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1. **WELCOME TO GLOBESURFER® II**

Within minutes, you can connect to your mobile network and use a wireless connection to the Internet through the mobile network. GlobeSurfer® II is compatible with GSM and 3G mobile networks and supports GPRS, EDGE, UMTS and HSDPA technologies.

Tip: To achieve the best possible reception, check the signal strength on the display of the unit (the more bars the better the reception). You may find that placing the unit near a window provides the best reception.

**Simple set-up**

GlobeSurfer® II provides you with a quick installation and set-up that gets you easily and quickly connected to the Internet. You can use an Internet browser (e.g. Internet Explorer 6.0 or Firefox 1.5) and most personal computers, including Windows®, Macintosh® and Linux®. The ‘Quick Setup Wizard’ introduces you to the basic settings that need to be configured for use with the mobile network. Once you have configured, you can review and enable customised wireless security settings.

**Instant protection**

Your GlobeSurfer® II supports Network Address Translation (NAT). This network service hides the computers in your network so they cannot be found or directly accessed from outside your network. A firewall is also included which, by default, blocks incoming traffic and allows outgoing traffic.

**Additional security**

GlobeSurfer® II supports both Wireless Equivalent Privacy (WEP) and Wi-Fi Protected Access (WPA and WPA2) to protect your network data. Security logs keep you aware of potential security risks and intrusion attempts. You can view logs online or via e-mail.
Stay in touch

You can use GlobeSurfer® II to send and receive SMS text messages. The display on the front of the unit lets you know when a new SMS arrives.
You can use GlobeSurfer® II to make mobile phone calls. When you get a phone call the display shows the caller’s number and indicates missed calls.

Important note

To protect your network from unauthorised access, and to make it more difficult for hackers to analyse your data, please configure the WLAN security settings and enable WEP, WPA or WPA2 encryption on your GlobeSurfer® II.

2. COPYRIGHT

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Version 1.1

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Information published in this user guide is accurate at the time of publication.
Although all security precautions were taken during the creation of this user guide Option is not liable toward persons or organisations for losses or damages caused either directly or indirectly due to instructions contained in this user guide.
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Information about Option GlobeSurfer® II may change without prior notice. The content of this user guide was accurate at the time of publication. Although all security precautions are taken during the creation of this user guide Option is not liable toward persons or organisations for losses or damage caused either directly or indirectly due to instructions contained in this user guide.
3. YOUR GLOBESURFER® II

3.1 Buttons and connections

1. Display. Toggles between main screen and missed calls.
2. On / Off. Press to turn the unit on and off.
3. Connect. Press to connect or disconnect your local network to or from the mobile network.
   Tip: Can also be configured to automatically connect or disconnect as required. See ‘Quick Setup’ on page 32.
4. SIM card slot. Insert or remove the SIM card: press carefully until it snaps in or releases.
5. Telephone. Plug your home telephone into the unit.
6. LAN. Plug the LAN Ethernet cable into the unit.
   The LAN connection handles 10/100 Mbit/s.
7. DC 5V Input socket: plug in the power adapter DC cable.
8. Restore defaults. This button is hidden underneath the unit. Press it with a pointed object, like a paper clip, to restore the unit to its factory default settings. This may be required when you want to build a new network from scratch, or when changes to network have become unclear or when the admin password has been lost.
**Note:** All web-based management settings and parameters, not only those in the Advanced section, are re-stored to their default values. The administrator password is no longer valid. All other user names are deleted. All personal configuration settings are deleted, including all SMS messages in the GlobeSurfer® II memory. Messages on the SIM card are not affected.

**Tip:** Leave the unit on so that you can connect to the Internet at the push of a button, or automatically if that option is selected. The unit is connected when “Connected” shows on the main screen of the GlobeSurfer® II front panel display.

### 3.2 The front panel display

#### 3.2.1 The main screen

1. New SMS received. If blinking, the SMS memory is full. Tip: delete a few messages to leave space to receive more.

2. Phone icon indicates a missed call. It disappears after you have viewed every missed call.

3. Computer icon and number of computers associated with GlobeSurfer® II via the WLAN.
4. Current time. Displayed when the clock is synchronised.
5. The five bars indicate the mobile signal strength.
6. Connection status.
7. Mobile connection type: GPRS, EDGE, UMTS or HSDPA.
8. The name (or identifier) of your Mobile operator.

### 3.2.2 Incoming calls

When you get an incoming call the phone number is displayed:

![Incoming call display](image)

See ‘Making Phone calls’ on page 20.

### 3.2.3 Missed calls

When you press the ‘Display’ button missed calls are displayed. See ‘Buttons and connections’ on page 5.

![Missed calls display](image)

1. Missed Calls
2. Current time. Displayed when the clock is synchronised with the network.
3. Call sequence number and total number of missed calls.
4. Phone number of missed call.
5. Date and time of last missed call from that phone number.

Press the ‘Display’ button repeatedly to step through all missed calls until you return to the main screen.

3.2.4 The display screen saver

A screen saver feature is included to preserve the quality of the display on the unit. When the display is inactive for a short time, the screen saver activates showing a moving image of the current time.
3.3 Guidelines for safe and efficient use

GlobeSurfer® II contains sensitive electronic components as used in mobile phones and wireless routers. For safe and efficient use, please follow these guidelines:

• The GlobeSurfer II is intended for use only when powered by external power supply shipped together with equipment or other available from Option. The use of any other power supplies may invalidate regulatory approval of this product. For servicing, contact your vendor or OPTION for a suitable power supply!

• Do not connect the POTS (phone) line to telecommunication network socket outlets! The equipment could be damaged! There is a risk of electrical shock!

• Use the GlobeSurfer II only indoor and in dry location. Do not use this product near water for example, near a bathtub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, and the like. Refer to table for each interconnection point found in this user instruction.

• This device is suitable for use on TN power systems and IT-power systems connection of Norway (max 2430V/phase-phase). If you are not sure of the type of power system to your home, consult your appliance dealer or local power company.

• Do not install this product in direct sunlight. Slots and openings in the enclosure are provided for ventilation and to ensure reliable operation of the device and to protect it from overheating these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should never be placed near or over a radiator or heat register. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer’s instructions have been followed.

• Unplug the product from the wall outlet before cleaning. Do not use liquid
cleaners or aerosol cleaners. Never spill liquid of any kind on the product. Use a damp cloth for cleaning.

**CAUTION! There is risk of fire and electrical shock!**

**Equipment interconnection points**

<table>
<thead>
<tr>
<th>Interconnection</th>
<th>Category</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC input connector</td>
<td>SELV</td>
<td>5.5 / 1.2mm DC jack</td>
</tr>
<tr>
<td>SIM card connector</td>
<td>SELV</td>
<td>SIM type (ISO7816)</td>
</tr>
<tr>
<td>External antenna connector</td>
<td>SELV</td>
<td>MC-CARD type</td>
</tr>
<tr>
<td>LAN connector</td>
<td>SELV</td>
<td>RJ45</td>
</tr>
<tr>
<td>Telephone connector</td>
<td>TNV2</td>
<td>RJ11</td>
</tr>
</tbody>
</table>

**Rated Input Voltage**

| Maximum Input Voltage | 5 VDC |

SELV interconnections must only be connected to other equipment that complies with requirements of SELV-circuits as defined in EN60950-1:2001 directive.

TNV2 interconnections must only be connected to other equipment that complies with requirements of TNV2-circuits as defined in EN60950-1:2001 directive.
4. GETTING STARTED

4.1 Positioning GlobeSurfer® II

Position GlobeSurfer® II to ensure the following:

- A good mobile signal: you may find that placing the unit near a window provides the best reception.
- A good wireless signal: centrally located and quite high up, or close to a window to optimise wireless connections to computers in both horizontal and vertical directions, allowing wider coverage.
- The computer or network hub that will be connected to the LAN port is nearby.
- A power outlet is within easy reach.
- The GlobeSurfer® II display is in sight, and the buttons and connectors are within easy reach.
- At least 20 cm away from your person.
- Out of direct sunlight and away from heat sources, power lines, fluorescent lighting fixtures, and electrical noise such as radios, transmitters and broadband amplifiers.
- Water or moisture cannot enter the case of the unit.

4.2 Connect your phone

You can use a typical corded or cordless home telephone. Plug your phone into the phone socket on GlobeSurfer® II and you are ready to make calls through the mobile network.

To connect a DECT or wireless telephone you must plug the base unit into GlobeSurfer® II. You can connect the first telephone outlet into GlobeSurfer® II and thus connect all home telephones through GlobeSurfer® II to your mobile network.
Note: You can not connect a mobile phone to GlobeSurfer® II.

4.3 First time use

You need a SIM card from your mobile operator to use GlobeSurfer® II. Please insert the SIM card before you plug in the power adapter.

Step 1: Insert the SIM card.
Insert the SIM card into the slot on the right-hand side of GlobeSurfer® II. Press carefully until it snaps into place.
Tip: The orientation notch must face downward to the left with the gold plated contacts facing away from you.

Step 2: Connect the power adapter.
Caution: Use the power adapter supplied with GlobeSurfer® II. Using a different power adapter can damage GlobeSurfer® II. Plug the power adapter into the AC mains and plug the DC cable firmly into the 5V DC input of GlobeSurfer® II.
The unit powers-up within about 30 seconds.

**Step 3:** Connect your computer

Note: DO NOT enter the PIN code now! Enter it during ‘Step 6’.

When the message ‘Enter PIN’ is displayed, connect your computer to GlobeSurfer® II using a LAN cable or a WLAN network.

**Note:** If you want to use a wireless (WLAN) connection to perform the initial set-up, WLAN must be installed and activated on your computer. For information on how to set up WLAN on your computer, please see ‘WLAN connection’ on page 17.

**Step 4:** Log in to GlobeSurfer® II.

Start your web browser.

Enable cookies or allow them for this address.

Type http://192.168.1.1 in the browser address bar, and press ‘Enter’ or click ‘Go’:
The GlobeSurfer® II Management Console opens up with the Welcome page.

**Tip:** Save the link (URL) to this page as a bookmark in your Browser (follow the instructions in your web browser). Then you can easily access the GlobeSurfer® II Management Console in future by using the bookmark. Select the language you want to use.

Enter a password for the default ‘admin’ account in the ‘New password’ field and again in the ‘Retype password’ field.

**Tip:** The ‘User name’ for the default account is ‘admin’. Use this together with your password next time you are asked to login.

Click ‘OK’ to save the new password.

The ‘Quick Setup Wizard’ opens.

**Step 5:** Use the ‘Quick Setup Wizard’.

The ‘Quick Setup Wizard’ guides you through the main settings for your GlobeSurfer® II and, most importantly, gets you connected straight away. Read the instructions on each page and fill in the requested details and click ‘Next’ to carry on.

When you get to the ‘Finish’ page, read the summary of the settings you have chosen.

Click ‘Finish’ to accept settings and confirm with ‘OK’.

Note: Finish the ‘Quick Setup Wizard’ before going on to ‘Step 6’.
**Step 6:** Enter the PIN code.
The PIN code is specific to your SIM card.

You are now asked to key-in the PIN code:

Enter the PIN code.

Tick the ‘Save PIN’ checkbox: then you will not be asked to enter the PIN again.

Click ‘OK’.

When you get the ‘PIN OK’ response then click ‘OK’.

The Connection page is displayed.

**Step 7:** Making your first call.

As soon as the operator name shows on the GlobeSurfer® II display, you can make your first call from your home telephone using the mobile network.

Tip: You can adjust the position of the GlobeSurfer® II to achieve the best possible reception by checking the signal strength on the display of the unit: the more bars the better the reception.

**Note:** If your phone supports caller ID and you do not see any numbers displayed when people are calling you. Please visit the ‘Quick setup’ pages of GlobeSurfer® II again and select the correct caller ID standard for your phone/country.

**Step 8:** Connect to the Internet.

Click ‘Connect’.
Tip: Press the Connect button on GlobeSurfer® II as an alternative. The status shows ‘Connecting’ and then ‘Connected’. Open a new browser window and go to a page on the Internet.

Step 9: Set the Date and time.
To set the date and time:
1. Select the ‘System setup’ icon in the GlobeSurfer® II management console.
2. Click the ‘Date and time’ icon.

3. Select your time zone from the pull-down menu.
4. 12/24 hour mode: Select 12 or 24 hours.
5. Select daylight saving time, if applicable in your time zone.
6. Click ‘Apply’ or ‘OK’ to save these settings to GlobeSurfer® II.

Note: GlobeSurfer® II is configured to synchronise the time automatically using the Network Time Protocol (NTP) and will do so as soon as it connects to the Internet. See the On-line help if you want to know about more ‘Date and time’ settings.

4.4 Configure your computers

4.4.1 Using Ethernet LAN

Once GlobeSurfer® II is configured as above, it is ready to be used. If you are only using the Ethernet LAN connection with GlobeSurfer® II, no further configuration is needed. Simply open a new browser window and use your computer to ‘surf’ the Internet.
If you want to use the wireless connection (WLAN), additional settings are required on each computer that is connected to GlobeSurfer® II via the WLAN.

### 4.4.2 WLAN connection

Your computer must have a WLAN adapter that supports IEEE 802.11 b/g to set up a wireless connection. If encryption is used, make sure that each computer uses the same type of encryption as configured in the ‘Quick Setup Wizard’.

For other operating systems, or if your specific WLAN adapter uses any other connection alternatives, refer to the documentation from the WLAN adapter manufacturer.

Use the following instructions to connect your computer to GlobeSurfer® II if you are using Windows® XP.

1. Turn on your computer and enable the WLAN adapter, if necessary.
2. From the Windows® ‘Start’ menu, select ‘Control Panel’.
3. Click ‘Network Connections’.
4. Click ‘Wireless Network Connection’ and then ‘Show Wireless Networks’. A list of available wireless networks is displayed.
5. Select the device with the SSID that you entered in the ‘Quick
Setup Wizard’, or the default SSID, and click ‘Connect’. If encryption is set on your GlobeSurfer® II, a dialog box is displayed that requests a ‘Network key’. Type in the same pre-shared key that was entered in the ‘Quick Setup Wizard’.

6. Enter the pre-shared key in both fields and click ‘Connect’. After about a minute the message ‘Connected’ is displayed in the dialog box and an icon is displayed in the Windows® XP notification area.

In future, your computer will automatically connect to GlobeSurfer® II.

5. EVERYDAY USE

5.1 Staying connected

You can use GlobeSurfer® II to make phone calls, surf the Internet and use e-mail just as if your computer is always connected. There is no need to login to the GlobeSurfer® II management console to use those features. If you want to change settings or use SMS then you have to login. See ‘Using the management console’ on page 20.

If does not connect automatically, then use the checklist below to connect your GlobeSurfer® II to the Internet.
Step 1: Make sure that the power adapter is connected, GlobeSurfer® II is on and the SIM card is inserted correctly.

Step 2: Open an Internet browser on your computer and click the bookmark to GlobeSurfer® II, or type http://192.168.1.1 in the address bar.

Note: If this does not work, make sure that your computer is connected to GlobeSurfer® II using either LAN or WLAN. If you are uncertain, check the ‘Network Connections’ in ‘My Network Places’ or in the Windows® Control Panel.

Step 3: Enter the PIN code, if requested, and click ‘OK’.

The ‘Connection Status’ page is displayed.

Click ‘Connect’, or press the connect button on the top of your GlobeSurfer® II, to connect to the Internet.

When the connection is established ‘Connected’ shows on the GlobeSurfer® II display and on the ‘Connection Status’ page in the management console. You are now connected to the Internet and you can open a new browser window and start surfing on the Internet.
5.2 Making phone calls

**Tip:** Do not login if you just want to make phone calls.

Just pick up the phone and dial. As long as your phone is plugged in to the unit and your mobile operator name is shown on the display then you can make and receive calls. You can see Incoming call details and missed calls on the front panel display.

**Tip:** Login if you want to change settings or read the list of incoming, outgoing and missed calls. See ‘Changing telephone settings’ on page 22.

5.3 Using the management console

To access the GlobeSurfer® II management console:

1. Open an Internet browser on your computer and click the bookmark link to GlobeSurfer® II, or type http://192.168.1.1 in the address bar.
2. The ‘Connection Status’ page is displayed, and the left sidebar shows the ‘Connection Status’ and ‘Login’ icons.

**Tip:** Do not login if you just want use the Internet, email or make phone calls.

5.3.1 Checking the connection status

This page is always displayed when first accessing GlobeSurfer® II.
• Click 'Connect' or 'Disconnect' to manually connect or disconnect to or from the UMTS network.

**Note:** The 'Connection status' page is refreshed at regular intervals in order to update the information displayed. You can disable the automatic refresh by clicking ‘Automatic refresh off’ on the ‘Connection status’ page but if you do that you will have to click ‘Refresh' whenever you want to see the current status.

**Note:** The connection time and the number of sent and received bytes shown here may differ from that shown on your bill.

### 5.3.2 Login to the management console

If you want to change settings or use SMS then you have to login to GlobeSurfer® II.

1. From the ‘Connection Status' page click ‘Login’ in the left sidebar.

2. Enter your user name and password to login to the GlobeSurfer® II management console.
3. Click ‘OK’. The ‘Connection Status’ page is displayed, and the left sidebar shows the options available.

<table>
<thead>
<tr>
<th>Connection status</th>
<th>Display the status of the Internet connection. See page 20.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quick Setup</td>
<td>Quick access to basic configuration settings. See page 32.</td>
</tr>
<tr>
<td>SMS</td>
<td>Manage your SMS messages. See page 27.</td>
</tr>
<tr>
<td>Connection Settings</td>
<td>Create and configure network connections. See the ‘Reference Manual’.</td>
</tr>
<tr>
<td>Advanced</td>
<td>This section is intended for more advanced users. Changes to these settings could adversely affect the operation of your network. Please refer to the ‘Reference Manual’.</td>
</tr>
<tr>
<td>Logout</td>
<td>Log out from the management console.</td>
</tr>
</tbody>
</table>

5.3.3 Changing telephone settings

To change telephone settings from the GlobeSurfer® II management console:
Click on ‘System setup’, ‘Telephone’ and you can access the telephone settings and see lists of missed, incoming and outgoing calls.

- Caller ID: this shows the setting made in the ‘Quick setup Wizard’. You can change this from the drop-down list if required.
- Dialling timeout: type in the number of seconds to set the delay between pressing a dial-key on phone and when the call is placed.
- Use # to end dialling: this allows you to press the #-key instead of waiting for the timeout.
- Call log: keeps a log of incoming, outgoing and missed calls.

5.3.4 Changing your user name and password

The password is your security code for the GlobeSurfer® II management console. When logging in to the management console for the first time you have to set a password. If you want to change the user name or password, you can do as follows:

1. Login to the GlobeSurfer® II management console, if you have not done so already.
2. Click ‘System setup’ in the left sidebar.
3. Click the ‘Users’ icon in the ‘System setup’ page.
4. Click on the user that you want to change. The default user is ‘Administrator’ with ‘admin’ as the login user name.
5. Enter the new details in the ‘Full name’, ‘User name’, ‘New password’ and ‘Retype password’ fields.
6. Click ‘OK’ to save the changes.

See the ‘Online help’ or the ‘Reference Manual’ for information on how to change the permissions and set email notification.

Cannot remember your username or password?
You can login to change usernames and passwords, but if you have only one user with administrative permissions and you cannot remember that login name or password, you will have to restore GlobeSurfer® II to the factory default settings. This allows you to accept the default user name and provide a new password in the ‘Welcome page’.

5.3.5 Restoring the factory default settings

You can restore the factory default configuration for GlobeSurfer® II when you want to build a new network from scratch, or when changes to the network have become unclear.

Note: All web-based management settings and parameters, not only those in the Advanced section, will be restored to their default values. This includes the administrator password: the user-specified password will no longer be valid.

All personal configuration settings are deleted, including all SMS messages in the unit. Messages on the SIM card are not effected.

You can restore the factory settings as follows:

- On the unit: press the Restore defaults button underneath using a pointed object.
- From the GlobeSurfer® II management console:
  1. Select the ‘System setup’ icon and ‘Restore Defaults’
  2. Read the warning and Click ‘OK’.
Then you will need to redo the Set-up as described from ‘Step 3: Connect your computer’ on page 13.

5.3.6 Adding a new user

You do not need a user account to be able to make and receive phone calls or to surf on the Internet. However, you do need to login with a user account to be able to send and receive SMS text messages or use the telephone log.

To add a new user:
1. Login to the GlobeSurfer® II management console, if you have not done so already.
2. Click ‘System setup’ in the left sidebar.
3. Click ‘Users’ in the ‘System setup’ page.
4. Click ‘New user’ in the User settings page.
5. Enter a new ‘Full name’, ‘User name’, and password. Re-type the new password to verify it.
6. Tick the ‘Administrator permissions’ checkbox.
7. Click ‘OK’ to save the changes.

See the ‘Online help’ or the ‘Reference Manual’ for information on how to change the permissions and set email notification.

5.3.7 Firmware Upgrade

GlobeSurfer® II firmware can be upgraded without losing any of your configurations and settings. The firmware is upgraded by downloading a software image file from the Internet and installing on GlobeSurfer® II.

5.3.8 Upgrading From a Local Computer

To upgrade GlobeSurfer® II using a locally stored file:
1. Login to the GlobeSurfer® II management console, if you have not done so already.
2. Select the ‘System setup’ icon.
3. Click ‘Firmware upgrade’.
4. Enter the path of the software image file, or click ‘Browse’ to browse for the file on your PC and click ‘OK’ when ready: the file will load into GlobeSurfer®

Note: You can only use files with a .rmt extension to perform the
firmware upgrade.

5. When completed, a confirmation dialog will ask if you want to upgrade to the new version.

6. Click ‘OK’ to confirm. The upgrade process should take less than a minute.

GlobeSurfer® II will automatically reboot and the new firmware version will run, maintaining your custom configurations and settings.

5.4 Managing SMS text messages

The SMS feature works in much the same way as on a mobile phone, with the added convenience of the PC screen and keyboard.

To access the SMS feature click the ‘SMS’ icon in the left sidebar.

5.4.1 Reading a message

GlobeSurfer® II displays an envelope symbol when a new SMS is received.
1. Select the ‘Inbox’ tab to display the messages, with unread message in bold.

2. Click the SMS that you want to read. The message text is shown.

3. When you have read the SMS you can click on:
   - ‘Reply’: the message text is displayed in the ‘SMS create’ tab with the phone number of the sender already filled in.
   - ‘Delete’: the SMS is deleted without confirmation and is not possible to restore.
   - ‘Save to archive’: the SMS is moved to the ‘Archive’ tab.
   - ‘Forward’: the message text is displayed in the ‘SMS create’ tab ready for you to enter a phone number.

To delete an SMS from the list of messages in the ‘Inbox’ tab:

1. Select the ‘Inbox’ tab.
2. Click the ‘Remove’ icon for the message that you want to delete; the SMS is deleted without confirmation and is not possible to restore.

5.4.2 Writing and sending a text message

To write a text message
1. Select the ‘SMS create’ tab.
2. Type your message text in the ‘SMS message’ field. The Characters left field shows how much space is left.
3. Enter the mobile number of the person you want to contact in the ‘Phone numbers’ field. Use the standard mobile number format: +491761234567 for international, and 01761234567 for national numbers.
   Tip: You can enter several numbers separated by commas (no spaces allowed), up to a maximum of ten phone numbers.
4. You can select the ‘Flash SMS’ - ‘Enabled’ checkbox if you want the message text displayed immediately when received (not supported by all phones).
5. Click ‘Send SMS’ when ready to send.
   Alternatively you can:
   • Click ‘Save as draft’ to save in the Drafts folder for completion later.
   • Click ‘Save as template’ to save the message as a template for future use.
   Tip: GlobeSurfer® II supports concatenated SMS, which works as follows; if you want to send a longer than standard SMS of 160 characters you can type the almost the equivalent of 4 standard messages (up to 609 characters). When you send the message it will counted as separate messages.

Note: When you send an SMS, you may incur a charge depending on the subscription you have with your mobile operator.

5.4.3 Sent SMS text messages

The ‘Sent’ tab shows the status of sent messages.
The sent SMS is first put in the outbox folder and moved to the sent folder when successfully sent.

**Tip:** Select the ‘Sent’ tab to check that the message has been sent. If the message is still in the Outbox there is probably something wrong with the connection.

### 5.4.4 Saving a message

The ‘Archive’ tab is for messages that you want to save.

1. Select the ‘Inbox’, or ‘Sent’ tab, and select the SMS that you want to save.
2. Click ‘Save to archive’. The message is moved to the ‘Archive’ tab.
3. Select the ‘Archive’ tab if you want to see that the message has been moved. See ‘Text Messages on the SIM card’ on page 30.

**Note:** A maximum of 100 messages can be held in the GlobeSurfer® II memory: i.e. totally in the ‘Inbox’, ‘Sent’, ‘Archive’, ‘Templates’ and ‘Drafts’ tabs.

### 5.4.5 SMS Templates

Templates can be used when you write messages with similar contents. Then create an SMS with the standard text and save it as a template.

**To create a new template:**

1. Select the ‘SMS Create’ tab to create a new message to use as a template.
2. Click ‘Save as template’ when ready.

**To use an existing template:**

1. Select the ‘Templates’ tab, and then click the message that you want to use. You are then moved to the ‘SMS Create’ tab to change the text and to enter the phone number of the receiver, as required.
2. Click ‘Send’ when ready.
5.4.6 SMS Setting

The ‘Settings’ tab shows the number to the Short Message Service Centre (SMSC number) which is usually pre-configured on the SIM card by the Internet Service Provider.

If required, enter a new number and click ‘OK’.

5.4.7 Text Messages on the SIM Card

To read an SMS:

1. Select the ‘SIM card’ tab.
2. Select the message that you want to read.

To reply to, or forward an SMS:

1. Select the ‘SIM card’ tab.
2. Select the message that you want to edit.
3. Click ‘Reply’ or ‘Forward’: the message text is displayed in the ‘SMS Create’ tab where you can edit and send the SMS.
4. Click ‘Send’ when ready.

To save an SMS:

1. Select the ‘SIM card’ tab.
2. Select a message.
3. Click ‘Save to archive’, to save a copy of the SMS to the Archive tab.

**To delete an SMS:**
1. Select the ‘SIM card’ tab.
2. Click the ‘Remove’ icon, for the message that you want to delete.
   The SMS is deleted without confirmation and is not possible to restore.

**To delete an open SMS:**
1. Select the ‘SIM card’ tab.
2. Select a message to read it.
3. Click ‘Delete’: the SMS is deleted without confirmation and is not possible to restore.

### 5.5 Administration Basics

The basic configuration of GlobeSurfer® II is done in the ‘Quick Setup’. There may be other configuration settings required in everyday use. These are accessed using the web-based management console as described below. For advanced users and network administrators there are many other settings and parameters that you can change. For example: to set up Virtual Private Networks (VPN), to enable corporate grade security settings, system monitoring and diagnostics. These settings are described in the ‘Reference Manual’.

Some information is also available in the ‘Online help’. Click ‘Help’ in the upper right-hand corner of each page to open a new browser window containing help instructions.

### 5.6 Quick Setup

You can use the ‘Quick Setup’ to change the main settings needed to use GlobeSurfer® II.
The following settings can be changed:

<table>
<thead>
<tr>
<th>Quick setup</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Web interface and display:</strong></td>
</tr>
<tr>
<td><strong>Language:</strong></td>
</tr>
<tr>
<td><strong>Country:</strong></td>
</tr>
<tr>
<td><strong>GlobeSurfer</strong>® II</td>
</tr>
</tbody>
</table>

**5.6.1 Language**

Select the language for GlobeSurfer® II.

**Note:** The current language setting will be restored if you do not apply the settings.

**5.6.2 Telephony**

Select the caller ID standard for the telephone handset interface.

**5.6.3 UMTS Setup**

Access point name: as provided by your mobile operator.

**UMTS Connect Method:**

- Connect Manually: connect to the Internet by clicking Connect on the Connection Status page in the management console or press the Connect button on GlobeSurfer® II.
- Automatically connect upon traffic: GlobeSurfer® II will automatically connect when you attempt to send data via the Internet.
In case of inactivity, disconnect after (minutes): The default is zero (0) minutes, meaning GlobeSurfer® II will stay connected until you actively disconnect. If you want GlobeSurfer® II to disconnect automatically set a time interval (in minutes). The maximum is 1440 minutes (24 hours).

**Note:** Incoming traffic is treated as inactivity.

### 5.6.4 Wireless Setup

The following settings are the most important for the local Wireless LAN:

- **SSID:** The Service Set Identifier: enter a name for your local wireless network (WLAN) (maximum 32 characters).

- **SSID broadcast:** If you set the ‘Enabled’ checkbox to broadcast then other devices can detect and connect to your WLAN. You can install the WLAN with this feature enabled and then disable it once you have set up GlobeSurfer® II and its associated wireless clients.

**Tip:** You can clear this checkbox later to disable broadcasting and hide the name of your network; this provides minimal security, as other devices have to know the SSID to connect.

### 5.6.5 Wireless Encryption

Configure the encryption of the GlobeSurfer® II wireless network. The ‘No encryption’ option should only be used during installation of your network to simplify the set-up procedure.

Add encryption to your wireless network to prevent unauthorised traffic monitoring and access, as soon as your local wireless network has been set up. Configure your wireless PC clients to use the same encryption type and keys, otherwise the devices will not understand each other.

Select from the drop-down list:
• No encryption: not recommended except during installation of your network.
• WEP: Wireless Equivalent Privacy is a 64 bit or 128-bit encryption method with user configurable fixed keys. 128-bit provides higher security.
• WPA: Wi-Fi Protected Access is a 256-bit encryption method with keys that change automatically over time.
• WPA2: A more secure version of WPA with implementation of the 802.11i standard.
• Keep current (radius based) scheme: this option is only available if advanced encryption settings have previously been configured.

Note: Not all wireless client equipment supports ASC II-text format. If you are experiencing problems, use the hexadecimal key format since most vendors support it.

Note: WPA/WPA2 is recommended as it provides a higher level of security due to the longer key that changes automatically.

Configuring WEP:
• Key Type: Select the encryption level from the drop-down list.
• Pre-shared key: Type in the hexadecimal 26 characters, or a plain text (ASC II) pass-phrase of 5 or 13 characters.

Configuring WPA or WPA2 encryption:
• Key Type: Select the encryption level from the drop-down list.
• Pre-shared key: Type in the hexadecimal 64 characters, or a plain text (ASC II) pass-phrase of at least 8 characters.

Note: Advanced options for encryption configuration are available via the icons ‘Connection Settings’, ‘Network Connections’. Wireless encryption has no security effect on wired (Ethernet) connections.
5.6.6 Firewall Setup

The GlobeSurfer® II firewall has three pre-defined levels of security. The default, ‘typical security’, blocks traffic initiated by an external (Internet) source, and allows traffic initiated from the local network.

For advanced configuration of your firewall security parameters, please refer to the ‘Reference Manual’.

5.6.7 Save the Setup configuration

Save the new configuration by clicking ‘OK’ or ‘Apply’ and then ‘OK’ to confirm. If using the ‘Quick Setup Wizard’ save the new configuration by clicking ‘Finish’ and then ‘OK’ to confirm.

**Note:** Browser reload: You may need to reconfigure connected computers and reload the GlobeSurfer® II management console page.

6. SECURITY BASICS

6.1 Review the basics

Just connecting your computer to GlobeSurfer® II provides a basic level of protection because it supports Network Address Translation (NAT).

6.2 Network Address Translation

Your GlobeSurfer® II supports NAT. This network service makes it possible for all of the computers in your network to share a single IP address. This IP address is assigned to your GlobeSurfer® II and is the only address that is visible to the outside world. The private addresses that DHCP assigns to computers in your network remain private and cannot be reached from the Internet.

6.3 Determine the wireless exposure

If you live in a rural area far away from your neighbour, the likelihood that
someone will break into your wireless network is very low. On the other hand, if you live in a densely populated area in the city next to an office building, there is a potential danger that a third party may try to access your WLAN.

Based on your own security needs, decide which security settings you want to implement:

- Change SSID
- Disable SSID broadcast
- Enable WEP, WPA, or WPA2 encryption

These settings are available from the ‘Quick Setup’ page of your GlobeSurfer® II. Each computer to be connected to your WLAN must use the same settings.

Furthermore, you can enable MAC filtering on GlobeSurfer® II. MAC filtering can be used to grant or deny WLAN computers in your network access to GlobeSurfer® II based on the MAC address of the computer. For further information see ‘MAC Filtering’, on page 41.

### 6.4 Firewall

Your GlobeSurfer® II has a true firewall that uses rules to control the incoming and outgoing data traffic. The firewall has three pre-defined levels of security. The default, ‘typical security’, blocks traffic initiated by an external (Internet) source, and allows traffic initiated from the local network.

### 6.5 Control the traffic

A firewall blocks uninvited Internet traffic that might cause damage to the computers in your network. Before traffic is allowed in or out of your network, it has to pass through the firewall. Incoming traffic is examined to see whether it meets the conditions of incoming rules. If the conditions are met, the traffic is allowed in. Outgoing traffic is also examined and compared to outgoing rules before it is allowed out. Rules are based on
Internet services, such as FTP, Telnet and NetMeeting.
Is it necessary to change the default firewall rules or add new rules?
For private use, you should not have to add new rules or change the default rules.
By default, all incoming traffic is blocked and all outgoing traffic is allowed.
If you set up a virtual server, an additional incoming rule is automatically added to enable access to the server from the Internet.

An example of an attack that your GlobeSurfer® II will automatically block is a Denial of Service (DoS) attack. This is an attack where a hacker chooses to flood your network with more requests than it can handle. While this type of attack would not harm computers in the network, it could slow or even stop network operations. You do not need to set up a firewall rule for this.

More information about the firewall and applying corporate grade security is provided in the ‘Reference Manual’.

6.6 IP- Hostname (url) Filtering
You may configure GlobeSurfer® II to block specific Internet sites so that they cannot be accessed from computers in the local network. Moreover, restrictions can be applied to a comprehensive, automatically updated, table of sites to which access is not recommended.

To view the table of Web sites currently being blocked:
• Click the ‘IP/Hostname Filtering’ tab located under Security.
6.6.1 Adding a new Web site

1. Click ‘New Entry’. The ‘Restricted IP Address or Hostname’ dialog will appear.

2. Enter the web site address (IP address or URL) that you would like to make inaccessible from your local network (all web pages within the site will also be blocked). If the web site address has multiple IP addresses, GlobeSurfer® II will resolve all additional addresses and automatically add them to the restrictions table.

3. You can also select the group of computers to which you would like to apply the filtering rule. You can either select from a predefined table of groups by selecting one from the ‘Applied to’ combo box, or create a new group by clicking the ‘New’ link. To learn how to create groups, to which you can apply rules, see the ‘Reference Manual’.

4. You can define (this is optional, not compulsory) the period during which the rule will take effect. You can either select from a predefined table of schedules by selecting one from the Schedule combo box, or create a new schedule by clicking the ‘New’. To learn how to create a new time schedule, see the ‘Reference Manual’.

5. Click ‘OK’ to add the web site to the table. You will be returned to the previous screen while GlobeSurfer® II attempts to find the site. ‘Resolving...’ will appear in the Status column while the site is being located (the URL is being ‘resolved’ into one or more IP addresses).

6. If the site is successfully located then ‘Resolved’ will appear.
in the status column; otherwise, ‘Hostname Resolution Failed’ will appear. Click ‘Refresh’ to update the status if necessary. If GlobeSurfer® II fails to ‘locate’ the web site, do the following:

Use a Web browser to verify that the Web site is available. If it is, then you probably entered the Web site address incorrectly. See ‘Modifying a Web site address currently in the table’ on page 40.

7. If the Web site is not available return to the ‘Restrictions list’ screen at a later time and click ‘Resolve now’ to verify that the Web site can be found and blocked by GlobeSurfer® II.

6.6.2 Modify a Web site address currently in the table

1. Click the ‘Edit’ icon that appears in the ‘Action’ column. The Restricted IP Address or Hostname screen will appear.

2. Modify the Web site address, group and schedule as necessary. If it is long or complicated, you may want to use your browser’s Copy and Paste functions to copy the address from the address bar to the management console. Be sure to omit the “http://” at the beginning and the “/” at the end of the address.

3. Click ‘OK’ to save the changes.

6.6.3 Ensuring that all IP addresses to Web-sites in the table are blocked

1. Click ‘Resolve now’. GlobeSurfer® II will check each of the Web-site addresses in the table and ensure that all IP addresses at which this Web site can be found are included in the IP addresses column.

You may disable a restriction and make the Web site available again without removing the site from the ‘Restrictions list’. This may be useful if you wish to make the Web site available only temporarily and expect that you will want to block it again in the future.

2. To temporarily disable a restriction: Clear the checkbox next to the restricted URL.
3. To re-instate the restriction later, tick the checkbox next to the URL.

4. To remove a restriction: Click ‘Remove’. The restriction will be removed from the Restrictions list.

### 6.7 Mac Filtering

A common method of restricting WLAN network access is to specify the Media Access Control (MAC) address. Every WLAN network adapter is identified by its MAC address. Specifying which computers can connect to your network can limit network access to trusted computers. GlobeSurfer® II supports MAC filtering based on either a list of denied or allowed computers. MAC filtering mode ‘Allow’ specifies that the list of MAC addresses is granted access to GlobeSurfer® II. MAC filtering mode ‘Deny’ specifies that all computers except those in the list of MAC addresses are granted access to GlobeSurfer® II.

Before you set up your list of trusted MAC addresses, you have to know what they are. A device’s MAC address is usually found on a sticker on the bottom of the device. For internal wireless PCI cards, refer to your operating system documentation for instructions.

You can also type ‘ipconfig /all’ in the ‘Command Prompt’ in Windows to locate the MAC address. The MAC address displays as the physical address.

**Adding wireless computers to MAC filtering**

1. Click ‘Network connections’ in the left sidebar.
2. Click ‘Settings’ located under ‘LAN Wireless’.
3. Scroll down and click ‘New MAC address’.
4. Enter the MAC address of the WLAN computer and click ‘OK’.

5. Select ‘MAC filtering mode’: Click ‘Allow’ or ‘Deny’. Select ‘Disable’ if you want to disable MAC filtering.

6. Click ‘OK’ at the bottom of ‘Configure LAN Wireless’ to apply your settings.

7. GLOSSARY

802.11b  WLAN standard. Provides a transmission speed of up to 11 Mbps in the 2.4 GHz band.

802.11g  WLAN standard. Provides transmission speeds of up to 54 Mbps (typically 22 Mbps) in the 2.4 GHz band. Is considered a successor of, and is compatible with, 802.11b. Enables high-speed data access from up to 100 meters distance from the base station.

DHCP  Dynamic Host Configuration Protocol. The Dynamic Host Configuration Protocol is used to configure IP addresses and applicable information dynamically. Instead of a fixed IP address, DHCP clients receive their IP address from a central DHCP server.
<table>
<thead>
<tr>
<th>Term</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>DNS</td>
<td>Domain Name System. Internet service that is used to assign IP addresses to the corresponding readable domain name and vice versa.</td>
</tr>
<tr>
<td>Dynamic DNS</td>
<td>Dynamic Domain Name System. Provides assignment of dynamic IP addresses to fixed domain names.</td>
</tr>
<tr>
<td>EDGE</td>
<td>Enhanced Data rates for Global Evolution. An enhancement to GSM that increases data throughput.</td>
</tr>
<tr>
<td>Ethernet</td>
<td>The most widely used local area network (LAN) access method defined by the IEEE as the 802.3 standard. Originally developed by Xerox to link minicomputers in the Palo Alto Research Centre.</td>
</tr>
<tr>
<td>Firewall</td>
<td>Technology in the form of hardware or software that controls the flow of data between a private and an unprotected network (LAN and Internet, respectively) or protects an internal network from attacks from the Internet.</td>
</tr>
<tr>
<td>Firmware</td>
<td>Pre-installed software to operate GlobeSurfer® II.</td>
</tr>
<tr>
<td>FTP</td>
<td>File Transfer Protocol (FTP) regulates file transfers on the Internet.</td>
</tr>
<tr>
<td>GPRS</td>
<td>General Packet Radio Service. An enhancement to the GSM mobile communications system that supports data packets. GPRS enables continuous flows of IP data packets over the system for such applications as Web browsing and file transfer.</td>
</tr>
<tr>
<td>GSM</td>
<td>Global System for Mobile Communications. A digital cellular phone technology that is the predominant system in Europe, but is also used around the world. Operating in the 900MHz and 1.8GHz bands in Europe and the 1.9GHz PCS band in the US.</td>
</tr>
<tr>
<td>HSDPA</td>
<td>High Speed Down-link Packet Access. An enhancement to 3G technology that increases the down-link speed.</td>
</tr>
<tr>
<td>HTTP</td>
<td>Hypertext Transfer Protocol is a service protocol to transmit documents between servers or from a server to a client. Is</td>
</tr>
<tr>
<td>Term</td>
<td>Description</td>
</tr>
<tr>
<td>-----------------</td>
<td>---------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>IP address</td>
<td>The IP address identifies every device connected to the Internet through an address that is unique.</td>
</tr>
<tr>
<td>Pass-phrase</td>
<td>A pass-phrase is used as an encryption password and is generally longer than an ordinary password and may contain letters and numbers.</td>
</tr>
<tr>
<td>LAN</td>
<td>Local Area Network. Local computer connection that has few or no connections to the outside world.</td>
</tr>
<tr>
<td>MAC address</td>
<td>Media Access Control (MAC) address. A 48-bit identification number of a network card that generally cannot be changed. Shown as a hexadecimal number.</td>
</tr>
<tr>
<td>NAT</td>
<td>Network Address Translation (NAT). Method to convert (mostly private) IP addresses of a network to other (mostly public) IP addresses of another network.</td>
</tr>
<tr>
<td>Network adapter</td>
<td>Another word for Network card. The network card is the device that establishes the connection between the network (wireless or wired) and the computer</td>
</tr>
<tr>
<td>Network name</td>
<td>See ‘SSID’, below.</td>
</tr>
<tr>
<td>Port</td>
<td>Describes an interface between the operating system, applications and the Internet.</td>
</tr>
<tr>
<td>SMTP</td>
<td>Simple Mail Transfer Protocol. E-mail programs use SMTP to transmit data to the mail server. It then forwards the e-mail via intermediate stations to the recipient’s mail server.</td>
</tr>
<tr>
<td>SSID</td>
<td>Service Set Identifier; network name in WLAN which allows stations in the WLAN to find the correct access point.</td>
</tr>
<tr>
<td>TCP/IP</td>
<td>Transmission Control Protocol / Internet Protocol; this is the transport protocol on which the data transmission on the Internet is based.</td>
</tr>
<tr>
<td>UMTS</td>
<td>Universal Mobile Telecommunication System. A global standard</td>
</tr>
</tbody>
</table>
for third generation (3G) mobile technology. UMTS in its initial phase offers bit rates of up to 384 kbps, both up-link and down-link.

**URL**
Uniform Resource Locator is an Internet address, such as www.google.com.

**WAN**
Wide Area Network is a network mainly working across great distances.

**WEP**
Wired Equivalent Privacy; describes a 64 or 128 bit encryption process used for wireless LANs.

**WLAN**
Wireless Local Area Network is a remote technology for wireless networking.

**WPA**
Wi-Fi Protected Access is a 256-bit encryption method for a WLAN.

**WPA2**
A more secure version of WPA with implementation of the 802.11i standard.

### 8. SPECIFICATIONS

**UMTS**
FDD UMTS, 850 / 1900 / 2100 MHz, HSDPA speeds up to 1.8 / 3.6 / 7.2 Mbps (Depending on product variant)

**LAN**
Ethernet 10BaseT / 100BaseT, Auto MDIX

**WLAN**
IEEE 802.11 b/g WLAN

**Security**
64 bit and 128 bit WEP Encryption
WPA/WPA2 Encryption
Port and URL Filter
DMZ Support
Firewall, three predefined levels
VPN tunnelling, PPTP, Ipsec, L2TP
Display

- Monochrome 128 x 64 Pixel OLED display
- Status information
- New SMS Received
- Missed / Incoming calls
- Current time (hours:minutes), clock synchronisation over the Internet (NTP)
- Signal strength
- Number of WLAN connections
- Screen saver

Buttons

- On / Off
- Connect/disconnect UMTS
- Display information
- Restore factory defaults

Connectors

- Power connector
- RJ-45 Ethernet
- RJ-11 POTS telephone
- SIM card holder
- External antenna connector (GSM/UMTS)

User Interface

- Device configuration with local web browser
  (no software installation required)

Power adapter

- Input 110-240V, 50-60Hz
- Output 5V DC, 2.4A

Dimensions

- 150 x 100 x 32 (W x H x D in mm)

Weight

- 255g, excluding power adapter

Operating Environment

- Indoors 0 °C – 60 °C
- Humidity 5% – 95%
GlobeSurfer® II Questions and answers can be found on our Support web-site:
http://support.option.com/support/faq.php

To register please go to:
http://support.option.com/support/register.php

To post technical questions after you have registered please use the online support at:
http://support.option.com/support/newticket.php