated from the Antenna Unit):

This equipment complies with FCC radiation exposure limits for an uncontrolled environment. This equipment should be installed and operated at a distance greater than 20 centimeters (8 inches) between the Transceiver Unit, yourself or any bystander to comply with the Radiation Exposure Requirements.

## Antenna Safety Instructions

### Use Only Manufacturer Supplied Antennas

#### Antenna Minimum Safe Distance: 1 m

### Antenna Gain

Directional, with maximum gain of 14.9 dB reference to isotropic.

The Federal Communications Commission has adopted a safety standard for human exposure to RF (Radio Frequency) energy which is below the OSHA (Occupational Safety and Health Act) limits.

### Antenna Mounting

The antenna supplied by the manufacturer must be located such that during radio transmission, no person or persons can come closer than the above indicated minimum safe distance to the antenna, i.e. 1 m.

To comply with current FCC RF Exposure limits, the antenna must be installed at or exceeding the minimum safe distance shown above, and in accordance with the requirements of the antenna manufacturer or supplier.

### Antenna Substitution

Do not substitute any antenna for the models supplied or recommended by the manufacturer. You may be exposing people to excess radio frequency radiation. You may contact the manufacturer for further instructions.

### Radiation Warning



**WARNING!** Maintain a separation distance of at least 1 m from the front face of the antenna to a person.

You, as the qualified end-user of this radio device, must control the exposure conditions of bystanders to ensure the minimum separation distance (above) is maintained between the antenna and nearby persons, for satisfying RF Exposure compliance. The operation of this transmitter must satisfy the requirements of Occupational/Controlled Exposure Environment, for work-related use. Only use the terminal when persons are at least the minimum distance from the front face of the antenna.

# About the Manual

## Intended Readers

This manual is a user manual for the EXPLORER 700. The readers of the manual include anyone who is using or intends to use the EXPLORER 700. No specific skills are required to operate the EXPLORER 700. However, it is important that you observe all safety requirements listed in the beginning of this manual, and operate the EXPLORER 700 according to the guidelines in this manual.

## Manual Overview

This manual may not always reflect the latest software functionality of your EXPLORER 700. To obtain the latest version of the manual, please enter the Thrane & Thrane Extranet and download the latest version, or acquire it from your distributor.

This manual has the following chapters:

- **Introduction** contains an overview of the BGAN services and a brief description of the system.
- **Getting started** explains how to insert SIM card and battery, start up the unit, and navigate the display menus. It also contains a short guide to making the first call.
- **Using the display and keypad** contains an overview of the display menu system and explains how to use the menus.
- **Using the interfaces** explains how to set up and use each interface.
- **Using the web interface** explains how to use the built-in web interface of the EXPLORER 700, and describes the available menus and settings. It also explains advanced setup of interfaces.
- **Maintenance and troubleshooting** contains a short troubleshooting guide and explains how to update software. It also describes and lists the alarm messages that may appear in the handset, and gives information on where to get further help if necessary.

## Typography

In this manual, typography is used as indicated below:

**Bold** is used for the following purposes:

- To emphasize words.  
Example: “Do **not** touch the antenna front during pointing”.
- To indicate what the user should select in the user interface.  
Example: “Select **Settings** > **Bluetooth** and click **Enabled**”.

**Italic** is used to emphasize the paragraph title in cross-references.

Example: “For further information, see *Connecting Cables* on page...”.

**COURIER** is used for the following purposes:

- To indicate text appearing in the display, or to indicate low level commands.  
Example: “the Main screen shows **READY**”.

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## *Introduction*

### **Welcome**

Congratulations on the purchase of your EXPLORER 700!

The EXPLORER 700 is a broadband mobile terminal with a detachable antenna, providing high-speed data and voice communication via satellite through the Broadband Global Area Network (BGAN).

Just plug in a phone, fax, laptop or PDA, or use the Bluetooth® or WLAN interface, point the antenna towards the BGAN satellite - and you are online.



EXPLORER 700 is an essential evolution in satellite communication for governments, broadcasters and other organizations dependent on relaying information fast under any condition.

The EXPLORER 700 provides access to the highest bandwidth available on the BGAN network – up to 492 kbps. The system offers multi-user as well as single-user functionality, making it a flexible solution for a variety of applications.

Applications include:

- Internet browsing
- E-mail
- Phone and fax services
- Large file transfers
- Video conferencing and Streaming
- VPN (Virtual Private Network) access to corporate servers

### **In this chapter**

This chapter gives an overview of the BGAN system and services, and introduces the EXPLORER 700.

It also gives an overview of the physical unit and its features and functions.

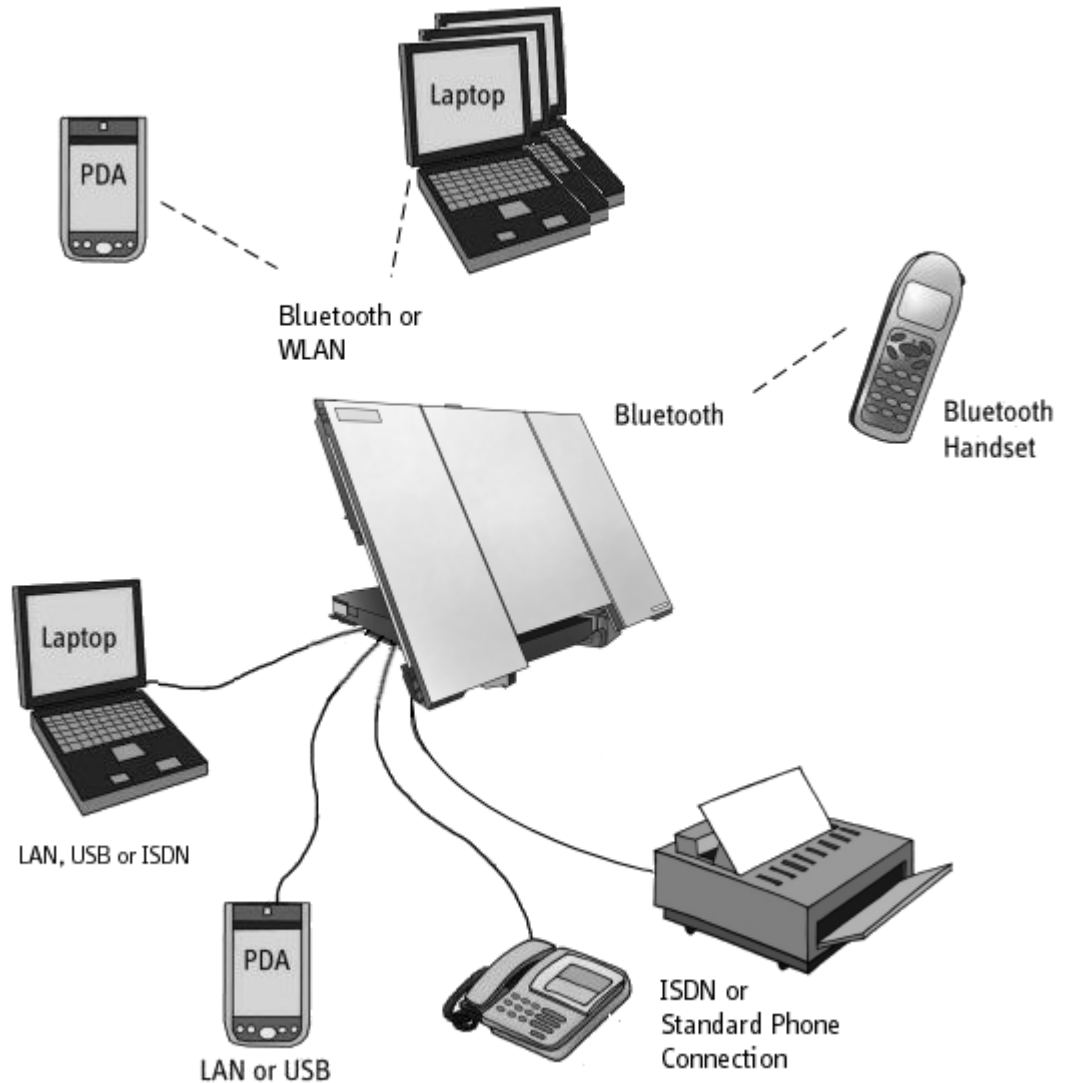
## Features and interfaces of the EXPLORER<sup>®</sup> 700

### Features

- Simultaneous voice and data communication over BGAN
- Full duplex, single or multi-user, up to 492 kbps
- Support for Streaming data at 32, 64, 128, 256 kbps
- Seamless global coverage
- Standard LAN, WLAN, USB, ISDN, Bluetooth and Phone/Fax ports
- Integral DHCP/NAT wireless router
- Built-in PBX managing voice communication
- Built-in web interface allowing you to manage your phone book, messages and calls, and customize the terminal to your specific needs
- Multi-lingual user interface (English, French, German, Russian, Spanish)
- 10-32 V DC input
- 100-240 V AC power adapter
- Solar panel direct interface
- Detachable lightweight antenna with integral transceiver stand and transceiver-to-antenna range up to 100 m/328 ft
- Compact portable unit, sturdy and reliable construction
- Humidity, dust, weather and temperature-resistant design
- Rapid deployment and take-down
- CE, FCC and GMPCS certified

## Overview of interfaces

The EXPLORER 700 provides a number of interfaces for connection of various types of computers, fax devices and phones.



*Using the interfaces* on page 54 describes how to use each of the available interfaces.

## Minimizing power consumption

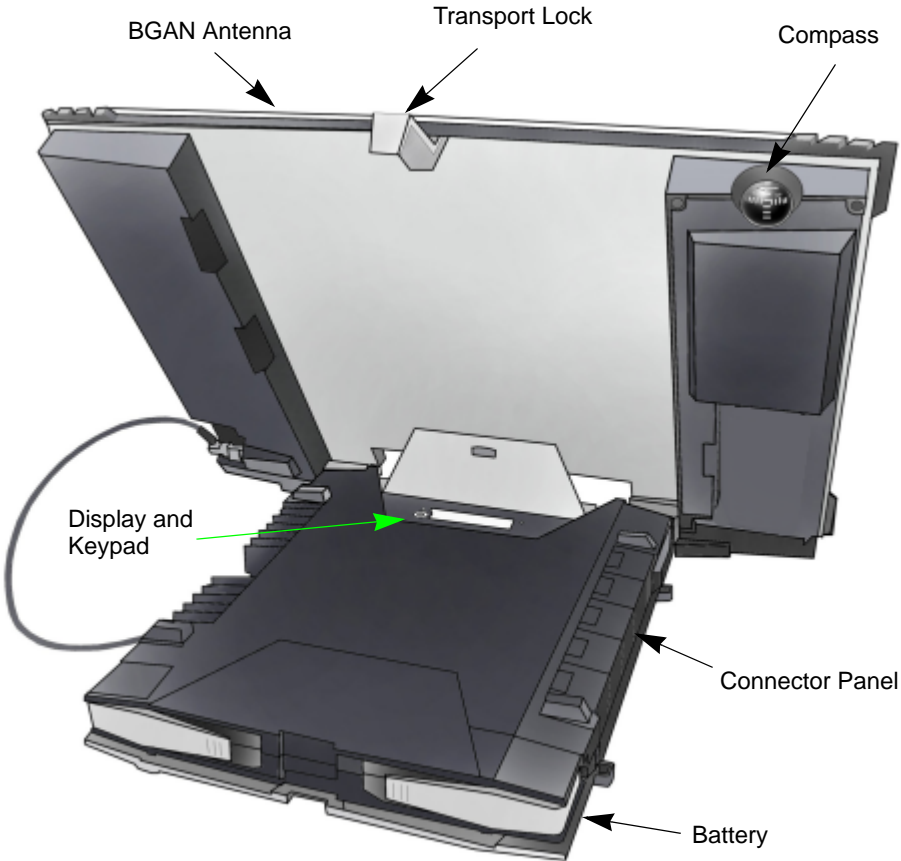
The EXPLORER 700 is designed for minimum power consumption. This means that functions that are not currently used will automatically go into a “sleep mode” to minimize the power consumption.

In addition to this automatic sleep mode function, you can disable each of the interfaces if they are not currently used. Note, however, that you will not be able to use these interfaces until you enable them again. For information on how to enable/disable interfaces, see *Enabling or disabling an interface* on page 56.

# Your EXPLORER® 700 terminal

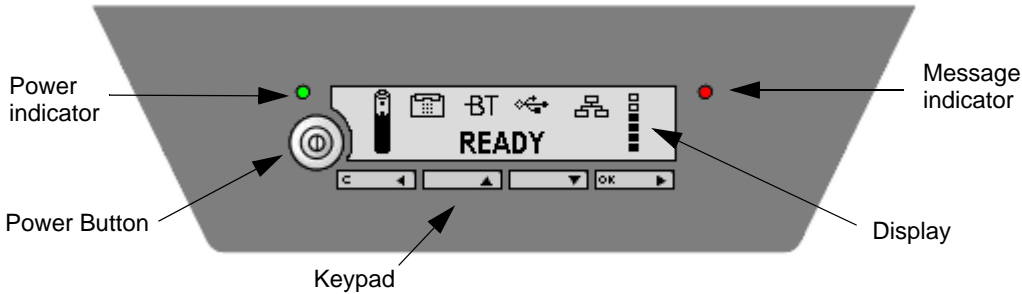
## Overview

The EXPLORER 700 is a compact unit comprising a transceiver with a detachable antenna, compass, display and keypad, all in one unit.



## Display and keypad

The EXPLORER 700 has a display and a keypad for displaying status and for setting up the EXPLORER 700.



For information on how to use the keypad and display, and for an overview of the display menu system, see *Using the display and keypad* on page 37.

## Light indicators

The EXPLORER 700 has two light indicators next to the display: a green power indicator and a red message indicator.

### Green Power indicator

The function of the green Power indicator to the left of the display is as follows:

Behavior of green indicator	Meaning
Short flash every 2 seconds	The EXPLORER 700 is on.
Steady light	The battery is charging.
Flashing rapidly	A charging error has occurred. For further information, refer to the <i>Troubleshooting Guide</i> on page 159.
Off	No power or Stealth mode.

### Red Message indicator

The function of the red Message indicator to the right is as follows:

Behavior of red indicator	Meaning
Flashing	An alarm is active or An SMS message has arrived. Press <b>OK</b> on the keypad to view the alarm(s) or SMS message(s). <sup>a</sup> The red light will keep flashing after OK is pressed if <ul style="list-style-type: none"> <li>• there are more SMS messages, or</li> <li>• an alarm is still active.</li> </ul> For information on alarm messages, see <i>Alarm messages</i> on page 168.
Flashing rapidly	Software is being uploaded to the antenna. Do not detach the antenna until software upload is done. Upload is done when the indicator stops flashing rapidly. The display and the web interface also show an alarm message while software upload is in progress. If the alarm is still present and the indicator is still flashing rapidly after 10 minutes, it means an error has occurred. Contact your distributor.
Off	No messages are present, or the EXPLORER 700 is in Stealth mode.

a. If a computer is connected, you can also view alarms and SMS messages in the built-in web interface in the EXPLORER 700. For further information, see *Icons in the icon bar* on page 88.



## User interfaces

The **keypad and display** are used for pointing the antenna, for displaying status and for changing simple parameters.

To obtain full access to all features and for ease-of-use, you should use a computer (a PC, Laptop or similar) and one of the following:

- The **web interface**. A built-in web interface for easy configuration and daily use. The web interface is accessed from a computer connected to the EXPLORER 700, using an Internet browser. No installation of software is needed if you connect using LAN or WLAN. If you connect using USB you need to install a USB driver for the computer to recognize the EXPLORER 700. See *Using the USB interface* on page 75.  
For further information on the web interface, see Chapter 5, *Using the web interface*.
- The **BGAN LaunchPad** from Inmarsat. BGAN LaunchPad is a computer application used to control terminals in the BGAN system. LaunchPad is provided on the Inmarsat BGAN CD-ROM supplied with your EXPLORER 700. For information on how to use the LaunchPad, refer to the manual on the Inmarsat CD-ROM.

Additionally, it is possible to control the EXPLORER 700 using AT Commands. AT commands are typically used during service and maintenance of the terminal. Refer to Appendix B, *AT commands*.

## Antenna

The white part of the EXPLORER 700, including the support bracket, is the detachable antenna module. The antenna module comprises a GPS (Global Positioning System) antenna and a BGAN antenna. Bluetooth and Wireless LAN antennas are integrated in the transceiver unit.

## Compass

The EXPLORER 700 also provides a compass to help positioning the antenna. For further information on how to use the compass, see *Pointing the antenna* on page 27.



## Battery

The EXPLORER 700 comes with a rechargeable battery, which is easily inserted. The battery is automatically recharged when power is applied to the EXPLORER 700. Steady green light indicates that the battery is charging.

Time between recharging: between 1 1/2 hour and 36 hours, depending on the use. Refer to *Technical specifications* on page 177.

### **SIM card**

The EXPLORER 700 has two SIM slots, USIM #1 and USIM #2, located behind the battery. Only USIM #1 is currently in use. USIM #2 is reserved for future use.

The SIM (Subscriber Identity Module) card used for the EXPLORER 700 is a standard SIM card, which is acquired from the Airtime Provider.

The EXPLORER 700 requires a SIM card to go online and to access the settings of the EXPLORER 700. Without a SIM card you can only see the Main screen of the display system showing battery status etc. Using the web interface, you can view the Dashboard of the EXPLORER 700 and upload software without inserting a SIM card. Upload of software, however, requires an Administrator user name and password.

### **SIM lock**

The supplier may SIM lock the EXPLORER 700 to a specific provider. For further information, contact your supplier.

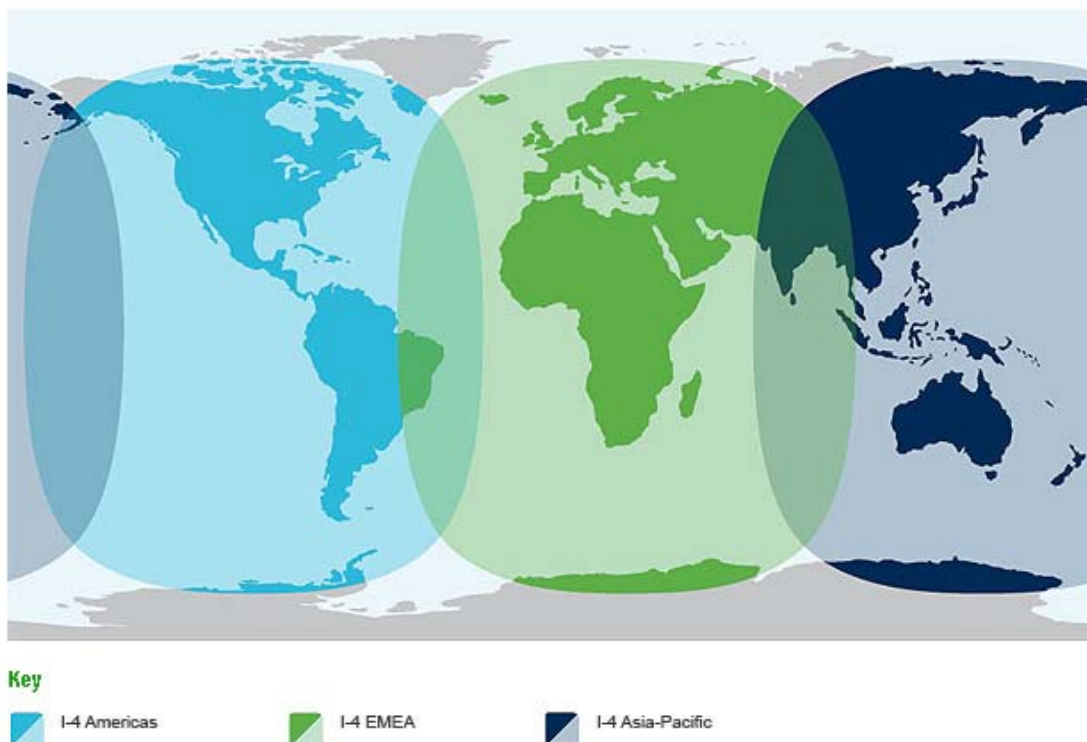
## The Inmarsat BGAN system

### What is BGAN?

The Broadband Global Area Network (BGAN) is a mobile satellite service that offers high-speed data up to 492 kbps and voice telephony. BGAN enables users to access e-mail, corporate networks and the Internet, transfer files and make telephone calls.

### Coverage

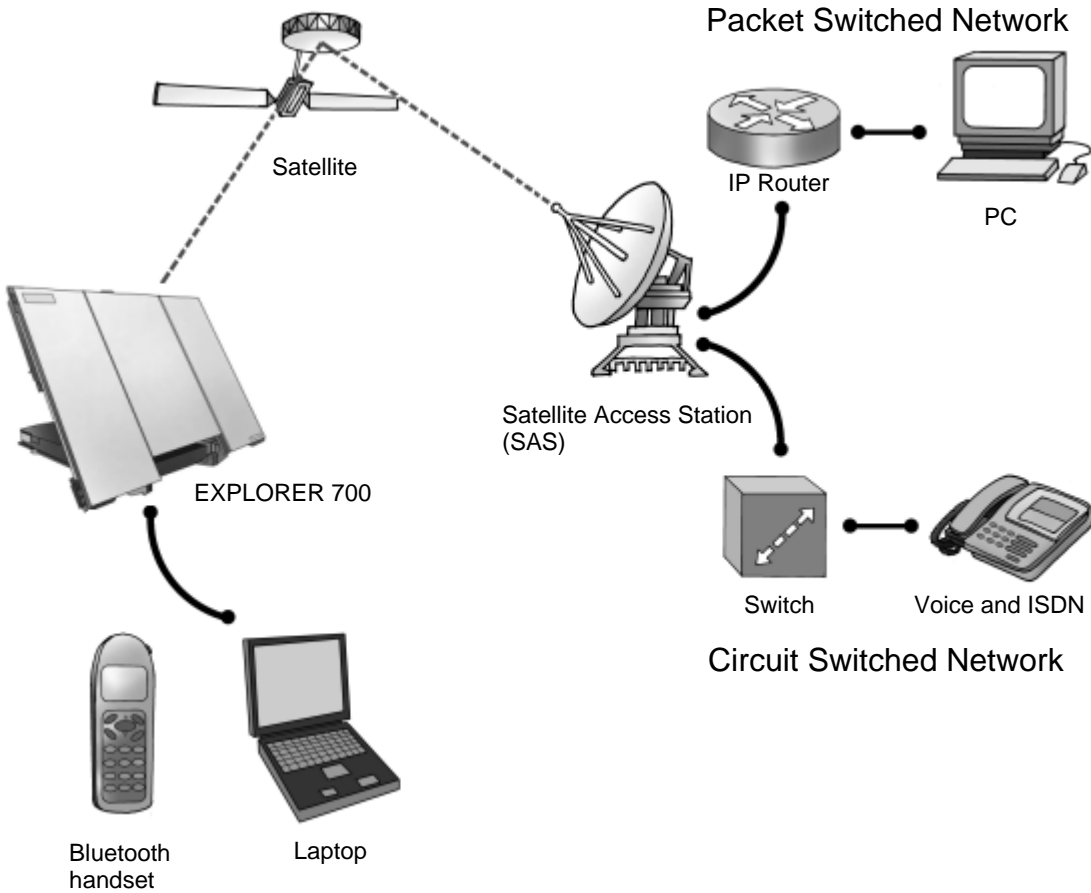
The Inmarsat® BGAN services are based on geostationary satellites situated above the equator. Each satellite covers a certain area (footprint). The coverage map below shows the footprints of the BGAN system as they are after the repositioning of the satellites at the end of february 2009. For updated information on coverage, see Inmarsat's home page at [www.inmarsat.com](http://www.inmarsat.com).



**Note** The map depicts Inmarsat's expectations of coverage, but does not represent a guarantee of service. The availability of service at the edge of coverage areas fluctuates depending on various conditions.

**Overview of the BGAN system**

A complete BGAN system may include the EXPLORER 700 with connected peripherals, the BGAN satellite, and the Satellite Access Station (SAS). The satellites are the connection between your EXPLORER 700 and the SAS, which is the gateway to the worldwide networks (Internet, telephone network, cellular network, etc.).



## The BGAN services

### Supported services

The services currently supported by BGAN comprise:

- A Packet Switched connection to the Internet
- A Circuit Switched (Dialed) connection for voice, fax or data
- Short Messaging Service (SMS)

### Packet data service

The BGAN network supports different classes of data connection to the Internet.

- Using a **Standard data** connection, several users can share the data connection simultaneously. This type of connection is ideal for e-mail, file transfer, and Internet and intranet access. The user pays for the amount of data sent and received.
- Using a **Streaming data** connection, you get an exclusive, high-priority connection, ensuring seamless transfer of data. This type of connection is ideal for time critical applications like live video over IP. The user pays for the duration of the connection (per minute charge).

### Circuit switched (dialed) service

The following types of circuit switched connection are available:

- **Standard Voice.** A low-tariff connection for voice only, also called AMBE-2. The voice signal is compressed to 4.0 kbps, which reduces the bandwidth use and consequently the tariff.
- **3.1 kHz Audio.** A high quality connection which can be used for Premium Voice, G3 fax or analog modems.  
The signal is uncompressed 3.1 kHz audio, which allows for optimum voice quality.
- **ISDN.** A high quality connection which can be used for voice (3.1 kHz Audio), G4 fax or 64 kbps UDI/RDI data.

### SMS service

The BGAN system provides a Short Messaging Service (SMS) for sending and receiving SMS messages.

### Supplementary services

The BGAN system also provides the following supplementary services:

- Call hold
- Call waiting
- Call forwarding
- Voice mail
- Call barring

- Calling line identification
- Closed user group

## Matrix of services and communication interfaces

The following table shows which equipment and interfaces you can use to access the services listed in the left column.

Service		Interface on the EXPLORER 700						
		Phone/ Fax	Bluetooth	USB	LAN	WLAN	ISDN	Display/ Keypad
Circuit Switched Connection	3.1 kHz Audio	Analog telephone	Bluetooth handset				ISDN telephone	
		G3 Fax machine						
	Standard Voice	Analog telephone	Bluetooth handset				ISDN telephone	
	Data	Computer with analog modem	Computer	Computer (56 kbps/ 64 kbps)			G4 fax machine or computer with ISDN modem	
Packet Switched Connection	Data multi-user		Computer		Computer	Computer		
	Data single- user		Computer	Computer	Computer	Computer		
SMS			Computer with web interface	Computer with web interface	Computer with web interface	Computer with web interface	Computer with ISDN modem and web interface	View only

## Getting started

### In this chapter

This chapter describes:

- what is included in the delivery,
- how to insert and remove the battery and SIM card, and
- how to start up the EXPLORER 700 and make the first call or data session.

### Unpacking and assembling

#### Unpacking

Unpack the EXPLORER 700 and accessories and check that the following items are present:



EXPLORER 700



Getting Started Kit containing:

- Getting Started leaflet
- Quick Guide
- EXPLORER 700 CD-ROM
- BGAN LaunchPad CD-ROM



AC/DC adapter/charger



USB cable



Battery



10 m antenna cable  
41.5 cm antenna cable



LAN cable

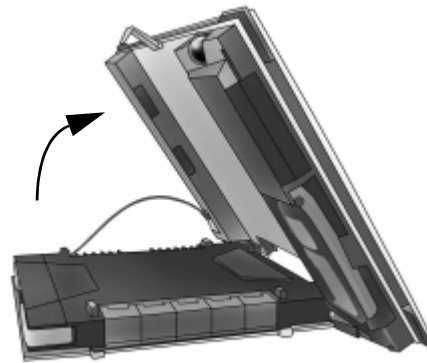
## Opening the transport latch

The EXPLORER 700 has a transport latch, securing the transceiver and antenna during transport.

1. Open the latch as shown.



2. Flip up the antenna module.  
You can now access the keypad and connectors on the EXPLORER 700.





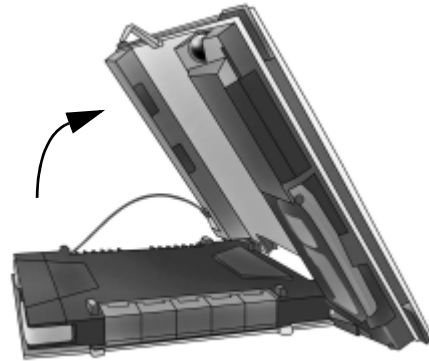
## Detaching the antenna

You have two options for using the EXPLORER 700 antenna:

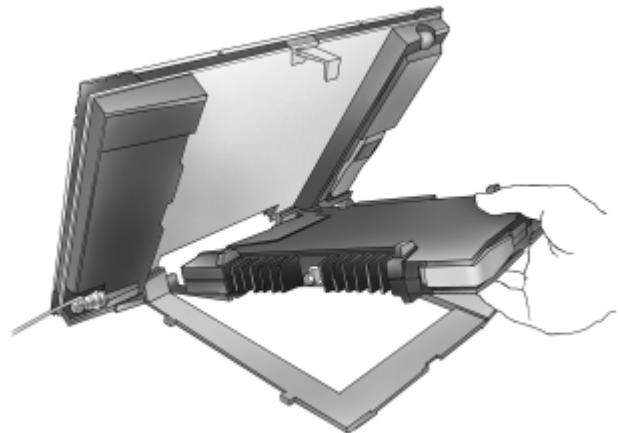
- **Attached.** You can go through the pointing process with the antenna and transceiver attached as one unit. This means you have to move the entire terminal in order to point the antenna towards the BGAN satellite. If you choose this option, make sure you connect all cables including the short antenna cable, and enter the PIN code, before pointing the antenna. If not, you may accidentally move the antenna when you connect cables or enter the PIN code.
- **Detached.** You can detach the antenna and use it as a separate antenna. With the antenna separated from the transceiver, it is easier to use the transceiver without accidentally moving the antenna. Also, you can choose the optimum location for the antenna while keeping the transceiver in a more comfortable location.

To detach the antenna, do as follows:

1. Flip up the antenna module.



2. Gently lift the transceiver out of the antenna frame.



After detaching the antenna connect an antenna cable between the antenna and the EXPLORER 700 as described in *Connecting the antenna* on page 21.

**Note** If you start up the system before you connect the antenna, the system will not be fully functional until the terminal has rebooted.

## Inserting the SIM card

The EXPLORER 700 is delivered with the battery separated from the terminal. If the battery is already inserted, remove it as described in *Removing the battery* on page 18.

There are two SIM slots in the EXPLORER 700, marked USIM #1 and USIM #2. USIM #2 is reserved for future use.

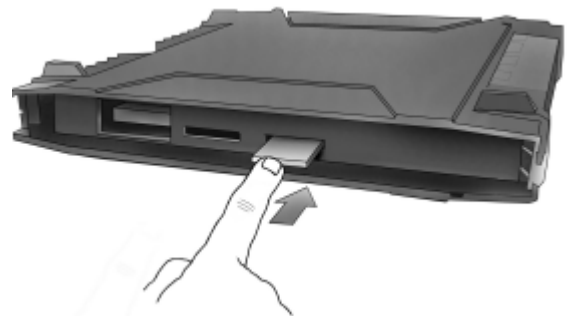
The SIM card is provided by your Airtime Provider. Insert the SIM card as follows:

1. First press the eject button at the SIM slot marked USIM #1 to release the SIM card holder.  
Use a pen or similar to press the button.  
The SIM card holder is a small plastic frame designed to hold the SIM card.



2. Take the SIM card holder out and place the SIM card in the holder, with the chip side visible.

3. Insert the holder with the SIM card into the SIM slot marked USIM #1.  
Place the holder with the printed side facing down.



4. Press gently until it clicks.

## Inserting the battery

Do as follows:

1. Insert the battery.  
Make sure the battery is positioned correctly as shown.
2. Press gently until it locks.  
You may need to lift the transport lock slightly to be able to insert the battery.



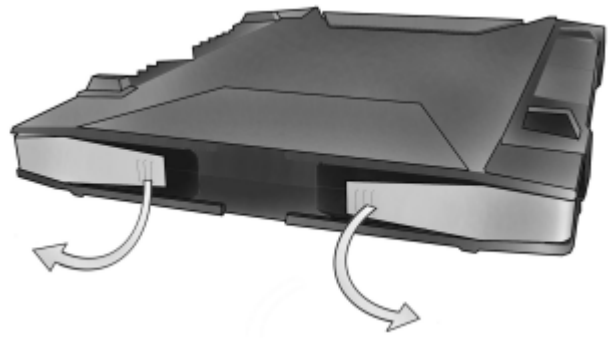
### Note

After inserting the battery, before using the terminal the first time: to ensure accurate information on the battery capacity you should fully charge, then fully discharge the battery, and finally recharge the battery while it is inserted in the terminal. The EXPLORER 700 can be used during the discharging process, but the remaining battery capacity may not be displayed correctly. For information on how to recharge the battery, see *Recharging the battery* on page 156.

## Removing the battery

To remove the battery, do as follows:

1. If the transceiver and antenna are attached, open the transport latch and flip up the antenna module. Then gently lift the transceiver out of the antenna frame.
2. Open the battery latches as shown.



3. Remove the battery.



## Removing the SIM card

To remove the SIM card, first remove the battery as described in *Removing the battery* on page 18.

**Note**

When the SIM card is removed, you cannot use the display menu system nor make calls or start data sessions.

Only emergency calls are allowed, and only if permitted by the network.

However, if you have an administrator user name and password, you can upload software using the web interface. For further information, see *Uploading software from your computer* on page 138.

Remove the SIM card as follows:

1. Press the eject button next to the SIM slot marked USIM #1.  
Use a pen or similar to press the button.



2. Remove the SIM card holder.



3. Take the SIM card out of the holder and reinsert the holder.

## Placing the EXPLORER<sup>®</sup> 700

Please observe the following rules when placing the EXPLORER 700:

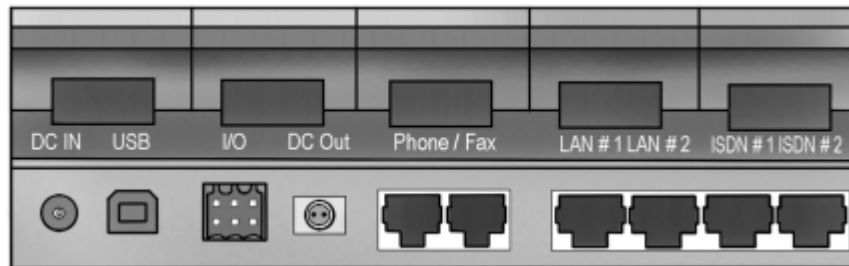
- **Antenna:** To ensure sufficient drainage in rainy conditions, place the antenna with the compass facing up.
- **Transceiver:** It is recommended **not** to use the transceiver of the EXPLORER 700 outdoors in rainy conditions without any extra protection. The transceiver is designed for IP52.
- For protection of the transceiver, always leave the battery inserted.

## Connectors

After inserting SIM card and battery, connect all relevant cables.

**Important** If you are using the transceiver with the antenna attached, connect the cables before making the final adjustment of the antenna position. Otherwise you may accidentally move the antenna when you connect the cables.

The connector panel is placed on the side of the EXPLORER 700 and has the following connectors:



- 1 DC power input connector for connection to 10-32 V DC.
- 1 USB connector
- 1 Input/Output connector for external control or signaling
- 1 Bluetooth Handset charging connector (marked DC OUT)
- 2 Phone/Fax connectors
- 2 LAN connectors
- 2 ISDN connectors

For information on how to connect to a specific interface, see the corresponding section in Chapter 4, *Using the interfaces*. The next sections describe how to connect the antenna and power.

## Connecting the antenna

### Before connecting the antenna

You can use the EXPLORER 700 with the antenna attached to the transceiver, or you can detach the antenna from the transceiver and use it as a separate antenna unit.

If you are using the antenna attached to the transceiver, use the short antenna cable to connect antenna and transceiver.

If you are using the antenna detached from the transceiver, use one of the antenna cables from Thrane & Thrane, or a cable with the same specifications. For information on available lengths, see *Options and accessories* on page 158. For specifications on the antenna interface, refer to *Antenna interface on Transceiver* on page 186.

### Connecting the antenna

Do as follows:

1. Connect the antenna cable to the connector on the antenna module.



- If you are going to use the antenna and transceiver attached as one unit, use the short antenna cable provided with your EXPLORER 700.
- If you are going to use the antenna separated from the transceiver, first open the terminal and gently lift the transceiver out of the antenna frame. Then place the antenna in a location with a clear view to the satellite and connect the antenna cable.

2. Connect the other end of the cable to the antenna connector on the transceiver.



You are now ready to connect power.

## Connecting power

### Before connecting to power

You can connect to external power or use the battery delivered with your EXPLORER 700.

Refer to *Power input* on page 179 for specifications and pin-out for the DC Power input.

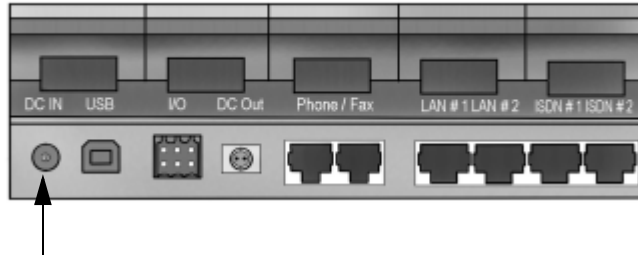
If you are connecting to a 100-240 V AC electrical outlet, use the AC/DC adapter included with your EXPLORER 700.

Alternatively, you may connect to 12/24 V DC in a car, or to a solar panel. Note that the battery must be inserted before you connect the EXPLORER 700 to a solar panel.

## Connecting to power

You can connect the DC input to power without the battery inserted. Note, however, that if you are connecting a solar panel, the battery must be inserted.

If the battery is inserted when you apply power to the EXPLORER 700, the battery is automatically recharged.



**Connecting to a 100-240 V AC electrical outlet:** Connect the AC/DC adapter to the DC Power input on the side of the EXPLORER 700. Then connect the power cable between the 100-240 V AC electrical outlet and the AC/DC adapter.

**Connecting to 12/24 V DC in a car:** Connect the charger cable between the DC Power input of the EXPLORER 700 and the cigarette lighter socket in the car. A suitable charger cable is available from Thrane & Thrane.

**Connecting to a solar panel:** The battery must be inserted in the EXPLORER 700. Connect your cable between the solar panel and the DC power input of the EXPLORER 700. The battery is automatically charged. For further information, see *Using a solar panel* on page 82.



## Powering the EXPLORER<sup>®</sup> 700

**Note** | Connect the antenna before you power up the system, otherwise the system will not be fully functional until the terminal has rebooted.

### Automatic power up

The default behavior of the EXPLORER 700 is to power up automatically when you connect the power cable. If you wish, you can change this power up mode, so that the EXPLORER 700 is only powered if the Power button is pressed.

For further information on power up mode, see *Setting the power up mode* on page 48 or *Power up behavior* on page 106.

### Switching the EXPLORER<sup>®</sup> 700 on/off

**To switch on** the EXPLORER 700, push the Power button next to the display and hold it down until the green Power indicator lights up. It normally takes one or two seconds.



**WARNING!** If the EXPLORER 700 is configured to automatically accept pointing, stay clear of the antenna front after switching on the EXPLORER 700! The antenna emits radio frequency energy, **not only** when a call or data session is in progress, but as soon as the antenna pointing is completed. Always keep a minimum distance of 1 m from the antenna front when the antenna is pointed. For information on automatic pointing, see *Pointing at power up* on page 95.

After switching on the EXPLORER 700 you may be prompted for a PIN (Personal Identification Number) if the use of PIN is not disabled, e.g. using the BGAN LaunchPad.



For information on the options after power on, see the next section.

**To switch off** the EXPLORER 700, push the Power button again and hold it until the display shows **SWITCHING OFF . . .**

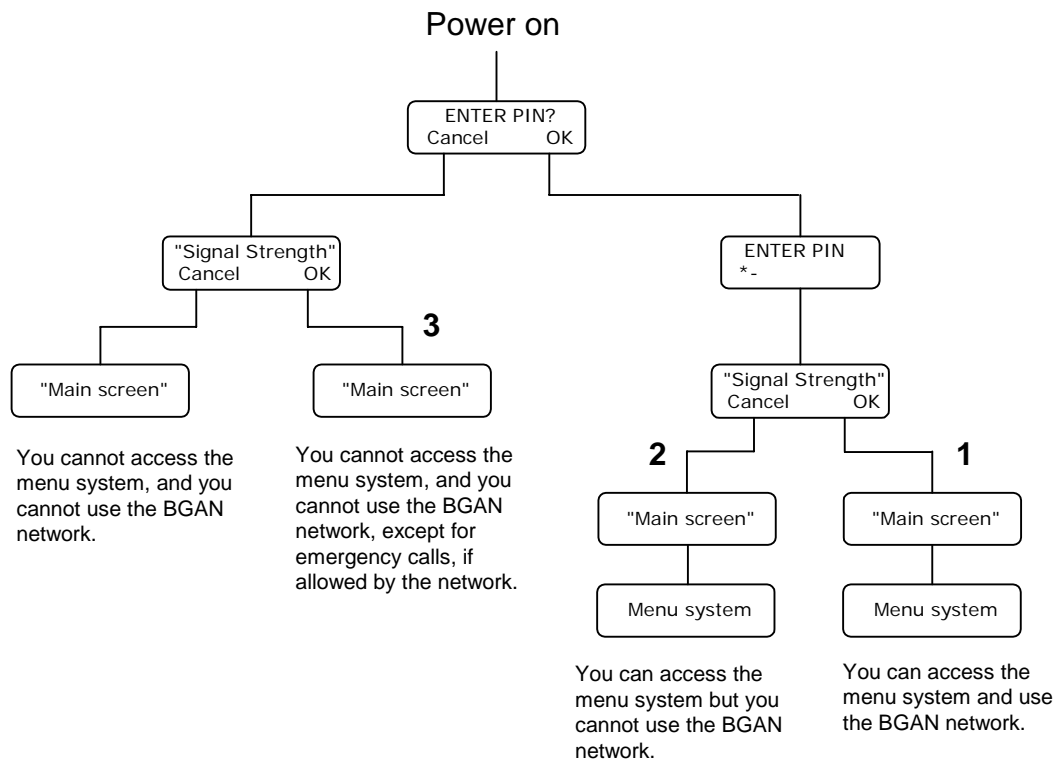
## Options for the start-up procedure

### Overview of the start-up options

You have different options for the start-up procedure. Each of these options are briefly described in this section.

For information on how to enter PIN and point the antenna, see the subsequent sections.

The following drawing shows the options available after power on.



#### Note

If the use of PIN is disabled, e.g. from the BGAN LaunchPad, the display sequence is the same as after successfully entering the PIN. This means that after power on, you will see the Signal strength screen.

The numbers on the drawing refer to the different start-up options described in the following sections.

### “Full” procedure (1)

In this mode you have full access to the EXPLORER 700, that is you can use the menu system and communicate on the BGAN network.

Do as follows:

1. Power on
2. Enter the PIN
3. Point the antenna.

The display will show `READY` when the menu system is not activated.

### “Off-line” procedure (2)

In this mode you can use the menu system, but are not able to communicate on the BGAN network. Use this mode if you want to set up the terminal without going on-air.

Do as follows:

1. Power on
2. Enter the PIN
3. Cancel pointing.

The display will show `POINT NOW?` when in the Main screen.

- Press **▲** or **▼** to enter the menu system.
- When you want to point the antenna, press **OK** from the Main screen.

### “Emergency” procedure (3)

In this mode you can only place emergency calls, and only if permitted by the network. You are not able to access the menu system nor to communicate on the BGAN network (apart from emergency calls), until you enter the PIN.

1. Power on
2. Cancel the PIN
3. Point the antenna.

The display will show `ENTER PIN?`

If you press **OK** you can enter the PIN. No other options are available from the keypad.

From the web interface you can view the Dashboard and, if you have an administrator password, upload software.

## Entering the SIM PIN

### Overview

You have to enter a PIN to use the EXPLORER 700, unless the use of PINs is disabled e.g. from the BGAN LaunchPad.

The first time you are asked for a PIN, you can choose to cancel (press **C**). If you cancel, you are asked again after pointing is completed. At that point you must enter the PIN to be able to continue.

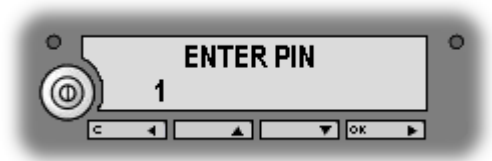
You can also enter the PIN using a phone or computer connected to the EXPLORER 700. For further information, see *Entering the SIM PIN using a phone* on page 62 or *Entering the SIM PIN in the web interface* on page 89.

### Entering the PIN

**Note** | If you want a different language in the display or in the web interface you may change the language after entering the PIN. For further information, see *Selecting the language* on page 48.

To enter the PIN using the display and keypad, do as follows:

1. When you are asked for a PIN, press **OK**.
2. Press **▲** or **▼** a number of times until the first digit is correct.
3. Press **OK** to go to the next digit.  
When OK is pressed, the previous digit is indicated by a \*.



To correct an entered digit, press **C** to go back and use the **▲** and **▼** buttons again.

4. After entering the last digit with **OK**, press **OK** again to apply the PIN.

**Note** | At this point the EXPLORER 700 may make a sound. This sound is used for pointing the antenna. To toggle the pointing sound on/off, press **▲** or **▼**.

For further information, see *Using the display and keypad* on page 37.

## Wrong PIN

You have 3 attempts to enter the PIN, before you are asked to enter the PUK (Pin Unblocking Key). The PUK is supplied with your SIM card. Enter the PUK followed by a new PIN of your own choice. The PIN must be from 4 to 8 digits long.

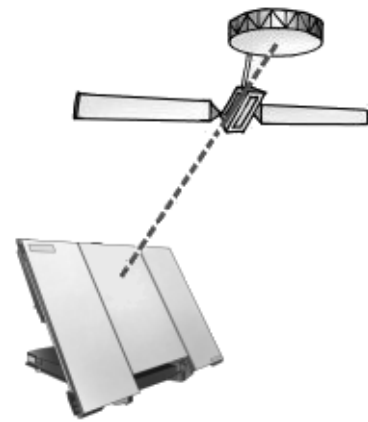
**Important** If you enter a wrong PUK 10 times, the SIM card will no longer be functional, and you have to contact your Airtime Provider for a new SIM card.

## Pointing the antenna

### The importance of pointing

In order to obtain the best possible signal at the lowest possible cost, it is important that the EXPLORER 700 antenna is pointed correctly towards the satellite.

The antenna must have a clear line of sight to the satellite without any obstacles blocking the signal, and the pointing direction of the antenna should be as accurate as possible.



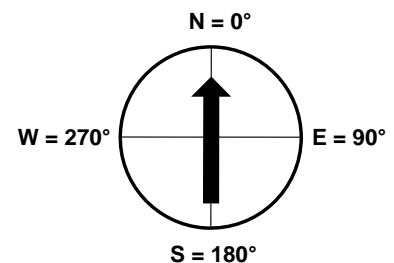
**Important** Incorrect pointing may result in poor quality of the signal, and in some cases retransmission may be necessary. This could mean you will be paying more than necessary for your transmission.

The next sections describe how to point the antenna for the best possible signal.

### Pointing data

If the position of the satellite in relation to the EXPLORER 700 is known, you can use the compass to roughly point the antenna in the right direction. If you know the **Azimuth** and the **Elevation**, you can use this data to adjust the antenna.

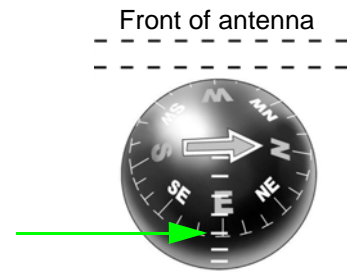
- The **Azimuth** is the horizontal rotation angle relative to North (moving clockwise).



- The **Elevation** is the vertical rotation angle relative to horizontal. This means that an Elevation of  $0^\circ$  corresponds to the EXPLORER 700 being in an upright position, pointing towards the horizon.

The compass has 7 lines dividing the Elevation scale into 6 spaces. The space between two lines corresponds to  $15^\circ$ .

The Elevation is measured where the lines meet. This compass shows an Elevation of  $30^\circ$  (2 spaces up from the first line) and an Azimuth of  $270^\circ$  (antenna pointing towards West).



**Note**

The above explanation assumes that the compass shows the exact orientation. Please take into consideration the possible deviation and variation that can occur, e.g. because of the geographical location or the presence of magnetic objects.

### Required signal strength

As a rule of thumb, the signal strength should typically be 45 dBHz or more for the EXPLORER 700 to be able to establish a call or data session. However, the required signal strength can vary depending on a number of factors, such as weather conditions and location.

### Do not block the antenna signal with your hands

**Important**

When pointing the antenna, **do not touch** the front of the antenna module. If you place your fingers on the antenna you will be blocking the signal, and the antenna will not work efficiently.

Hold the support bracket and the transport lock of the antenna while pointing.



### Obtaining a GPS fix

The EXPLORER 700 must acquire its own location from the GPS satellites before it can register on the BGAN network. This is called obtaining a GPS fix.

If the antenna is placed in an open location with a wide view to the sky, the EXPLORER 700 will probably obtain the GPS fix automatically while you are pointing towards the BGAN satellite. However, if part of the view to the sky is blocked, and/or the Elevation is very low, it may sometimes be difficult for the GPS antenna to “see” a sufficient number of GPS satellites. In such circumstances, try the following:

1. Place the antenna flat on an even surface, pointing straight upwards with a clear view to as much of the sky as possible.
2. When the GPS fix is obtained, you can start pointing towards the BGAN satellite. To see the GPS status, enter the display menu system by pressing ▲ or ▼ and select **PROPERTIES > GPS STATUS**. For further information, see *Viewing the GPS status* on page 49.

### Pointing the antenna towards the satellite

You can use the EXPLORER 700 with the antenna attached to the transceiver, or you can detach the antenna from the transceiver and use it as a separate antenna unit. For further information, see *Connecting the antenna* on page 21.

To help you obtain the best possible signal strength, the EXPLORER 700 uses a pointing sound from both antenna and transceiver to indicate the signal strength during pointing. The frequency of the tone increases with the signal strength.

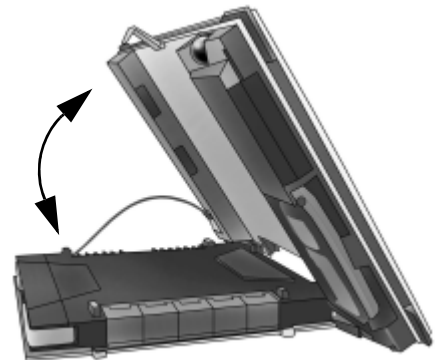
You can toggle the pointing sound on/off by pressing ▲ or ▼ on the keypad.

Do as follows to point the antenna:

1. While observing the built-in compass of the EXPLORER 700, rotate the antennaEXPLORER 700 left or right until it points in the correct horizontal direction, known as the **Azimuth**. Refer to *Pointing data* on page 27. Hold the transport lock and the support bracket while moving the antenna. Do not place your hands on the antenna.



2. Tilt the antennaEXPLORER 700 slowly up or down until it points in the correct vertical direction, known as the **Elevation**. Hold the transport lock and the support bracket while moving the antenna. Do not place your hands on the antenna.



3. After passing the PIN screen, the display shows the current satellite signal strength. Use this information to fine-adjust the antenna position as shown in step 1 and 2.

**Remember not to touch the antenna part!**

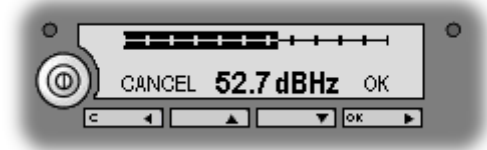


**Important**

When fine-adjusting the antenna, the display may take a while to update the signal strength. Wait a second or two after each move to make sure the display is updated.

If the right most part of the signal strength bar is grey, it indicates that the level has previously been higher than the current level.

4. When you have the highest signal strength you can obtain, press **OK** on the keypad.



**WARNING!** After accepting the signal strength, keep the minimum safety distance of 1 m to the antenna. The antenna may radiate microwave power as soon as the signal strength is accepted.

The EXPLORER 700 now tries to establish a connection to the BGAN network.

The display shows the progress as follows:

- **SEARCHING:**

The EXPLORER 700 searches for the network operator. Note that the search procedure can be very short, so you may not see this text.

- **REGISTERING:**

The EXPLORER 700 is registering itself on the network.

If the GPS position has not yet been acquired at this point, the display may show **NO GPS**. For further information, see the *Troubleshooting Guide* on page 160.

- **READY or DATA:**

**READY** means the EXPLORER 700 is registered on the network and is ready to go online. If you have already connected a computer, the display shows **DATA** instead of **READY**.

**Note**

The display may show a different text than **READY** or **DATA** if there is more important information to show. For example, the display will show **ENTER PIN?** if you pressed **C** at the first request for a PIN. See also the *Troubleshooting Guide* on page 160.

**CANCEL:** If you press **C** instead of **OK**, you exit the pointing menu and the display shows the Main screen with the message **POINT NOW?**

If the PIN has been accepted, you now have access to the menu system, but you will not be able to connect to the BGAN network, because the signal strength has not yet been accepted.

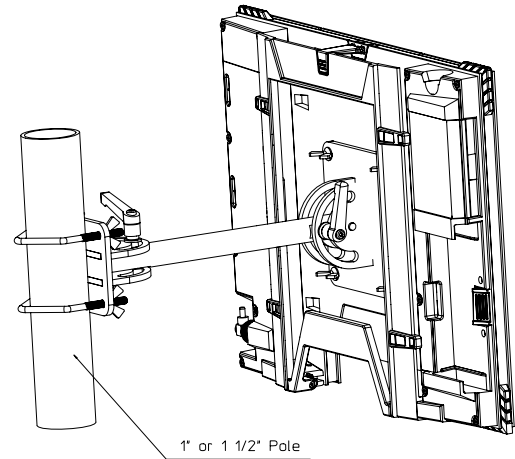


## Using a fixed EXPLORER<sup>®</sup> 700 antenna

You can keep the EXPLORER 700 antenna in a fixed position, using the Pole mount kit for EXPLORER 700. See *Options and accessories* on page 158 for information on type number.

Do as follows:

1. Mount the EXPLORER 700 antenna on a pole or a wall, for example using the Pole mount kit.
2. Connect the antenna cable between the antenna and the transceiver.
3. Start up the EXPLORER 700 and point the antenna as described in *Pointing the antenna* on page 27.
4. Accept the signal strength by pressing **OK** on the EXPLORER 700 keypad.
5. Fasten the EXPLORER 700 antenna in the pointed position.



You only have to point the antenna once, when you mount it. Using a computer connected to the EXPLORER 700, you can set up the EXPLORER 700 to skip pointing at power up. Refer to *Pointing at power up* on page 106.

## Making the first call

### Introduction

After connecting cables, entering the PIN and pointing the antenna, you are ready to make or receive the first call.

The following sections provide a short guide to making calls. For more detailed information, see *Making or receiving a phone call with the EXPLORER® 700* on page 63.

### Making a call from the EXPLORER® 700

Your phone must be connected to the relevant interface. For further information, see

- Standard phone: *Connecting an analog phone or a fax machine* on page 59
- ISDN phone: *Connecting an ISDN phone or a G4 fax machine* on page 60.
- Bluetooth handset: For first time connection see *Bluetooth pairing* on page 34; otherwise see *Connecting a Bluetooth handset* on page 61.

To make a call from a phone connected to the EXPLORER 700, dial

**00 <country code> <phone number>** followed by **#** or off-hook key (**#** on analog phones and ISDN phones, off-hook key on Bluetooth handsets).

**Example:** To call Thrane & Thrane in Denmark (+45 39558800) from an analog phone, dial **00 45 39558800 #**

### Making a call to the EXPLORER® 700

To make a call to a phone connected to the EXPLORER 700, dial

**+ <Mobile number>**

- **+** is the prefix used in front of the country code for international calls.
- **Mobile number:** The mobile number of the EXPLORER 700 you are calling. The first part of the mobile number is always 870, which is the “country code” for the BGAN system. For information on your mobile numbers, refer to your airtime subscription.

#### Note

There are two voice numbers, one for 3.1 kHz Audio and one for Standard Voice.

**Example:** If you are calling from Denmark and the mobile number for 3.1 kHz Audio is 870772112345 on your EXPLORER 700, and you want to make a call to the EXPLORER 700 using 3.1 kHz Audio, dial **00 870 772112345**.

### Making a call from one EXPLORER® 700 to another EXPLORER 700

To make a call from one EXPLORER 700 to another EXPLORER 700, dial **00 <Mobile number>**.

### Receiving a call

To be able to receive a call, the phone must be connected to the correct interface of the EXPLORER 700 (Phone/Fax, ISDN, WLAN or Bluetooth).

To be able to receive a call with a Bluetooth handset, the handset must be paired with the EXPLORER 700. For information on how to pair Bluetooth devices, see *Bluetooth pairing* on page 34.

**Note** | A connected phone will only ring if the call type is set correctly. For information on call types, see *Selecting the call type* on page 57.

You can see unanswered calls in the **CALLS** menu of the display and the web interface.

## Bluetooth pairing

### What is pairing?

If you want to use Bluetooth to communicate between two devices you must first go through a pairing procedure. In this pairing procedure the two Bluetooth enabled devices agree to communicate with one another. When this happens, the two devices exchange passkeys and join a pair. The pairing process only takes place the first time the two devices are connected. Once the two devices have established a pair, they automatically accept communication when one device recognizes the other device.

### Pairing devices in which you can enter a passkey

This section describes how to pair devices in which you can enter a passkey.

**Note** | The method for pairing devices may vary depending on your Bluetooth device. Consult your Bluetooth device documentation for information.

For information on pairing devices with a fixed passkey from your EXPLORER 700, see *Pairing Bluetooth devices from the web interface* on page 124.

The following procedure presupposes that the EXPLORER 700 is configured to be visible to other Bluetooth devices, and that the Bluetooth interface is turned on. For information on configuration, see *Configuring the Bluetooth interface* on page 122.

Do as follows to pair the devices:

1. Start up the EXPLORER 700.  
For further information, see *Getting started* on page 13.
2. Turn on Bluetooth on your Bluetooth device and place it close to the EXPLORER 700.
3. On your Bluetooth device, search for new devices and select the EXPLORER 700 when it is found.  
The default Bluetooth name of the EXPLORER 700 is **EXPLORER 700**.  
If there is more than one EXPLORER 700 in the list, you can use the MAC address to locate the correct one. To see the MAC address of your EXPLORER 700, enter the display menu system and select **PROPERTIES > TERMINAL > HARDWARE > MAC**.
4. On your Bluetooth device, enter the passkey of your EXPLORER 700.  
The default passkey is the serial number of your EXPLORER 700. To see the serial number, look at the label on the back of your EXPLORER 700, or enter the menu system and select **PROPERTIES > TERMINAL > HARDWARE > UNIT SER. NO.**

The new device is now paired and ready to communicate with the EXPLORER 700.

**Note** | Maximum 7 devices can be paired with the EXPLORER 700. If you have already paired 7 devices you have to unpair a device before you can pair a new one. For information on how to unpair devices, see *Unpairing devices* on page 126.

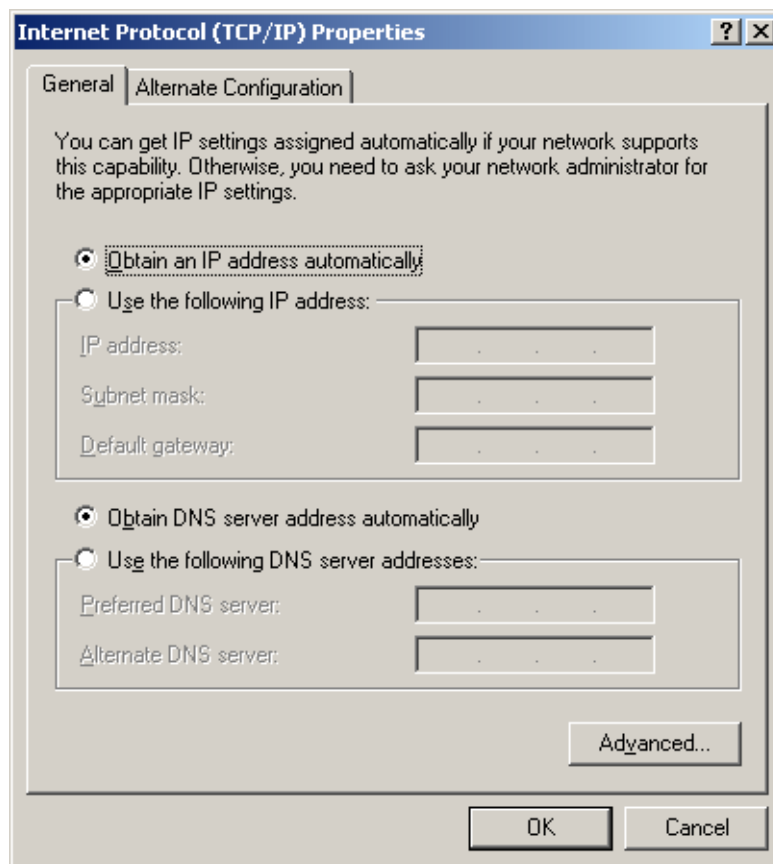
## Making the first data connection (LAN)

### Before connecting to the LAN interface

For the LAN (Local Area Network) interface to work without any further setup, the computer must be set up to obtain an IP address and a DNS server address automatically.

To check these settings on your computer, do as follows (For Windows® XP):

1. From the **Start** menu, select **Connect To > Show All Connections**.
2. Double-click **Local Area Connection** and click **Properties**.
3. Select **Internet Protocol (TCP/IP)** from the list and click **Properties**.  
Make sure both fields are set to obtain an address automatically.

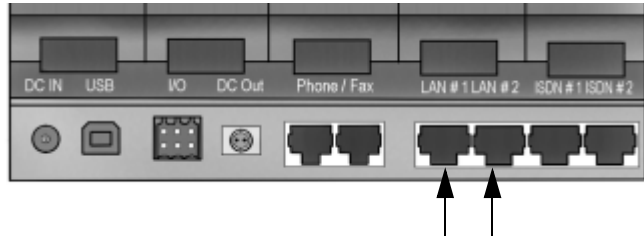


## Connecting to the LAN interface

Do as follows:

1. Connect the LAN cable to the network interface of your computer.  
A suitable cable is provided with your EXPLORER 700.

2. Connect the other end of the cable to one of the LAN connectors on the EXPLORER 700.



3. Start up and point the EXPLORER 700 as described earlier in this chapter.
4. Power on the computer.
5. When power up and pointing is completed, check the connection e.g. by starting your Internet Browser.  
You may have to disable the Proxy server settings in your browser. For further information, see *Browser settings* on page 86.

## Using the display and keypad

### In this chapter

This chapter describes how to use the built-in display menu system of the EXPLORER 700.

It contains an overview of the entire menu system followed by a description of each menu.

It also explains the symbols and messages that may appear in the display, and describes how to navigate using the keypad.

### Menu overview

#### Main menu

The items of the main menu are:

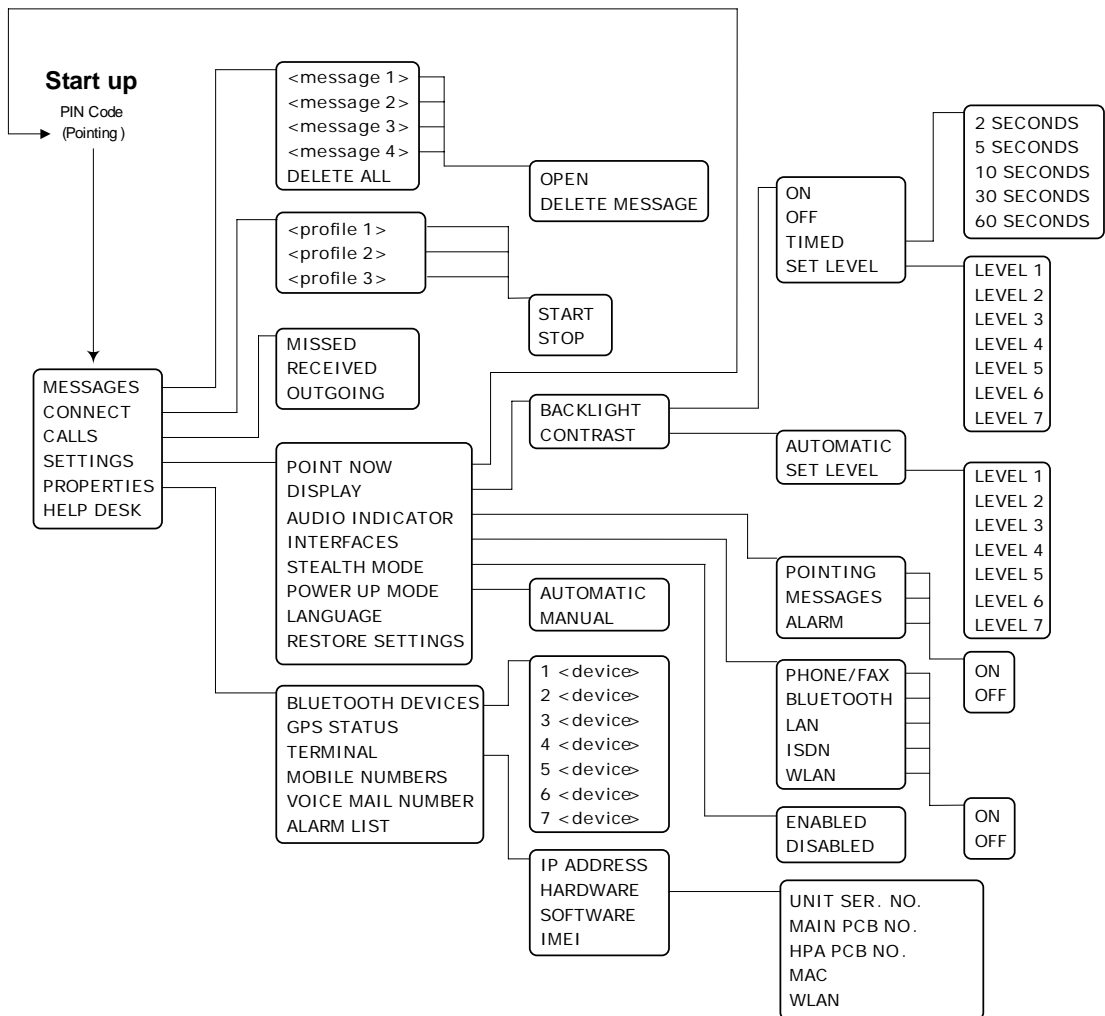
- **MESSAGES**  
shows all incoming SMS messages and allows you to open or delete each message or delete all messages.
- **CONNECT**  
shows a list of the profiles that are defined and selected for the LAN interface using the web interface. The **CONNECT** menu allows you to start and stop data sessions with the listed profiles.
- **CALLS**  
shows missed, received and outgoing calls and data sessions.
- **SETTINGS** allows you to
  - restart the pointing procedure,
  - set display backlight and contrast,
  - set audio indications on or off,
  - enable or disable each interface,
  - enable or disable stealth mode (a terminal mode where lights and sound are off),
  - set the power up mode,
  - set the language used in the display and the web interface, and
  - restore settings.
- **PROPERTIES** shows:
  - known and accepted Bluetooth devices,
  - GPS status,
  - terminal information (IP address, hardware and software numbers, IMEI number),
  - mobile numbers
  - Voice mail number, and
  - a list of active alarms.

- **HELP DESK**  
shows the phone number to the Airtime Provider, if available.

For information on how to navigate in the menu system, see *Navigating the display and keypad* on page 41.

**Menu drawing**

The below drawing shows an overview of the menus in the display menu system of the EXPLORER 700.



The next section shows an overview of the start-up sequence before entering the menu system. The menus are further described in the following sections of this chapter.



## Display during start-up

### Start-up sequence

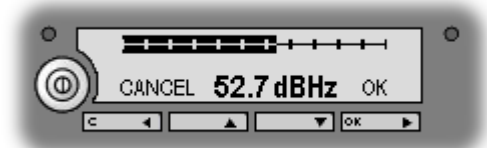
There are different options for the start-up procedure. The complete startup procedure is described in Chapter 2, *Getting started*.

This section only describes the behavior of the display during normal startup.

After power on you are asked for a PIN.



When you press OK and enter PIN, the signal strength screen appears.



When you have pointed the antenna and pressed OK to accept the signal strength, the display shows the progress in the Main screen as follows:

- **SEARCHING:** The EXPLORER 700 is searching for the network operator.
- **REGISTERING:** The EXPLORER 700 is registering itself on the BGAN network. If the GPS position has not yet been acquired at this point, the display will show **NO GPS**. For further information, see the *Troubleshooting Guide* on page 160.
- **READY:** The EXPLORER 700 is registered on the network and is ready to go online. If a computer is already connected, the display will show **DATA** instead of **READY**.

### Main screen

The Main screen is shown after passing the PIN and pointing screens, and anytime you leave the menu system.













The Main screen shows the most important status of the EXPLORER 700 such as battery status, signal strength, and general status.

The Main screen also shows icons for any interfaces that are turned on. In this example, the interfaces Phone/Fax, Bluetooth, USB and LAN are turned on.



## Display symbols

Apart from the menu text, the display can show various symbols. Below is a list of the possible symbols with an explanation to each symbol.

Symbol	Explanation
	The battery charge level. When the level is too low (below 10%) the icon flashes. Recharge the battery as soon as possible. If no battery is inserted, the symbol is not shown in the display.
	The battery is charging.
	The signal strength. Minimum two bars are normally required to be able to make a Standard Voice call.
	Phone/Fax interface is on.
	Bluetooth interface is on.
	LAN interface is on.
	USB interface is on.
	Unread message (shown next to the message in the message list)
	Read messages (shown next to the message in the message list)
	ISDN interface is on.
	WLAN interface is on.
	The current connection on the BGAN network is not ciphered. Do not transmit data that requires ciphering.

## Navigating the display and keypad

### Navigating with the keypad

The PIN must be entered before you can access the menu system.

**Note** In low temperatures the display may respond slowly when a key is pressed. At temperatures close to -25°C/-13°F the display may even turn black for a moment, e.g. when you are scrolling through a menu. After 1-2 seconds with no keypad activity the display will be readable again.



- **To access the menu system from the Main screen**, press ▲ or ▼.
- **To move up and down in the current menu**, press ▲ or ▼.
- **To select the current menu item or setting**, press **OK**.
- **To escape the current menu/setting** and return to the previous level, press **C**.
- **To see the hidden part of long text strings**, press ►.
- **To move backwards in the menu system, or in long text strings**, press ◀.
- **To adjust settings**, press ▲ and ▼.

### Short-cuts

The following short-cuts are available in the menu system:

- **To exit the menu system**, press and hold **C** for one second. The display returns to the Main screen.
- **To activate/deactivate Stealth mode**, Press **C+OK**. When stealth mode is activated, the display shows **STEALTH ACTIVATED** for a moment; then all lights and sounds are turned off.

**Note** For Stealth mode to be available, it must be enabled in the EXPLORER 700. Refer to *Enabling or disabling stealth mode* on page 47.

- **To turn Pointing sound on/off**, Press ▲ or ▼ from the pointing screen.

This action only applies to the current pointing session. To turn the sound on or off for all pointing sessions, select

**SETTINGS > AUDIO INDICATORS > POINTING** and select **ON** or **OFF**.

## Display text

When you have not entered the menu system, the Main screen shows the currently most important information. Refer to *Dynamic information in the display* on page 52.

CANCEL in the left side of the display means: Press **C** to cancel the current operation.

OK in the right side of the display means: Press **OK** to accept the current operation.

## The menus

The following sections describe each of the menus in the menu system.

All available settings and status items are explained.

To access the menu system from the main screen, press ▲ or ▼.





## Messages menu

### Viewing the list of messages

To see the list of SMS messages, enter the menu system and select **MESSAGES**.

Each message is listed with the name (if known) or the number of the sender.

An unopened folder  indicates an unread message and an opened folder  indicates a read message.

Use **▲** and **▼** to scroll through the list.

For information on how new messages are presented, see *Received messages* on page 52.

### Opening or deleting received SMS messages

To delete all messages, go to the bottom of the list of messages and select **DELETE ALL**.

To open or delete one message, do as follows:

1. In the **MESSAGES** list, select the message you want to open or delete and press **OK**.
2. Then select one of the following:
  - **OPEN**: to open the selected message.  
The display shows the time and the message contents. Use **▲** and **▼** to scroll through the message and details.
  - **DELETE**: to delete the selected message.

## Connect menu

### Streaming profiles

Using the web interface you can define a number of profiles for data transmission. The Streaming profiles defined and selected for the LAN interface appear in the **CONNECT** menu, and can be started and stopped using the keypad.

Streaming profiles are profiles where the Traffic Class is set to Streaming in the Profiles page of the web interface.

For information on profiles, see *Using profiles* on page 146.

For information on Streaming, see *Standard or Streaming data* on page 71.

### Starting or stopping a Streaming session

To start or stop a Streaming session using the LAN interface, do as follows:

1. Select **CONNECT**.
2. Select the Streaming profile you want to start or stop.  
The list only shows profiles that have been selected for the LAN interface.  
For information on how to set up the LAN interface, see *Configuring the LAN interface* on page 114.
3. Select **START** or **STOP** and confirm.

**Important**

When running a Streaming session you are charged for the time you are connected. An active Streaming session will stay active until you stop it.

You can also start/stop Streaming sessions using the web interface. For further information, see *Setting up and activating a Streaming connection* on page 71.

### Starting or stopping a Standard data session

When the primary profile selected for the LAN interface uses Standard data, the default behavior of the EXPLORER 700 is to start Standard data automatically as soon as the EXPLORER 700 is online and the LAN cable is connected.

To change this behavior you can disable automatic activation of the primary profile, using the web interface. See *Configuring the LAN interface* on page 114.

When automatic activation is disabled, you can manually start/stop a Standard data session using the web interface or the display menu system.

To start or stop a Standard data session using the display menus, do as follows:

1. Select **CONNECT**.
2. Select the Standard profile you want to start or stop.  
The list only shows profiles that have been selected for the LAN interface.

For information on how to set up the LAN interface, see *Configuring the LAN interface* on page 114.

3. Select **START** or **STOP** and confirm.

## Calls menu

To see a list of calls and data sessions, do as follows:

1. Select **CALLS**.
2. Select one of the following:
  - **MISSED**: to see a list of incoming calls that were not answered.
  - **RECEIVED**: to see a list of incoming calls that were answered.
  - **OUTGOING**: to see a list of outgoing calls or data sessions.

**Note** | Local calls are not registered.

3. Select a call from the list to see details such as time, date and phone number.  
If there was an error, the call log shows the cause of the error when possible.

When there are more than 100 calls in the list, the oldest calls are automatically deleted to make room for new calls.

If you need to preserve the call log, you can export it to a file using the built-in web interface. For further information, see *Exporting the call log* on page 98.

## Settings menu

### Point now

**Important** | This function will interrupt any ongoing calls or sessions!

If you need to repoint the antenna, select **SETTINGS > POINT NOW**.

This will bring you to the Pointing screen, described in *Pointing the antenna towards the satellite* on page 29.

### Setting the display backlight

To adjust the backlight of the display, do as follows:

1. Select **SETTINGS > DISPLAY > BACKLIGHT**.
2. Select one of the following:
  - **ON**: to have constant backlight.
  - **OFF**: to turn the backlight off.
  - **TIMED**: to set how long the light should be on after the last key was pressed (2, 5, 10, 30 or 60 seconds).
  - **SET LEVEL**: to set the level of backlight (1 to 7).

### Setting the display contrast

To adjust the contrast of the display, do as follows:

1. Select **SETTINGS > DISPLAY > CONTRAST**.
2. Select one of the following:
  - **AUTOMATIC**: to let the EXPLORER 700 automatically adjust the contrast according to the temperature.  
The contrast of the display is affected by the temperature. The EXPLORER 700 can automatically adjust the contrast so that the display looks the same, regardless of changes in the temperature.
  - **SET LEVEL**: to set the contrast manually (1 to 7).

### Turning audio indicators on or off

The EXPLORER 700 has audio indicators to indicate an event. You can turn each of these audio indicators on or off.

1. Select **SETTINGS > AUDIO INDICATOR**.



2. Select one of the following:
  - **POINTING**: a sound to indicate the signal level during pointing.
  - **MESSAGES**: a sound to indicate that a message has arrived.
  - **ALARM**: a sound to indicate that an alarm is present.
3. Select **ON** or **OFF** to enable or disable the selected audio indicator.

### Enabling or disabling interfaces

Each interface (except USB) can be disabled to minimize the power consumption. Specially if the EXPLORER 700 is battery powered, it is a good idea to disable unused interfaces.

**Note** | Your user permissions may not allow access to all interfaces. Blocked interfaces are greyed out.

Do as follows:

1. Select **SETTINGS > INTERFACES**.
2. Select one of the following interfaces:
  - **PHONE/FAX**
  - **BLUETOOTH**
  - **LAN**
  - **ISDN**
  - **WLAN**
3. Select **ON** or **OFF** to enable or disable the selected interface.

### Enabling or disabling stealth mode

You can use stealth mode when you do not want the terminal to be seen nor heard by others. When the EXPLORER 700 is in stealth mode, all lights and sounds are turned off. You can still use the EXPLORER 700, and the display text is readable.

To enable or disable the use of stealth mode, do as follows:

1. Select **SETTINGS > STEALTH MODE**.
2. Select one of the following:
  - **ENABLED**
  - **DISABLED**

**Note** | Enabling stealth mode will **not put the EXPLORER 700 into stealth mode**, it only enables the use of stealth mode.

- To activate Stealth mode (after enabling Stealth mode), press **C+OK** on the keypad.
- To deactivate Stealth mode, press **C+OK** again.

### Setting the power up mode

By default, the EXPLORER 700 starts up automatically when you apply external power. You can change this mode, so that you have to press the Power button to switch on the EXPLORER 700.

To set the power up mode, do as follows:

1. Select **SETTINGS > POWER UP MODE**.
2. Select one of the following:
  - **AUTOMATIC**: to have the EXPLORER 700 power on automatically when external power is applied.
  - **MANUAL**: to have the EXPLORER 700 power on only when the Power button is pressed.

### Selecting the language

You can change the language used in the display and in the web interface for the EXPLORER 700. Do as follows:

1. Select **SETTINGS > LANGUAGE**.
2. Select the language you want to use. The following languages are available:
  - English
  - French
  - German
  - Russian
  - Spanish

The web interface and the display menus will now use the selected language.

### Restoring settings

You can restore default values for the settings in the **SETTINGS** menu, except the contrast setting. The following settings are restored:

- Backlight
- Audio indicators
- Stealth mode
- Interfaces enabled
- Power up mode

Note that all other settings are left unchanged.

To restore settings, do as follows:

1. Select **SETTINGS > RESTORE SETTINGS**.
2. Press **OK**.

## Properties menu

### Viewing known Bluetooth devices

You can view a list of the Bluetooth devices that are paired with the EXPLORER 700. For further information on pairing Bluetooth devices, see *Pairing Bluetooth devices from the web interface* on page 124.

The devices are listed with their Bluetooth names and all devices in this list can communicate with the EXPLORER 700 without any further setup.

To view the list of known Bluetooth devices, select **PROPERTIES > BLUETOOTH DEVICES**.

To see details on a specific Bluetooth device, select the device in the list and press **OK**.

### Viewing the GPS status

The display can show the current GPS status.

To view the GPS status, select **PROPERTIES > GPS STATUS**.

The GPS status screen can vary, depending on the situation.

- If the GPS position has not yet been obtained, the display shows the status of each of the 16 GPS satellites as follows:
- If the GPS position is known, the display shows the GPS position, and whether it is a 2-dimensional or 3-dimensional position (2D fix or 3D fix).
- In some cases, the BGAN network does not allow the position to be displayed to the user. If this is the case, the display may just show **GPS ACQUIRED**. This means that the GPS position is received, but the user is not allowed to see it. This also applies if the EXPLORER 700 is not yet registered on the BGAN network, but the GPS position is received.



## Viewing terminal properties

You can view properties of the EXPLORER 700 such as IP address, hardware numbers, software version and IMEI number. When contacting Support, please include these numbers.

To view the properties, do as follows:

1. Select **PROPERTIES > TERMINAL**.
2. Select one of the following options:
  - **IP ADDRESS** to see the IP address of the EXPLORER 700. This IP address is used to access the web interface in the EXPLORER 700. The web interface is a built-in web server used to configure and set up the EXPLORER 700. For further information on the web interface, see *Using the web interface* on page 85.
  - **HARDWARE** to see the serial number, PCB numbers and MAC addresses of your EXPLORER 700 (**MAC** to see the MAC address used for the LAN and Bluetooth interface and **WLAN** to see the MAC address used for the WLAN interface).
  - **SOFTWARE** to see the software version of the EXPLORER 700.
  - **IMEI** to see the IMEI number (International Mobile Equipment Identity) of the EXPLORER 700. This is the unique mobile equipment number that identifies your EXPLORER 700. The IMEI number is also printed on the serial number label at the back of the terminal.

## Viewing mobile numbers

If available, the **MOBILE NUMBERS** menu lists the mobile numbers to use when calling the EXPLORER 700.

**Note** | There are two voice numbers, one for 3.1 kHz Audio and one for Standard Voice. For further information, see *Selecting the call type* on page 57.

To view the mobile numbers, select **PROPERTIES > MOBILE NUMBERS**.

If the mobile numbers are not available, the display reads  
NO INFORMATION AVAILABLE.

## Viewing the voice mail number

The EXPLORER 700 informs you of any incoming voice mail through the display and through the web interface.

The voice mail number is the number you call to hear your incoming voice mail. If available on the SIM card, the **PROPERTIES** menu shows the voice mail number.

To view the voice mail number, select  
**PROPERTIES > VOICE MAIL NUMBER**.

If the voice mail number is not available, the display reads  
NO INFORMATION AVAILABLE.

## Alarm list

If an error is present in the system, an alarm will be issued. For information on how new alarms are presented, see *Display of alarm messages* on page 168.

To view the list of currently active alarms, enter the menu system and select **PROPERTIES > ALARM LIST**.

The alarms are listed with their ID numbers.

To see the name and time stamp of the alarm, press **OK**.

Use **▲** and **▼** to scroll through the name, ID and time stamp. If the text is too long, press **OK (▶)** to scroll through the rest of the text.

## Help desk

If you need support **regarding airtime**, you may call the Airtime Provider help desk.

To see the help desk number, select **HELP DESK** in the menu system.

The display will show the name and phone number of your Airtime Provider, if it is available on the SIM card.

If the information is not available on the SIM card, you can use the built-in web interface of the EXPLORER 700 to store the help desk name and number. For further information, see *Accessing the Help desk* on page 153.

## Dynamic information in the display

### Types of display information

Text in the display can be:

- Information of received messages.
- Alarms.
- Status information.
- Request for action.

### Received messages

When messages arrive in your EXPLORER 700, the display indicates the number of new messages that have arrived, and the red message indicator is flashing.



The messages can be SMS messages or notification of voice mail.

- **If the message is an SMS message**, press **OK** to view the message.
- **If the message is information of voice mail**, press **OK** or **C** to go back to the Main screen. The red message indicator will keep flashing until you have collected your voice mail.
- To hear your voice mail, call the voice mail service number provided by your Airtime Provider.
- To see the voice mail service number, select **PROPERTIES > VOICE MAIL NUMBER**

### Alarms

When alarms are issued in your EXPLORER 700, the display indicates the number of new alarms, and the red message indicator is flashing.



To view currently active alarms, press **OK**. To ignore and continue, press **C**.

See also:

- *Display of alarm messages* on page 168.
- *Alarm log* on page 176.
- *List of alarms* on page 169.

## Status information

Status information in the display is normally shown in the lower line of the Main screen.

Examples of status information are: **READY**, **REGISTERING** and **DATA**.

## Displaying ongoing transmission

The display shows information on type and duration or MB transferred for calls and data sessions in progress.

- A 64 K Streaming session is displayed as **64K** followed by the duration,
- a Circuit Switched call is displayed as **CALL** followed by the duration and
- Standard (Background) data is displayed as **DATA** followed by MB.

Two lines are available in the display. If more than two calls or sessions are active, display of Streaming data has the highest priority, then Circuit Switched calls and then Standard data. Within these categories, the oldest calls/data sessions have the highest priority.



**WARNING!** When the EXPLORER 700 is pointed, stay clear of the antenna front! The antenna emits radio frequency energy, **not only** when a call or data session is in progress, but as soon as the antenna pointing is completed. Always keep a minimum distance of 1 m from the antenna front when the antenna is pointed.

## Request for action

A request for action, if it is not an alarm, is shown in the lower line of the display. This could be e.g. **POINT NOW?** or **INSERT SIM**.

When the text is a question, press **OK** to accept.

## Using the interfaces

### In this chapter

This chapter describes how to connect cables and the necessary setup to establish a connection to the following interfaces:

- Phone/Fax
- ISDN
- LAN
- WLAN
- USB
- Bluetooth

It also describes how to connect to the I/O interface and how to connect a solar panel for charging the EXPLORER 700 battery.

This chapter does not describe advanced configuration of interfaces. For this type of information, refer to the “Configuring...” sections for the data interfaces in Chapter 5, *Using the web interface*.

### General

#### Tools for setup and use

##### Overview

The display and keypad can be used for simple setup, but for enhanced use and for configuration of interfaces, you need to connect a computer (PC, laptop or similar).

With a computer and a browser, you can use the built-in **web interface** of the EXPLORER 700 or the **BGAN LaunchPad**.

#### The web interface in the EXPLORER® 700

The web interface is a built-in web server for setting up and controlling the EXPLORER 700, using a connected computer with a browser. No installation of software is required, unless the computer is connected via USB. For information on how to use the web interface, see *Using the web interface* on page 85.



## The BGAN LaunchPad

BGAN LaunchPad from Inmarsat is a computer application for setting up terminals in the BGAN system. A CD-ROM with the LaunchPad is included in the delivery. For information on how to use the LaunchPad, refer to the user guide provided with the LaunchPad.

## Services and interfaces

A variety of services can be accessed from different interfaces on the EXPLORER 700.

The following table shows the possible combinations of services and interfaces, and which types of equipment can be used.

Service		Interface on the EXPLORER 700						
		Phone/ Fax	Bluetooth	USB	LAN	WLAN	ISDN	Display/ Keypad
Circuit Switched Connection	3.1 kHz Audio	Analog telephone	Bluetooth handset				ISDN telephone	
		G3 Fax machine						
	Standard Voice	Analog telephone	Bluetooth handset				ISDN telephone	
	Data	Computer with analog modem	Computer	Computer (56 kbps/ 64 kbps)			G4 fax machine or computer with ISDN modem	
Packet Switched Connection	Data multi-user		Computer		Computer	Computer		
	Data single-user		Computer	Computer	Computer	Computer		
SMS			Computer with web interface	Computer with web interface	Computer with web interface	Computer with web interface	Computer with ISDN modem and web interface	View only

## Enabling or disabling an interface

### Overview

By default, all interfaces are enabled. However, you can disable the LAN interface, the ISDN interface, the WLAN interface, the Bluetooth interface and/or the Phone/Fax interface in order to minimize the power consumption.

**Note** | The USB interface cannot be disabled; it is always enabled.

### Using display and keypad

To enable or disable an interface using the **display and keypad**, do as follows:

1. Enter the menu system.  
From the Main screen, press ▲ or ▼.
2. Select **SETTINGS > INTERFACES**.
3. Select the interface you want to enable or disable.
4. Select **ON** to enable or **OFF** to disable.

### Using web interface

To enable or disable an interface using the **web interface**, do as follows:

1. Connect a computer. Refer to the relevant section in this chapter, e.g. *Connecting to the LAN interface* on page 73.
2. Access the web interface.  
For further information, see *The web interface* on page 85.
3. From the left navigation pane in the web interface, select **SETTINGS** and select the interface you want to enable or disable.
4. Select **Enabled** or **Disabled** at the top of the page.

## Using a phone or fax machine

### Selecting the call type

#### Definition

The phone connection can be either a **Standard Voice** connection or a **3.1 kHz Audio** connection. In the web interface you can set up which type of connection to use by default when you make or receive a call from the Phone/Fax, ISDN or Bluetooth interface.

When connecting a fax or a modem you must use 3.1 kHz Audio.

**Example:** If you always have a fax connected to the same Phone/Fax interface you can set this interface to 3.1 kHz Audio only. This will mean that if an incoming Standard Voice call is received, this Phone/Fax interface will not ring.

### Selecting the default outgoing call type

To select the default call type for outgoing calls, first connect a computer. Refer to the relevant section in this chapter, e.g. *Connecting to the LAN interface* on page 73.

For information on how to set call types for ISDN, see *Configuring the ISDN interface* on page 128.

For the Phone/Fax or Bluetooth interface, do as follows:

1. Access the web interface. See *The web interface* on page 85.
2. From the left navigation pane, select **SETTINGS** and select the relevant **Phone/Fax** or **Bluetooth** interface.
3. At **Outgoing calls**, select **Standard** or **3.1 kHz Audio**.  
Up to 7 Bluetooth devices can be paired with the EXPLORER 700. Remember to set the call type for each paired handset in the **BLUETOOTH VOICE DEVICES** list.

### Overriding the default outgoing call type

To override the default setting for a specific outgoing call, do as follows:

- To use **Standard Voice** for the call, dial **1\*** before the number.
- To use **3.1 kHz Audio** for the call, dial **2\*** before the number.

**Example:** To make a call to Thrane & Thrane in Denmark (+45 39558800), forcing the connection to use Standard Voice, dial **1\* 0045 39558800** followed by **#** if calling from an analog or ISDN phone, or off-hook key if calling from a Bluetooth handset.

**Note** | This will not change the default call type, only the type used for the ongoing call.

### Phone numbers for incoming 3.1 kHz Audio and Standard Voice

3.1 kHz Audio and Standard Voice have separate phone numbers. This way, a person calling a phone connected to the EXPLORER 700 can select whether to use 3.1 kHz Audio or Standard Voice, simply by using one of the two phone numbers.

**Note** The call type you are using must be selected in the web interface (refer to the next section).

For information on the mobile numbers, refer to your airtime subscription.

For information on how to make a call to the EXPLORER 700, see *Making a call to the EXPLORER® 700* on page 64.

### Selecting the incoming call type

To select which call types are accepted for an incoming call, first connect a computer. Refer to the relevant section in this chapter, e.g. *Connecting to the LAN interface* on page 73.

For information on how to set up the incoming call types for ISDN, see *Configuring the ISDN interface* on page 128.

For the Phone/Fax or Bluetooth interface, do as follows:

1. Access the web interface.  
For further information, see *The web interface* on page 85.
2. From the left navigation pane, select **SETTINGS** and select the relevant **Phone/Fax** or **Bluetooth** interface.
3. At **Incoming Calls**, check **Standard** or **3.1 kHz Audio** or both.  
If the call type used for a call to the EXPLORER 700 is not selected here, the connected phone will not ring.

**Note** For Bluetooth, remember to set the call type **for each handset** in the **BLUETOOTH VOICE DEVICES** list.

## Connecting an analog phone or a fax machine

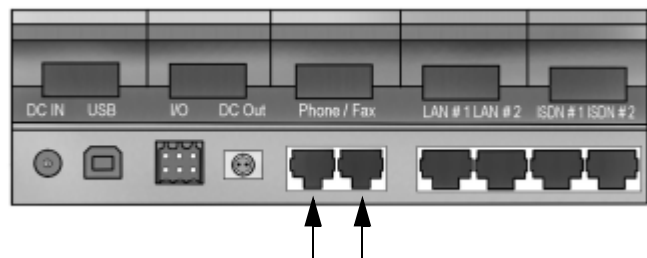
### Before connecting to the Phone/Fax interface

To connect a phone or a fax machine to one of the Phone/Fax connectors, you need an analog telephone cable with an RJ-11 connector. For specifications and pin-out, refer to *Phone/Fax interface, 2-port* on page 180.

### Connecting to the Phone/Fax interface

Do as follows:

1. Connect the cable to your phone or fax machine.
2. Connect the other end of the cable to one of the Phone/Fax connectors on the EXPLORER 700.



3. Power up the EXPLORER 700 and point the antenna as described in *Pointing the antenna* on page 27.
4. Check the connection by making a phone call or sending a fax. See *Making or receiving a phone call with the EXPLORER® 700* on page 63 or *Sending or receiving a fax message* on page 69.

If connection fails, check that the interface is enabled in the EXPLORER 700.

If the analog phone icon is not present in the display Main screen and in the Icon bar of the web interface, the interface is disabled.

See *Enabling or disabling an interface* on page 56.

If the interface is enabled, but connection fails, refer to the *Troubleshooting Guide* on page 162.

## Connecting an ISDN phone or a G4 fax machine

### Before connecting to the ISDN interface

To connect a phone or a fax machine to one of the ISDN connectors, you need an ISDN cable with an ISDN connector. For specifications and pin-out, refer to *ISDN interface, 2-port* on page 181.

#### Important

The ISDN interface on the EXPLORER 700 is powered by default. If your ISDN equipment is self-powered, remember to disable the 38 V power. For information on how to disable power on the ISDN interface, see *Configuring the ISDN interface* on page 128.

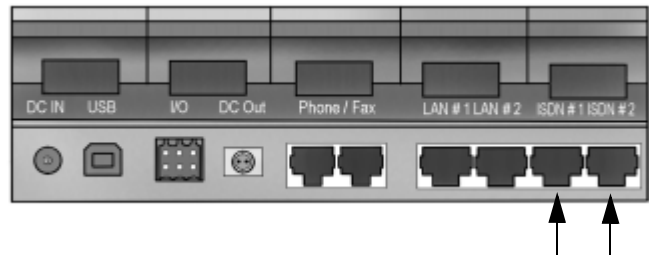
### Connecting to the ISDN interface

The ISDN interface supports connection of up to 8 devices per ISDN interface. However, if you are going to connect more than one device per interface, the devices must be self-powered. The ISDN interface can supply maximum 1 W.

The BGAN Core network presently only supports one 64 kbps ISDN channel per subscription.

Do as follows:

1. Connect the ISDN cable to your phone or fax machine.
2. Connect the other end of the cable to one of the ISDN connectors on the EXPLORER 700.



#### Important

The ISDN interface and the LAN interface use the same connector type. Be careful not to connect to the wrong interface.

3. Power up the EXPLORER 700 and point the antenna as described in *Pointing the antenna* on page 27.
4. Check the connection by making a phone call or sending a fax. See *Making or receiving a phone call with the EXPLORER® 700* on page 63 or *Sending or receiving a fax message* on page 69.

If connection fails, check that the interface is enabled in the EXPLORER 700.

If the ISDN icon is not present in the display Main screen and in the Dashboard in the web interface, the interface is disabled.

See *Enabling or disabling an interface* on page 56.

If the interface is enabled, but connection fails, refer to the *Troubleshooting Guide* on page 163.

## Connecting a Bluetooth handset

### Before connecting a Bluetooth handset

To use a Bluetooth handset with the EXPLORER 700, you first have to pair the two devices. For information on pairing devices, see *Bluetooth pairing* on page 34.

The Bluetooth handset must be placed within a maximum distance of 100 m from the EXPLORER 700. Note that this is the maximum distance in open air; the actual maximum distance may be shorter, depending on the environment. In an office environment, you should be able to establish a connection across the adjoining 2-3 rooms.

### Connecting a paired Bluetooth handset

**Note** | The Bluetooth and WLAN interfaces may interfere with each other if they are both active. For optimum performance, do not use Bluetooth and WLAN simultaneously, or use WLAN mode 802.11a (5 GHz) where it is allowed, e.g. in the USA.

This section does not describe configuration of the Bluetooth interface. For information on configuration, see *Configuring the Bluetooth interface* on page 122.

If the devices are already paired, do as follows to connect:

1. Power up the handset and the EXPLORER 700.
2. Place the handset close to the EXPLORER 700.
3. Turn on Bluetooth on your device.

The Bluetooth connection should now be established, and you are ready to make a call.

**Note** | Maximum 7 devices can be connected at the same time.

If connection fails, check that the interface is enabled in the EXPLORER 700.

If the Bluetooth icon is not present in the display Main screen and in the Dashboard in the web interface, the interface is disabled.

See *Enabling or disabling an interface* on page 56.

If the interface is enabled, but connection fails, refer to the *Troubleshooting Guide* on page 164.

For information on how to make and receive calls, see *Making or receiving a phone call with the EXPLORER® 700* on page 63.

## Entering the SIM PIN using a phone

### Entering the PIN

If you have a phone connected to the EXPLORER 700, you can use it to enter the PIN at start up, as an alternative to the keypad.

Do as follows:

Dial the PIN the same way you would dial a phone number:

- **For an analog or ISDN phone:**  
Pick up the phone. When the EXPLORER 700 is waiting for a PIN, you will hear 2 beeps - pause - 2 beeps - etc.  
Dial <PIN> followed by #.
- **For a Bluetooth handset:**  
Dial <PIN> and press off hook key.

When you hear a “busy” tone or a dialing tone, the PIN has been accepted and you can hang up or dial a number.

### Wrong PIN

If, instead of the busy tone or dialing tone, you continue to hear 2 beeps - pause - 2 beeps - etc., it means the PIN was wrong. Check that you have the correct PIN and try again.

If a wrong PIN has been entered three times, you will hear 3 beeps - pause - 3 beeps - etc. This means you have to enter the PUK (PIN Unblocking Key) provided with your SIM card. After entering the PUK, you must enter a new PIN of your own choice (4 to 8 digits long).

Dial the following:

<PUK> \* <New PIN> \* <New PIN> followed by # or off-hook key.

**Example:** If the PUK is 87654321 and the new PIN is 1234, dial

**87654321 \* 1234 \* 1234** followed by # or off-hook key.

If you enter 10 wrong PUKs, the SIM card will no longer be functional. Contact your Airtime Provider for a new SIM card.



## Making or receiving a phone call with the EXPLORER® 700

### Analog phone, ISDN phone or Bluetooth handset

First connect your phone to the relevant interface. For further information, see *Connecting an analog phone or a fax machine* on page 59, *Connecting an ISDN phone or a G4 fax machine* on page 60, or, for the Bluetooth handset, *Pairing devices in which you can enter a passkey* on page 34.

#### Note

There are different methods for activating a call, depending on the type of phone:

- **Analog phone or ISDN phone:** Dial number, then press #.
- **Bluetooth handset:** Dial number, then press the off-hook key.

### Making a call

You have two methods for making a call:

- **Short Dial.** If the number is in the phone book of the EXPLORER 700, you can use the Short Dial number, which is found in the first column of the phone book in the web interface. See *Short dial* on page 95.

Simply dial **00 <Short Dial>** followed by **#** or off-hook key.

**Example:** To call entry number 4 in the phone book, dial **004** followed by **#** or off-hook key.

- **Manual Dial.** To make a call, dial **00 <country code> <phone number>** followed by **#** or off-hook key.

**Example:** To call Thrane & Thrane in Denmark (+45 39558800) from an analog or ISDN phone, dial **00 45 39558800 #**

If there was an error establishing the connection, the web interface and the display of the EXPLORER 700 show an error message. Refer to the *Troubleshooting Guide* on page 162.

### Receiving a call

To be able to receive a call, the phone must be connected to the relevant interface on the EXPLORER 700.

By default, all devices connected to the Phone/Fax interface, the ISDN interface or the Bluetooth interface will ring when one of the mobile numbers is called. Note, however, that this depends on the call type settings. Refer to *Selecting the incoming call type* on page 58.

Information of missed calls is stored in the call log of the EXPLORER 700. You can view the call log with the display menu system or the web interface. See *Calls menu* on page 45 or *Viewing the lists of calls* on page 98.

## Making a call to the EXPLORER<sup>®</sup> 700

To make a call to a phone connected to the EXPLORER 700, dial

+ <**Mobile number**>

- + is the prefix used in front of the country code for international calls. This is **00** when calling from countries in Europe and from many other countries.
- **Mobile number.** The first part of the mobile number is always 870, which is the “country code” for the BGAN system. For information on the mobile numbers, refer to your airtime subscription.

**Note** 

There are two Voice numbers, one for 3.1 kHz Audio and one for Standard Voice.

## Local numbers and special functions

### Overview

There are a number of local numbers and dialing functions available in the EXPLORER 700.

The following list shows the allocated special-purpose numbers for the EXPLORER 700.

Number	Function
<b>0 *</b> followed by <b>#</b> or off-hook key	Redial last called number on this interface.
<b>00 *</b> followed by <b>#</b> or off-hook key	Redial last answered call on this interface. Note: If the last answered number is an unlisted number, you will not be allowed to dial back.
<b>00</b> followed by one of the numbers <b>1-199</b> and <b>#</b> or off-hook key	Short dial phone numbers in phone book.
<b>0200</b> followed by <b>#</b> or off-hook key	Local call broadcast to all Bluetooth handsets. All connected Bluetooth handsets will ring. The first handset that answers, takes the call.
<b>0</b> followed by one of the numbers <b>201-207</b> and <b>#</b>	Local call to Bluetooth handset.
<b>0300</b> followed by <b>#</b> or off-hook key	Local call broadcast to both analog phones.
<b>0</b> followed by one of the numbers <b>301-302</b> and <b>#</b> or off-hook key	Local call to analog phone.
<b>0400</b> followed by <b>#</b> or off-hook key	Local call broadcast to all ISDN phones.
<b>0</b> followed by one of the numbers <b>401-408</b> and <b>#</b> or off-hook key	Local call to ISDN phone on port 1.
<b>0</b> followed by one of the numbers <b>411-418</b> and <b>#</b> or off-hook key	Local call to ISDN phone on port 2.
<b>0900</b> followed by <b>#</b> or off-hook key	Local call broadcast to all handsets.

Apart from the numbers above, the EXPLORER 700 uses the following dialing prefixes:

- **1\*** before the phone number will force the connection to use **Standard Voice**.
- **2\*** before the phone number will force the connection to use **3.1 kHz Audio**.
- **#31#** before the phone number will hide the callers phone number to the recipient.
- **\*31#** before the phone number will show the callers phone number to the recipient where it would otherwise be hidden, e.g. because the number is an ex-directory number.
- **R** is used during a call to indicate that the following key-presses should activate a supplementary services function. The supplementary services functions supported by the EXPLORER 700 are described in the subsequent sections.

## Making local phone calls

You can make local calls between phones connected to the EXPLORER 700. Local phone numbers always start with 0. For an overview of the numbers, see *Overview* on page 65.

To make a local call, dial  
<local number> followed by # or off-hook key.

**Note** You cannot make local calls between two Bluetooth handsets through the EXPLORER 700. Only one of the handsets may be a Bluetooth handset.

Up to 7 Bluetooth handsets can be connected at the same time, but **only one call** can be active on the Bluetooth interface. You can look up the local Bluetooth phone numbers in the display or in the web interface as follows:

- **Display**  
Enter the menu system and select **PROPERTIES > BLUETOOTH DEVICES**. The list shows all accepted Bluetooth devices with local number and Bluetooth name.
- **web interface**  
Access the web interface and select **SETTINGS > Bluetooth > Paired Devices**.  
The paired voice devices are listed with their local phone numbers.

Local numbers of analog phones and ISDN phones are assigned according to the table in *Overview* on page 65. Note that if you are using local numbers for ISDN devices, the numbers must be programmed in the devices.

## Handling waiting calls

**Note** The phone must have an R key (or a softkey with the same function) to be able to use these functions.

During a call, if a second party attempts to make contact with you, you may hear a Call Waiting indication. The Call Waiting indication is two beeps and a pause of 3 seconds, then two beeps again etc. If no action is taken, the waiting call is released after a time out period.

In the web interface you can enable or disable the call waiting indication. For further information, see *Call waiting* on page 135.

When you receive a Call Waiting indication, you have the following options:

If you want to:	Do as follows:
Clear the current call, and accept the waiting call.	Press <b>R 1 #</b> , within the time out period.
Hold the current call, and accept the waiting call.	Press <b>R 2 #</b> , within the time out period.
Ignore the waiting call.	Take no action.
Reject the waiting call.	Press <b>R 0 #</b> , within the time out period.

**Note** The BGAN system only supports one external call at a time.

## Holding a call

**Note** | The phone must have an R key (or a softkey with the same function) to be able to use these functions.

During a call, you may place the initial call on hold while another call is made.

If you want to:	Do as follows:
Place a call on hold.	Press <b>R 2 #</b> .
Place the existing call on hold and establish a new call.	Press <b>R</b> and dial the second phone number followed by <b>#</b> .
Shuttle between the two calls.	Press <b>R 2 #</b> (irrespective of whether the second call was acquired using Call Hold or acceptance of Call Waiting.)
Clear the held call, if no waiting call exists.	Press <b>R 0 #</b> .
Clear an active call and return to the held call.	Press <b>R 1 #</b> . Only possible if no waiting call exists.

**Note** | The BGAN system only supports one external call at a time.

## Transferring a call

**Note** | The phone must have an R key (or a softkey with the same function) to be able to use these functions.

When you receive a call, you can transfer this call to another device connected to the terminal.

To transfer the incoming call to another phone or headset, do as follows:

1. Press **R 4 \* <local number> #**.  
The phone or headset with the local number you dialed starts to ring.  
If your phone and the recipient's phone or headset are both Bluetooth devices, your phone is now disconnected. When the call is answered, a connection is established between the initial caller and the new recipient.
2. If only one or none of the devices are Bluetooth devices, you have two options.
  - Hang up. The phone or headset you transferred the call to continues to ring. When the call is answered, a connection is established between the initial caller and the new recipient.
  - Do not hang up. When the new recipient answers, you can have a conversation before hanging up. When you hang up, the call is handed over to the initial caller.

**Note** | The BGAN system only supports one external call at a time.

## Sending or receiving a fax message

### Handling delays

When sending or receiving fax messages over satellite, both fax units must be capable of handling longer delays without timing out. Some fax machines have an Overseas mode, which enables the unit to handle the long delays.

### Sending a fax message

The fax machine must be connected to the Phone/Fax interface or the ISDN interface of the EXPLORER 700. Refer to *Before connecting to the Phone/Fax interface* on page 59 or *Before connecting to the ISDN interface* on page 60.

If you are using a **G3 fax machine** on the Phone/Fax or ISDN interface, you must set up the interface to use **3.1 kHz Audio**. Refer to *Selecting the default outgoing call type* on page 57.

If you are using a **G4 fax machine** on the ISDN interface, you must set up the ISDN interface to use **UDI**. Refer to *Configuring the ISDN interface* on page 128.

To send a fax from a fax machine connected to the EXPLORER 700, dial  
**00 <country code> <phone number> #**

**Example:** To send a fax to Thrane & Thrane in Denmark (+45 39558888),  
dial **00 45 39558888 #**

#### Note

If the default setting in the web interface is not 3.1 kHz Audio, you can dial 2 \* before the number to force the connection to use 3.1 kHz Audio. For further information, see *Overriding the default outgoing call type* on page 57.

### Receiving a fax message

An G3 fax machine connected to the EXPLORER 700 can only receive a fax with 3.1 kHz Audio. Refer to *Selecting the incoming call type* on page 58.

A G4 ISDN fax machine connected to the EXPLORER 700 can only receive a fax with UDI (for ISDN).

Make sure the fax is sent to the mobile number for 3.1 kHz Audio or UDI and that 3.1 kHz Audio or UDI is enabled for the relevant interface.

## Using a computer

### Overview

You can connect a computer to the LAN, WLAN, USB, ISDN or Bluetooth interface on the EXPLORER 700. With a connected computer you can use the BGAN network to access various applications such as Internet, e-mail, file transfer, VPN etc.

### Choosing an interface for data connection

The EXPLORER 700 has five types of interface for data connection: LAN, USB, ISDN, WLAN and Bluetooth.

The following table shows some characteristics of each interface, to help you choose the right interface for your application.

Interface	Power Consumption	Amount of Setup	Range
LAN	High	None (or very little)	Up to 100 m of cable
USB	Low	Some setup necessary	Up to 5 m of cable
ISDN	Medium	Some setup necessary	Up to 100 m of cable
WLAN	High	Some setup necessary	Wireless connection. Up to 100 m depending on the transmitter in the computer and on the transmission conditions.
Bluetooth	Medium	Can be complicated, depending on operating system.	Wireless connection. Up to 100 m depending on the transmitter in the computer and on the transmission conditions.



## Standard or Streaming data

### Definition

The BGAN network supports different classes of data connection to the Internet. The main classes are Standard data and Streaming data.

- Using a **Standard data** connection, several users can share the data connection simultaneously. This type of connection is ideal for TCP/IP traffic such as e-mail, file transfer, and Internet and intranet access.  
The user pays for the amount of data sent and received.
- Using a **Streaming data** connection, you get an exclusive, high-priority connection, ensuring seamless transfer of data. This type of connection is ideal for time critical applications like live video over IP.  
The user pays for the duration of the connection (per minute charge).

#### Note

For optimum performance it is important that you select the right traffic class when defining profiles for your connection.

You can set up various types of connection using the profiles and a traffic flow filter. For further information, see *Using profiles* on page 146 and *Using traffic flow filters* on page 149.

### Setting up and activating a Streaming connection

By default, any data connection on the EXPLORER 700 is a **Standard data** connection.

If you want to set up a Streaming connection, select a Streaming profile when setting up your data interface. See the “Configuring...” section for your interface in Chapter 5, *Using the web interface*.

Before starting a Streaming session on the LAN interface, make sure you have set up the Streaming profile for the LAN interface.

**To start or stop a Streaming session** on the LAN interface, do as follows:

1. Access the web interface.
2. Select **DASHBOARD** from the left navigation pane.
3. At the bottom of the page, click the **Start** or **Stop** link of the relevant Streaming profile.

#### Important

When running a Streaming session you are charged for the time you are connected. A started Streaming session will stay active until you stop it.

## Using the LAN interface

### Before connecting to the LAN interface

The LAN interface on the EXPLORER 700 comprises two connectors. If more than one LAN or WLAN user is connected to the EXPLORER 700, the terminal should be in Router mode. Refer to *Configuring the LAN interface* on page 114.

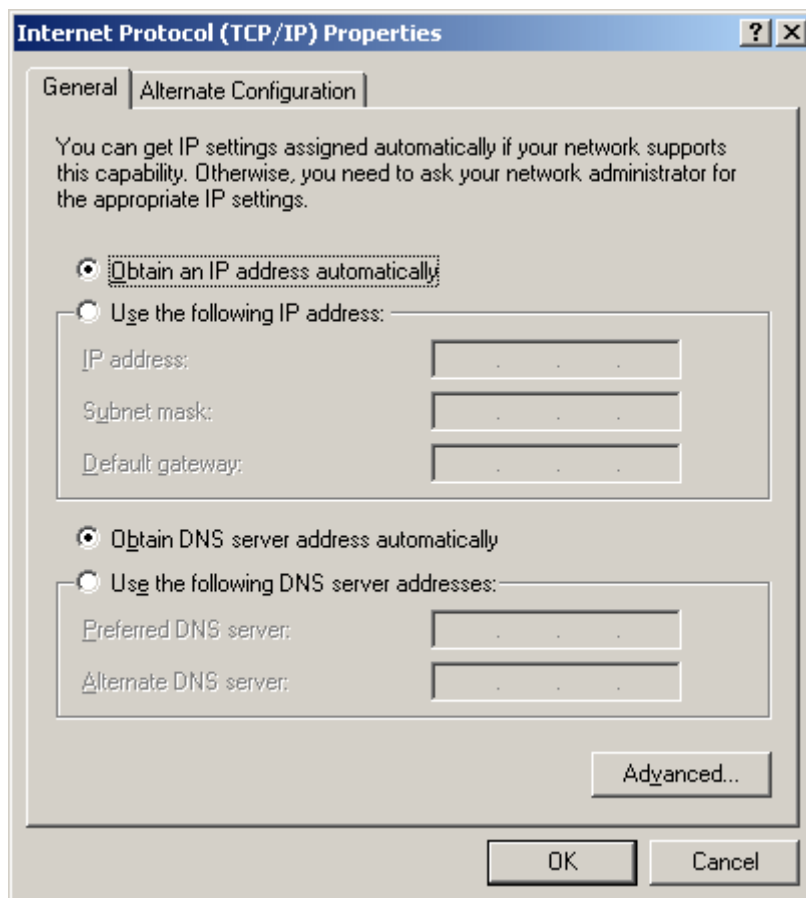
To connect to the LAN (Local Area Network) interface, use a shielded cable mounted with an RJ-45 connector.

For specifications, refer to *LAN interface, 2-port* on page 182.

For the LAN interface to work without any further setup, the computer must be set up to obtain an IP address and a DNS server address automatically.

To check these settings on your computer, do as follows (For Windows XP):

1. Select **Connect To > Show All Connections** from the **Start** menu.
2. Double-click **Local Area Connection**.
3. Click **Properties**
4. Select **Internet Protocol (TCP/IP)** from the list and click **Properties**.  
Make sure both fields are set to obtain an address automatically.

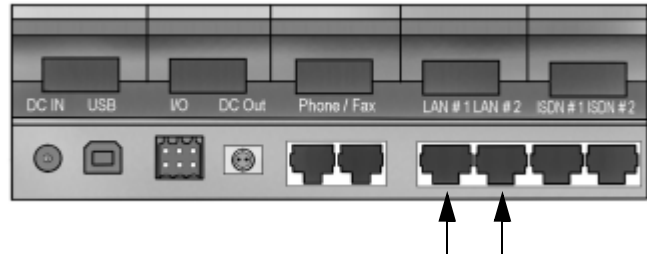


## Connecting to the LAN interface

This section does not describe configuration of the LAN interface. For information on configuration, see *Configuring the LAN interface* on page 114.

To connect to the LAN interface, do as follows:

1. Connect the LAN cable to the network interface of your computer.  
A suitable cable is provided with your EXPLORER 700.
2. Connect the other end of the cable to one of the LAN connectors on the EXPLORER 700.



### Important

The ISDN interface and the LAN interface use the same connector type. Be careful not to connect to the wrong interface.

3. Power up the EXPLORER 700 and point the antenna as described in *Pointing the antenna* on page 27.  
After pointing, the connection is automatically established. By default, the connection is a Standard data connection.
4. Check the connection, e.g. by starting your Internet Browser.

If connection fails, check that the interface is enabled in the EXPLORER 700. If the LAN icon is not present in the display Main screen and in the Dashboard in the web interface, the interface is disabled. See *Enabling or disabling an interface* on page 56.

If connection still fails, refer to the *Troubleshooting Guide* on page 164.

## Using the WLAN interface

### Before connecting

The computer should be placed within a maximum distance of 100 m from the EXPLORER 700. Note that this is the maximum distance in open air; the actual maximum distance may be shorter, depending on the environment. In an office environment, you should be able to establish a connection across the adjoining 2-3 rooms.

### Connecting to the WLAN interface

This section does not describe configuration of the WLAN interface. For information on configuration, see *Configuring the WLAN interface* on page 119. Note that the LAN settings also apply to the WLAN interface, see *Before connecting to the LAN interface* on page 72 and *Configuring the LAN interface* on page 88.

**Note**

The Bluetooth and WLAN interfaces may interfere with each other if they are both active. For optimum performance, do not use Bluetooth and WLAN simultaneously, or use WLAN mode 802.11a (5 GHz) where it is allowed, e.g. in the USA.

Before you can use the WLAN interface, you have to enter the country code for your present location in the EXPLORER 700. For further information, see *Configuring the WLAN interface* on page 119.

**Important**

Observe your local WLAN regulations and set the country code correctly in your EXPLORER 700.

To connect to the WLAN interface, do as follows:

1. Power up the EXPLORER 700 and point the antenna.
2. Power up your computer and place it close to the EXPLORER 700.
3. Select the EXPLORER 700 WLAN access point on your computer.  
The default name is EXPLORER 700.
4. Start your Internet browser or E-mail program.

If connection fails, check that the interface is enabled in the EXPLORER 700.

If the WLAN icon is not present in the display Main screen and in the Dashboard in the web interface, the interface is disabled. See *Enabling or disabling an interface* on page 56. If the interface is enabled but connection fails, refer to the *Troubleshooting Guide* on page 165.

## Using the USB interface

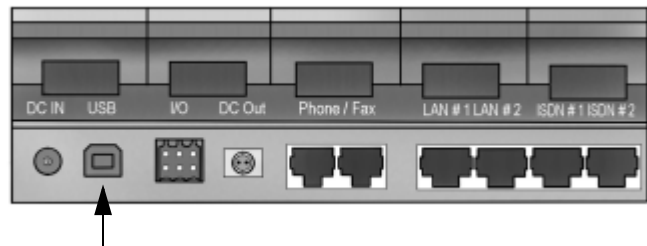
### Before connecting to the USB interface

To connect to the USB (Universal Serial Bus) interface, use a USB cable mounted with a USB type B connector. A suitable cable is provided with your EXPLORER 700. For specifications, refer to *USB interface* on page 183.

### First-time setup of USB

If it is the first time you connect your computer to the EXPLORER 700 using the USB interface, or you have exchanged the EXPLORER 700 with another EXPLORER 700, you must install a driver as follows:

1. Power up your computer.
2. Connect the USB cable to the USB port of your computer.
3. Connect the other end of the cable to the USB connector on the EXPLORER 700.



4. Power up the EXPLORER 700 as described in *Getting started* on page 13.
5. Your computer should now automatically discover that new hardware is connected.

**Note** The following description is for **Windows XP**. If you are using a different operating system, the procedure may be different.

6. On **Windows XP**, the New Hardware Wizard will start automatically. Go through the wizard as follows:
7. In the New Hardware Wizard, select **No, not this time** when you are asked if Windows can search for software.
8. Click **Next**.
9. Insert the Thrane & Thrane CD-ROM provided with your EXPLORER 700 into the CD-ROM drive of your computer.
10. Select **Install the software automatically** and click **Next**.
11. If you get a warning that the software has not passed Windows logo testing, you can safely click **Continue Anyway**.
12. Click **Finish** when the installation is complete.

When you finish the wizard, the Thrane & Thrane EXPLORER USB driver is installed. To verify that the installation was successful, display the list of modems on your computer (for details, refer to the documentation for your operating system).

Two ports called **Thrane & Thrane EXPLORER port 1** and **Thrane & Thrane EXPLORER port 2** should be displayed.

13. Create a dial-up connection as described in *Creating a dial-up connection* on page 80.

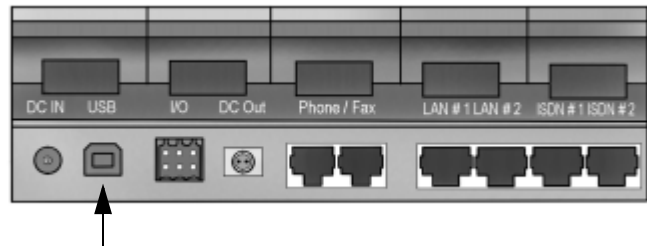
### Connecting to the USB interface

This section does not describe configuration of the USB interface. For information on configuration, see *Configuring the USB interface* on page 111.

If you are connecting your computer to the USB interface for the first time, see *First-time setup of USB* on page 75.

To connect to the USB interface, do as follows:

1. Power up your computer.
2. Connect the USB cable to the USB port of your computer.
3. Connect the other end of the cable to the USB connector on the EXPLORER 700.



4. Power up the EXPLORER 700 and point the antenna as described in *Getting started* on page 13.
5. **To enable communication** on the USB interface, open your dial-up connection as described in the following steps.

**Note** The following description is for **Windows XP**. If you are using a different operating system, the procedure may be different.

6. In Windows XP, select **Connect To** from the **Start** menu.
7. Select the dial-up connection created for this USB connection.
8. Click **Dial** and wait for the connection to be established. Then start your Internet browser or mail program.

If connection fails, refer to the *Troubleshooting Guide* on page 166.

### Using 64 kbps UDI (ISDN) through the USB interface

You can communicate using ISDN through the USB interface of the EXPLORER 700, provided that your Internet Service Provider (ISP) supports Unrestricted Digital Information (UDI) and that it is included in your subscription.

The necessary setup is very limited, so you can very quickly establish a live connection. Note however, that you are charged for the time you are connected (per minute rate).

**Do as follows:**

1. Make sure 64 kbps UDI is included in your subscription.
2. From your Airtime Provider, acquire the ISP phone number, User name and Password to access the 64 kbps UDI service.
3. If you have not yet installed the Thrane & Thrane EXPLORER USB driver from the Thrane & Thrane CD, install it as described in *First-time setup of USB* on page 75.
4. Connect and create a dial-up connection as described in *Creating a dial-up connection* on page 80, **with the following exceptions:**
  - When you are asked for a phone number, type in the ISP phone number.
  - When you are asked for User name and password, type in the User name and Password provided by your ISP.
5. To enable communication, simply open your 64 kbps UDI dial-up connection and click **Dial**. You now have a 64 kbps UDI connection to the Internet.

## Using a computer with ISDN

### Before connecting

The ISDN interface on the EXPLORER 700 comprises two connectors and supports connection of up to 8 devices simultaneously. However, the Core network presently only supports one 64 kbps ISDN channel per subscription.

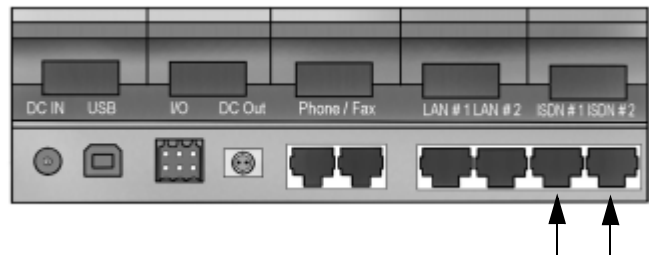
To connect to the ISDN interface, use an ISDN cable with an ISDN connector. For specifications, refer to *ISDN interface, 2-port* on page 181.

### Connecting a computer to the ISDN interface

This section does not describe configuration of the ISDN interface. For information on configuration, see *Configuring the ISDN interface* on page 128.

To connect to the ISDN interface, do as follows:

1. Connect your computer to your ISDN modem.
2. Connect the ISDN cable between your ISDN modem and one of the ISDN connectors on the EXPLORER 700.



#### Important

The ISDN interface and the LAN interface use the same connector type. Be careful not to accidentally use the LAN interface.

3. Power up the EXPLORER 700 and point the antenna as described in *Getting started* on page 13.
4. On your computer, activate your dial-up connection.
5. Check the connection, e.g. by starting your Internet Browser.

If connection fails, check that the interface is enabled in the EXPLORER 700. If the ISDN icon is not present in the display Main screen and in the Dashboard in the web interface, the interface is disabled. See *Enabling or disabling an interface* on page 56.

If connection still fails, refer to the *Troubleshooting Guide* on page 163.



## Using a computer with Bluetooth

### Before connecting a computer to the Bluetooth interface

The EXPLORER 700 supports various Bluetooth profiles. Remember to activate/install the profile(s) you are going to use on your computer.

For a list of supported Bluetooth profiles, see *Bluetooth interface* on page 185.

The computer should be placed within a maximum distance of 100 m from the EXPLORER 700. Note that this is the maximum distance in open air; the actual maximum distance may be shorter, depending on the environment. In an office environment, you should be able to establish a connection across the adjoining 2-3 rooms.

**Note** The procedure may vary depending on the Bluetooth interface in your computer. Consult your Bluetooth manual for details.

If the two devices have not been connected before, you need to pair the devices. For further information, see the section *Bluetooth pairing* on page 34.

### Connecting a computer to the Bluetooth interface

This section does not describe configuration of the Bluetooth interface. For information on configuration, see *Configuring the Bluetooth interface* on page 122.

**Note** The Bluetooth and WLAN interfaces may interfere with each other if they are both active. For optimum performance, do not use Bluetooth and WLAN simultaneously, or use WLAN mode 802.11a (5 GHz) where it is allowed, e.g. in the USA.

If the devices are already paired, do as follows to connect:

1. Place the computer close to the EXPLORER 700.
2. Power up the EXPLORER 700 and point the antenna.
3. Power up your computer.
4. Turn on Bluetooth on your computer.

If the devices are paired, the Bluetooth connection should now be established.

Note that if your Bluetooth connection is defined as a dial-up connection, you have to open the dial-up connection before you can access the Internet or the web interface. See *Connecting to the USB interface* on page 76.

**Note** Max. 7 devices, including voice and data devices, can be connected simultaneously.

If connection fails, check that the interface is enabled in the EXPLORER 700.

If the Bluetooth icon is not present in the display Main screen and in the Dashboard in the web interface, the interface is disabled. See *Enabling or disabling an interface* on page 56. If the interface is enabled but connection fails, refer to the *Troubleshooting Guide* on page 167.

## Creating a dial-up connection

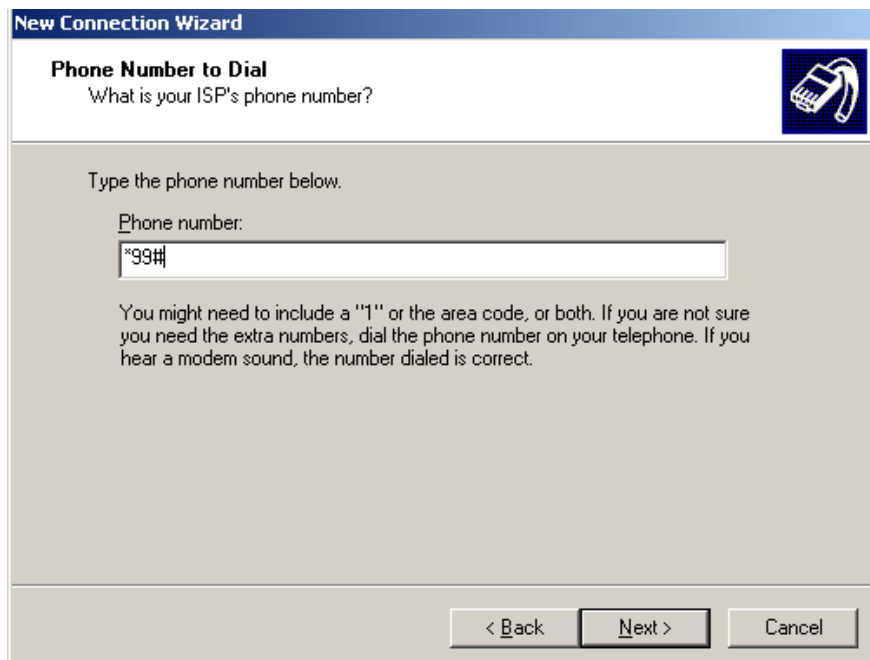
Do as follows:

**Note**

The following description is for **Windows XP**. If you are using a different operating system, the procedure may be different.

1. Start up your computer and the EXPLORER 700.
2. Connect the USB cable between your computer and the USB connector on your EXPLORER 700, or place your paired Bluetooth computer close to the EXPLORER 700. For information on Bluetooth, see *Using a computer with Bluetooth* on page 79.
3. On your computer, select **Connect To** from the **Start** menu.
4. Select **Show All Connections**.
5. Open the **New Connection Wizard** and click **Next**.
6. Select **Connect to the Internet** and click **Next**.
7. Select **Set up my connection manually** and click **Next**.
8. Select **Connect using a dial-up modem** and click **Next**.  
If other modems are installed, the Wizard now shows a list of all installed modems.  
For USB, select Thrane & Thrane EXPLORER port 1 or 2 from the list.  
For Bluetooth, select your Bluetooth driver from the list.
9. In the **ISP Name** field, type a name for your connection and click **Next**.

10. When you are asked for a phone number, type:  
**\*98#** if you want a Standard data connection to the Internet and/or the web interface, or **\*99#** if you are going to connect **only** to the web interface in the EXPLORER 700.



To dial up using a specific profile, type **\*98\*<CID>#**.

To find the <CID> number, access the web interface, select **SETTINGS > USB** (or Bluetooth) and locate the profile CIDs section at the bottom of the page.

For further information, see *Configuring the USB interface* on page 111 or *Configuring the Bluetooth interface* on page 122.

11. Click **Next**.
12. If you are using UDI, enter the User name and Password and click **Next**.  
 If you are not using UDI, simply click **Next** without entering User name and Password.  
 See *Using 64 kbps UDI (ISDN) through the USB interface* on page 77.

13. Click **Finish**.

When you connect to the USB interface, or to the Bluetooth interface using dial-up, you must open this dial-up connection to access the Internet or the web interface.

To open the dial-up connection (in Windows XP), select **Connect To** from the **Start** menu, select your dial-up connection and click **Dial**. When the connection is established, you can access the Internet as usual.

**Note**

You may need to enter User name and Password to access the Internet. If necessary, enter the User name and Password supplied by your Internet Provider.

## Additional interfaces

### Using a solar panel

#### Before connecting

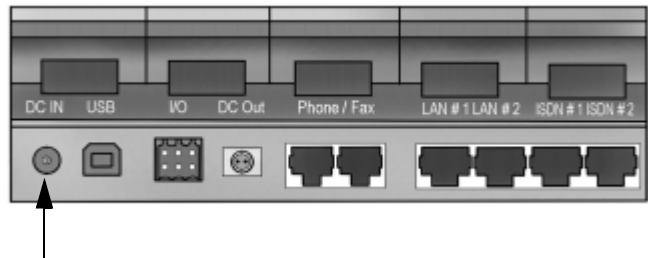
To connect to the solar panel interface, use a suitable cable matching the output power of your solar panel. For specifications on the solar panel interface, refer to *Solar panel interface* on page 189.

The EXPLORER 700 battery must be inserted when a solar panel is used. When the solar panel is connected, it will supply the power to charge the battery of the EXPLORER 700.

#### Connecting a solar panel

Do as follows:

1. Make sure the battery is inserted.
2. Connect the cable to your solar panel.
3. Connect the other end of the cable to the DC in connector on the EXPLORER 700.



4. Point the solar panel directly towards the sun to obtain maximum power.

#### Important

Avoid shadows from trees, buildings or similar. Shadows reduce the output power of the solar panel significantly.

The battery is now charging.

The indicator left to the display is constantly green as long as the battery is charging. When the battery is fully recharged, the green indicator is turned off. If the EXPLORER 700 is switched on, the green indicator will be flashing shortly every 2 seconds.

If a charging error occurs, the green indicator on the EXPLORER 700 flashes rapidly. See the *Troubleshooting Guide* on page 159.

## Using the I/O interface

### Before connecting

The EXPLORER 700 has an Input/Output interface that can be used for control or signaling.

One available function is: To implement a remote switch for switching on the EXPLORER 700, you can connect to I/O pin 1.

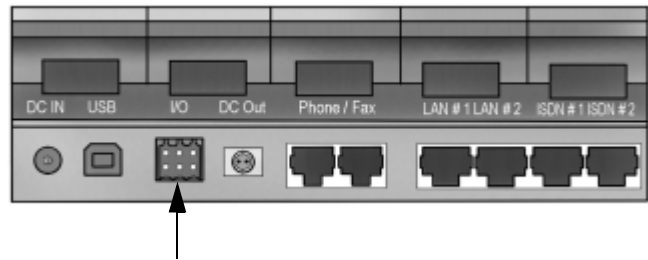
For further information on the functions of the I/O interface, contact your distributor.

For specifications on the I/O interface, refer to *I/O interface* on page 190.

### Connecting to the I/O interface

Do as follows:

1. Mount your cable(s) at one end with a connector of the following type:  
B2L 3.5/6, TT part no: 31-203302-443, Weidmuller Part no: 1727640000 (black).
2. Connect the end with the newly mounted connector to the I/O interface on the EXPLORER 700.
3. Connect the other end of the cable(s) to your control or signaling equipment.



## Using the EXPLORER<sup>®</sup> Bluetooth Handset charger

### Before connecting to the EXPLORER<sup>®</sup> Bluetooth Handset charger interface

If you are using an EXPLORER Bluetooth Handset, you can recharge the handset using the DC charger interface of the EXPLORER 700.

Use the charger cable supplied with the EXPLORER Bluetooth Handset.

For specifications on the charger interface, see *EXPLORER<sup>®</sup> Bluetooth Handset charger interface* on page 188.

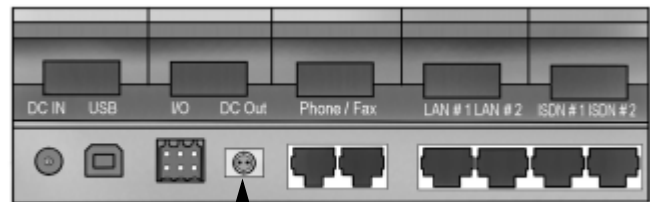
### Connecting to the EXPLORER<sup>®</sup> Bluetooth Handset charger interface

Do as follows:

1. Connect the EXPLORER 700 to power, either using the AC/DC adapter connected to a 100-240 V AC electrical outlet, or the Car charger cable connected to the cigarette lighter socket/12 V DC in a car.

**Note** The Bluetooth handset charger cannot recharge the Bluetooth handset from the EXPLORER 700 battery. The EXPLORER 700 must be connected to external power.

2. Connect the Bluetooth charger cable to the charging connector on the EXPLORER 700.



Make sure the connector is oriented correctly in relation to the coding of the plastic insert.

3. Connect the other end of the cable to your EXPLORER Bluetooth Handset. If the EXPLORER 700 is connected to power, the battery of the Bluetooth Handset is now recharged.

# Using the web interface

## In this chapter

This chapter describes how to use the web interface to operate, set up and configure the EXPLORER 700.

Initial configuration of interfaces is described in the chapter *Using the interfaces* on page 54.

## Introduction

### The web interface

#### What is the web interface?

The web interface is built into the terminal, and is used for operating, setting up and configuring the system.

You can access the web interface from a computer with a standard Internet browser. Internet Explorer 6.0, Mozilla Firefox 1.0 and Apple Safari 2.0 were tested successfully with the web interface. You may be able to use other browser versions as well.

#### Connecting

Connect your computer to the EXPLORER 700.

Make sure your computer is set up for the interface you are planning to use for connecting to the EXPLORER 700. You can use LAN, USB, ISDN, WLAN or Bluetooth. See *Using the interfaces* on page 54 for details.

#### Important

If you are going to use USB or Bluetooth with Dial-up Networking to access **only** the web interface and **not** the Internet, you must use a dial-up connection with the phone number set to **\*99#**. For further information, see *Creating a dial-up connection* on page 80.

## Browser settings

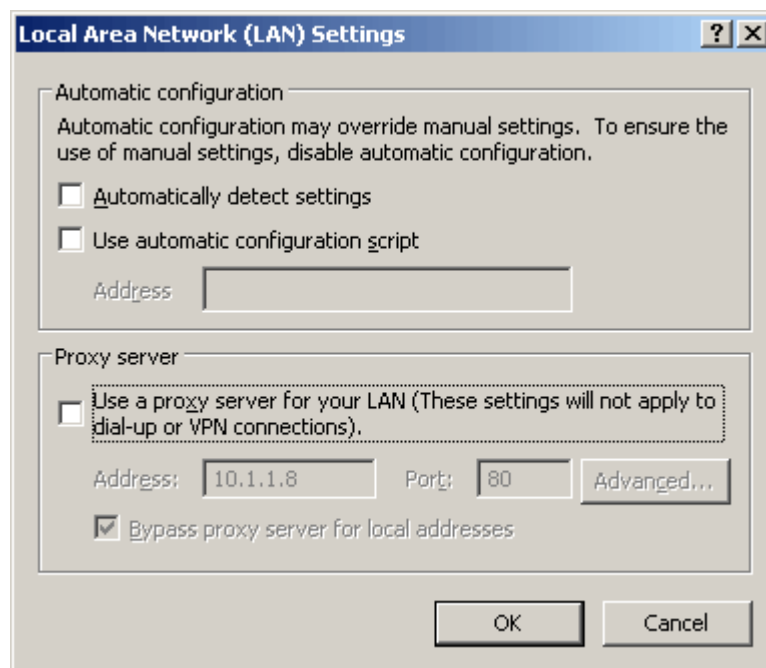
If you are connecting your computer using the LAN interface, the **Proxy server** settings in your browser must be disabled before accessing the web interface.

Most browsers support disabling of the Proxy server settings for one specific IP address, so you can disable Proxy server settings for the web interface only, if you wish. Consult your browser help for information.

To disable the use of a Proxy server completely, do as follows:

**Note** The following description is for **Microsoft Internet Explorer**. If you are using a different browser, the procedure may be different.

1. In Microsoft Internet Explorer, select **Tools > Internet Options > Connections > LAN Settings**.



2. Uncheck the box labeled **Use a proxy server for your LAN**.

3. Click **OK**.

When the proxy server settings are disabled, close your browser.

You may need to change this setting back on return to your Internet connection.



## Accessing and navigating the web interface

### Accessing the web interface

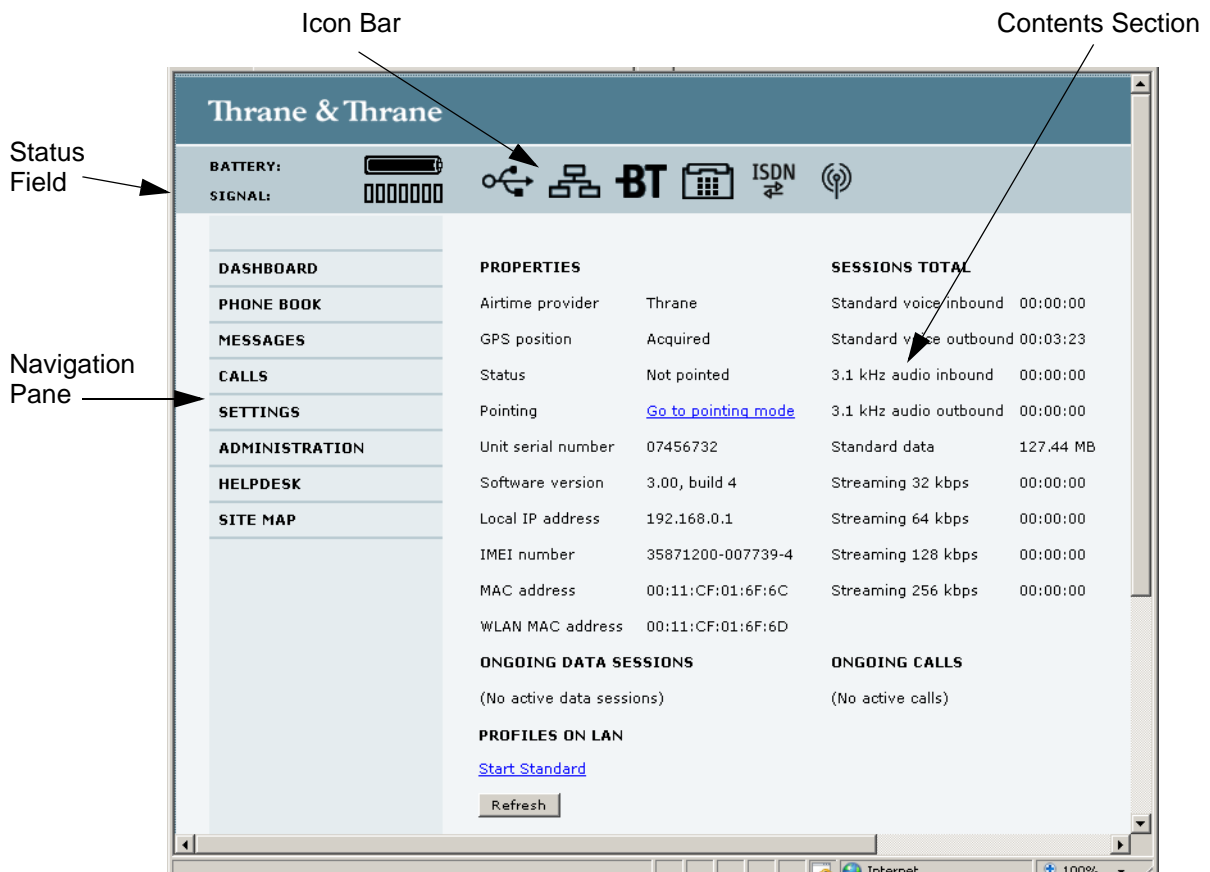
To access the web interface, do as follows:

1. Connect your computer to the EXPLORER 700.  
For further information, see *Using a computer* on page 70.
2. Start up the EXPLORER 700.  
For further information, see *Getting started* on page 13.
3. Open your browser and enter the IP address of the EXPLORER 700.  
The default IP address is **192.168.0.1**.  
If your EXPLORER 700 uses a different IP address, you can look it up by entering the display menu system of the EXPLORER 700 and selecting **PROPERTIES > IP ADDRESS**.

When you have access to the web interface, if you want to display a different language than English, select **SETTINGS > LANGUAGE**, select a language from the list and click **Apply**. For further information, see *Setting the language* on page 141.

### Overview of the web interface









The web interface consists of the following sections.



- The **navigation pane** holds the main menu. Clicking an item in the menu opens a submenu in the navigation pane or a new page in the contents section.
- The **status field** shows battery status and signal strength.
- The **icon bar** shows an icon for each interface that is enabled. It also shows icons for new SMS messages and for active alarms, when relevant. For explanations of the icons, see the next section, *Icons in the icon bar*.
- The **contents section** shows the page selected in the navigation pane. This section is used for viewing or changing settings, or for performing actions.

### Icons in the icon bar

The following icons may appear in the icon bar in the web interface:

Icon	Explanation
	Phone/Fax interface is on.
	Bluetooth interface is on.
	LAN interface is on.
	USB interface is on.
	ISDN interface is on.
	WLAN interface is on.
	A new SMS message, or information of Voice mail, has arrived. Click the icon to see new messages or information of Voice mail. For further information, see <i>Receiving a message</i> on page 101.
	An alarm is pending. Click the icon to see a list of active alarms. For explanations of the alarm messages, see <i>List of alarms</i> on page 169. Note that the alarm icon will remain in the icon bar as long as the cause of the alarm is still present.

### Navigating the web interface

- **To expand a menu**, click the menu in the navigation pane.
- **To access status and settings**, click the relevant subject in the navigation pane or click the relevant icon in the icon bar. The status or settings are displayed in the contents section.
- **To see the site map**, click **SITE MAP** in the navigation pane. Click on items in the site map to go directly to the relevant location.

## Entering the SIM PIN in the web interface

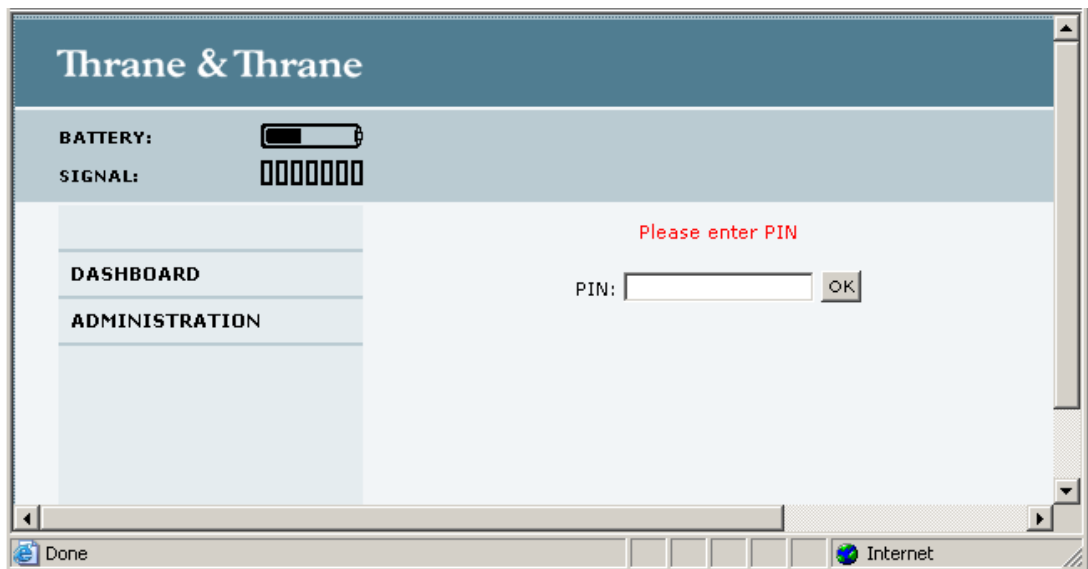
### Do you need a SIM PIN?

You may not have to enter a SIM PIN to access the terminal. This depends on whether or not the use of a SIM PIN is enabled on your SIM card.

If a computer is connected when you start up the EXPLORER 700, you can access the web interface and enter the SIM PIN here.

### To enter the SIM PIN

If your SIM card requires a PIN, and the PIN has not yet been entered: When you access the web interface, it opens on the PIN page. Until you have entered the PIN you can only upload software and view the Dashboard. Access to all other parts of the web interface requires a PIN.



Type in the PIN and click **OK**.

When the PIN is accepted, the web interface opens the Dashboard and is ready for use.

If you enter a wrong PIN 3 times you are asked for a PUK (PIN Unblocking Key). For further information, see *Wrong PIN* on page 27.

If the PIN has already been entered in the EXPLORER 700, or the PIN is disabled e.g. from the BGAN LaunchPad, the web interface goes directly to the Dashboard at start-up.

When the correct PIN has been entered, the web interface opens the Dashboard and is ready for use.

#### Note

Some parts of the web interface may be greyed out if the current user does not have permission to access these functions. For information on how to set up user permissions, see *Setting up user permissions* on page 152.

## Using the Dashboard

### Overview

The Dashboard is used for control and inspection of ongoing communication and for viewing properties of the EXPLORER 700.

**Thrane & Thrane**

BATTERY: [Battery icon]  
SIGNAL: [Signal strength icon]

[USB icon] [Bluetooth icon] **BT** [ISDN icon] [Wi-Fi icon]

DASHBOARD	PROPERTIES	SESSIONS TOTAL
PHONE BOOK	Airtime provider: Thrane	Standard voice inbound: 00:00:00
MESSAGES	GPS position: Acquired	Standard voice outbound: 00:03:23
CALLS	Status: Not pointed	3.1 kHz audio inbound: 00:00:00
SETTINGS	Pointing: <a href="#">Go to pointing mode</a>	3.1 kHz audio outbound: 00:00:00
ADMINISTRATION	Unit serial number: 07456732	Standard data: 127.44 MB
HELPDESK	Software version: 3.00, build 4	Streaming 32 kbps: 00:00:00
SITE MAP	Local IP address: 192.168.0.1	Streaming 64 kbps: 00:00:00
	IMEI number: 35871200-007739-4	Streaming 128 kbps: 00:00:00
	MAC address: 00:11:CF:01:6F:6C	Streaming 256 kbps: 00:00:00
	WLAN MAC address: 00:11:CF:01:6F:6D	
	<b>ONGOING DATA SESSIONS</b>	<b>ONGOING CALLS</b>
	(No active data sessions)	(No active calls)
	<b>PROFILES ON LAN</b>	
	<a href="#">Start Standard</a>	
	<input type="button" value="Refresh"/>	

Internet 100%

## Properties

The **PROPERTIES** section of the **Dashboard** shows the following:

- **Airtime provider.** The name of your airtime provider.
- **GPS position.** The GPS position of your EXPLORER 700.

**Note** In some cases, the BGAN network does not allow the position to be displayed to the user. If this is the case, the display may just show “GPS acquired”. This means that the GPS position is received, but the user is not allowed to see it.

This also applies if the EXPLORER 700 is not yet registered on the BGAN network, but the GPS position is received.

- **Status.** The status of the EXPLORER 700. This field corresponds largely, but not completely, to the status information in the display.  
Examples of status information are: Ready, Registering and Data active.
- **Pointing.** If you want to point the antenna, click the link **Go to pointing mode**. For further information, see *Pointing using web interface* on page 93.
- **Unit serial number.** The serial number of the total unit.
- **Software version.** The version of the software embedded in the EXPLORER 700.
- **Local IP address.** The local IP address of the EXPLORER 700. This is the IP address used to access the EXPLORER 700 from a device connected to the EXPLORER 700.
- **IMEI number.** The IMEI number (International Mobile Equipment Identity) of the EXPLORER 700. This is a unique number that identifies your EXPLORER 700.
- **MAC address** for the LAN and Bluetooth interfaces in the EXPLORER 700.
- **WLAN MAC address** for the WLAN interface in the EXPLORER 700.

## Managing calls and data sessions

### Start/stop Streaming data on the LAN interface

**Note** Before starting a Streaming session, make sure you have set up a Streaming profile in the **SETTINGS > LAN** page.

To start or stop a Streaming session, click the relevant link under **STREAMING PROFILES ON LAN**. For information on setup of the LAN interface, see *Configuring the LAN interface* on page 114. For information on how to set up a profile, see *Using profiles* on page 146.

### Start/stop Standard data on the LAN interface

By default, Standard data is always activated on the EXPLORER 700. If you only want Standard data to be activated when you have specifically enabled it, you can disable automatic activation using the **SETTINGS > LAN** page.

When automatic activation is disabled in the LAN page, you can manually activate/deactivate Standard data from the Dashboard by clicking **Start Standard** or **Stop Standard** under **PROFILES ON LAN** at the bottom of the page.



Alternatively you can use display menu system. See *Connect menu* on page 44.

### Viewing information on calls and data sessions

The following sections in the **Dashboard** show information on calls and data sessions.

- **ONGOING CALLS** is a list of calls that are currently active. The list shows the call type and the time connected for each call.
- **ONGOING DATA SESSIONS** is a list of data profiles that are currently active, including the IP address that is assigned to each PDP context.
- **SESSIONS TOTAL** lists the totals for each connection. The list shows the time connected (hh:mm:ss) for voice and Streaming data, and MB transferred for Standard data. The counters show totals for connections since the counters were last cleared. For information on how to clear the counters, see *Log handling* on page 145.

PROPERTIES		SESSIONS TOTAL	
Airtime provider	Thrane	Standard voice inbound	00:00:00
GPS position	Acquired	Standard voice outbound	00:03:23
Status	Not pointed	3.1 kHz audio inbound	00:00:00
Pointing	<a href="#">Go to pointing mode</a>	3.1 kHz audio outbound	00:00:00
Unit serial number	07456732	Standard data	127.44 MB
Software version	3.00, build 4	Streaming 32 kbps	00:00:00
Local IP address	192.168.0.1	Streaming 64 kbps	00:00:00
IMEI number	35871200-007739-4	Streaming 128 kbps	00:00:00
MAC address	00:11:CF:01:6F:6C	Streaming 256 kbps	00:00:00
WLAN MAC address	00:11:CF:01:6F:6D		
ONGOING DATA SESSIONS		ONGOING CALLS	
(No active data sessions)		(No active calls)	

## Pointing using web interface

Instead of using the display for observing the signal strength you can view and accept the signal strength in the web interface.

Do as follows:

1. From the **PROPERTIES** section of the **Dashboard**, click the link **Go to pointing mode**. The Pointing page opens, and the EXPLORER 700 enters pointing mode.

**Note**

At this point the EXPLORER 700 may make a sound. This sound is used for pointing the antenna. The frequency of the sound increases with the signal strength.

To toggle the pointing sound on/off, press ▲ or ▼ on the keypad of the EXPLORER 700.

2. Point the antenna as described in *Pointing the antenna* on page 27, while observing the signal strength in the web interface.
3. When you have obtained the highest signal strength you can get, click **Accept**.

The web interface now returns to the Dashboard, and the EXPLORER 700 tries to establish a connection and register on the BGAN network.

## Using the phone book

### General usage

#### Overview

In the phone book you can:

- Look up phone numbers.
- Look up short dial numbers for easy dialing from a handset.
- Modify or delete existing names and phone numbers, or add new names and phone numbers.

#### Accessing the phone book

To access the phone book, select **PHONE BOOK** from the left navigation pane.

The screenshot shows the Thrane & Thrane web interface. At the top, there's a header with the company name and various status icons (BATTERY, SIGNAL, BT, ISDN). A left navigation pane lists menu items: DASHBOARD, PHONE BOOK (selected), Mobile numbers, MESSAGES, CALLS, SETTINGS, ADMINISTRATION, HELPDESK, and SITE MAP. The main content area is a table with the following data:

Entry	Name	Number	Actions
1	Mr. Jones	+511111234	<a href="#">Edit/Delete</a>
2	Alistair	+123456789	<a href="#">Edit/Delete</a>
3	<input type="text"/>	<input type="text"/>	<input type="button" value="Save entry"/>
4			<a href="#">New</a>
5			<a href="#">New</a>
6			<a href="#">New</a>
7			<a href="#">New</a>
8			<a href="#">New</a>
9			<a href="#">New</a>
10			<a href="#">New</a>
11			<a href="#">New</a>
12			<a href="#">New</a>
13			<a href="#">New</a>
14			<a href="#">New</a>
15			<a href="#">New</a>
16			<a href="#">New</a>
17			<a href="#">New</a>
18			<a href="#">New</a>
19			<a href="#">New</a>
20			<a href="#">New</a>

At the bottom of the table area, there is a link: [Delete all entries in phone book](#). Below that, a page number '10' is displayed with a list of page numbers: [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#). The browser's address bar shows 'Internet'.



The phone book shows all entries with entry number, name and phone number. Empty place holders are also included.

To sort the phone book, click the title of the column you wish to sort by. For example, to sort by the names in the phone book alphabetically, click on **Name** in the top row of the phone book.

The phone book holds 199 entries divided into subpages. To select the subpage you want, click the relevant link at the bottom of the page.

### Short dial

The entry number in the phone book is the Short dial number. When making a call from the EXPLORER 700 you can use this number instead of dialing the entire phone number.

Simply dial **00 <short dial>** followed by **#** or off-hook key.

**Example:** To call the third entry in the phone book from an analog phone, take the phone off hook and dial **003 #**.

## Editing phone book entries

### Adding a new entry

To add a new entry, do as follows:

1. In the phone book, locate the empty entry number where you want to add the new phone number and click **New**.
2. Type in the name and phone number of the new entry and click **Save entry**.  
The new name and number are now listed at the specified entry number in the phone book.

### Modifying an entry in the phone book

To modify an entry, do as follows:

1. In the phone book, click **Edit** next to the entry you want to modify.
2. Modify the name or number as wanted and click **Save entry**.  
The name and/or number in the selected entry is now replaced with the new information.

### Deleting an entry in the phone book

To delete an entry, click **Delete** next to the entry you want to delete.

### Deleting all entries in the phone book

To delete all the entries in the phone book, click **Delete all entries in phone book** at the bottom of the **PHONE BOOK** page.

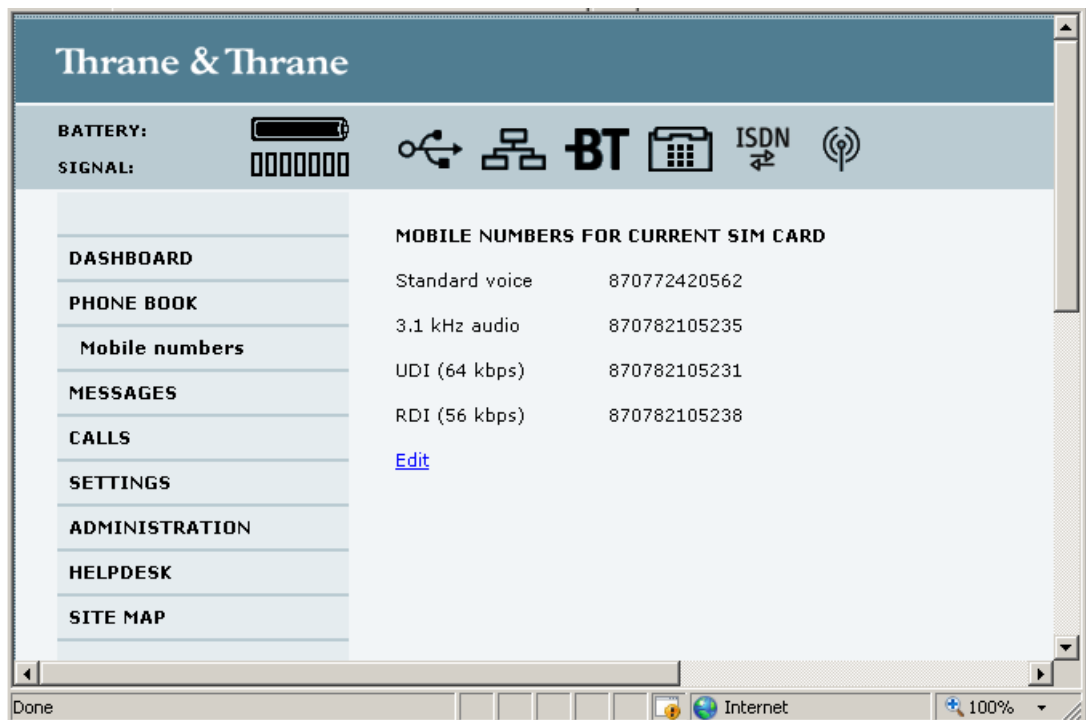
## Viewing and editing the mobile numbers of the EXPLORER® 700

### To view the mobile numbers

To view the mobile numbers of the terminal, select **PHONE BOOK > Mobile numbers** from the left navigation pane. The mobile numbers are the phone numbers to use when making a call to the terminal.

#### Note

These numbers are not listed at delivery. The user must enter the numbers received from the Airtime Provider. Also, if you replace the SIM card, remember to change the numbers as described below in *To add or edit the mobile numbers*.



### To add or edit the mobile numbers

To enter or edit the mobile numbers, click **Edit** at the bottom of the page, type in the numbers received from your Airtime Provider and click **OK**.

## Using the Call log

### Note

If power to the terminal is interrupted, all information on calls since last power up is lost. This could mean that you will be charged for more calls than the number of calls registered in the call log.

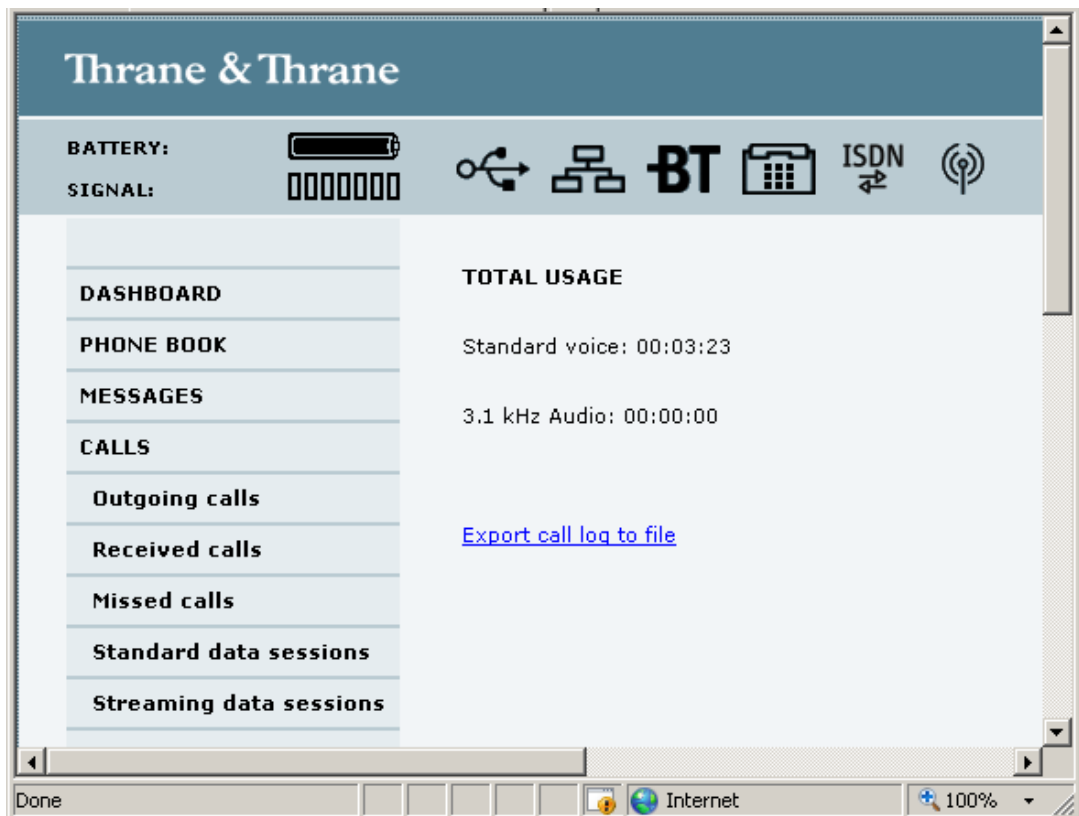
## Information on total usage

To enter the CALLS page select **CALLS** from the left navigation pane. The CALLS page contains information on usage for circuit switched connections.

For an explanation of the circuit switched services, see *Circuit switched (dialed) service* on page 11.

The listed information includes:

- time connected using Standard Voice and
- time connected using 3.1 kHz Audio.



## Exporting the call log

You can export the call log file for archiving, surveillance or other tracking purposes.

The call log holds information on all calls and data sessions since the call log was last cleared. For information on how to view the lists of calls and data sessions, see the next section.

To export the entire call log to a file, do as follows:

1. In the **CALLS** page, click the link **Export total Call Log to file**.
2. Browse to the location where you want to save the log.
3. Click **OK**.

## Viewing the lists of calls

To see information on outgoing, received or missed calls or data sessions, select one of the following lists from the left navigation pane in the **CALLS** page:

- **Outgoing calls** shows the start time, receiving end phone number, duration, type (Standard or 3.1 kHz Audio) and estimated charge of each outgoing call.
- **Received calls** shows the start time, calling phone number, duration and type (Standard or 3.1 kHz Audio) of each incoming call.
- **Missed calls** shows the start time, calling phone number and type (Standard or 3.1 kHz Audio) of each incoming call that was not received.
- **Standard data sessions** shows the start time, bytes in, bytes out and estimated charge of each Standard data session.
- **Streaming data sessions** shows the start time, duration, type (Streaming 32, 64, 128 or 256 kbps) and estimated charge of each Streaming data session.

Date and time is UTC time, received from the satellite.

### Note

The estimated charge is based on your entries under ADMINISTRATION > Call charges. Thrane & Thrane does not take responsibility for the correctness of this estimated charge.

You can sort each of the lists by clicking the title of the column you wish to sort by.

If a list covers more than one page, you can click the relevant link at the bottom of the page, to go to another page.

When there are more than 100 calls in the total list, the oldest calls are automatically removed to make room for new calls.

## Handling messages

### Sending an SMS message from the EXPLORER<sup>®</sup> 700

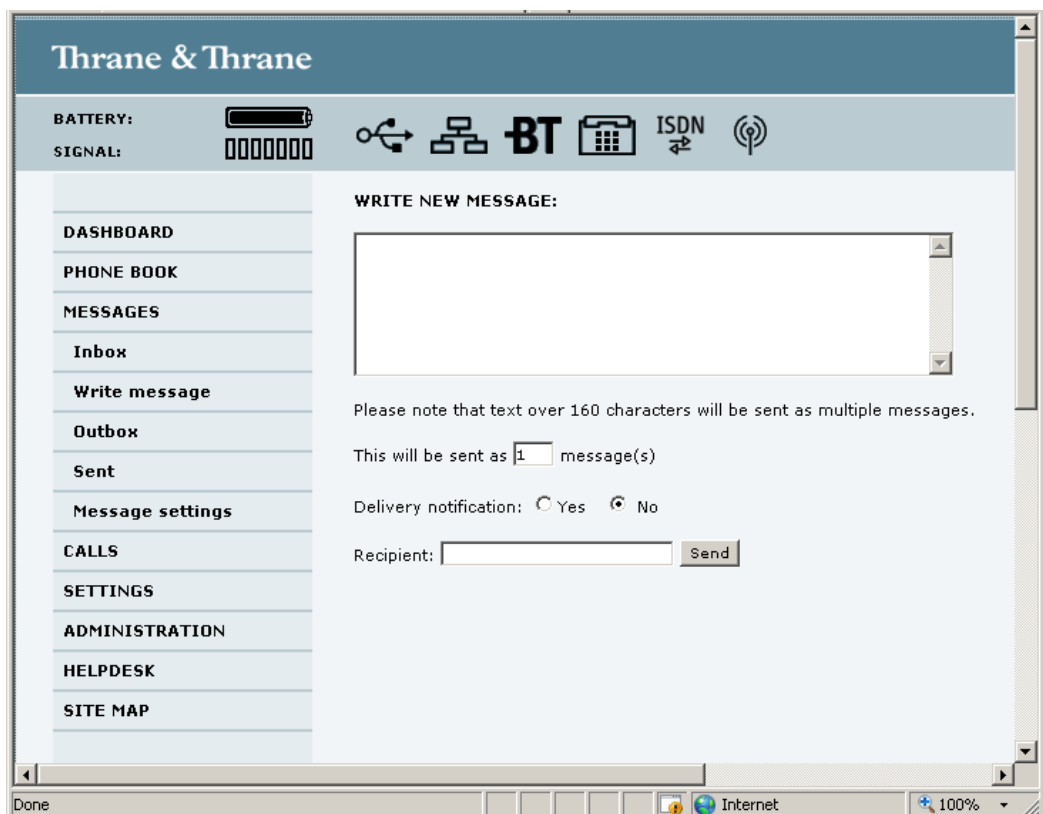
#### Important

If the EXPLORER 700 is not online when you attempt to send a message, the message is moved to the Outbox instead of the Sent folder. Messages in the Outbox are **not** automatically sent when the EXPLORER 700 goes online. For further information on the Outbox, see the next section, *Options for messages in the Outbox*.

To make sure a message has been sent, check that it has been moved to the Sent folder.

To send an SMS message **from** the EXPLORER 700, do as follows:

1. Click **MESSAGES** from the left navigation pane. This page contains new incoming messages.
2. In the left navigation pane, click **Write message**.



3. Type in the message in the **Write new message** field. If the message text is too long for one SMS, the message is sent as two or more SMS messages. The field below the message field shows the number of SMS messages used to send the message.

4. Type in the phone number in the **Recipient** field.  
Remember **00** and **country code** (e.g. **00 45** to call Denmark or **00 1** to call USA).
5. Select whether or not you want **Delivery notification** for this SMS message.  
If you click Yes, the Status column in the Sent folder will show the status of your message when it has been sent.  
You can set up delivery notification generally for all SMS messages. This setting is used by default when you send a message. For further information, see *Configuring message settings* on page 103.
6. Click **Send**.  
If the EXPLORER 700 is online the message is now sent and moved to the Sent folder.

## Options for messages in the Outbox

Messages in the Outbox are messages that have not been sent, e.g. because the EXPLORER 700 was not online when you attempted to send the messages.

To access the Outbox, click **MESSAGES > Outbox** from the navigation pane.

You have the following options for messages in the Outbox:

- When the EXPLORER 700 is online, click **Resend** next to the message you want to send. When the **Write message** page opens, click **Send**.  
The EXPLORER 700 now attempts to send the message again. To make sure the message has been sent, look in the Sent folder.

### Note

The original message remains in the Outbox. When you have succeeded in sending the message you may want to delete it from the Outbox.

- Click **Delete** next to a message to delete it.
- Click **Delete all messages in Outbox** to delete all the messages.

## Options for messages in the Sent folder

The Sent folder contains SMS messages that have been sent.

To access the Sent folder, select **MESSAGES > Sent** from the navigation pane.

The Status column shows the status of each message, if you have selected Delivery notification when sending the message.

From the Sent folder you have the following options:

- Click **Resend** next to a message you want to send again.  
When the Write message page opens, click **Send**.  
The EXPLORER 700 now attempts to send the message again. To make sure the message has been sent, look in the Sent folder. There should now be two copies of the sent message.
- Click **Forward** next to a message you want to forward.  
When the Write message page opens, type in the phone number of the new recipient and click **Send**.

The EXPLORER 700 now attempts to send the message to the new recipient. To make sure the message has been sent, look in the Sent folder.

- Click **Delete** next to a message to delete it.
- Click **Delete all sent messages** to delete all the messages.

## Sending an SMS message to the EXPLORER<sup>®</sup> 700

You can send an SMS message to the EXPLORER 700 e.g. from a mobile phone, using one of the mobile subscriber numbers for voice. Dial

**+870 <Mobile number>**

To see the voice numbers of your EXPLORER 700, select **PHONE BOOK > Mobile numbers** from the web interface or **PROPERTIES > MOBILE NUMBERS** from the display menu system. Note, however, that these numbers not listed at delivery; you must enter the numbers in the web interface. See *To add or edit the mobile numbers* on page 96. For the mobile numbers, refer to the information included with your airtime subscription.



There are two Voice numbers, one for 3.1 kHz Audio and one for Standard Voice.

## Receiving a message

If a message has arrived, the icon bar at the top of the web interface shows an unopened envelope. Click the envelope to see the new message(s).

Otherwise, to see new messages, click **MESSAGES** from the left navigation pane.

The page shows new incoming messages.



The EXPLORER 700 does not accept more than 100 incoming messages (including read and unread messages). If you have received 100 messages, you have to delete some of them in order to free space for new messages. Otherwise, the new messages are rejected.

If the message is not an SMS message but information of voice mail, call your voice mail service number to hear the voice mail.

To find your voice mail service number, select **MESSAGES > Message settings** from the left navigation pane and locate the **Voice mail service number**.

Note that the voice mail number is only shown if it is available on the SIM card. Otherwise, refer to the information included with your Airtime subscription.

## Options for new SMS messages

To see new messages, click **MESSAGES** from the left navigation pane.

Besides viewing the new messages, you have a number of options for what to do with each message:

- Click **Read** to move it to your Inbox containing read messages.
- Click **Reply** to reply to a message.  
Then type in your reply and click **Send**.  
For information on how to include the original message in your reply, see *Setting up the default message options* on page 103.
- Click **Forward** to forward a message to someone.  
Then type in the phone number in the **Recipient** field and click **Send**.
- If you want to move all the new messages, click **Move all new messages to Inbox**.

**Note** | New messages cannot be deleted until they have been moved to the Inbox.

## Options for SMS messages in the Inbox

The messages in the Inbox are the incoming messages that have been read and moved from the list of new messages (refer to the previous section).

From the Inbox, you have the following options:

- Click **Reply** to reply to a message.  
Then type in your reply and click **Send**.  
For information on how to include the original message in your reply, see *Setting up the default message options* on page 103.
- Click **Forward** to forward a message to someone.  
Then type in the phone number in the **Recipient** field and click **Send**.
- Click **Delete** to delete the message.
- Click **Delete all messages in Inbox** to delete all read messages in the Inbox.



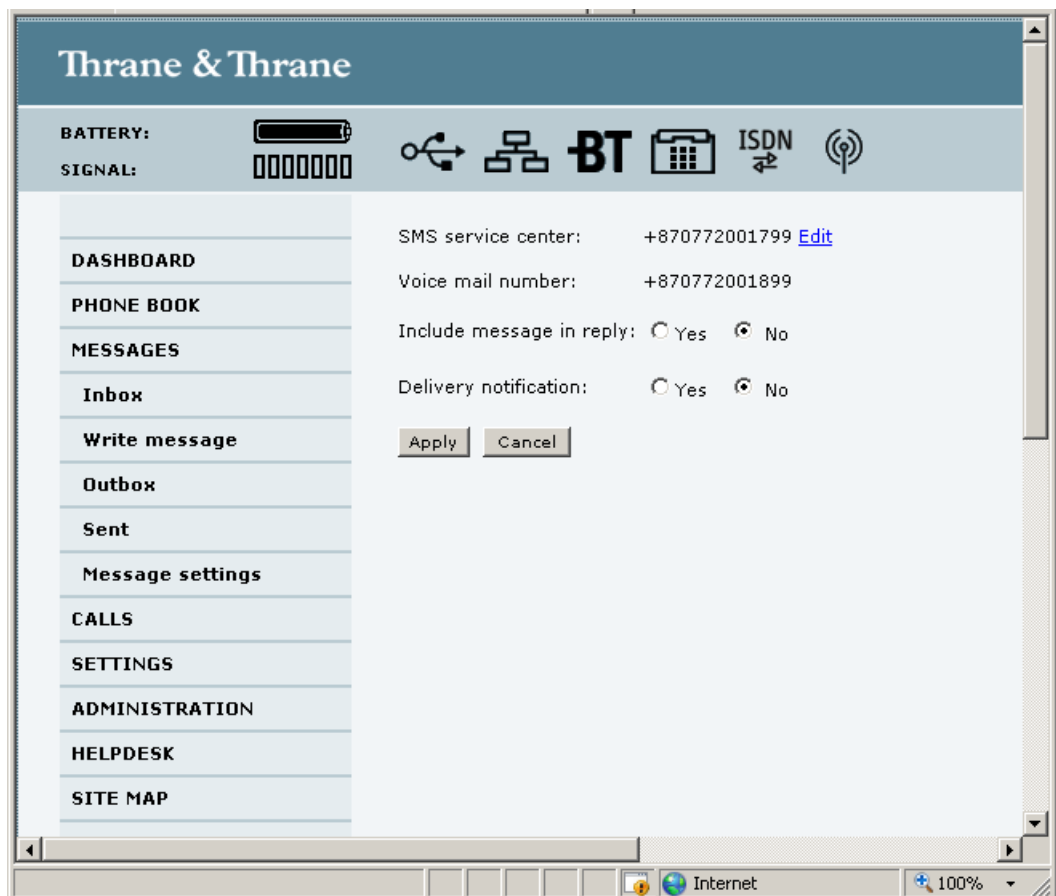
## Configuring message settings

### Setting up the default message options

You can set up general options for your outgoing messages. These settings apply by default to all your outgoing messages. Note, however, that you can change the Delivery notification setting for an individual message. For further information, see *Sending an SMS message from the EXPLORER® 700* on page 99.

Do as follows:

1. Select **MESSAGES > Message settings** from the left navigation pane.



2. If you want to include the original message when you reply, select **Yes** next to **Include message in reply**.
3. Select whether or not you want **Delivery notification** for SMS messages. If you click Yes, the Status column in the Sent folder will show the status of your message when it has been sent.
4. Click **Apply**.

### Viewing or changing SMS service center number

The SMS service center number identifies the SMS service center used when sending and receiving SMS messages. The SMS service center number is stored on the SIM card.

- To see the SMS service center number, select **MESSAGES > Message settings** from the left navigation pane.
- To change the number, click **Edit** next to **SMS service center**, change the number and click **Save**. Then click **Apply** to apply all changes in the page.

The SMS service center number is provided from your Airtime Provider.

### Viewing the Voice mail number

The Voice mail number is the number you call to hear your incoming voice mails.

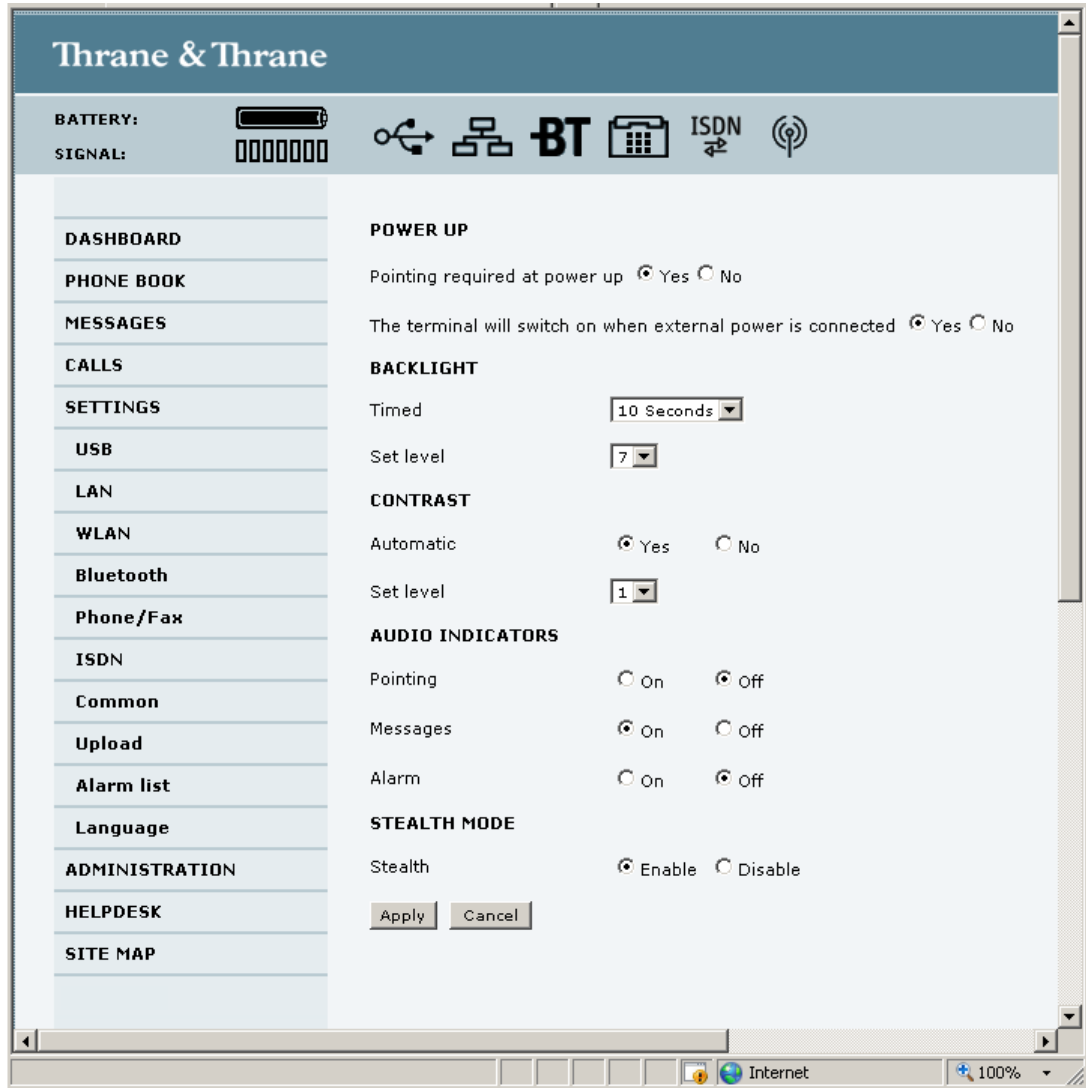
**Note** | The Voice mail number is only listed if it is available on the SIM card. Otherwise, refer to the information included with your Airtime subscription.

To see the Voice mail number, select **MESSAGES > Message settings** from the left navigation pane.

## Setting up the EXPLORER<sup>®</sup> 700

### Accessing the EXPLORER<sup>®</sup> 700 settings

Select **SETTINGS** from the left navigation pane.



The SETTINGS page contains the local settings of the EXPLORER 700. The next sections describe these settings.

## Power up behavior

### Pointing at power up

If the EXPLORER 700 is placed in a fixed position it may not be necessary to go through the pointing process every time the EXPLORER 700 is powered. You can set up the EXPLORER 700 to automatically establish a connection to the BGAN network, if you know that the signal strength is sufficient.

1. In the **Power up** section of the **SETTINGS** page, select whether or not pointing is required at power up.
  - To go through the pointing process every time the EXPLORER 700 is powered, select **Yes**.
  - To have the EXPLORER 700 automatically register itself on the network every time the EXPLORER 700 is powered, select **No**.
2. Click **Apply**.

If you have selected that pointing is not required at power up, the start up procedure will be as follows:

1. Power up.
2. Enter the PIN. After the PIN is entered, the EXPLORER 700 immediately tries to connect to and register on the BGAN network.

### Automatic power up

1. In the **Power up** section of the **SETTINGS** page, select whether or not the EXPLORER 700 should switch on automatically when external power is applied.
  - To have the EXPLORER 700 switch on automatically when external power is applied, select **Yes**.
  - To have the EXPLORER 700 switch on only when the power button is pressed, click **No**.
2. Click **Apply**.

## Setting the display backlight and contrast

To set the display backlight and contrast, do as follows:

1. In the **Backlight** section of the **SETTINGS** page, set the timing.  
The **Timed** period is the period of time the light will stay on after the last key is pressed.
2. Set the level of the backlight with the **Set level** scroll bar.
3. In the **Contrast** section, click **Yes** next to **Automatic** if you want the contrast to be adjusted automatically according to the temperature.  
The contrast of the display changes with the temperature. The EXPLORER 700 can automatically adjust the contrast to compensate for these variations.
4. If you want to set the contrast manually, set the contrast level with the **Set level** scroll bar.
5. Click **Apply**.

## Turning audio indicators on or off

The EXPLORER 700 has audio indicators for different events or situations.

To enable or disable these audio indicators, do as follows:

1. In the **Audio indicators** section of the **SETTINGS** page, turn the audio indicators on or off using the radio buttons. Each audio indicator is explained below.
2. Click **Apply**.

The EXPLORER 700 has audio indicators for the following events:

- **Pointing.**  
The Pointing sound is used during the pointing process. The frequency increases with the signal strength, to help you find the maximum signal strength when pointing the antenna. This setting is a default setting. When the EXPLORER 700 is in pointing mode, you can toggle pointing sound on/off for the current pointing process using ▲ or ▼ on the keypad of the EXPLORER 700. However, the default setting applies at the next pointing process.
- **Messages.**  
The Message indicator is a sound indicating that a message has arrived.
- **Alarm.**  
The Alarm indicator is a sound indicating that an alarm is issued.  
An alarm is issued if the EXPLORER 700 detects an error that requires your action.

## Enabling activation of stealth mode

In Stealth mode, the EXPLORER 700 operates with no sounds nor lights. However, it is still possible to operate the EXPLORER 700 and the display text is, in most cases, readable.

**Important**

Only enable activation of Stealth mode if you are going to use it. If Stealth mode is activated by mistake, it may be difficult to operate the EXPLORER 700.

To enable the use of Stealth mode for the EXPLORER 700, do as follows:

1. Select **SETTINGS** from the left navigation pane.
2. In the **Stealth mode** section, click **Enable**.  
If you click **Disable**, the Stealth mode function cannot be activated.
3. Click **Apply**.

**Note**

This setting does **not** activate Stealth mode, it only enables the use of Stealth mode. To activate Stealth mode, press **C+OK** on the keypad.  
To deactivate Stealth mode and return to normal function, press **C+OK** again.

## Setting up the interfaces

### Enabling/disabling interfaces

By default, all interfaces are enabled. However, you can disable the LAN interface, the Bluetooth interface, the ISDN interface, the WLAN interface and/or the Phone/Fax interface in order to minimize power consumption.

The icons in the Icon bar at the top of the web interface shows interfaces that are enabled. Clicking an icon brings you to the page where you can set up the interface or enable/disable it.

**Note** | The USB interface cannot be disabled; it is always enabled.

To enable or disable an interface from the menu, do as follows:

1. Select **SETTINGS** from the left navigation pane.  
The SETTINGS menu expands.
2. Under **SETTINGS** in the left navigation pane, select the interface you want to enable or disable.
3. At the top of the page, select **Enabled** or **Disabled**.
4. Click **Apply**.

### Description of data settings

#### Introduction

There are several data parameters that can be set up in the web interface. This section gives an overview of these parameters.

#### APN (Access Point Name)

The APN is used by the EXPLORER 700 user to establish the connection to the required external network. This means that the EXPLORER 700 must know the APN in order to be able to connect to the external network.

APNs are provided from the Airtime Provider. They may also be defined on the SIM card.

#### Header compression

The Header of a data packet contains control information belonging to that packet. The information in the Header can take up a considerable amount of bandwidth. In order to save bandwidth, you can use Header Compression, meaning you compress the header information, leaving some of the information out.

You can select whether or not to use Header Compression for your data transmission.

- **Header Compression enabled:** Recommended for low-noise applications.  
If you select Header Compression enabled, you will be using less bandwidth on header

information, leaving more bandwidth for the actual payload.

However, if the environment is noisy, the system will have to retransmit information, and you may end up using more bandwidth than without Header Compression.

- **Header Compression disabled:** Recommended in noisy environments. If Header Compression is disabled, the system will be less sensitive to noise.

### Primary and secondary profiles

A profile is a collection of Quality of Service (QoS) settings and other settings defining the mode in which data is transmitted on an interface. For example, a profile is used to define whether a connection should be a Standard or Streaming connection.

You can select between a number of predefined profiles or define your own profiles for your data transmission.

#### Note

If you have selected more than one profile (one primary and one or more secondary profiles) for an interface, you must define a traffic flow filter before you can establish a valid connection.

In the EXPLORER 700, you need an Administrator password to define profiles and traffic flow filters.

### NAT (Network Address Translation)

NAT enables a local-area network to use one set of private IP addresses for internal traffic and an assigned or static IP address for external traffic. The built-in NAT module in the EXPLORER 700 makes all necessary address translations between the local-area traffic and the external traffic. If more than one LAN or WLAN user is connected to the EXPLORER 700, you must select **Router mode** to use the NAT of the EXPLORER 700.

If more than two users should be connected to the LAN interface of the EXPLORER 700, it is necessary to use a switch, as the EXPLORER 700 only has two LAN connectors.



## Configuring the USB interface

**Note** The USB interface cannot be disabled; it is always enabled.

For an explanation of each of the data settings, see *Description of data settings* on page 109.

To configure the USB interface, do as follows:

1. Select **SETTINGS > USB**.

**Thrane & Thrane**

BATTERY: SIGNAL:

USB LAN BT ISDN

**DASHBOARD**

**PHONE BOOK**

**MESSAGES**

**CALLS**

**SETTINGS**

**USB**

**LAN**

**WLAN**

**Bluetooth**

**Phone/Fax**

**ISDN**

**Common**

**Upload**

**Alarm list**

**Language**

**ADMINISTRATION**

**HELPDESK**

**SITE MAP**

**INTERFACE STATUS**

USB interface Enabled

**TCP/IP**

Dynamic IP address

Static IP address  .  .  .

IP Header compression  Enabled  Disabled

**APN**

Common

SIM default

Network assigned

User defined

User name

Password

**PROFILES**

Primary

Secondary

**PROFILE CIDS**

Profile	Cid
Standard	1

2. Under **TCP/IP**, select **Dynamic IP address**.

This is the IP address used externally on the satellite network.

If you want to use a static IP address, and your subscription allows it, you must still leave this setting at **Dynamic**. Then select **SIM default** in step 4 and type in the **APN** user name and password from your provider in step 5

Your terminal will then use the static IP address set up for your SIM card.

**Note** | Typing in a static IP address is currently not supported by the BGAN network.

3. Under **IP Header compression**, select **Enabled** or **Disabled**. For information on this setting, see *Header compression* on page 109.

4. Select the source of the **APN**.

There are four options for setting the APN. Unless you have special requirements, it is recommended to use the SIM default, or to set the common APN to SIM default, and then select Common here. You have the following options:

- **Common**. The APN is taken from the Common settings defined under **SETTINGS > Common**. Refer to *Setting the common interface settings* on page 130.
- **SIM default**. The APN is taken from the SIM card.
- **Network assigned**. The APN is assigned from the network.
- **User defined**. Type in the APN. APNs are provided from the Airtime Provider.

5. If your APN uses a password, type in the user name and password provided from the Airtime Provider.

**Note** | If you are going to use the static IP address from your SIM card, the user name and password are mandatory! See step 2 above.

6. Select the **Primary profile**.

Select a profile from the scroll list. This profile is used by the USB interface as a first choice, when possible.

**Important** | If you have selected a Streaming connection as your Primary profile, the USB interface will be running a Streaming connection until you stop it or disconnect the interface. However, if you select one or more Secondary profiles, you can set up your traffic flow filter so that it will only use the Streaming profile for certain types of traffic.

There are 5 predefined profiles: Standard, Streaming 32 kbps, Streaming 64 kbps, Streaming 128 kbps and Streaming 265 kbps. Additionally, you can define your own custom profiles. For further information on profiles and traffic flow filters, see *Using profiles* on page 146 and *Using traffic flow filters* on page 149.

7. Select the **Secondary profile**.

To select more than one secondary profile, press and hold Ctrl while selecting.

**Note** | If you have selected both a Primary and one or more Secondary profiles you must define a traffic flow filter before you can establish a valid connection.

The Context Identifiers (CIDs) for the selected primary and secondary profiles are listed under **profile CIDs**. You may need these CIDs when you create a dial-up connection. See *Creating a dial-up connection* on page 80.

8. Click **Apply**.

## Configuring the LAN interface

### Data settings

For an explanation of each of the data settings, see *Description of data settings* on page 109.



**CAUTION!** All connections to the LAN interface may be affected when you change the settings below. This also includes your own current connection.

All LAN settings, except enabling/disabling the interface, also apply to the WLAN interface.

To configure the LAN interface, do as follows:

1. Select **SETTINGS > LAN**.

The screenshot shows the Thrane & Thrane web interface. The top navigation bar includes BATTERY, SIGNAL, and various connectivity icons (USB, LAN, BT, ISDN, etc.). The left sidebar lists menu items: DASHBOARD, PHONE BOOK, MESSAGES, CALLS, SETTINGS, USB, LAN, WLAN, Bluetooth, Phone/Fax, ISDN, Common, Upload, Alarm list, Language, ADMINISTRATION, HELPDESK, and SITE MAP. The main content area is titled 'INTERFACE STATUS' and contains the following settings:

- INTERFACE STATUS:** LAN interface  Enabled  Disabled
- NAT/DHCP:** NAT mode  Router mode  Modem mode. A red note below states: "Changes to NAT mode only take effect after reboot".
- DHCP status:**  Enabled  Disabled
- Local IP address:** 192 . 168 . 0 . 1
- Netmask:** 255 . 255 . 255 . 0
- TCP/IP:**  Dynamic IP address,  Static IP address (with empty input fields).
- IP Header compression:**  Enabled  Disabled
- APN:**  Common,  SIM default,  Network assigned,  User defined (with input field containing "bgan.inmarsat.com").
- User name:** [Empty input field]
- Password:** [Empty input field]

The bottom status bar shows "Done" on the left and "Internet" with a 100% zoom level on the right.

2. Select whether the LAN interface should be **Enabled** or **Disabled**.
3. Under **NAT mode**, select whether the EXPLORER 700 should run in Router mode or in Modem mode. Router mode is recommended for most purposes.
  - Select **Router mode** if one or more computers are connected using the LAN interface, and the EXPLORER 700 should act as a router. When Router mode is selected, the EXPLORER 700 uses the built-in NAT module for making the necessary address translations.
  - Select **Modem mode** if
    - only one computer is connected to the LAN interface, and the EXPLORER 700 should act as a modem, or
    - more than one computer is connected to the LAN interface using an external router.

**Note**

Do **not** connect more than one computer to the LAN interface in Modem mode, unless you have an external Router.

4. Under **DHCP status**, enable or disable DHCP.
  - If you select **Enabled**, the terminal assigns dynamic IP addresses to devices connected to the terminal.
  - If you select **Disabled**, you need to set up a static IP address in the connected device.
5. If you want to change the **Local IP address** and the **Netmask**, type in the new address and netmask.  
The Local IP address is the IP address of the terminal. It is used for accessing the web interface. By default, the address is 192.168.0.1 and the netmask is 255.255.255.0.
6. Under **TCP/IP**, select **Dynamic IP address**.  
This is the IP address used externally on the satellite network.  
If you want to use a **static IP address**, and your subscription allows it, you must still leave this setting at **Dynamic**. Then select **SIM default** in step 8 and type in the APN user name and password from your provider in step 9  
Your terminal will then use the static IP address set up for your SIM card.
7. Under **IP Header compression**, select **Enabled** or **Disabled**. For information on this setting, see *Header compression* on page 109.
8. Select the source of the **APN** (Access Point Name).  
There are four options for setting the APN. Unless you have special requirements, it is recommended to use the SIM default, or to set the common APN to SIM default, and then select Common here. You have the following options:
  - **Common**. The APN is taken from the Common APN defined under **SETTINGS > Common**. Refer to *Setting the common interface settings* on page 130.
  - **SIM default**. The APN is taken from the SIM card.
  - **Network assigned**. The APN is assigned from the network.
  - **User defined**. Type in the APN. APNs are provided from the Airtime Provider.

- If your APN uses a password, type in the user name and password provided from the Airtime Provider.

**Note** If you are going to use the static IP address from your SIM card, the user name and password are mandatory! See step 6 above.

- Select Automatic activation **Enabled** or **Disabled**.

**Note** If the selected Primary profile is a Streaming profile, automatic activation cannot be enabled. Streaming profiles must always be activated manually from the Dashboard.

For non-Streaming profiles:

- select **Disabled** to be able to control activation of the profile manually from the Dashboard.
- Select **Enabled** to activate the profile automatically as soon as a connection can be established. Note that this connection will stay active until you stop it (e.g. from the Dashboard or from the display CONNECT menu) or disconnect the interface.

**PROFILES**

Automatic activation  Enabled  Disabled

Primary Standard

Secondary Standard

**PROFILE CIDS**

Profile	Cid
Standard	1

Apply Cancel

- Select the **Primary** profile.

Select a profile from the Primary scroll list. This profile is used by the LAN interface as a first choice, when possible.

There are 5 predefined profiles: Standard, Streaming 32 kbps, Streaming 64 kbps, Streaming 128 kbps and Streaming 256 kbps. Additionally, you can define your own custom profiles.

**Important** If you have selected and started a Streaming connection as your Primary profile, the LAN interface will be running a Streaming connection until you stop it or disconnect the interface. However, if you select one or more Secondary profiles, you can set up your traffic flow filter so that it will only use the Streaming profile for certain types of traffic.

For further information on profiles and traffic flow filters, see *Using profiles* on page 146 and *Using traffic flow filters* on page 149.

- Select the **Secondary** profile.  
To select more than one secondary profile, press and hold **Ctrl** or **Shift** while selecting.

**Note**

If you have selected both a Primary and one or more Secondary profiles you must define a traffic flow filter before you can establish a valid connection.

The Context Identifiers (CIDs) for the selected primary and secondary profiles are listed under **Profile CIDs**.

- Click **Apply**.

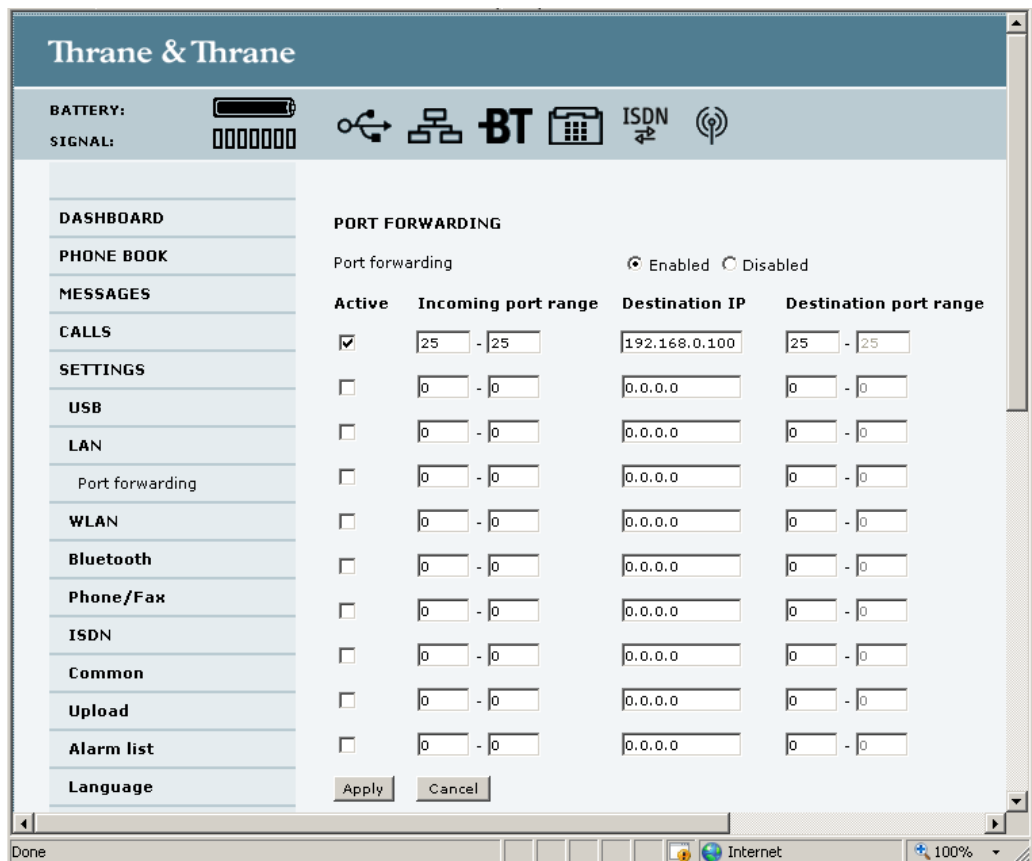
## Port forwarding

Port forwarding enables you to set up a server connected to the EXPLORER 700 while the terminal is in Router mode. Without port forwarding it would not be possible to contact the server from the Internet.

For information on how to set the terminal in Router mode, see *Configuring the LAN interface* on page 114.

The following example shows how to allow Internet access to a mail server (smtp) connected to the terminal. The mail server in this example has the IP address 192.168.0.100.

- Select **LAN > Port forwarding** in the left navigation pane.



2. Select **Enabled** to generally enable port forwarding.
3. Type in the **Incoming port range**.
4. Type in the **Destination IP** address, which in this example is the IP address of the mail server: 192.168.0.100.
5. Type in the **Destination port range**.
6. Repeat step 3 to step 5 to set up port forwarding to additional servers.
7. In the **Active** column, select which ports should have port forwarding activated.
8. Click **Apply**.

You can now access the mail server from the Internet, using the external IP address of the EXPLORER 700.

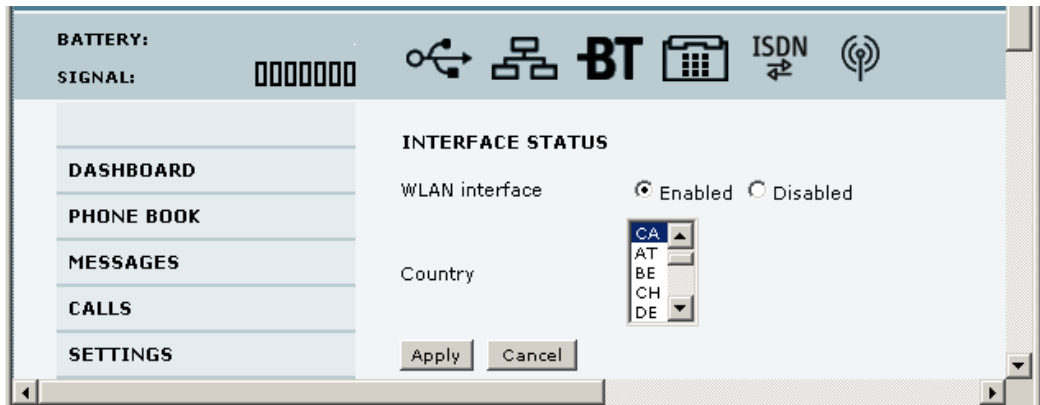


## Configuring the WLAN interface

Note that the settings from the LAN page, except Enabled/Disabled, also apply for the WLAN interface. See *Configuring the LAN interface* on page 114.

To configure the WLAN interface, do as follows:

1. Select **SETTINGS > WLAN**.



2. Select whether the WLAN interface should be **Enabled** or **Disabled**.
3. Select the **Country code** for your present location.

**Note** The country code must be entered before you can continue with the WLAN configuration and/or use the WLAN interface.

The list below explains the country codes.

Code	Country
US	USA
TW	Taiwan
CA	Canada
AT	Austria
BE	Belgium
CH	Switzerland
DE	Germany
DK	Denmark
ES	Spain
FI	Finland
FR	France
GB	United Kingdom
GR	Greece
HU	Hungary
IE	Ireland

Code	Country
IS	Iceland
LI	Liechtenstein
IT	Italy
LU	Luxembourg
NL	Netherlands
NO	Norway
PL	Poland
PT	Portugal
SE	Sweden
JP	Japan
IL	Israel
SG	Singapore
KR	Korea
CN	China
XX	Other countries with WLAN license

The XX country code is to be used for countries that are not yet in the list, but where WLAN is licensed. The settings of the XX country code correspond to the most restrictive settings of the other country codes.

**Note** In some countries, the use of WLAN is not allowed. Before continuing, make sure WLAN is allowed and licensed in the country where you intend to use it.

4. Click **Apply**.



5. Select the **Channel number** used for communication on the WLAN interface.
6. Next to **Broadcast SSID**, select **Enabled** or **Disabled**.

If you select **Enabled** your WLAN access point is shown to other users.

If you select **Disabled** your WLAN access point is hidden.

7. Type in the **SSID**.

The SSID is a max. 32 character text identifying the wireless local area network. All wireless devices on a WLAN must use the same SSID in order to communicate with each other. The default SSID is **EXPLORER 700**.

8. Select the **WLAN mode**.

The WLAN mode can be 802.11a (5 GHz) or 802.11b/g (2.4 GHz).

Note that the settings available depend on the entered country code. Also, in some countries the 5 GHz mode is restricted to indoor use.

9. Select the **Security** standard. You may select one of the following encryption standards:

- None (no encryption is applied)
- WEP-40/64
- WEP-104/128
- WPA-TKIP
- WPA2-AES

10. Select **Hexadecimal** or **Text** next to **Key type**.

The encryption key must normally be a hexadecimal code. However, if you are using WPA or WPA2 encryption you can choose to use a text string, which may be easier to memorize.

11. Type in the **Encryption key** for the selected Security standard (not applicable if security mode = None).

12. Select **Enabled** or **Disabled** next to MAC address filters.

If you select **Enabled**, you can set up a list of MAC addresses that are allowed access to your WLAN. Any device whose MAC address is not on the list will be denied access.

If you select **Disabled**, there will be no restrictions on MAC addresses.

13. If you have enabled MAC address filters, type in the **Allowed MAC addresses**.

The list may contain up to 10 MAC addresses.

14. Click **Apply**.

## Configuring the Bluetooth interface

For an explanation of each of the data settings, see *Description of data settings* on page 109.

To configure the Bluetooth interface, do as follows:

1. Select **SETTINGS > Bluetooth**.

The screenshot shows the web interface for configuring the Bluetooth interface. The left sidebar contains a navigation menu with the following items: DASHBOARD, PHONE BOOK, MESSAGES, CALLS, SETTINGS, USB, LAN, WLAN, Bluetooth, Paired Devices, Add Device, Phone/Fax, ISDN, Common, Upload, Alarm list, Language, ADMINISTRATION, HELPDESK, and SITE MAP. The main content area is titled "INTERFACE STATUS" and contains the following settings:

- INTERFACE STATUS**
  - Bluetooth interface:  Enabled  Disabled
  - Country: Other (dropdown)
  - Device Name: EXPLORER 700 (text input)
  - Default Passkey: 05740509 (text input)
  - Visibility: Show (dropdown)
- BLUETOOTH VOICE DEVICES**

Phone	Incoming calls	Outgoing calls
0201	<input checked="" type="checkbox"/> Standard <input checked="" type="checkbox"/> 3.1 kHz Audio	<input checked="" type="radio"/> Standard <input type="radio"/> 3.1 kHz Audio
- BLUETOOTH LAN DEVICES**
  - IP Header compression:  Enabled  Disabled
- TCP/IP**
  - Dynamic IP address
  - Static IP address: . . . .
- APN**
  - Common
  - SIM default
  - Network assigned
  - User defined: BGAN.INMARSAT.COM (text input)
- PROFILES**
  - Primary: Standard (dropdown menu showing: Standard, Streaming 32, Streaming 64, Streaming 128, Streaming 256, User defined 1, User defined 2)
  - Secondary: None (dropdown menu showing: None, Standard, Streaming 32, Streaming 64, Streaming 128, Streaming 256, User defined 1, User defined 2)

2. Under **BLUETOOTH VOICE DEVICES**, set the call type for incoming and outgoing calls. All paired voice devices are listed with their local phone numbers. Call types are described in more detail in *Selecting the call type* on page 57.
  - For **Incoming calls**, you can check Standard or 3.1 kHz Audio or both. If you check both, the voice device will react (ring) on incoming calls. If you select e.g. Standard, the voice device will only react on calls made to the Standard phone number.

- For **Outgoing calls**, you can select either Standard or 3.1 kHz Audio. The selected type will be used by default, if possible, for any outgoing call. Note, however, that fax machines and modems must use 3.1 kHz Audio.

**Note** You can override the default setting for outgoing calls by dialing 1\* (force a Standard call) or 2\* (force a 3.1 kHz Audio call) before the number. For further information, see *Overriding the default outgoing call type* on page 57.

3. For **data devices**, the settings are listed under the Bluetooth profile that is used (**Dial-up network** or **LAN**). The next steps describe the settings available under a Bluetooth profile.
4. Under **IP Header compression**, select **Enabled** or **Disabled**.  
For information on Header Compression, see *Header compression* on page 109.
5. Under **TCP/IP**, select whether your computer uses a **Dynamic IP address** or a **Static IP address**. This is the IP address used externally on the satellite network.  
If you want to use a **static IP address**, and your subscription allows it, you must still leave this setting at **Dynamic**. Then select **SIM default** in step 6 and type in the APN user name and password from your provider in step 7.  
Your terminal will then use the static IP address set up for your SIM card.
6. Under **APN**, select the source of the APN (Access Point Name).  
There are four options for setting the APN. Unless you have special requirements, it is recommended to use the SIM default, or to set the common APN to SIM default, and then select Common here. You have the following options:
  - **Common**. The APN is taken from the Common APN defined under **SETTINGS > Common**. Refer to *Setting the common interface settings* on page 130.
  - **SIM default**. The APN is taken from the SIM card.
  - **Network assigned**. The APN is assigned from the network.
  - **User defined**. Type in the APN. APNs are provided from the Airtime Provider.
7. If your APN uses a password, type in the user name and password provided from the Airtime Provider.

**Note** If you are going to use the static IP address from your SIM card, the user name and password are mandatory! See step 5 above.

8. Select the **Primary** profile.  
Select a profile from the scroll list. This profile is used by the Bluetooth interface as a first choice, when possible.  
There are 5 predefined profiles: Standard, Streaming 32 kbps, Streaming 64 kbps, Streaming 128 kbps and Streaming 256 kbps. Additionally, you can define your own custom profiles.

**Important** If you have selected a Streaming connection as your Primary profile, the Bluetooth interface will be running a Streaming connection until you select another profile or turn off the interface. However, you can set up your traffic flow filter so that it will only use this profile for certain types of traffic.

For further information on profiles and traffic flow filters, see *Using profiles* on page 146 and *Using traffic flow filters* on page 149.

9. Select the **Secondary** profile.

**Note** If you have selected both a Primary and one or more Secondary profiles you must define a traffic flow filter before you can establish a valid connection.

10. Click **Apply**.

## Pairing Bluetooth devices from the web interface

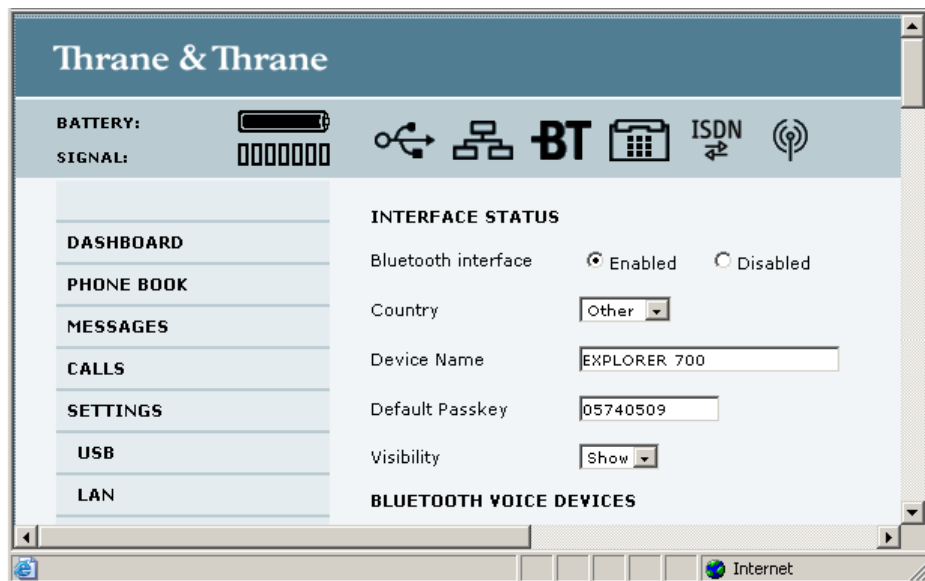
### What is pairing?

Bluetooth Pairing happens when two Bluetooth enabled devices agree to communicate with one another. When this happens, the two devices exchange passkeys and join a pair. The pairing process only takes place the first time the two devices are connected. Once the two devices have established a pair, they automatically accept communication when one device recognizes the other device.

### Preparing the EXPLORER<sup>®</sup> 700 for Bluetooth pairing

To prepare the Bluetooth interface on the EXPLORER 700, do as follows:

1. Connect a computer to the EXPLORER 700, e.g. using the LAN interface.
2. Access the web interface from your connected computer.  
Refer to *The web interface* on page 85.
3. In the web interface, select **SETTINGS** > **Bluetooth** and make sure that Bluetooth is **Enabled**.



4. If your EXPLORER 700 is located in France, select **France** in the **Country** list. Otherwise, select **Other**.
5. Use the predefined **Device name** or type in a new name for your EXPLORER 700. The Device name is shown to other Bluetooth devices, if the EXPLORER 700 is configured to be shown (refer to step 7 below).
6. Use the predefined **Default passkey** or type in a new one. This passkey is used by default when pairing devices with the EXPLORER 700.
7. Next to **Visibility**, select **Show** or **Hide**.
  - If you select **Show**, the device name of the EXPLORER 700 is shown to other Bluetooth devices that are searching for devices.
  - If you select **Hide**, other Bluetooth devices will not see the EXPLORER 700.
8. Click **Apply** at the bottom of the page.

### Pairing from your Bluetooth device

For information on how to pair devices from your Bluetooth device, see *Pairing devices in which you can enter a passkey* on page 34.

### Pairing devices with a fixed passkey

Some Bluetooth devices, such as headsets, do not provide the possibility to enter a passkey for connecting to another device. These devices have a fixed passkey which must be entered on the other device. This section describes how to pair such devices with the EXPLORER 700.

**Note**

The method for pairing devices may vary depending on your Bluetooth device. Consult your Bluetooth device documentation for information.

Do as follows to pair the devices:

1. Connect a computer to the EXPLORER 700, e.g. using the LAN interface.
2. Start up the EXPLORER 700. Refer to *Getting started* on page 13.
3. Turn on Bluetooth on your Bluetooth device and place it close to the EXPLORER 700.
4. Access the web interface from your connected computer. For further information, see *The web interface* on page 85.
5. Select **SETTINGS > Bluetooth** and make sure that Bluetooth is **Enabled**.
6. From the left menu of the Bluetooth page, select **Add device**. Note that you can pair maximum 7 devices. If you have already paired 7 devices, you have to unpair a device before you can pair a new one. See *Unpairing devices* on page 126.
7. Click **Search**.

The EXPLORER 700 now searches for Bluetooth devices.

**Note** | The search procedure can take up to 2-3 minutes. The list is not updated dynamically. Click **Update** to see new found devices.

8. Click **Update**.
9. When the device you want to pair appears in the list, click **Pair** next to the device.
10. Enter the passkey of your Bluetooth device.  
The default passkey for a Bluetooth headset is often 0000. Otherwise, refer to the manual for your Bluetooth device.
11. When you are prompted from the Bluetooth device, usually by a tone, press the button on the device to accept pairing.

The new device should now be paired with the EXPLORER 700 and added to the list of Paired devices. This list is accessed from the left menu of the Bluetooth page in the web interface.

As long as the Bluetooth device is in the list of Paired devices, you can always reconnect the device to the EXPLORER 700 without further setup.

### Viewing paired devices

To see a list of devices that are paired with the EXPLORER 700, do as follows:

1. Access the web interface.  
Refer to *The web interface* on page 85.
2. Select **SETTINGS > Bluetooth > Paired devices**.

The list shows all devices that are paired with the EXPLORER 700. You can see the name, Class of Device, status (whether or not a device is currently connected) and local phone number.

You can also see paired devices in the display. Select **PROPERTIES > BLUETOOTH DEVICES** in the display menu system to see a list of all paired devices.

### Unpairing devices

To remove a device from the list of Paired devices, do as follows:

1. Access the web interface and select **SETTINGS > Bluetooth > Paired devices**.
2. In the **Paired devices** list, click **Unpair** next to the device you want to remove.

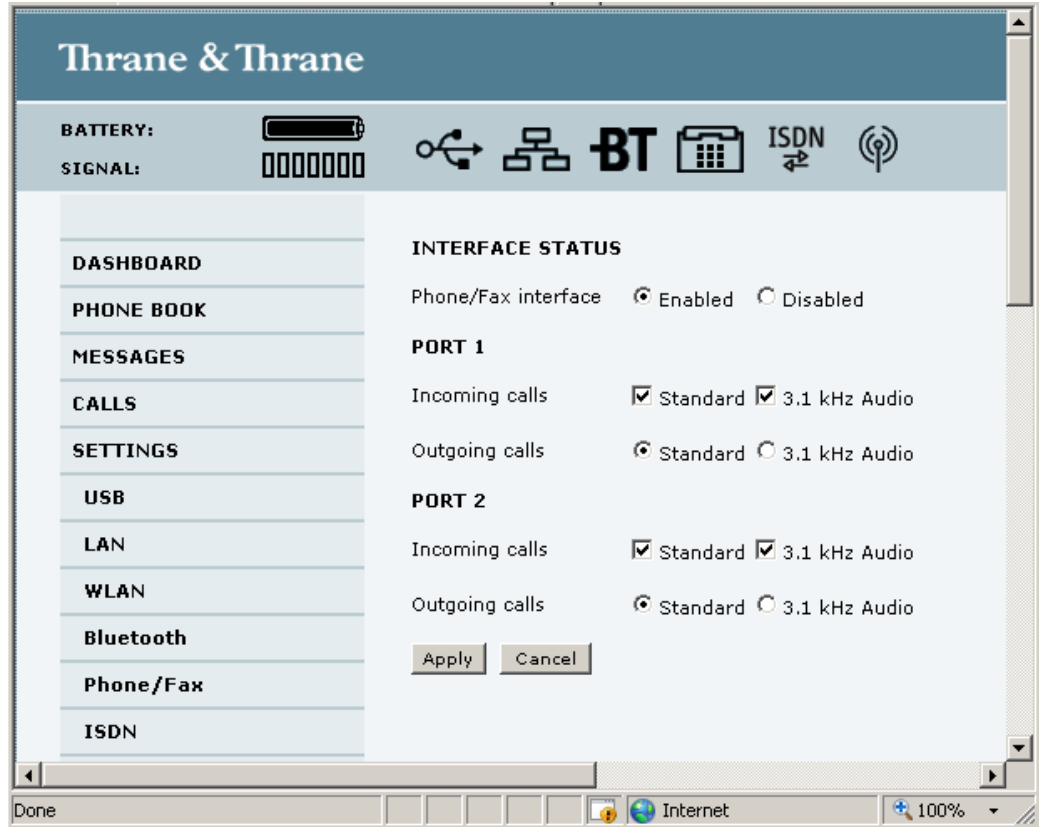
When the device is removed from the list, you have to pair it with the EXPLORER 700 again to make a connection.



## Configuring the Phone/Fax settings

Do as follows:

1. Select **SETTINGS** > **Phone/Fax** from the left navigation pane.



2. Select **Enabled** or **Disabled** to enable/disable the Phone/Fax interface.
3. Set the call type for incoming and outgoing calls.  
Call types are described in more detail in *Selecting the call type* on page 57.
  - For **Incoming calls**, you can check Standard or 3.1 kHz Audio or both. If you check both, any device connected to the Phone/Fax interface will react (ring) on incoming calls. If you select e.g. Standard, the Phone/Fax interface will only react on calls made to the Standard phone number.
  - For **Outgoing calls**, you can select either Standard or 3.1 kHz Audio. The selected type will be used by default, if possible, for any outgoing call. Note, however, that fax machines and modems must use 3.1 kHz Audio.

**Note** You can override the default setting for outgoing calls by dialing 1\* (force the call to Standard) or 2\* (force the call to 3.1 kHz Audio) before the number. For further information, see *Overriding the default outgoing call type* on page 57.

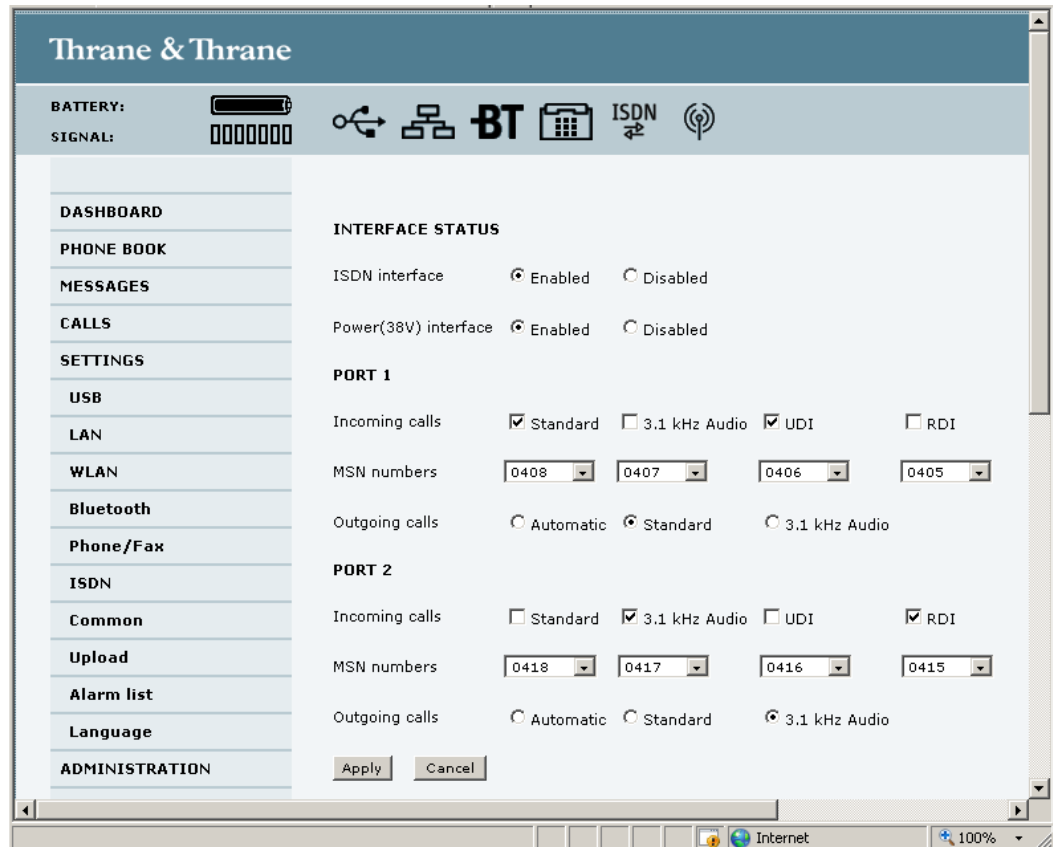
4. Click **Apply**.

## Configuring the ISDN interface

**Note** For information on how to set up call services (supplementary services), see *Setting up call services* on page 132. These settings apply to both the Phone/Fax interface and the ISDN interface.

To configure the ISDN interface, do as follows:

1. Select **SETTINGS > ISDN**.



2. Select whether the ISDN interface should be **Enabled** or **Disabled**.
3. Select whether the 38 V power output of the ISDN interface should be **Enabled** or **Disabled**. If the connected ISDN device is self-powered, you should disable 38 V power.
4. For each ISDN port, set the call type(s) for incoming calls. You can select Standard, 3.1 kHz Audio, UDI and/or RDI.

**Note** Connected devices will only receive incoming calls with the call types that are selected here. For example, if only Standard is selected for port 1, and a G4 fax call (using call type UDI) arrives, a fax connected to port 1 will not receive the incoming call.

5. For each ISDN port, set the MSN numbers that are to be assigned to each call type.

Note that this setting only applies to the call type selected above the MSN number, and only if the connected device supports the call type used.

**Important** If you set an MSN number to anything other than <None>, all connected devices must be programmed with MSN numbers.

You have the following options with the MSN numbers:

- **<None>**. No MSN numbers are used. An incoming call is accepted in all devices connected to this port.
- **1\*, 2\*, 3\* or 4\***: If, for example, you select 1\* at Standard call type for port 1, an incoming Standard call is accepted by all devices on port 1 that are programmed with the number 1\*.
- **0401...0408**: These are local numbers for separate devices connected to port 1.  
**0411...0418**: These are local numbers for separate devices connected to port 2.  
An incoming call is accepted by devices that are programmed with the selected number and connected to the correct port.

You can combine the MSN settings.

**Example:** You have two devices connected to the same port. One is programmed with the numbers 1\* and 0401, the other is programmed with 1\* and 0402. In the web interface, you select the MSN number 1\* under Standard. If an incoming Standard call arrives, both devices will accept the call. If you make a local call to one of the local numbers 0401 or 0402, only the called device will accept the call.

6. For each ISDN port, set the call type for outgoing calls.
  - If you select **Automatic**, the call type will be determined by the calling device.
  - If you select **Standard**, all outgoing calls, except UDI/RDI, will use the call type Standard. If you make a 3.1 kHz Audio call it will be converted to a Standard call. UDI or RDI sessions will be not be influenced by this setting.
  - If you select **3.1 kHz Audio**, all outgoing calls, except UDI/RDI, will use the call type 3.1 kHz Audio. If you make a Standard call it will be converted to a 3.1 kHz Audio call. UDI or RDI sessions will be not be influenced by this setting.

**Note** You can override the call type setting for outgoing calls by dialing one of the following prefixes before the number:

- 1\* (force the call to Standard)
- 2\* (force the call to 3.1 kHz Audio)

Refer to *Overriding the default outgoing call type* on page 57.

7. Click **Apply**.

## Setting the common interface settings

### Overview

The settings under COMMON are available for all interfaces. Note, however, that in order to use the common Access Point Name for an interface, you must select **Common** for the **APN** setting when setting up the interface.

### Definition of Access Point Name (APN)

APNs are provided from the Airtime Provider. They may also be defined on the SIM card.

The APN is used by the network user to establish a connection to the required external network. This means that the terminal must know the APN in order to be able to connect to the external network.

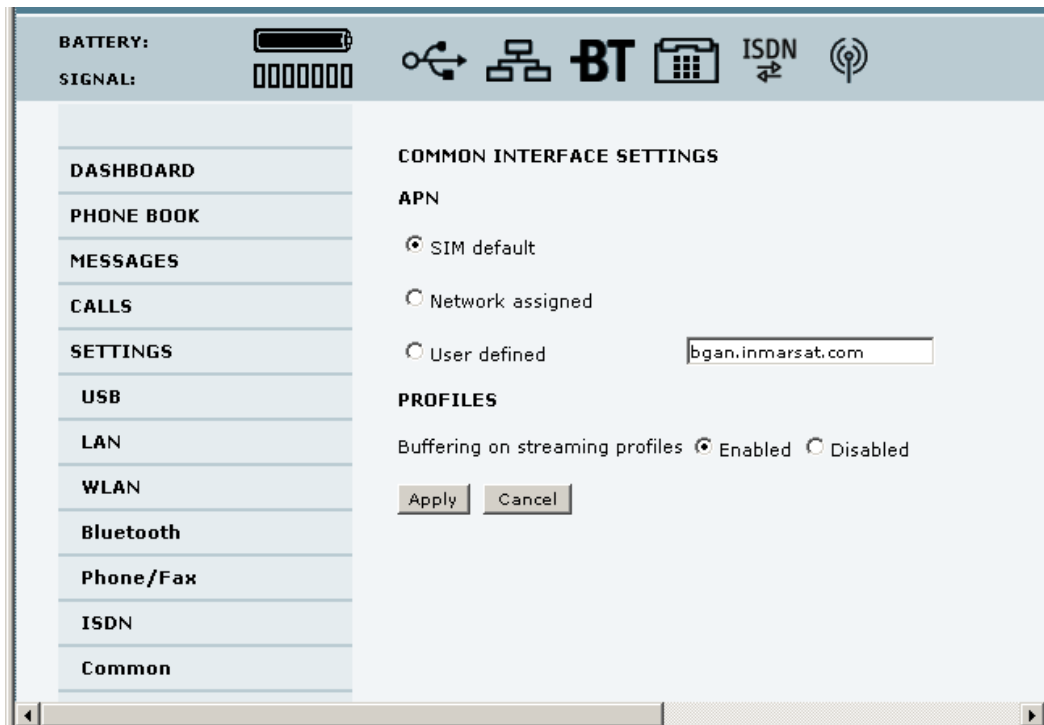
### The common APN

The common APN setting is defined here and can be selected for each data interface. If you are using the same APN for more interfaces, it is easier to define it once, and then simply select it for the relevant interfaces. Also, if you change the common APN at a later stage, it is automatically updated for all interfaces where the Common setting is selected.

### Setting the common interface settings

To set up the common interface settings, do as follows:

1. Select **SETTINGS > Common**.



2. Select the **APN**. You have the following options:
  - **SIM default**. The APN is taken from the SIM card. This is the recommended option, unless you have special requirements.
  - **Network assigned**. The APN is assigned from the network.
  - **User defined**. Type in the APN. APNs are provided from the Airtime Provider.
3. At **Buffering on Streaming profiles**, select **Enabled** or **Disabled**.
  - If you select **Enabled**, your Streaming connection will be buffered. This means that the transmission is slightly delayed in order to ensure a precise and continuous data stream.
  - If you select **Disabled**, your Streaming connection will not be buffered. This means the data is delivered immediately, but may vary slightly in transmission speed.
4. Click **Apply**.

### How to use the common APN

When you configure the APN for your individual interface, select **Common** to use the setting from this page.

Where Common is selected in the individual interface settings, the setting will automatically be updated when the Common APN is changed.

## Setting up call services

### Overview

The setup of call services apply to all connected devices using a circuit-switched service.

**Note** The EXPLORER 700 must be registered on the BGAN network before you can set up the call services in the web interface.

In the web interface you can set up the following supplementary services:

- Call forwarding
- Call barring
- Call waiting
- Line identification
- Closed user group

Note that, depending on the network, some of these call service settings may prevent others from being activated.

## Call forwarding

You can forward incoming calls to another phone number. Do as follows:

1. Select **SETTINGS > Common > Call forward** from the left navigation pane.

2. For each call type, select **Enabled** next to the situation(s) in which you want to forward incoming calls.
3. Next to the enabled items, type in the phone number you want to forward the call to.
4. If you have selected **Forward if no reply**, select from the drop-down list the period of time the system should wait before forwarding the call.
5. Click **Apply**.

## Call barring

You can bar incoming and/or outgoing calls to and from the EXPLORER 700.

Do as follows:

1. Select **SETTINGS > Common > Call barring** from the left navigation pane.



2. Click **OK** next to **Read current settings**, to make sure the page is updated.
3. For each call type, select which calls should be barred.
4. In the **Barring PIN** field at the bottom, type in the PIN for your call barring setup.

**Note** This is **not** the SIM PIN entered at startup, but a second PIN which is supplied together with your SIM PIN.

5. Click **Apply**.

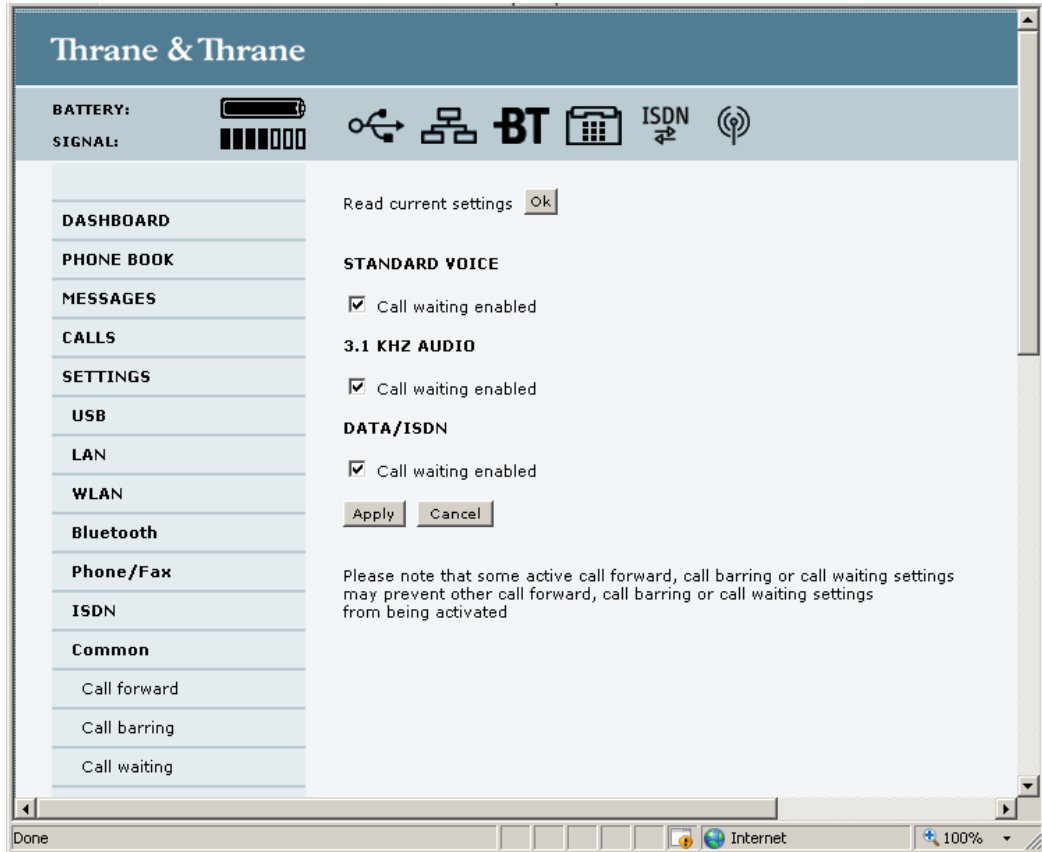


## Call waiting

You can set up whether or not you want to receive notification of waiting calls while you are making a call or transmitting data on the Phone/Fax interface.

Do as follows:

1. Select **SETTINGS > Common > Call waiting** from the left navigation pane.



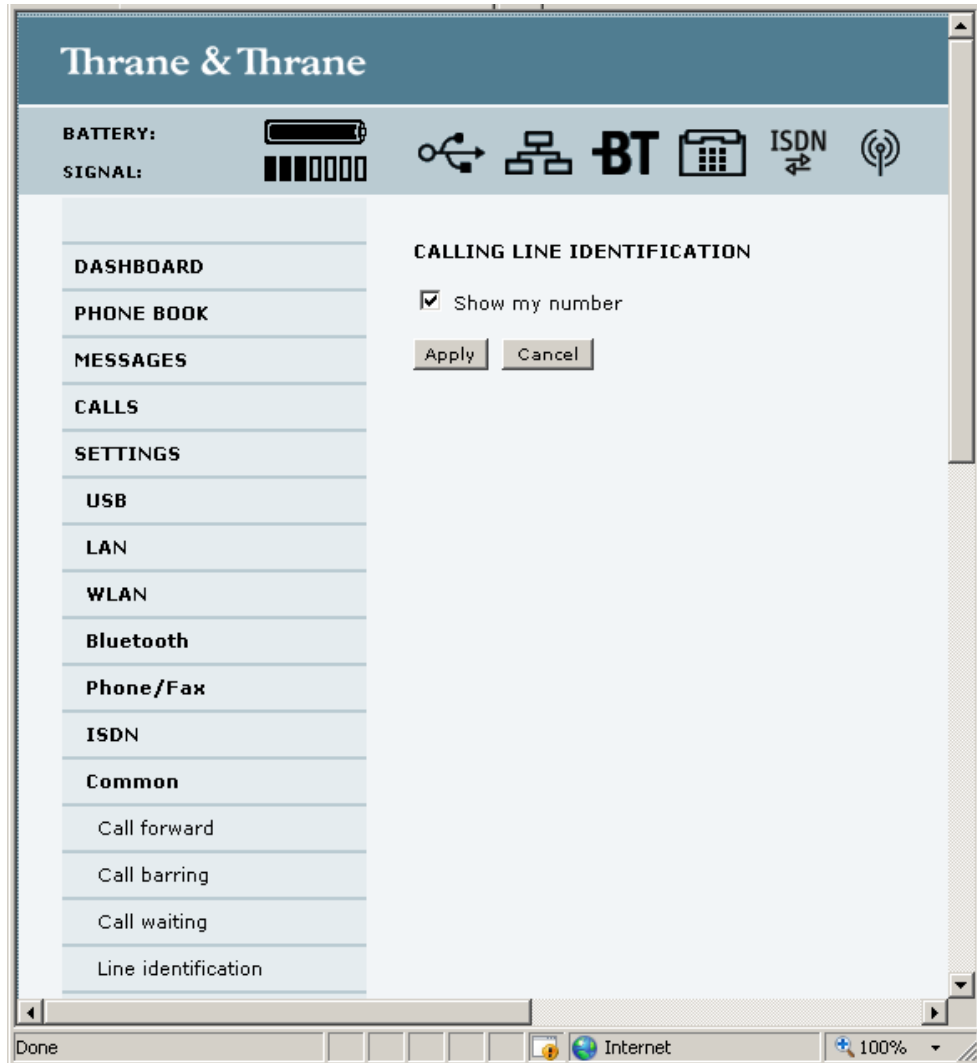
2. Click **OK** next to **Read current settings** to make sure the page is updated.
3. For each call type, select **Call waiting enabled** if you want to get notification of waiting calls while you are making a call or transmitting data on the Phone/Fax interface.
4. Click **Apply**.

## Line identification

You can set up the terminal to show your number when you are making a call or transmitting data on the Phone/Fax interface.

Do as follows:

1. Select **Settings > Common > Line identification** from the left navigation pane.



2. Select **Show my number** and click **Apply**.

## Closed user group

Your subscription may include one or more closed user groups. A closed user group is a group of users permitted to make calls to each other but not to users outside the group.

To define the settings for these user groups, do as follows:

1. Select **Settings > Common > Closed user group** from the left navigation pane.

The screenshot shows the 'Closed user group' configuration page. The left navigation pane includes: DASHBOARD, PHONE BOOK, MESSAGES, CALLS, SETTINGS, USB, LAN, WLAN, Bluetooth, Phone/Fax, ISDN, Common, Call forward, Call barring, Call waiting, Line identification, Closed user group, Upload, and Alarm list. The 'Closed user group' section contains the following table:

GROUPS	Group index	Active	Group no.
	0	<input type="radio"/>	<input type="text" value="0"/>
	1	<input type="radio"/>	<input type="text" value="0"/>
	2	<input type="radio"/>	<input type="text" value="0"/>
	3	<input type="radio"/>	<input type="text" value="0"/>
	4	<input type="radio"/>	<input type="text" value="0"/>
	5	<input type="radio"/>	<input type="text" value="0"/>
	6	<input type="radio"/>	<input type="text" value="0"/>
	7	<input type="radio"/>	<input type="text" value="0"/>
	8	<input type="radio"/>	<input type="text" value="0"/>
	9	<input type="radio"/>	<input type="text" value="0"/>
	10	<input checked="" type="radio"/>	Subscribed

Below the table, the section **SETTINGS FOR ACTIVE CLOSED USER GROUP** contains the following text and options:

These settings are not used for subscribed closed user group

Outgoing Access     Preferential

Buttons:

2. Type in your user group number(s) under **Group no.**
3. Select which group(s) should be active.  
If you select **Subscribed**, the group(s) included in your subscription will be active.
4. To allow outgoing access for the activated user group(s), select **Outgoing Access** under **SETTINGS FOR ACTIVE CLOSED USER GROUP**. Note that if you selected Subscribed above, this setting will not be used.
5. Select **Preferential** if you want the activated user group to be selected when a member of a user group does not specify the group number during call set up. Note that if you selected Subscribed above, this setting will not be used.
6. Click **Apply**.

## Uploading software from your computer

To upload software from your computer to the EXPLORER 700, do as follows:

1. Download the new software as described in the next section, or acquire the software version from Thrane & Thrane and save it on your computer.
1. Open the web interface and do one of the following:
  - If the PIN has been accepted (or a PIN is not required), select **SETTINGS > Upload** from the left navigation pane.
  - If a PIN is required and the PIN has not been entered, select **ADMINISTRATION**, enter the Administration PIN and password and click **Logon**. The default user name is **admin** and the default password is **1234**. Then select **Upload** from the left navigation pane.

The UPLOAD page opens.

The screenshot shows the web interface of the EXPLORER 700. At the top, there is a status bar with icons for BATTERY, SIGNAL, USB, BT, ISDN, and a signal strength indicator. Below this is a left navigation menu with the following items: DASHBOARD, PHONE BOOK, MESSAGES, CALLS, SETTINGS, USB, LAN, WLAN, Bluetooth, Phone/Fax, ISDN, Common, Upload, Alarm list, Language, ADMINISTRATION, HELPDESK, and SITE MAP. The 'Upload' option is highlighted in the menu.

The main content area is split into two sections:

- CHECK FOR SOFTWARE UPDATES:** This section shows the current software version as 3.00. There is a 'Check for updates' button. Below this, it indicates the latest available version is 'Not checked...' and the file size is not specified.
- UPLOAD SOFTWARE TO TERMINAL:** This section contains a text input field, a 'Browse...' button, and an 'Upload' button.

Below the 'Upload' button, there is a disclaimer: "Disclaimer for Downloading and Uploading software: Please be informed that downloading and installing software from the Thrane & Thrane web portal is at your own risk. Thrane & Thrane is not to be held liable for any possible damage with respect to downloading and installing software to your EXPLORER 700." Below the disclaimer, there is a note: "If you have problems or questions with respect to downloading software or uploading your terminal please be informed that you will have to contact the Thrane & Thrane distributor from where the terminal was purchased or contact your local Thrane & Thrane distributor." At the bottom, another note states: "Please be advised that you will not be able to contact Thrane & Thrane for end user support and that we always recommend that software upgrades are being carried out by official Thrane & Thrane distribution partners."

2. In the field **UPLOAD SOFTWARE TO TERMINAL**, click **Browse...**
  3. Browse to the new software version and accept it.
  4. Click the **Upload** button.
- Note that the upload procedure takes a couple of minutes. The status bar at the bottom of your browser window shows the progress.

**Note** When upload is done, your EXPLORER 700 automatically restarts with the new software.

## Downloading software from the Internet

**Important** | The terminal uses your BGAN airtime subscription to download the new software from the Internet. Note that it can take several minutes to download the software.


To download the latest software from the Internet to the EXPLORER 700, do as follows:

1. Make sure you have a connection to the Internet from your EXPLORER 700.
2. Open the web interface and select **SETTINGS > Upload** from the left navigation pane.

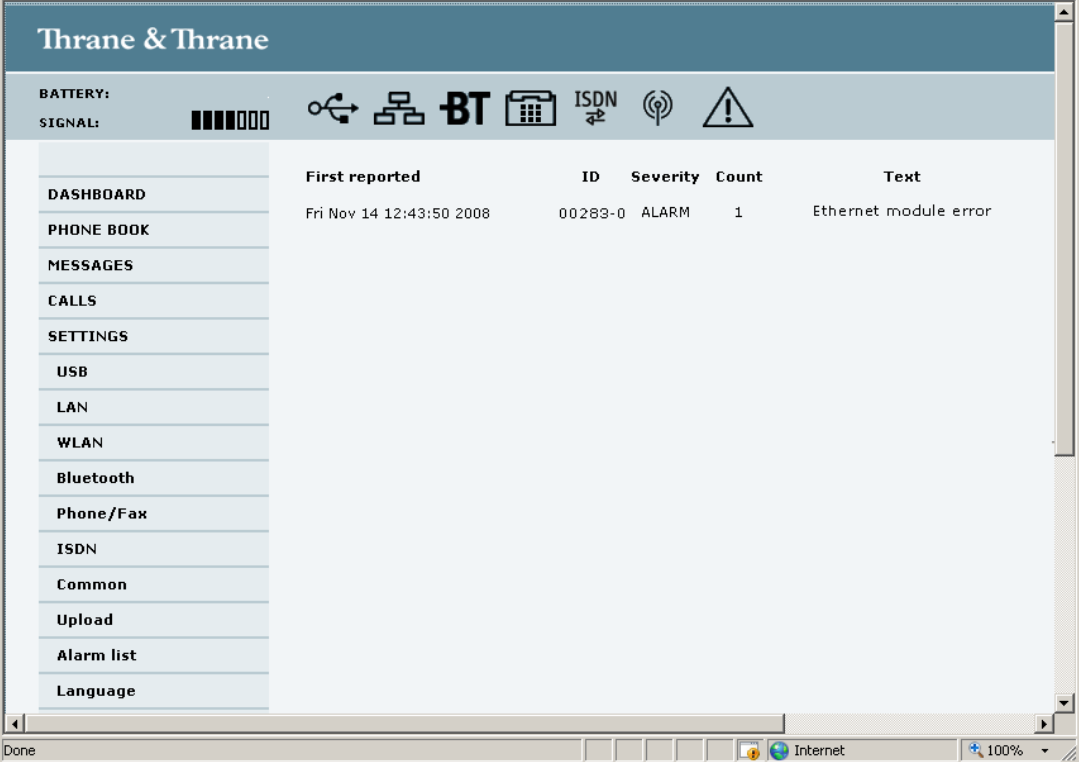


3. Click **Check for updates**.  
The EXPLORER 700 will now connect to the Internet through the BGAN network, using your airtime subscription. It may take a minute or two to obtain the new software version. When the new software version is found, the web interface shows the new software version and a link for downloading the software.
4. Click the link to download the new software to your computer.  
After saving the software on your computer, follow the procedure in the previous section (*Uploading software from your computer*) to upload the software from the computer to your EXPLORER 700.

## Viewing the Alarm List

When an alarm is issued, the web interface shows an alarm icon  in the icon bar.

To view the Alarm list, click the alarm icon from the icon bar at the top of the web interface or select **SETTINGS > Alarm list** from the left navigation pane.



First reported	ID	Severity	Count	Text
Fri Nov 14 12:43:50 2008	00283-0	ALARM	1	Ethernet module error

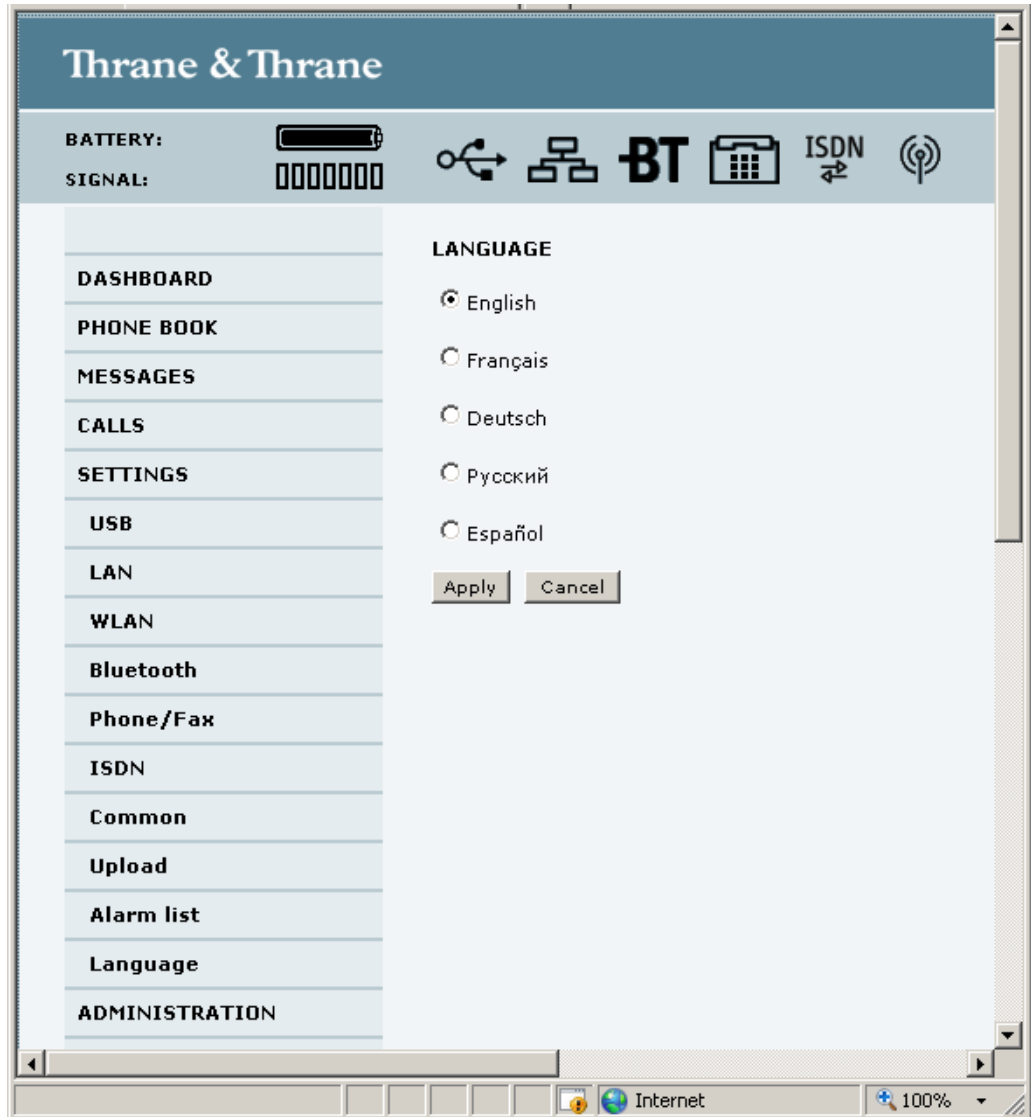
The Alarm list page shows a detailed list of active alarms including the time of the first occurrence, ID and severity of the alarm message, number of occurrences and a short text describing the error. For more information on the alarm messages, refer to *Alarm messages* on page 168.

If you need to report the alarms for service purposes, make sure you include the complete ID number. This number is used by service personnel to uniquely identify an alarm.

## Setting the language

You can select the language to use in the web interface and the display menus of the EXPLORER 700. Do as follows:

1. Select **SETTINGS > Language**.



2. Select the language you want to use. Available languages are:
  - English
  - French
  - German
  - Russian
  - Spanish
3. Click **Apply** and restart your browser.  
The web interface and the display menus now use the selected language.

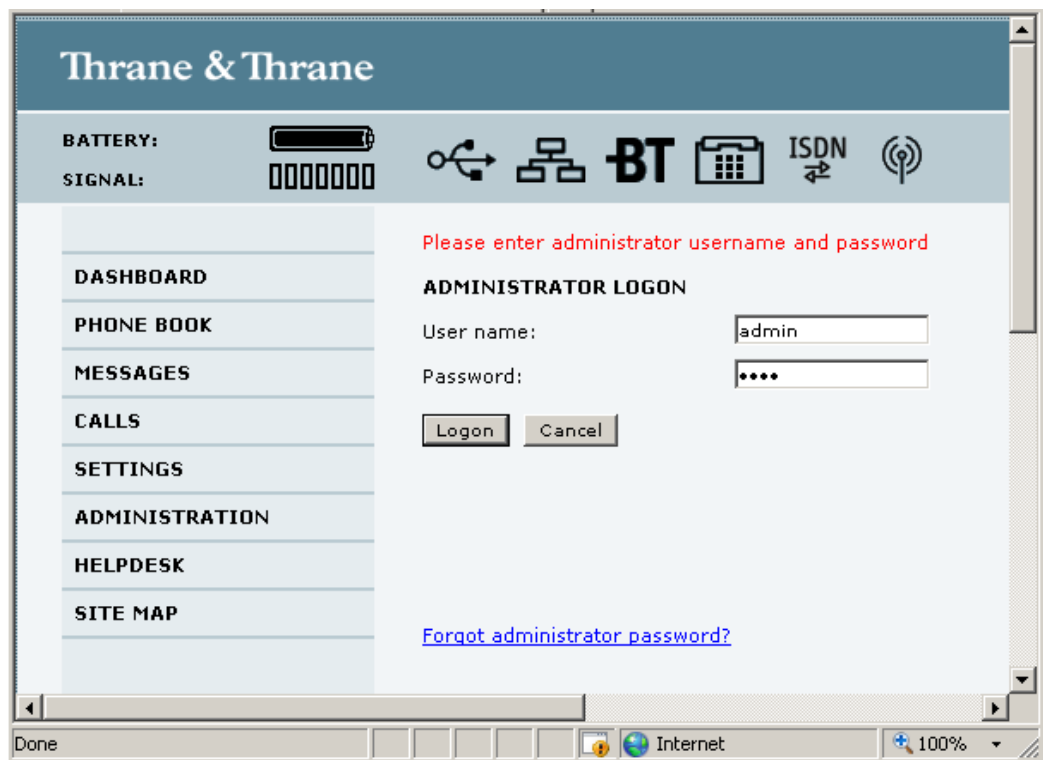
## Administration

### Accessing the administration settings

#### Logging on

The Administration settings require an Administration user name and password.

1. Select **ADMINISTRATION** from the left navigation pane.
2. Enter the Administration user name and password.  
The default user name is **admin** and the default password is **1234**.



If you have forgotten the administrator password, you can reset the password by clicking the link at the bottom of the page. For further information, see the next section *Resetting the Administrator password*.

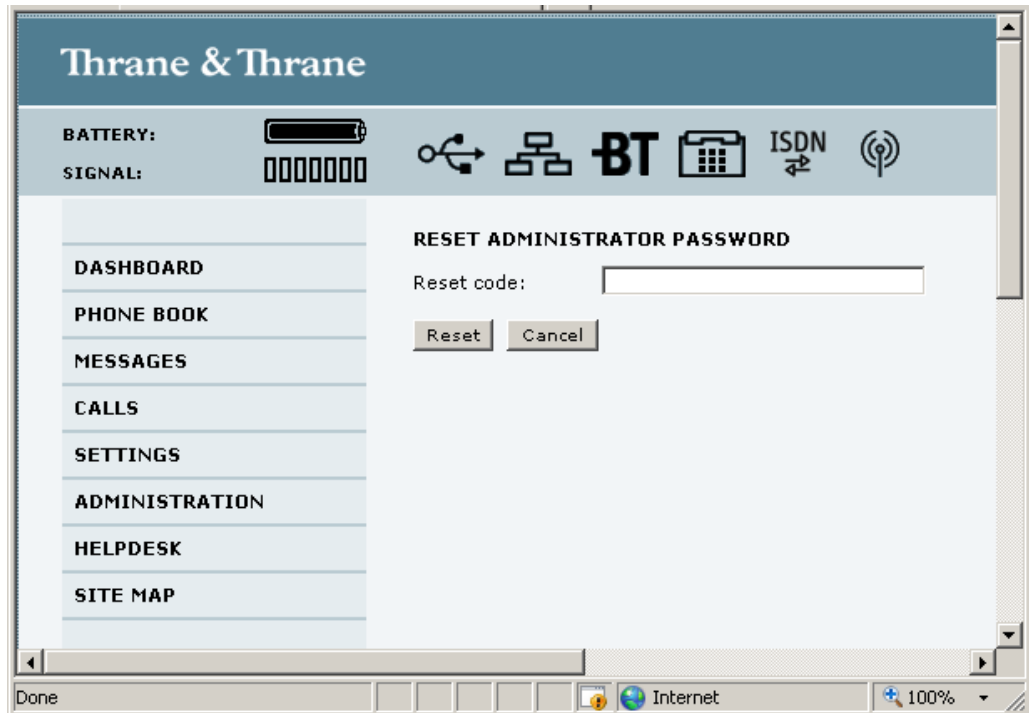
3. Click **Logon**.  
The Administration page is now updated to let you change the user name and password, Save/load a configuration or log off Administration.



## Resetting the Administrator password

If you have forgotten the administrator password, do as follows:

1. Contact your supplier for a reset code.  
Please report the serial number and IMEI number of the terminal.
2. Click the link **Forgot administrator password?** at the bottom of the ADMINISTRATOR LOGON page (see the previous section).

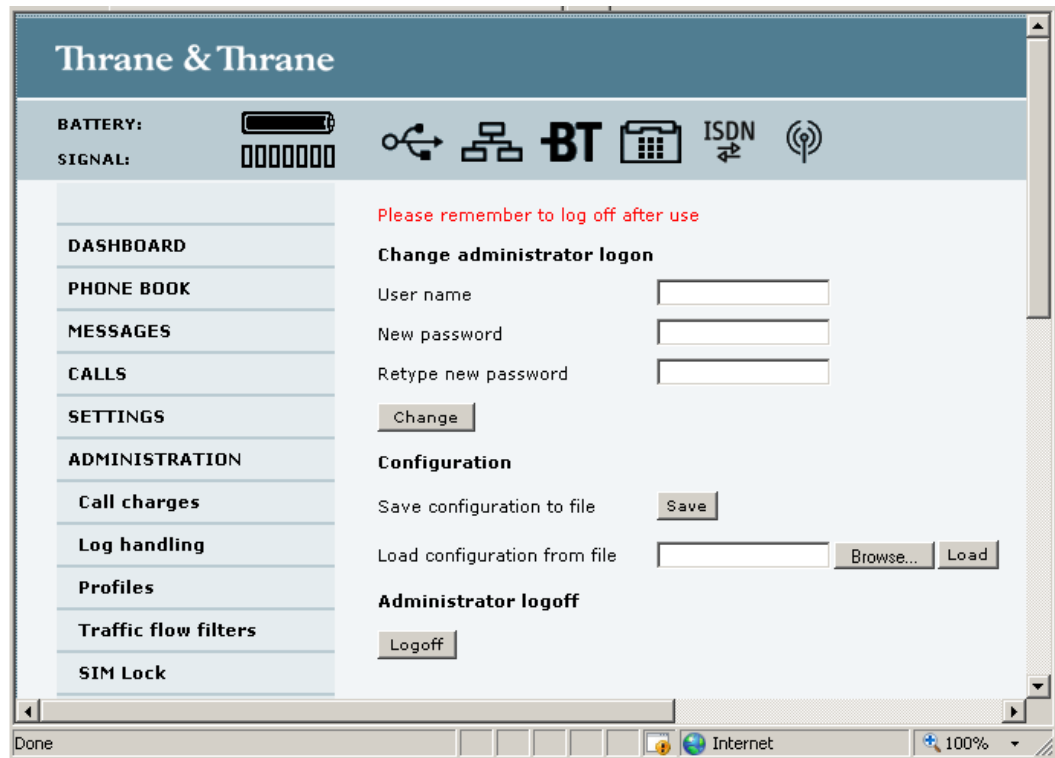


3. Type in the reset code obtained from your supplier and click **Reset**.
4. Type in the user name **admin** and the default password **1234**.
5. Click **Logon**.  
For information on how to change the password, see the next section *Changing the administrator password*.

## Changing the administrator password

Do as follows:

1. After entering the Administrator user name and password in the **ADMINISTRATION** page, locate the section **Change administrator logon**.



2. Type in the existing user name.
3. Type in the new password and retype it on the next line.
4. Click **Change**.  
At the next logon the new password is required.

## Saving a configuration to a file

If you need to reuse a configuration in another EXPLORER 700, you can save your current configuration to a file, which can then be loaded into the other EXPLORER 700.

Do as follows:

1. In the **ADMINISTRATION** page, under **Configuration**, click **Save**.
2. Accept the default destination file name or type in the destination file name and location.
3. Click **OK**.  
The configuration is now saved to a file. This file is used to load the configuration into another EXPLORER 700. See the next section.

### Loading a configuration from a file

1. In the **ADMINISTRATION** page, under Configuration, click **Load**.
2. Click **Browse...** to browse to the file you want to import. Then click **Open**.
3. Click **Load**.  
The new configuration is now loaded into your EXPLORER 700.

### Logging off administration

If you have not entered anything for 30 minutes under ADMINISTRATION, you are logged off automatically.

To log off manually, click **Logoff** under Administrator logoff in the **ADMINISTRATION** page.

### Call charges

If you know the tariff for your subscribed services, you can enter these tariffs in the web interface and automatically calculate the charges for your calls and data sessions.

**Note**

Thrane & Thrane does not take responsibility for the correctness of the estimated charges. This calculation is only a rough estimate of the charge, based on the tariff entered by the user. Also, the Airtime Provider may have different methods of calculating the charge.

Do as follows:

1. From the left navigation pane, select **ADMINISTRATION > Call Charges**
2. Select the currency from the **Currency** drop-down list.
3. Enter the tariff for each of the services.
4. Click **Apply**.  
The entered tariffs are used for estimating the charges for calls and data sessions. The estimated charge is listed for each call or data session in the call log. For further information, see *Viewing the lists of calls* on page 98.

### Log handling

1. From the left navigation pane, select **ADMINISTRATION > Log Handling**.
2. To clear the **Call log**, click **OK** next to **Clear call log?**
3. To clear the **total counters**, click **OK** next to **Clear total counters?**.  
This will reset the **Time connected** counters on the Calls page.

## Using profiles

### What is a profile?

A profile is a collection of Quality of Service (QoS) settings and other settings defining the mode in which data is transmitted on an interface. For example, a profile is used to define whether the connection is a Streaming connection or a Standard connection.

You can select between a number of predefined profiles or define your own profiles for your data transmission.

If no traffic flow filter is defined, the Primary profile for an interface is used for all traffic on that interface. See *What are traffic flow filters?* in the next section.

For further information on profiles, refer to the 3GPP standard TS 23.107 “Quality of Service (QoS) concept and architecture”.

### Selecting the profiles for an interface

When you set up your interface, you select the profiles to use for that interface. You select a Primary profile and optionally one or more Secondary profiles.

For further information on how to select the profiles, see the “Configuring...” sections for the individual interfaces in this chapter.

## Defining new profiles

When you define your profiles you can select **Subscribed** for many of the settings. If you select Subscribed, the value given in your Airtime subscription will automatically be used.

To define a new profile, do as follows:

1. From the left navigation pane, select **ADMINISTRATION > Profiles**.

	Standard	Streaming 32	Streaming 64	Streaming 128	Streaming 256	User defined 1	User defined 2
Traffic class	Background	Streaming	Streaming	Streaming	Streaming	Subscribed	Subscribed
Maximum bit rate UL (kbps)	0	32	64	128	256	0	0
Maximum bit rate DL (kbps)	0	32	64	128	256	0	0
Guaranteed bit rate UL (kbps)	0	32	64	128	256	0	0
Guaranteed bit rate DL (kbps)	0	32	64	128	256	0	0
Delivery order	Subscribed	Subscribed	Subscribed	Subscribed	Subscribed	Subscribed	Subscribed
Maximum SDU size (Byte)	0	0	0	0	0	0	0
SDU error ratio	Subscribed	Subscribed	Subscribed	Subscribed	Subscribed	Subscribed	Subscribed
Residual bit error ratio	Subscribed	Subscribed	Subscribed	Subscribed	Subscribed	Subscribed	Subscribed
Delivery of erroneous SDUs	Subscribed	Subscribed	Subscribed	Subscribed	Subscribed	Subscribed	Subscribed
Transfer delay (ms)	0	0	0	0	0	0	0
Traffic handling priority	Subscribed	Subscribed	Subscribed	Subscribed	Subscribed	Subscribed	Subscribed

2. In one of the **User defined** columns, fill in the top field with the name of your profile.
3. In the **Traffic class** row of your new profile, select a class from the drop-down list.

### Important

For best performance, choose the right traffic class for your application. In general, Standard data (Background) is best suited for TCP/IP applications, and Streaming data is best suited for UDP traffic, e.g. live video or audio.

You may select one of the following:

- **Conversational** is real-time two-way conversation. It is primarily used for voice over IP and video conferencing.
- **Streaming** is real-time one-way communication. It is primarily used for video and audio.
- **Interactive** is two-way communication (not real-time). It is used for communication that is not very delay-sensitive, such as web browsing, data base retrieval and server access.

Examples of machines interaction with remote equipment are: polling for measurement records and automatic data base enquiries (tele-machines).

- **Background** is used for data which is not delay-sensitive, such as E-mails, SMS, download of databases and reception of measurement records.

4. Type in the bit rates in kbps in the following rows:

- **Maximum bit rate ul (kbps)** is the maximum upload bit rate allowed for this profile.
- **Maximum bit rate dl (kbps)** is the maximum download bit rate allowed for this profile.
- **Guaranteed bit rate ul (kbps)** is the guaranteed upload bit rate needed for this profile.
- **Guaranteed bit rate dl (kbps)** is the guaranteed download bit rate needed for this profile.

**Note**

When you click Apply, the bit rate values you typed in may be rounded off because only certain values are allowed.

5. In the **Delivery order** row, select from the scroll list whether or not data should be delivered in the same order it was sent. Yes means the data packets are delivered in the same order they were sent.
6. In the **Maximum SDU size (byte)** row, type in the maximum allowed packet size in Bytes (rounded off to nearest 10). The maximum packet size possible is 1520.
7. In the **Delivery of erroneous SDUs** row, select one of the following from the list:
  - **Yes** means packets are allowed to contain errors. This setting is suitable for delay-sensitive transmission, because the need for retransmission is limited. The SDU Error settings in step 8 and step 9 will apply.
  - **No** means packets are not allowed to contain errors, and the SDU Error setting in step 8 will **not** be applied. This setting is suitable where error-free transmission is important and delays are accepted.
  - **No detect** means that errors will not be detected, and the SDU Error setting in step 8 will **not** be applied.
8. If you selected **Yes** in step 7, select from the **SDU error ratio** drop-down list the fraction of a packet allowed to be lost or erroneous.
9. Select from the **Residual bit error ratio** drop-down list the undetected bit error ratio of a packet. If no error detection is requested, Residual bit error ratio indicates the bit error ratio in the delivered packets.
10. In the **Transfer delay (ms)** row, type in the delay in ms. This is the delay from data is received in the EXPLORER 700 until it arrives at the receiving end.
11. In the **Traffic handling priority** row, select from the drop-down list which priority this connection should have.
12. Click **Apply**.  
The new profile is now added, and can be selected from the lists of primary and secondary profiles when you set up your interfaces.

## Using traffic flow filters

### Purpose of the traffic flow filters

The purpose of the traffic flow filters is to assign different priorities to different types of traffic, in order to optimize performance.

**Example:** When you are browsing the Internet, a Standard data connection will normally be sufficient. However, if you need to have a video conference, you may need to use a Streaming connection, in order to obtain a direct connection without interruptions. Your traffic flow filters can define these priorities, so that your connection is automatically set up to use Streaming e.g. when you have a video conference. Note, however, that on the LAN and WLAN interfaces you always have to start the Streaming connection manually, either from the display or from the web interface. See *Starting or stopping a Streaming session* on page 44 or *Start/stop Streaming data on the LAN interface* on page 91.

### What are traffic flow filters?

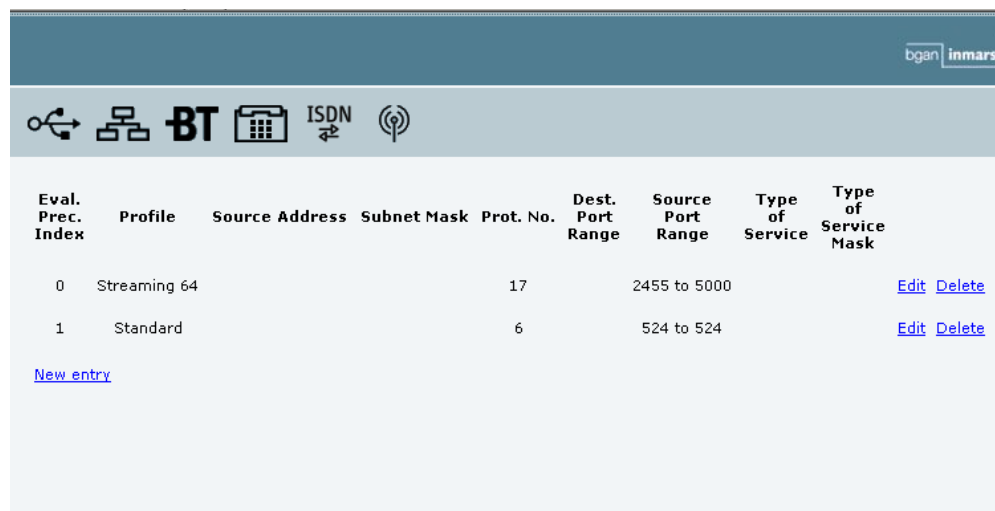
When more than one type of traffic is needed, you must use both a primary and one or more secondary profiles. For the BGAN core network and the terminal to classify packets received from the external network into the proper profile, you need a traffic flow filter.

A list of traffic flow filters consists of one to eight packet filters. Each packet filter has an evaluation precedence index that is unique within all traffic flow filters associated with the profiles that share the same PDP (Packet Data Protocol) address. The evaluation precedence index determines the order in which the filters are applied; 0 is applied first, then 1 and so forth. Information of source, destination, type of service etc. is combined in each packet filter in the list.

### Defining traffic flow filters

To define the traffic flow filters, do as follows:

1. From the left navigation pane, select **ADMINISTRATION > Traffic flow filters.**



Eval. Prec. Index	Profile	Source Address	Subnet Mask	Prot. No.	Dest. Port Range	Source Port Range	Type of Service	Type of Service Mask
0	Streaming 64			17		2455 to 5000		
1	Standard			6		524 to 524		

[New entry](#)

- Click the link **New entry**.

- Select a number in the **Eval.Prec. Index** drop-down list.  
The evaluation precedence index defines the order in which the traffic flow filters are applied to packets. 0 is first, then 1, 2 etc.

**Note** This field is mandatory. Each filter must have a different Evaluation Precedence Index.

- Select the **Profile** from the drop-down list.  
The available profiles are the profiles listed under ADMINISTRATION > Profiles.
- Fill in one or more of the following fields to define the filter.  
The allowed ranges appear in hover text when you pass the mouse over the fields.
  - **Source address + Subnet mask.**  
This is an IPv4 IP address and subnet mask.
  - **Protocol number.**  
This is uniquely assigned for the protocol being used. TCP is set to 6, and UDP is set to 17. The protocol number determines which protocol is used by the traffic flow filter.
  - **Destination port range (From and To).**  
Note that Source and Destination are relative to the BGAN core network. This means that Destination is your terminal.
  - **Source port range (From and To).**  
Note that you must fill in both From and To, even if there is only one port.
  - **Type of Service + Type of Service mask.**  
Set this value to a number between 0 and 255.



Type of Service (TOS) is an 8-bit field in a packet header, with associated mask, that is used to define Quality of Service.

6. Click **Apply** at the bottom of the page.

For further information on the principles and parameters of the traffic flow filters, refer to the 3GPP standards TS27.007 V4.2.0 and TS 23.060 V4.7.0.

### Example of a list of traffic flow filters

Below is an example of a list of traffic flow filters.

Eval. Prec. Index	Profile	Source Address	Subnet Mask	Prot. No.	Dest. Port Range	Source Port Range	Type of Service	Type of Service Mask
0	Streaming 64			17		2455 to 5000		
1	Standard			6		524 to 524		

[New entry](#)

In this example, data packets are filtered in the following order:

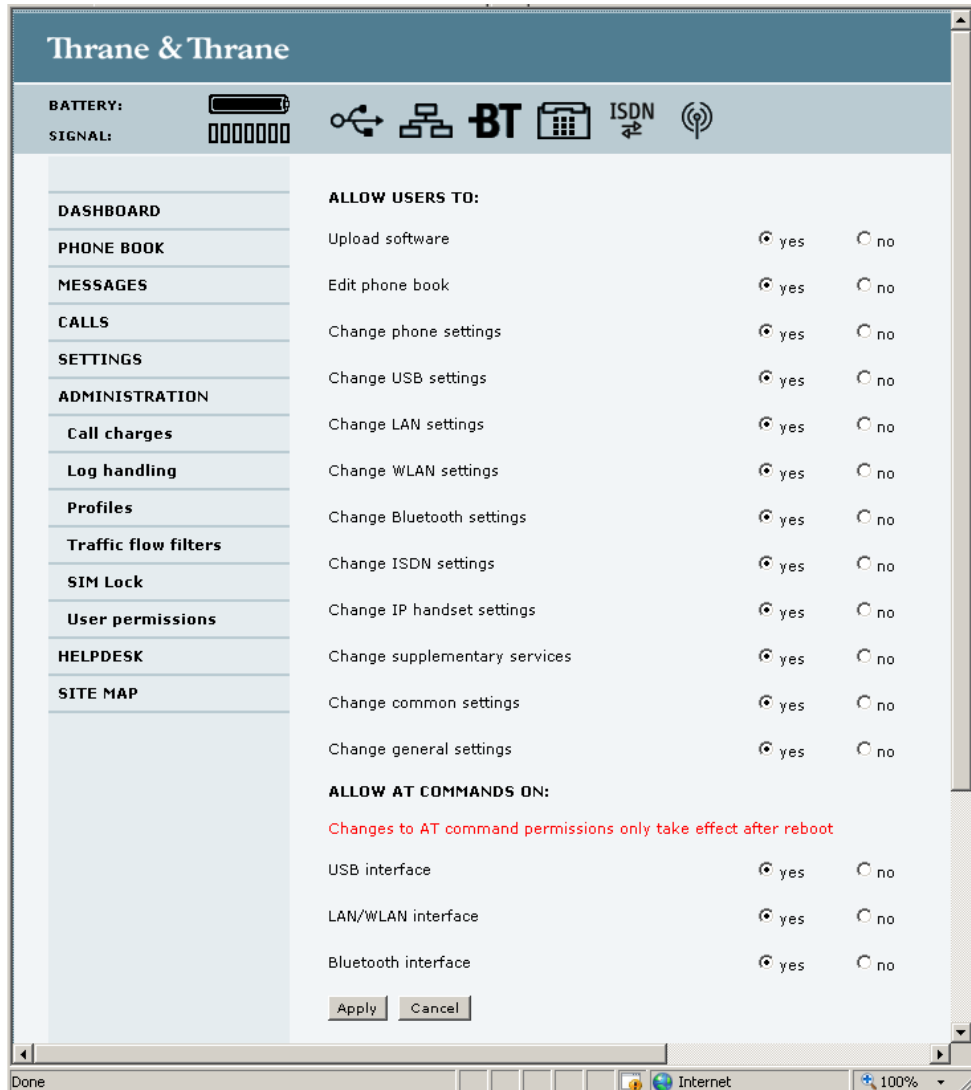
1. The filter with evaluation precedence index 0 checks for UDP packets (protocol number 17), in the port range 2455-5000. When these packets are identified, they are assigned a 64 kbps Streaming channel (the Streaming 64 profile).
1. The filter with evaluation precedence index 1 checks remaining packets for TCP packets (protocol number 6), on port 524. These packets are routed to the Standard data connection (the Standard profile).
1. Remaining traffic is routed to the Standard data connection.

## Setting up user permissions

You can restrict access to parts of the web interface for non-administrator users.

To set up the user permissions, do as follows:

1. From the left navigation pane, select **ADMINISTRATION > User permissions**.



2. For each item under **ALLOW USERS TO:**, select
  - **yes** to allow access or
  - **no** to block access to the settings.
3. For each of the listed interfaces under **ALLOW AT COMMANDS ON:**, select
  - **yes** to allow the use of AT commands, or
  - **no** to block the use of AT commands on that interface.

Note that this setting does not take effect until the EXPLORER 700 is restarted.

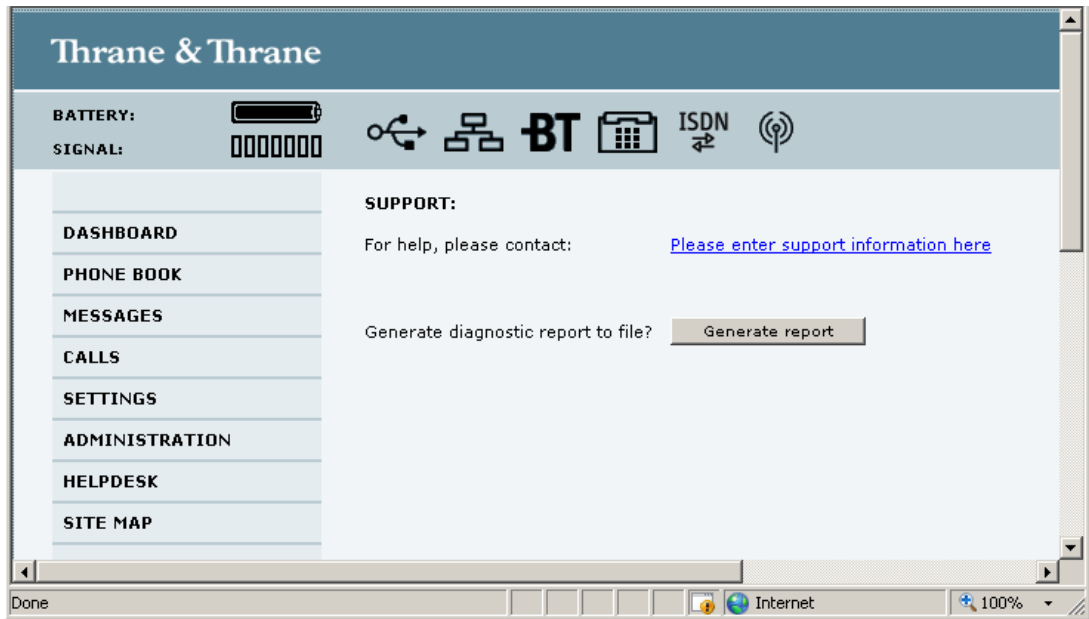
4. Click **Apply**.  
The settings to which access is denied are greyed out for the non-Administrator user.

## Help desk and diagnostic report

### Accessing the Help desk

If you need help **with airtime-related issues** you may call the Help desk. By default, the Help desk is the phone number for your Airtime Provider, if it is available on the SIM card.

Select **HELP DESK** from the left navigation pane.



If the Help desk number is available on the SIM card, the number is displayed as a link. To change the number, click the link, change the number and click **Apply**.

If you need help **with EXPLORER 700 issues** you should call your local distributor.

### Generating a diagnostic report

The diagnostic report contains relevant information for troubleshooting. When contacting your distributor for support, please enclose this file.

To generate a diagnostic report, do as follows:

1. Click **Generate report** from the **HELP DESK** page.  
In some browsers the file may open directly in your browser. If it does, choose **File > Save As** to save the file.
2. Choose a location for the file and save it.

## *Site map*

The web interface also offers a site map page. Use this page to get an overview of the submenus.

To access the site map, select **SITE MAP** from the left navigation pane.

Click on items in the site map to go directly to the relevant location.

# Maintenance and troubleshooting

## In this chapter

This chapter gives guidelines for troubleshooting and for general maintenance. It also provides an overview of the different means of status signaling,

## Getting support

### Overview

If this manual does not provide the information required to solve your problem, you may want to contact your Airtime Provider or your local distributor.

### Airtime support

If you need assistance from your Airtime Provider, please call the help desk. To see the help desk number, enter the display menu system or the web interface of your EXPLORER 700 and select **HELP DESK**. This help desk number is either taken from the SIM card or entered manually. If no number is available under HELP DESK, check your Airtime subscription for a contact number.

### EXPLORER<sup>®</sup> 700 support

If you need assistance with problems caused by the EXPLORER 700, please call a distributor in your area.

[Click this link to see a list of Thrane & Thrane distributors.](#)

#### Note

The list of distributors is located on the EXPLORER 700 CD-ROM delivered with your EXPLORER 700, so it may not always be up to date.

An updated list is available on Thrane & Thrane's web site: [www.thrane.com](http://www.thrane.com). Click **Land Mobile** and select **Distributors** from the top menu bar.

## Uploading software

### Viewing software version status

To view the version of the embedded software in the EXPLORER 700, select **Dashboard** in the web interface or **PROPERTIES** in the display menus and see **Software information**.

### Uploading software using the web interface

You can upload software from the **SETTINGS > Upload** page in the web interface.

If you have an Administrator user name and password you do not need to insert a SIM card nor to enter the PIN to be able to upload software.

For further information, see *Uploading software from your computer* on page 138.

## Maintenance

### Normal use of the battery

It is recommended **not** to partially charge/discharge the battery several times in a row. Partial charging/discharging affects the accuracy of the capacity measurement.

Never leave the battery fully discharged for a longer period of time. If the battery is not to be used for a shorter period of time (1 month), charge the battery to minimum 20 to 30% and remove it from the EXPLORER 700. If the Battery is stored for more than a month, see *Storage* at the end of this section.

### Recharging the battery

To recharge the battery, insert it into the EXPLORER 700 and connect the EXPLORER 700 to power.

**Note**

Normally the charge time is approximately 2.5 hours. However, if the EXPLORER 700 is operating while being charged, the charge time is increased.

The indicator left to the display is constantly green as long as the battery is charging. When the battery is fully recharged, the green indicator is turned off. If the EXPLORER 700 is switched on, the green indicator will be flashing shortly every 2 seconds.

If a charging error occurs, the green indicator on the EXPLORER 700 flashes rapidly. See the *Troubleshooting Guide* on page 159.

### Accurate display of the battery capacity

To ensure accurate display of the battery capacity, it is recommended to run a “learning cycle” for every 100 recharge/discharge and at first time use. The learning cycle must be performed at 20°C-30°C.

A learning cycle is performed as follows:

1. Fully charge the battery.
2. Remove external power and fully discharge the battery:  
Use the EXPLORER 700 and/or leave it on until it turns off automatically.  
This way the EXPLORER 700 “learns” the complete capacity of the battery.  
Note that it may take up to 36 hours to discharge the battery if it is not in use.
3. Recharge the battery.

### Storage

Do not leave the battery inserted in the EXPLORER 700 during storage.

If the battery is not to be used for a longer period of time, do as follows:

1. Fully charge the battery.
2. Remove external power. Then use the EXPLORER 700 or leave it on until the display shows a battery capacity of approximately 50%.
3. Switch off the EXPLORER 700.

**Important**

Switch off the EXPLORER 700 **before** removing the battery!

4. Remove the battery and store it.

In this condition the battery can be stored for approximately 1 year at 20°C to 30°C. After 1 year you must recharge the battery. For further information on storage temperature, see *Battery* on page 178.

### Disposal of the EXPLORER® 700

Old electrical and electronic equipment marked with this symbol can contain substances hazardous to human beings and the environment. Never dispose these items together with unsorted municipal waste (household waste).







In order to protect the environment and ensure the correct recycling of old equipment as well as the re-utilization of individual components, use either public collection or private collection by the local distributor of old electrical and electronic equipment marked with this symbol.

Contact the local distributor for information about what type of return system to use.

## Options and accessories

The following options and accessories are available from Thrane & Thrane:

Item	Number
EXPLORER 2-wire phone + cable	TT-3625B
EXPLORER 700 Battery 	TT-3686P
Antenna cables, current rating: 2.5 A: 41.5 cm 10 m 30 m 60 m 100 m	TT-3720A, Opt.937 TT-3720A, Opt.942 TT-3720A, Opt.945 TT-3720A, Opt.948 TT-3720A, Opt.955
EXPLORER 700 antenna 	TT-3703A
Pole mount kit for EXPLORER 700 antenna	TT-3650A, Opt. 920
EXPLORER 700 Softbag	TT-3720A, Opt. 202
EXPLORER 700 Car charger cable 	TT-3720A, Opt. 009
AC/DC adapter 	TT-3682P FSP 065-AAC



## Troubleshooting guide

The below table provides information on some of the problems that might occur, including possible causes and remedies to solve the problems.

Problem	Possible Cause	Remedy
The EXPLORER 700 cannot be switched on, or does not stay on when powered by the battery.	The battery needs recharging.	Recharge the battery. Check the battery indicator in the display.
	The battery is not inserted properly.	Remove the battery and re-insert it. Make sure the battery is inserted properly and that the latches are locked.
	The battery contacts are dirty or damaged.	Clean the battery contacts if necessary. If the contacts are damaged, replace the battery.
There is no light in the power indicator nor in the display when the EXPLORER 700 is switched on.	The EXPLORER 700 may be in Stealth Mode (all lights and sounds are off).	Press <b>C+OK</b> on the display keypad. This will toggle Stealth Mode on/off.
The EXPLORER 700 cannot be switched off.	The Power button was not pressed long enough.	When you switch off the EXPLORER 700, hold the power button until the display shows "Switching off". In rare cases, it may take up to 10 seconds to switch off the EXPLORER 700.
Charging error - The green Power indicator flashes rapidly while the battery is being recharged.	The temperature is below 0°C or above 45°C.	Only charge the battery when the temperature is within the range 0°C to 45°C.
	The charging voltage is less than 9 V.	Wait until charging begins (the green Power indicator lights constantly). If the battery is completely discharged, and it has been out of use for a long time, the charging process may take a long time to start. If charging does not begin within 2-3 hours, contact your local distributor, or purchase a new battery.

Problem	Possible Cause	Remedy
The display shows INSERT SIM.	The SIM card is not present.	Remove the battery and insert the SIM card in the SIM slot according to the instructions in the section <i>Inserting the SIM card</i> on page 16.
	The SIM card is not inserted properly.	Remove the SIM card and re-insert it according to the instructions in the section <i>Inserting the SIM card</i> on page 16.
	The SIM card is inserted in the wrong SIM slot.	There are two SIM slots, marked USIM #1 and USIM #2. Make sure the SIM card is inserted in the SIM slot marked USIM #1.
The display shows NO GPS FIX.	The EXPLORER 700 is unable to register on the network, because the GPS position is unknown.	Make sure the view to the GPS satellites is not blocked. To obtain GPS fix, the EXPLORER 700 should be placed flat on an even surface pointing straight upwards, with a clear view to as much of the sky as possible. When the EXPLORER 700 has obtained GPS fix, you can point the antenna towards the BGAN satellite. To see the GPS status, enter the menu system and select <b>PROPERTIES &gt; GPS STATUS</b> .
The display shows EMERGENCY ONLY.	The BGAN network is only available for emergency calls. The reason may be one of the following: 1) Your Airtime subscription has expired. 2) You are using the wrong SIM card.	1) Check your subscription with the Airtime Provider. 2) Check that your SIM card is valid for communication on the BGAN network.
The display shows NOT REGISTERED.	The EXPLORER 700 cannot register on the BGAN network.	Check that your SIM card is valid for communication on the BGAN network. Check your subscription with the Airtime Provider.

Problem	Possible Cause	Remedy
The EXPLORER 700 cannot obtain its position using GPS.	<p>There is no GPS signal, or the signal is weak.</p> <p>If the EXPLORER 700 has not been used recently within the same location, it can take up to 10 minutes to obtain the GPS position.</p>	<p>Check the GPS status in the display or the web interface.</p> <p>To help the EXPLORER 700 obtain GPS fix, it should be placed flat on an even surface pointing straight upwards, with a clear view to as much of the sky as possible.</p> <p>When the EXPLORER 700 has obtained GPS fix, you can point the antenna towards the BGAN satellite.</p>
No signal or weak signal from the BGAN satellite.	The view to the satellite is blocked.	Make sure the EXPLORER 700 has a clear view to the satellite. Be aware that window glass may reduce the signal level.
	The antenna is pointed in the wrong direction.	<p>Check that the antenna is pointed according to the position data.</p> <p>Adjust the position to the highest possible signal strength.</p>
Connection to the Internet cannot be established.	The signal strength is too low.	<p>Check that the antenna is pointed according to the position data.</p> <p>Adjust the position to the highest signal strength you can obtain.</p> <p>As a rule of thumb, you should have a signal strength of 45 dBHz or more to be able to make a call or data session.</p>
	Your connection is defined as a dial-up connection, but you have not opened the dial-up connection.	You need to open the dial-up connection before you can connect to the Internet.
	Your connection is a dial-up connection, but you have not entered the phone number *98# to indicate a connection to the Internet.	Change the phone number in the dial-up connection to *98# and open the dial-up connection before accessing the Internet.

Problem	Possible Cause	Remedy
The web interface cannot be accessed.	The browser is configured to use a proxy server.	For Microsoft Internet Explorer, select <b>Tools &gt; Internet Options &gt; Connections &gt; LAN Settings</b> and uncheck <b>Use a proxy server for your LAN</b> .
	You have entered a wrong IP address.	Check the IP address and re-enter it.
	Your connection is defined as a dial-up connection, but you have not opened the dial-up connection.	You need to open the dial-up connection before you can connect to the Web server.
	Your connection is a dial-up connection, but you have not entered the phone number *98# or *99# to indicate connection to the Internet and/or the web interface.	Change the phone number in the dial-up connection to *98# or *99# and open the dial-up connection before accessing the web interface.
A Phone/Fax connection cannot be established.	The interface is disabled in the EXPLORER 700.	Enable the interface by entering the display menu system and selecting <b>SETTINGS &gt; INTERFACES &gt; PHONE/FAX &gt; ON</b> , or by accessing the web interface and selecting <b>SETTINGS &gt; Phone/Fax &gt; Enabled</b>
	The cable is not properly connected.	Connect the cable.
	The cable type or connector type is not correct.	For information on the correct type of connector and cable, refer to <i>Phone/Fax interface, 2-port</i> on page 180.
	Incoming calls: The call type used for the call is not selected in the web interface.	Make sure the call type used for calls to the EXPLORER 700 is selected in the web interface. Access the web interface and select <b>SETTINGS &gt; Phone/Fax</b> . Then select the call type for incoming calls.

Problem	Possible Cause	Remedy
An ISDN connection cannot be established	The ISDN interface is disabled in the EXPLORER 700	Enable the interface by entering the display menu system and selecting <b>SETTINGS &gt; INTERFACES &gt; ISDN &gt; ON</b> , or by accessing the web interface and selecting <b>SETTINGS &gt; ISDN &gt; Enabled</b>
	The cable is not properly connected.	Connect the cable.
	You have connected to the LAN interface.	Connect the cable to the interface marked ISDN.
	The cable type or connector type is not correct.	For information on the correct type of connector and cable, refer to <i>ISDN interface, 2-port</i> on page 181.
	Incoming phone calls: The call type used for the call is not selected in the web interface.	Make sure the call type used for calls to the EXPLORER 700 is selected in the web interface. Access the web interface and select <b>SETTINGS &gt; Phone/Fax</b> . Then select the call type for incoming calls.

Problem	Possible Cause	Remedy
A Bluetooth handset connection cannot be established.	The interface is disabled in the EXPLORER 700.	Enable the interface by entering the display menu system and selecting <b>SETTINGS &gt; INTERFACES &gt; BLUETOOTH &gt; ON</b> , or by accessing the web interface and selecting <b>SETTINGS &gt; Bluetooth &gt; Enabled</b>
	The Bluetooth handset is placed too far away from the EXPLORER 700.	Bring the handset closer to the EXPLORER 700. Note that the specified maximum distance is only valid under ideal conditions.
	The handset is not yet paired with the EXPLORER 700.	Pair the devices. Refer to <i>Pairing devices in which you can enter a passkey</i> on page 34.
	Incoming calls: The call type used for the call is not selected in the web interface.	Make sure the call type used for calls to the EXPLORER 700 is selected in the web interface. Access the web interface and select <b>SETTINGS &gt; Bluetooth</b> . Under <b>BLUETOOTH VOICE DEVICES</b> locate the relevant handset and select the right call type for incoming calls.
A LAN connection cannot be established.	The interface is off in the EXPLORER 700.	Enable the interface by entering the display menu system and selecting <b>SETTINGS &gt; INTERFACES &gt; LAN &gt; ON</b> , or by accessing the web interface and selecting <b>SETTINGS &gt; LAN &gt; Enabled</b>
	The cable is not properly connected.	Connect the cable.
	The cable type or connector type is not correct.	For information on the correct type of connector and cable, refer to <i>LAN interface, 2-port</i> on page 182.

Problem	Possible Cause	Remedy
A WLAN connection cannot be established	The WLAN interface is disabled in the EXPLORER 700	Enable the interface by entering the display menu system and selecting <b>SETTINGS &gt; INTERFACES &gt; WLAN &gt; ON</b> , or by accessing the web interface and selecting <b>SETTINGS &gt; WLAN &gt; Enabled</b>
	Your computer or is placed too far away from the EXPLORER 700.	Bring the computer closer to the EXPLORER 700. Note that the specified maximum distance is only valid under ideal conditions.
	You have not yet entered the country code for your WLAN.	Access the web interface and select <b>SETTINGS &gt; WLAN</b> . Then enter the country code for your present location and click <b>Apply</b> . For further information, see <i>Configuring the WLAN interface</i> on page 119.
	You are using Bluetooth and WLAN simultaneously (WLAN mode 802.11b/g, 2.4 GHz)	Do not use Bluetooth and WLAN simultaneously, or change the WLAN mode to 802.11a (5 GHz) if possible.

Problem	Possible Cause	Remedy
A USB connection cannot be established.	The cable is not properly connected.	Connect the cable.
	The cable type or connector type is not correct.	For information on the correct type of connector and cable, refer to <i>USB interface</i> on page 183.
	The dial-up connection is not created correctly.	Refer to <i>Creating a dial-up connection</i> on page 80.
	The Thrane & Thrane EXPLORER USB driver is not installed.	Install the driver as described in <i>First-time setup of USB</i> on page 75.
	The USB connection uses a wrong COM port.	<p>Make sure the connection uses the COM port to which the Thrane &amp; Thrane EXPLORER USB driver is assigned.</p> <p>In Windows XP, open your dial-up connection and select <b>Properties</b>. Under <b>Connect using</b>: check that the Thrane &amp; Thrane EXPLORER USB driver is selected.</p> <p>If not, click <b>Configure</b> and select the Thrane &amp; Thrane EXPLORER USB driver.</p>



Problem	Possible Cause	Remedy
A Bluetooth data connection cannot be established.	The interface is off in the EXPLORER 700.	Enable the interface by entering the display menu system and selecting <b>SETTINGS &gt; INTERFACES &gt; BLUETOOTH &gt; ON</b> , or by accessing the web interface and selecting <b>SETTINGS &gt; Bluetooth &gt; Enabled</b> .
	The computer is placed too far away from the EXPLORER 700.	Bring the computer closer to the EXPLORER 700. Note that the specified maximum distance is only valid under ideal conditions.
	The computer is not yet paired with the EXPLORER 700.	Pair the devices. Refer to <i>Bluetooth pairing</i> on page 34.
	The requested Bluetooth profile is not supported, or is not activated on the computer.	Check the Bluetooth installation on your computer to see if the profile is supported and activated.
	You are using Bluetooth and WLAN simultaneously (WLAN mode 802.11b/g, 2.4 GHz)	Do not use Bluetooth and WLAN simultaneously, or change the WLAN mode to 802.11a (5 GHz) if possible.
The Administrator password does not work.	Someone has changed the Administrator password.	If the correct password is not found, you have to reset the password. Contact your supplier for a reset code. You must provide the serial number and IMEI number of the terminal. Then enter the web interface and reset the password as described in: <i>Resetting the Administrator password</i> on page 143.

## Status signaling

There are many ways of troubleshooting if an error occurs. The EXPLORER 700 has different means of status signaling, to help you find the cause of a problem:

- **Indicators.**  
The function of the light indicators next to the display is described in *Light indicators* on page 6.
- **Alarm messages.**
- **Log files.**



Alarm messages and log files are described in the following sections.

## Alarm messages

### Display of alarm messages

The EXPLORER 700 can detect errors during POST (Power On Self Test) or CM (Continuous Monitoring). When the EXPLORER 700 detects an error that requires your action, it issues an alarm.

When alarms are issued in your EXPLORER 700, the display indicates the number of new alarms, and the red message indicator is flashing.

You now have the following options:

- Press **C** to ignore the alarm message and continue from where you were before the alarm was issued.
- Press **OK** to enter the alarm list showing all active alarms. The alarms are listed with their ID numbers. Unacknowledged alarms are marked **NEW**.  
To acknowledge an alarm and see the name and time stamp, press **OK** again.  
Use **▲** and **▼** to scroll through the name, ID and time stamp. If the text is too long, press **OK** (**▶**) to scroll through the rest of the text.



Once the alarm is acknowledged (OK) or C is pressed, the display returns to normal operation. The red message indicator keeps flashing as long as the cause of the alarm is still present.

**Explanations for the alarms** and remedies to solve the problems are listed in the next section.

All alarms are logged in the alarm log. For information on the alarm log, see *Alarm log* on page 176.

## List of alarms

The following list explains the alarms that may show in the display and in the web interface in the EXPLORER 700.

**Note** In the display and in the web interface the ID includes a hyphen followed by a control-digit at the end. This digit is used to make sure the ID is not misinterpreted when passed on, e.g. to service personnel. Make sure you include the entire number when contacting your distributor.

ID	Alarm Text	Explanation	Remedy
00100 to 00199	System data damaged	Important system data is damaged	Do not use the EXPLORER 700. Contact your distributor.
00200 to 00209	Battery error	Error during communication with the battery	Only use the EXPLORER 700 with external power supply. Contact your distributor.
00210 to 00219	SIM module error	The SIM interface on the EXPLORER 700 cannot be used.	Contact your distributor.
00220 to 00229	USB module error	The USB interface on the EXPLORER 700 cannot be used.	Contact your distributor.
00230 to 00239	Temperature sensor FATAL	The system is in danger of overheating.	Do not use the EXPLORER 700. Contact your distributor.
00240 to 00249	Temperature sensor error	Automatic adjustment of the display contrast does not work.	Contact your distributor.
00250 to 00259	Bluetooth module error	Bluetooth cannot be used.	Contact your distributor.
00260 to 00269	System error	The EXPLORER 700 cannot communicate on the satellite network.	Contact your distributor.
00270 to 00279	Voice module error	Voice services cannot be accessed by the EXPLORER 700	Contact your distributor.

ID	Alarm Text	Explanation	Remedy
00280 to 00289	Ethernet module error	The Ethernet interface on the EXPLORER 700 cannot be used.	Contact your distributor.
00290 to 00299	Power supply error	Power on/off, charging and/or LED control may be out of function.	Contact your distributor.
00300 to 00309	GPS module error	The GPS module is out of function. The EXPLORER 700 cannot obtain a valid GPS position.	Contact your distributor.
00310 to 00319	WLAN module error	The WLAN interface on the EXPLORER 700 cannot be used.	Contact your distributor.
00320 to 00329	Antenna failure	The EXPLORER 700 is not able to detect the antenna.	Make sure the antenna is properly connected to the transceiver. If the problem persists, contact your distributor.
00330 to 00339	ISDN failure	The ISDN interface on the EXPLORER 700 cannot be used.	Contact your distributor.
00340 to 00349	2-wire failure	The Phone/Fax interface of the EXPLORER 700 cannot be used.	Contact your distributor.
01000 to 01009	Low temperature warning	Low ambient temperature is causing the performance of the EXPLORER 700 to be degraded or halted.	Move the EXPLORER 700 to a warmer location. For information on temperature limits, see <i>General specifications</i> on page 177.
01010 to 01019	Temperature too low (critical)	Low ambient temperature is causing the performance of the EXPLORER 700 to be degraded or halted.	Move the EXPLORER 700 to a warmer location. For information on temperature limits, see <i>General specifications</i> on page 177.

ID	Alarm Text	Explanation	Remedy
01100 to 01109	High temperature warning	High ambient temperature is causing the performance of the EXPLORER 700 to be degraded or halted.	Move the EXPLORER 700 to a cooler location. For information on temperature limits, see <i>General specifications</i> on page 177.
01110 to 01119	Temperature too high (critical)	Critically high temperature is causing the terminal to shut down.	Move the terminal to a cooler location. For information on ambient temperature limits, see the installation manual. Contact your distributor if the problem persists.
01200 to 01209	Battery level low	The battery is running out of power.	Recharge the battery or replace it with a new one.
01300 to 01309	No GPS fix	The GPS receiver has not yet achieved position fix.	Make sure the view to the GPS satellites is not blocked. To help the EXPLORER 700 obtain GPS fix, it should be placed flat on an even surface pointing straight upwards, with a clear view to as much of the sky as possible. Note that in some cases it may take up to 10 minutes to obtain GPS fix.
01400 to 01409	Satellite signal lost	The EXPLORER 700 no longer receives a signal from the satellite.	Make sure the EXPLORER 700 has a clear view to the satellite. Check that the antenna is pointed according to the position data. Adjust the position to the highest possible signal strength.
01500 to 01509	SIM card missing	No SIM card is detected in the SIM slot.	Insert SIM card. If the SIM card is already inserted, try removing and reinserting it.

ID	Alarm Text	Explanation	Remedy
01600 to 01609	SOS calls only	The SIM card is not accepted by the network. Only emergency calls are allowed.	Enter the PIN and wait for network approval. If the problem persists, contact your Airtime Provider.
01700 to 01709	Registration for voice failed	The EXPLORER 700 has not yet been allowed to register for voice services (Circuit Switched).	If the problem persists, contact your Airtime Provider.
01800 to 01809	Registration for data failed	The EXPLORER 700 has not yet been allowed register for data services (Packet Switched).	If the problem persists, contact your Airtime Provider.
01900 to 01909	Temperature too low for charging	The temperature is too low for the battery charger to operate.	If charging is needed, move the EXPLORER 700 to a warmer location. The temperature must be above 0°C/+32°F for the battery charger to operate.
02000 to 02009	Satellite signal weak	The signal from the satellite is weak.	Check the line of sight to the satellite. Be aware that window glass may reduce the signal level.  Check that the antenna is pointed according to the position data. Adjust the position to the highest possible signal strength.
02100 to 02109	Ciphering off	The network has turned ciphering off.	Do not transmit data that requires ciphering.
02200 to 02209	Ethernet data session failed	Ethernet data session could not be established.	See the display call log for the cause of the error. Refer to <i>Calls menu</i> on page 45.  If the problem persists, contact your distributor.

ID	Alarm Text	Explanation	Remedy
02400 to 02409	Invalid battery	The EXPLORER 700 is not able to detect the battery type. The reason may be one of the following: <ul style="list-style-type: none"> <li>You are not using an original Thrane &amp; Thrane battery</li> <li>The battery is defective</li> </ul>	The EXPLORER 700 requires an original Thrane & Thrane battery. If you are already using an original Thrane & Thrane battery when you see this alarm, contact your distributor for support.
02600 to 02609	Antenna failure	Calibration data lost	Do not use the EXPLORER 700. Contact your distributor.
02800 to 02809	Bluetooth device database full	The list of paired Bluetooth devices is full. The EXPLORER 700 does not allow more than 7 paired devices.	Unpair a paired device to make room for a new one. For information on how to unpair devices, see <i>Unpairing devices</i> on page 126.
02810 to 02819	Bluetooth overload blocks power save	Too many Bluetooth devices are in sleep mode. Power save is blocked.	Unpair a device. The alarm may take a while to be cleared. If the alarm is not cleared, unpair one more device.
02900 to 02909	Network failed authentication	The EXPLORER 700 does not accept the network as a valid BGAN network.	Restart the EXPLORER 700. If the problem persists, contact your distributor.
03000 to 03009	Antenna burst loss	The antenna failed to transmit.	If the problem persists, contact your distributor.
03100 to 03109	Antenna cable loss calibration failed	The antenna cable loss cannot be determined. The cable may be broken or too long. See <i>Antenna interface on Transceiver</i> on page 186 for max. cable length.	Use another cable, or try disconnecting and reconnecting the cable.

ID	Alarm Text	Explanation	Remedy
03300 to 03309	Antenna link down	<p>There is no connection with the antenna. The reason may be one of the following:</p> <ol style="list-style-type: none"> <li>1. The cable is not connected properly or the cable is defective.</li> <li>2. A processor in the antenna is faulty</li> </ol>	<ol style="list-style-type: none"> <li>1. Check the cable and the connectors. Replace the cable if necessary.</li> <li>2. Contact your supplier for repair of the antenna</li> </ol>
03500 to 03509	2-wire calibration failure	<p>2-wire calibration failed on the Phone/Fax interface, because of:</p> <ol style="list-style-type: none"> <li>1. Common mode balance error.</li> <li>2. The hook is off.</li> <li>3. Wires are shorted to each other or shorted to ground.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check the wires to your phone or fax.</li> <li>2. Put the hook on.</li> <li>3. Check the wires.</li> </ol>
03600 to 03609	2-wire operational failure	<p>The Phone/Fax interface fails to operate, for one of the following reasons:</p> <ol style="list-style-type: none"> <li>1. Ground shorted.</li> <li>2. Power overload.</li> <li>3. Temperature overload.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check the wires.</li> <li>2. Wait until the alarm is cleared; then try again.</li> <li>3. Wait until the alarm is cleared; then try again.</li> </ol>
03700 to 03709	Calibration error	<p>The EXPLORER 700 has lost calibration data. Performance is degraded.</p>	<p>Contact your distributor for recalibration.</p>



ID	Alarm Text	Explanation	Remedy
03800 to 03809	Software upload in progress	The EXPLORER 700 is loading new software into the antenna.	Do not detach the antenna until the upload procedure is ended.  The upload procedure is also indicated by the red Message indicator next to the display flashing rapidly.  If upload is not done and the alarm is not cleared within 10 minutes, contact your distributor.

## Log files

### Diagnostic report

When contacting Thrane & Thrane for support, please include a diagnostic report. The diagnostic report contains information relevant for the service personnel during troubleshooting.

To generate the diagnostic report, access the web interface and select **Help Desk**. Then click **Generate report**.

### Alarm log

The alarm log holds information of all alarms issued by the EXPLORER 700.

The log includes the time of the error, a short description, location of the error etc. This information can help troubleshooting errors in the EXPLORER 700. The Alarm log is not accessible from the user interface, but is included when you generate a diagnostic report. For information, see *Help desk and diagnostic report* on page 153.

### Call log

The call log holds information of up to 100 calls and data sessions to/from the EXPLORER 700.

The call log contains detailed information such as date, time, phone numbers, duration, Mb transferred etc., for each call or data session.

Date and time is UTC time, received from the satellite.

For information on how to view the call log in the display, see *Calls menu* on page 45.

For information on how to view the call log in the web interface, see *Viewing the lists of calls* on page 98.

## Technical specifications

### In this appendix

This appendix contains technical specifications for the EXPLORER 700 and information on Conformity.

### General specifications

The EXPLORER 700 meets or exceeds current and proposed Inmarsat specifications for operation on the Inmarsat Broadband Global Area Network.

Item	Specification
Type	EXPLORER 700, BGAN Class 1 Terminal
Max. IP data rate, Rx/Tx <sup>a</sup> Streaming data	492 kbps/492 kbps (simultaneously) 32, 64, 128, 256 kbps
Physical dimensions Total Antenna Transceiver	297 mm x 399 mm x 51 mm/11.7" x 15.7" x 2.0" 297 mm x 399 mm x 51 mm/11.7" x 15.7" x 2.0" 280 mm x 228 mm x 40 mm/11.0" x 8.9" x 1.6"
Weight Total Antenna Transceiver with battery	3.2 kg/7.0 lbs 1.7 kg/3.7 lbs 1.5 kg/3.3 lbs
Environmental conditions Operating temperature Powered by external DC Powered from battery Storage temperature Without battery With battery Relative humidity Water & Dust Transceiver Antenna Max. wind-load	-25°C to +55°C/-13°F to +131°F 0°C to +55°C/+32°F to +131°F -40°C to +80°C/-40°F to +176°F -20°C to +60°C/-4°F to +140°F 95% non-condensing at +40°C/+104°F IP-52 IP-66 18 m/s or 59 ft/s (Operational)

Item	Specification
Robustness	0.5 m/1.64 ft drop on concrete (Operational, 95% survival)
Supported web browsers (Other browsers may be supported as well, but only these have been tested.)	Microsoft Internet Explorer 6.0 Mozilla Firefox 1.0 Apple Safari 2.0

a. Performance depends on a wide range of factors and actual usage.

## Battery

### Specifications

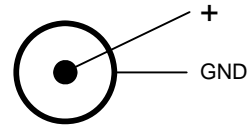
Item	Specification
Battery type	Lithium ion, rechargeable
Voltage	11.1 V
Capacity	4.4 Ah
Time between recharging Standby time <sup>a</sup> Tx time, max Rx time, max	36 hours at 25°C/77°F 2 hours 30 minutes @ 144 kbps (158 MB), 25°C/77°F 1 hour 30 minutes @ 492 kbps (324 MB), 25°C/77°F 3 hours 30 minutes @ 492 kbps (756 MB), 25°C/77°F
Charge time <sup>a</sup>	2 hours 30 minutes
Charge temperature	0°C to +45°C/+32°F to +113°F Ambient
Min. charge cycles	300
Storage temperature 1 Month 3 Months 1 Year	-20°C to +60°C/-4°F to +140°F Ambient -20°C to +45°C/-4°F to +113°F Ambient -20°C to +20°C/-4°F to +68°F Ambient

a. Performance depends on a wide range of factors and actual usage.

## Power input

### Connector pin-out

This drawing shows the pin-out for the DC Power connector.



### Specifications

Item	Specification
DC input range	+10 to +32 V DC
Power consumption <sup>a</sup>	
Standby mode	1.2 W (Typical)
Transmit mode	18 W (Typical)
During charging	65 W max.
Connector type	2.5/5.5mm power jack, Switch craft RAPC 712

a. Performance depends on a wide range of factors and actual usage.

### AC/DC adapter, FSP 065-AAC

Item	Specification
AC input range	100 to 240 V AC, 1.5 A, 47 to 63 Hz
DC output	19 V DC, 65 W

## SIM interface

### USIM #1 Specifications

Item	Specification
Slot type	Standard SIM card holder

### USIM #2 Specifications

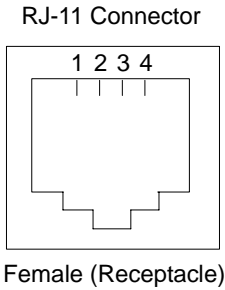
USIM #2 is reserved for future use.

## Phone/Fax interface, 2-port

### Connector pin-out

The pin-out for the Phone/Fax connectors is as follows:

Pin	Function
1	NC
2	Tip
3	Ring
4	NC



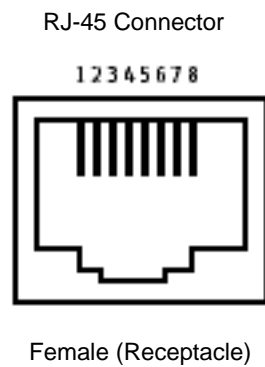
### Specifications

Item	Specification
Number of connectors	2
Connector type	RJ-11, female
Impedance	180 $\Omega$ + 750 $\Omega$ /150nF
Max. cable length	100 m/80 $\Omega$
Max. units connected	Two units, one in each connector

## ISDN interface, 2-port

### Connector pin-out

The pin-out for the ISDN connectors is as follows:



Pin	Function
1	NC
2	NC
3	Rx+
4	Tx+
5	Tx-
6	Rx-
7	NC
8	NC

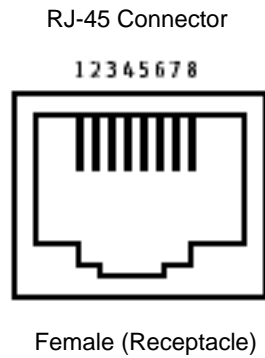
### Specifications

Item	Specification
Number of connectors	2
Connector type	RJ-45, female
Max. number of units per interface	8 (Max. total power supplied: 1 W)
Data rate	
Voice	4 kbps
Data	64 kbps
Audio	3.1 kHz
Max. cable length	100 m

## LAN interface, 2-port

### Connector pin-out

The pin-out for the LAN connectors is as follows:



Pin	Function
1	Rx +
2	Rx -
3	Tx +
4	NC
5	NC
6	Tx -
7	NC
8	NC

### Specifications

Item	Specification
Number of connectors	2
Connector type	RJ-45, female, Auto cross-over MDI/MDI-X (IEEE 802.3 10/100BaseT)
Standard	ISO/IEC 8877:1992 and IEEE 802.3 1998 Edition
Max. data rate	10/100 Mbps
Max. cable length	100 m/328 ft with Cat5 UTP

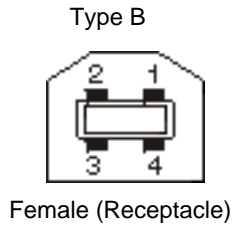


## USB interface

### Connector pin-out

The pin-out for the USB connector is as follows:

Pin	Function
1	+5 V DC
2	D -
3	D +
4	GND



### Specifications

Item	Specification
Version	1.1 (Slave)
Connector type	B, female
Max. data rate	12 Mbps
Max. cable length	5 m/16.4 ft
Max. units connected	7 physical devices
Driver	Proprietary, enclosed on CD with the product

## WLAN Access Point

### Specifications

Item	Specification
Standard	IEEE 802.11 a/b/g
Antenna	Dual space diversity antennas integrated in transceiver unit
Frequencies	2.4 GHz (802.11b/g) or 5 GHz (802.11a)
Max. coverage outdoor <sup>a</sup>	100 m/328 ft
Max. data rate <sup>a</sup>	54 Mbps

a. Performance depends on a wide range of factors and actual usage.

## Bluetooth interface

### Specifications

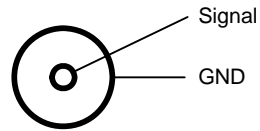
Item	Specification
Version	1.2
Standard	Power Class 1. The Class 1 interface also supports Class 2 and Class 3 peripherals if they support RSSI (Received Signal Strength Indicator).
Antenna	Integrated in transceiver unit
Physical media	Frequency-Hopping Spread Spectrum RF
Max. data rate	721 kbps + 57.6 kbps
Frequency	2400 to 2483.5 MHz
Max. coverage outdoor <sup>a</sup>	100 m/328 ft
Max. number of devices connected	7
Profiles supported	Cordless Telephony Profile (CTP) Service Discovery Application Serial Port Profiles (SPP): <ul style="list-style-type: none"> <li>• Dial-up Networking (DUN)</li> <li>• LAN Access Profile (LAP)</li> <li>• Headset Profile (HSP)</li> </ul>

a. Performance depends on a wide range of factors and actual usage.

## Antenna interface on Transceiver

### Connector pin-out

This drawing shows the antenna connector on the transceiver.



### Specifications

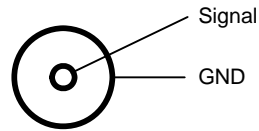
Item	Specification
Connector type	TNC, female
Max. cable length	100 m/328ft, single cable, 50 $\Omega$
Max. cable loss	1.4 $\Omega$ total <sup>a</sup> /20 dB @ 1.5 GHz
Max. current rating for cables	2.5 A

a. Note that this is the sum of the inner conductor resistance and the GND shield resistance.

## Detachable antenna

### Connector pin-out

This drawing shows the connector on the detachable antenna of the EXPLORER 700.



### Specifications

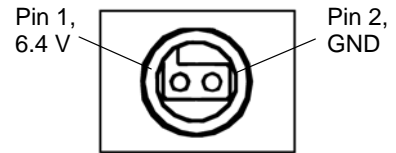
Item	Specification
Type	Directional patch array, manually adjustable
Polarization	RHCP
Connector type	QN, female
Frequencies	
Inmarsat	
Transmit	1626.5 to 1660.5 MHz
Receive	1525.0 to 1559.0 MHz
Bearer bandwidth	200 kHz
GPS	1575.42 MHz
EIRP	20 dBW $\pm$ 1 dB

## EXPLORER<sup>®</sup> Bluetooth Handset charger interface

### Connector pin-out

This drawing shows the connector for the EXPLORER Bluetooth Handset charging interface.

Pin 1 is the pin closest to the coding projection on the plastic insert.



### Specifications

Item	Specification
Connector type	Proprietary
Output	6.4 V/350 mA

## Solar panel interface

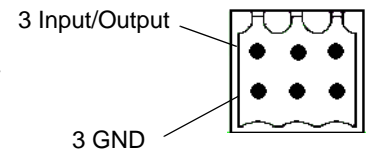
### Specifications

Item	Specification
Connector type	DC input connector (for pin-out, see <i>Power input</i> on page 179)
Solar panel type	12 V unregulated solar panels, built-in Maximum Power Point Tracking for solar panel regulation.
Max. open circuit voltage	32 V
Max. Power Point voltage	28 V
Suitable power range	5 W to 100 W (a good selection will be 35 W to 40 W)

## I/O interface

### Connector pin-out

This drawing shows the connector for the Input/Output interface.



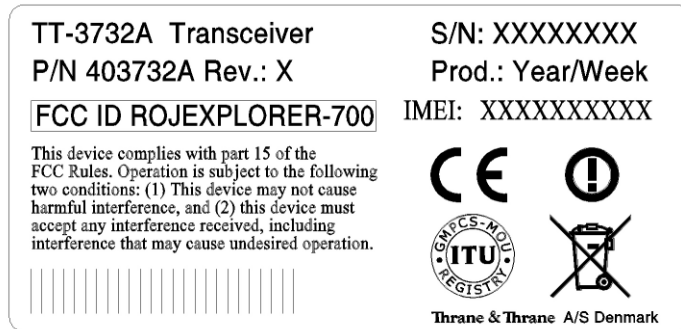
### Specifications

Item	Specification
Connector type	1 TT31-203302-403, S2L SMT 3.5/6/90G, Weidmuller 1794210000
Function	3 input/output
Input	TTL-level, voltage 0 V to 32 V
Output	Sinking current max. 50 mA, voltage 0 V to 32 V

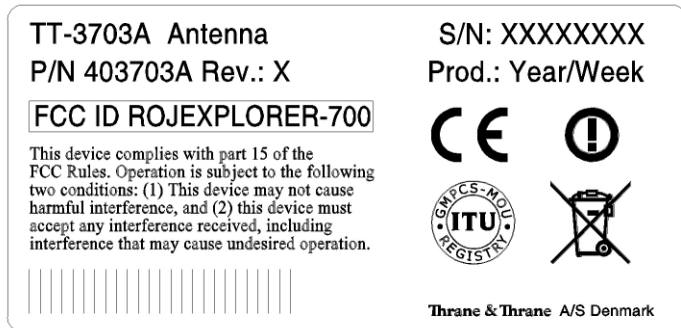


## Serial number labels

The following label is placed on the transceiver part of the EXPLORER 700.



The following label is placed on the antenna part of the EXPLORER 700.



“Xes” are replaced by the relevant numbers for the specific transceiver/antenna.

## Conformity

### CE (R&TTE)

The EXPLORER 700 is CE certified (R&TTE directive) as stated in “Declaration of Conformity with R&TTE Directive”, enclosed in electronic copy on the next page.

The WLAN interface is CE certified through the manufacturer of the WLAN card.

#### Use of WLAN:

The WLAN interface requires that the user enters the current country of operation. See *Configuring the WLAN interface* on page 119.

For use in the EU, the following restrictions apply:

- France: Outdoor use must be limited to 10 mW EIRP within the frequency band 2454 MHz to 2483.5 MHz.
- Italy: Outdoor use outside own premises require general authorization.

#### Use of Bluetooth:

Thrane & Thrane have sent notification to all countries in the EU for use of the Bluetooth interface. Individual license may be required in some countries outside the EU and USA.

For use in the EU, the following restrictions apply:

- France: Outdoor use must be limited to 10 mW EIRP within the frequency band 2454 MHz to 2483.5 MHz.
- Italy: Outdoor use outside own premises require general authorization.

### FCC

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1) This device may not cause harmful interference, and
- 2) this device must accept any interference received, including interference that may cause undesired operation.

#### Part 15.21

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

#### Note

The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

#### FCC Caution

Operation of the WLAN within the 5745~5825MHz frequency range is restricted to indoor environments. See also *FCC Radiation Exposure statement* at the beginning of this manual.

### GMPCS

The EXPLORER 700 has obtained the GMPCS-MoU mark.

## Thrane & Thrane A/S

### Declaration of Conformity with R&TTE Directive

The undersigned of this letter declares that the following equipment complies with the specifications of EC directive 1999/5/EC concerning Radio & Telecommunications Terminal Equipment.

#### Equipment included in this declaration

TT-3720A	EXPLORER™ 700	PN = 403720A
Consisting of: TT-3732A	EXPLORER™ 700 Transceiver	PN = 403732A
TT-3703A	EXPLORER™ 700 Antenna	PN = 403703A
TT-3686P	EXPLORER™ 700 Battery	PN = 403686P
TT-3682P	AC/DC Adapter	PN = 403682P (FSP065-AAC)

#### Equipment Applicability

The TT-3720A EXPLORER™ 700 is a mobile terminal that provides voice, fax or high-speed data communication through the Inmarsat satellite service world wide between a mobile terminal and any destination in the world. The Bluetooth and WLAN band A (2.4GHz) interface of the terminal has restrictive use in France and Italy in EU. The use of WLAN is controlled by a country code loaded in the terminal. The Inmarsat interface to a satellite has no restriction in use. See the User manual for further information.

#### Declaration

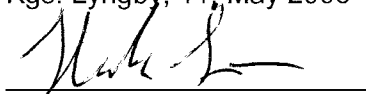
The safety requirement with respect to the LVD directive 73/23/EC is met by conforming to the harmonized EU standard EN 60950. The protection requirement with respect to the EMC directive 89/336/EC is met by conforming to the harmonized EU standards ETSI EN 301489-1, ETSI EN 301489-17 and ETSI EN 301489-20. Effective use of frequency spectrum is met by conforming to the harmonized EU standards ETSI EN 301444 and ETSI EN 300328.

#### Manufacturer

Thrane & Thrane A/S, Lundtoftegårdsvej 93D, DK-2800 Kgs. Lyngby, Denmark

#### Place and Date

Kgs. Lyngby, 11, May 2006



Henrik Lunde, CEO



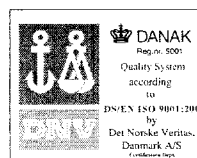
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# AT commands

## In this appendix

This appendix contains a list of AT Commands for the EXPLORER 700.

## Starting up an AT command session

Set up your computer to use either the USB or Bluetooth interface. For further information, see *Using the USB interface* on page 75 or *Using a computer with Bluetooth* on page 79.

Connect your computer to the USB or Bluetooth interface of the EXPLORER 700 and launch your terminal program.

The following section contains a list of commands that can be used with the EXPLORER 700. For further information on the AT commands, refer to the following standards:

- **ITU V.250** Serial asynchronous automatic dialing and control
- **3GPP TS 27.005 ver. 4.2.0**, Use of Data Terminal Equipment - Data Circuit terminating Equipment (DTE-DCE) interface for Short Message Service (SMS) and Cell Broadcast Service (CBS)
- **3GPP TS 27.007 ver. 4.6.0**, AT command set for User Equipment (UE)

3GPP standards are found on [www.3gpp.org](http://www.3gpp.org)

ITU standards are found on [www.itu.int](http://www.itu.int)

## List of supported AT commands

Command	Function
ATA	Answer
ATD	Dial
ATE	Command echo
ATH	Hang up
ATI	Request identification information
ATL	Monitor speaker loudness
ATM	Monitor speaker mode
ATN	Automode control
ATP	Select pulse dialing (command)
ATQ	Result code suppression
ATS	Set register
ATT	Select tone dialing (command)
ATV	DCE response format
ATX	Result code selection and call progress monitoring control
ATZ	Reset to default configuration
AT&C	Circuit 109 (Received line signal detector) behavior
AT&D	Circuit 108 (Data terminal ready) behavior
AT&F	Set to factory defined configuration
AT&V	Display active and stored profile
AT&W	Store profile
AT+CACM	Accumulated call meter
AT+CAEMLPP	eMLPP priority registration and interrogation
AT+CALM	Alert sound mode
AT+CAMM	Accumulated call meter
AT+CAOC	Advice of charge

Command	Function
AT+CBC	Battery charge
AT+CBST	Select bearer service type
AT+CCFC	Call forwarding number and conditions
AT+CCLK	Clock
AT+CCUG	Closed user group
AT+CCWA	Call waiting
AT+CCWE	Call meter maximum event
AT+CDIP	Called line identification presentation
AT+CEER	Extended error report
AT+CFCS	Fast call setup conditions
AT+CFUN	Set phone functionality
AT+CGACT	PDP context activate or deactivate
AT+CGATT	PS attach or detach
AT+CGCLASS	GPRS mobile station class
AT+CGCMOD	PDP context modify
AT+CGDATA	Enter data state
AT+CGDCONT	Define PDP context
AT+CGDSCONT	Define secondary PDP context
AT+CGEQMIN	3G quality of service profile (minimum acceptable)
AT+CGEQNEG	3G quality of service profile (negotiated)
AT+CGEQREQ	3G quality of service profile (requested)
AT+CGEREP	Packet domain event reporting
AT+CGMI	Request manufacturer identification
AT+CGMM	Request model identification
AT+CGMR	Request revision identification
AT+CGPADDR	Show PDP address

Command	Function
AT+CGQMIN	Quality of service profile (minimum acceptable)
AT+CGQREQ	Quality of service profile (requested)
AT+CGREG	GPRS network registration status
AT+CGSMS	Select service for MO SMS messages
AT+CGSN	Request product serial number identification
AT+CGTFT	Traffic flow template
AT+CHLD	Call related supplementary services
AT+CHUP	Hang-up call
AT+CIMI	Request International Mobile Subscriber Identity
AT+CIND	Indicator control
AT+CLAC	List all available AT commands
AT+CLCC	List current calls
AT+CLCK	Facility lock
AT+CLIP	Calling line identification presentation
AT+CLIR	Calling line identification restriction
AT+CMAR	Master reset
AT+CMEC	Mobile equipment control mode
AT+CMEE	Report mobile equipment error
AT+CMER	Mobile equipment event reporting
AT+CMGC	Send command
AT+CMGD	Delete message
AT+CMGF	Message format
AT+CMGL	List messages
AT+CMGR	Read messages
AT+CMGS	Send message
AT+CMGW	Write message to memory

Command	Function
AT+CMOD	Call mode
AT+CMSS	Send message from storage
AT+CNMI	New message indication to TE
AT+CNUM	Subscriber number
AT+COLP	Connected line identification presentation
AT+COPN	Read operator names
AT+COPS	PLMN selection
AT+CPAS	Phone activity status
AT+CPBF	Find phone book entries
AT+CPBR	Read phone book entries
AT+CPBS	Select phone book memory storage
AT+CPBW	Write phone book entry
AT+CPIN	Enter PIN
AT+CPLS	Selection of preferred PLMN list
AT+CPMS	Preferred message storage
AT+CPOL	Preferred PLMN list
AT+CPPS	eMLPP subscriptions
AT+CPUC	Price per unit and currency table
AT+CPWD	Change password
AT+CR	Service reporting control
AT+CRC	Cellular result codes
AT+CREG	Network registration
AT+CRSM	Restricted SIM Access
AT+CSCA	Service center address
AT+CSCS	Select TE character set
AT+CSDF	Settings date format



Command	Function
AT+CSIL	Silence command
AT+CSMS	Select message service
AT+CSQ	Signal quality
AT+CSSN	Supplementary service notifications
AT+CSTA	Select type of address
AT+CSTF	Settings time format
AT+CSVM	Set voice mail number
AT+CUSD	Unstructured supplementary service data
AT+CAAP	Automatic answer for eMLPP Service
AT+FCLASS	Select mode
AT+GCAP	Request complete capabilities list
AT+GCI	Country of Installation
AT+GMI	Request manufacturer identification
AT+GMM	Request model identification
AT+GMR	Request revision identification
AT+GSN	Request product serial number identification
AT+ICF	DTE DCE character framing
AT+IFC	DTE-DCE local flow control
AT+ILRR	DTE-DCE local rate reporting
AT+IPR	Fixed DTE rate
AT+WS46	PCCA STD-101 [17] select wireless network
AT_IBLTH	Bluetooth management
AT_IBNOTIFY	Control the sending of unsolicited result codes
AT_IBTIF	Bluetooth configuration
AT_IBTINQ	Bluetooth inquiry management
AT_IGPS	GPS location information

<b>Command</b>	<b>Function</b>
AT_ILOG	Retrieve log file from the EXPLORER 700
AT_IMETER	Call metering
AT_INIS	Network interface status
AT_IPOINT	Antenna pointing
AT_ISIG	Signal quality indication
AT_ITCSI	Configure incoming call type
AT_ITCSO	Configure outgoing call type
AT_ITEMP	Temperature in the EXPLORER 700
AT_ITISDN	ISDN Configuration
AT_ITMSN	Configuration of MSN numbers to an interface/call type
AT_ITMSNLIST	Return valid MSN numbers for the interfaces
AT_ITNAT	Configure NAT for an interface
AT_ITWLAN	WLAN Configuration
AT_ITWLANCC	WLAN Country Code
AT_ITWLANF	WLAN Filters
AT_ITWLANMAC	WLAN MAC Address

## A

- APN** Access Point Name. The Access Point Name is used by the EXPLORER 700 user to establish the connection to the required destination network.
- AT Commands** ATtention commands. A modem control language defined by Dennis Hayes. Also known as the Hayes AT Command set.

## B

- BGAN** Broadband Global Area Network. A satellite network based on geostationary satellites, delivering data rates of up to 492 kbps to virtually any part of the earth, with full UMTS (3G) compatibility.

## C

- CE** Conformité Européenne. This term signifies that a CE certified product conforms to European health, environmental, and safety regulations. In short, it makes the product legal to be sold in the European Union.
- CID** Context IDentifier

## D

- DHCP** Dynamic Host Configuration Protocol. A protocol for assigning dynamic IP addresses to devices on a network. With dynamic addressing, a device can have a different IP address every time it connects to the network.

## E

- EIRP** Effective Isotropic Radiated Power. EIRP is the apparent power transmitted towards the receiver, if it is assumed that the signal is radiated equally in all directions.

## F

- FCC** Federal Communications Commission. An independent United States government agency, directly responsible to Congress. FCC certification is normally required to make a product legal to be sold in the United States.

**G**

Geostationary	Placed in a fixed position relative to a point on the surface of the earth.
GMPCS	Global Mobile Personal Communications by Satellite. GMPCS is a personal communication system providing transnational, regional or global coverage from satellites.
GMPCS-MoU	A framework signed by Member States, GMPCS System Operators, Terminal Manufacturers and Service Providers. The GMPCS-MoU mark allows GMPCS subscribers to take terminals anywhere and use them in countries where they are licensed.
GPRS	General Packet Radio Service. A standard for wireless communications which runs at speeds up to 115 kbps, compared with current GSM (Global System for Mobile Communications) systems' 9.6 kbps.
GPS	Global Positioning System. A system of satellites, computers, and receivers that is able to determine the latitude and longitude of a receiver on Earth by calculating the time difference for signals from different satellites to reach the receiver.

**I**

IMSO	International Maritime Satellite Organisation. An intergovernmental body established to ensure that Inmarsat continues to meet its public service obligations, including obligations relating to the GMDSS.
ISDN	Integrated Services Digital Network. An international communications standard for sending voice, video, and data over digital telephone lines or normal telephone wires. ISDN supports data transfer rates of 64 kbps.
ISP	Internet Service Provider

**K**

kbps	kilobits per second
------	---------------------

**L**

LaunchPad	LaunchPad is a PC application used to control terminals in the BGAN system. LaunchPad is provided on the Inmarsat CD-ROM supplied with your EXPLORER 700. Use of the LaunchPad is described in the user guide on the same CD-ROM.
-----------	---

**M**

**MAC** Media Access Control address. A hardware address that uniquely identifies each node of a network.

**N**

**NAT** Network Address Translation. An Internet standard that enables a local-area network to use one set of IP addresses for internal traffic and a second set of addresses for external traffic. A NAT module makes all necessary address translations.

**NC** Not Connected

**P**

**Pairing** Bluetooth Pairing happens when two Bluetooth enabled devices agree to communicate. The two devices exchange passkeys and join what is called a trusted pair. In a trusted pair, the two devices automatically accept communication with each other.

**Passkey** A unique code or password used when pairing Bluetooth devices.

**PCB** Printed Circuit Board

**PDA** Personal Digital Assistant. A lightweight, hand-held, usually pen-based computer used as a personal organizer.

**PDP** Packet Data Protocol. A network protocol used by external packet data networks that communicate with a GPRS network.

**PIN** Personal Identification Number. A code number used to provide access to a system that has restricted access.

**PUK** PIN Unlocking Key. An eight-digit code used to unblock a SIM card after three incorrect PINs have been entered. The PUK code is supplied with the SIM card.

**R**

**RDI** Restricted Digital Information

**RHCP** Right-Hand Circular Polarization

**RSSI** Received Signal Strength Indicator

**S**

SAS	Satellite Access Station. The gateway between the satellites and the worldwide networks such as Internet, telephone network, cellular network etc.
SDU	Service Data Unit. Also known as a data packet.
SIM	Subscriber Identity Module. The SIM provides secure storing of the key identifying a mobile phone service subscriber but also subscription information, preferences and storage of text messages.
SSID	Service Set Identifier. An SSID is the name of a wireless local area network (WLAN). All wireless devices on a WLAN must use the same SSID in order to communicate with each other.
Streaming	A technique for transferring data - such as audio or video clips - so that it is processed as a continuous stream. With a Streaming connection you are charged by the minute, like for a telephone connection.

**U**

UDI	Unrestricted Digital Information. A transparent 64 kbps data channel.
USB	Universal Serial Bus. An interface standard for communication between a computer and external peripherals over an inexpensive cable using biserial transmission. Mostly used with keyboards, mice, monitors and printers.

**V**

VPN	Virtual Private Network. A network that is constructed by using public wires to connect nodes. You can create networks using the Internet for transporting data, using security mechanisms so that only authorized users can access the network.
-----	--

**W**

WLAN	Wireless Local Area Network. A type of local-area network that uses high-frequency radio waves rather than wires to communicate between nodes.
------	--

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