



SABRETM I
User Guide
Rev 6.0

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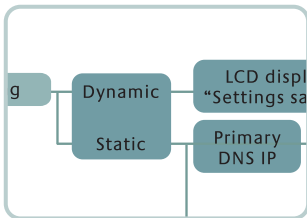
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Prefix

Federal Communication Commission Notice

FCC Identifier: QY9-SABRE1WE

USE CONDITIONS:

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.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

IMPORTANT NOTE : EXPOSURE TO RADIO FREQUENCY RADIATION

This device complies with FCC & IC radiation exposure limits set forth for an uncontrolled environment. The antenna used for this transmitter must be installed to provide a separation distance of at least 100cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter

FCC CAUTION: Any changes or modifications not expressly approved by the manufacturer could void the user's authority, which is granted by FCC , to operate this satellite terminal Wideye SABRE I

Industry Canada Statement:

IC Identifier : 5023A-SABRE1WE

This device complies with Radio standard specification RSS -210 & RSS -170 of Industry Canada 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.

IMPORTANT NOTE : Radiation Exposure Statement:

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This antenna used for this transmitter must be installed to provide a separation distance of at least 100cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

Declaration of Conformity:

Addvalue Communications Pte Ltd, 28 Tai Seng Street #06-02 Singapore 534106 declares under our sole responsibility that the Product, brand name as Wideye and model : SABRE I (Satellite Broadband Communicator) a GMPCS Terminal to which this declaration relates, is in conformity with the following standards and/or other normative documents:

ETSI EN 301 681, ETSI EN 301 489-1, ETSI EN 301 489-17, ETSI EN 301 489-20, ETSI EN 300 328, EN 50385, EN 50371 , IEC 60950-1 AND EN 60950-1, ITU-R M.1480

We hereby declare that all essential radio test suite have been carried out and that the above named product is in conformity to all the essential requirements of Directive 1999/5/EC.

The Conformity Assessment procedure referred to Article 10 and detailed in Annex [III] or [IV] of Directive 1999/5/EC has been followed with involvement of the following notified body(ies):

TIMCO ENGINEERING,INC. , P.O BOX 370,NEW BERRY ,FLORIDA 32669.

Identification mark: 1177 (Notified Body number)

The technical documentation relevant to the above equipment will be held at :

- Addvalue Communications Pte Ltd, 28 Tai Seng Street #06-02 Singapore 534106.
- Signed by Tan Khai Pang (Chief Technology Officer, November 17, 2009) and Prabakar Kuttaniseeri (Manager-Quality Engineering, November 17, 2009).

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.

Addvalue 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 Active Antenna Front

This device emits radio frequency energy when in transmit mode.

To avoid injury, keep a minimum safety distance of 1 meter from the antenna front. See also the below section **Antenna Safety Instructions**.





CAUTION

Risk of Explosion if Battery is Replaced by an Incorrect Type.
Dispose of Used Batteries According to the Instructions.

Batteries and Accessories

Use Addvalue approved batteries and accessories only. Use of non-approved batteries and accessories may result in loss of performance, damage to Satellite Terminal, explosion, fire, electrical shock or injury.

Antenna Safety Instructions
Antenna Minimum Safe Distance: 100 cm



Radiation Warning

High levels of radio frequency radiation are considered health hazardous. Although no single value of "safe radiation level" has been agreed upon by all countries, the American National Standard Institute (ANSI/IEEE C95.1-1992) recommends that people should not be exposed to radiation stronger than 1 milliwatt per square centimeter. The operator of the terminal should ensure that the area extending 1 meter from the front of the antenna should be kept clear of personnel when the terminal is transmitting.

The antenna is built-in within SABRE™ I. 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. Transmit only when person(s) are at least the minimum distance from the front face of the antenna.

WARNING! Maintain a separation distance from the antenna to a person(s) of at least 100 cm.

OBTAINING LICENSING FOR INMARSAT TERMINALS

Under rights given under ITU Radio Regulations, local telecommunication authority establish and enforce national rules and regulations governing types of emissions, power levels, and other parameters that affect the purity of signal, which may be radiated in the various frequency bands of the radio spectrum.

To legally operate an Inmarsat terminal, it is necessary to obtain permission from the local telecommunications regulatory authorities of the country you are operating in. If a country has not officially allow the use of BGAN terminal, it will be illegal to use the terminal in the country. Please check with the local telecommunication authority before using so as to prevent any legal issues.

Release date: 12th September 2011

Information in this document is subject to change without notice and does not represent a commitment on the part of Addvalue Communications Pte Ltd. For the latest update on user manual, please visit our website at www.wideye.com.sg.

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1 Product Overview



SABRE™ I is a satellite broadband modem that is designed for portable use. It utilizes the Inmarsat-4 satellite to provide virtual global coverage for voice and data services. The SABRE™ I is equipped with an Ethernet and RJ11 Corded Analog Handset ports, delivering voice and data services through different choices of interfaces.

SABRE™ I REMOTE supports SCADA application, capable to perform at any dusty environment, and robust in almost any weather, with a Sabre Shield. Installation at remote location for unmanned operation is so easy with it.

	Data Service	Voice Service
Ethernet	Yes	Yes
RJ11	No	Yes

Configuration Interface

The user may configure SABRE™ I via several different configuration interfaces:

- 1) Inmarsat LaunchPad,
- 2) the Web Console
- 3) the build in Front panel LCD Man Machine Interface (MMI)

While LaunchPad and Web Console provide full configuration and setup functions over the computer screen, the built-in, front panel LCD user interface mandatory functions on an LCD that is built into SABRE™ I respectively.

Ethernet

The Ethernet interface of SABRE™ I supports two operating modes, the Bridge Mode and the Router Mode. In Bridge Mode, the user is required to configure the computer with account information and to perform Bridge Mode authentication using dial-up networking. In Router Mode, the user uses standard TCP/IP over Ethernet to connect to the Internet.



CAUTION

While the Router Mode provides convenience to connect to the Internet, it is important for the user to be aware that the last terminal that is configured with Router Mode would allow any user to connect to the Internet via the Ethernet port and airtime would be consumed in the owner's account.

RJ11 Corded Analog Handset

With the support for external analog phone, the user can easily connect the prescribed Wideye Caller ID Handset to SABRE™ I for making a voice call. It is simple and straightforward.







1.1 Key Features




- I. Simultaneous voice & data communications
- II. Data rate up to 384 kbps
- III. Built-in Ethernet and RJ11 interfaces
- IV. Supports voice, email, messaging, VPN, FTP, VoIP, FoIP and video media streaming
- V. Designed for the non-technical user
- VI. Swiveled antenna mount which facilitates easy pointing
- VII. Built-in menu driven graphical user interface for use without a laptop
- VII. Supplied with a support kit – primary battery, communication cables (RJ 11, RJ 45), power cord and power adapter.
- IX. Light weight, robust and reliable
- X. Wide range of accessories to meet your needs.

1.2 Unpacking

When unpack the following items should be in the package. If any of the items are missing from the package, please contact your reseller from whom you purchased the equipment.

Package Contents:

Index		Description	Quantity
1.		SABRE™ I Main Unit	1
2.		Primary Battery Pack	1
3.		IP54-compliant 6P4C RJ11 Telephone Cord (1.8m)	1
4.		IP54-compliant 8P4C RJ45 Cat.5 Network Cable (1.5m)	1
5.		AC/DC Power Adapter	1
6.		2-pin Euro-type Power Cord	1

7.		2-pin US-type Power Cord	1
8.		3-pin UK-type Power Cord	1
9.		Product CD (inclusive of drivers, LaunchPad & all documentations)	1
10.		Quick Start Guide (printed)	1

1.3 Contents of Product Cd

The SABRE™ I product CD comes with the following contents:

- I. SABRE™ I Serial/Ethernet device driver
- II. Inmarsat® LaunchPad Application
- III. SABRE™ I User Manual
- IV. SABRE™ I Quick Start Guide

1.4 System Requirement

- Minimum of Pentium III (or above) with at least 500MHz CPU speed.
- 256MB of RAM or more.
- 200Mbytes of Free Hard Disk space.

I. For data connection using computer for Bridge Mode:

a) You must have a desktop or laptop computer running one of the following operating systems:

- i. Microsoft® Windows® 2000.
- ii. Microsoft® Windows® XP.
- iii. Microsoft® Windows® Vista.
- iv. Microsoft® Windows® 7.

b) Your computer must be installed with one of the following web browsers:

- i. JAVA-enabled Internet Explorer 6.0 or above.
- ii. JAVA-enabled Netscape Navigator 6.0 or above.

c) Your computer must support one of the following interfaces:

- i. RJ45 Ethernet.

II. For data connection using standard TCP/IP over Ethernet (Router Mode):

a) You must have a desktop or laptop computer with an Ethernet interface, running one of the following operating systems:

- i. Microsoft® Windows® 95/98/98SE/ME/NT/2000/XP/Vista/7.
- ii. Mac OS® 10.1 or above.
- iii. Linux with TCP/IP properly configured.

b) Your computer must be installed with one of the following web browsers:

- i. JAVA-enabled Internet Explorer 6.0 or above.
- ii. JAVA-enabled Netscape Navigator 6.0 or above.

III. The following interfaces could be used for making a voice call:

a) A Corded Analog Handset.



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2 Getting To Know The SABRE™ I

2.1 The SABRE™ I

Right-Side View



FIGURE 2.1-1: Figure showing the right side view of the SABRE™ I.

Built-in Compass

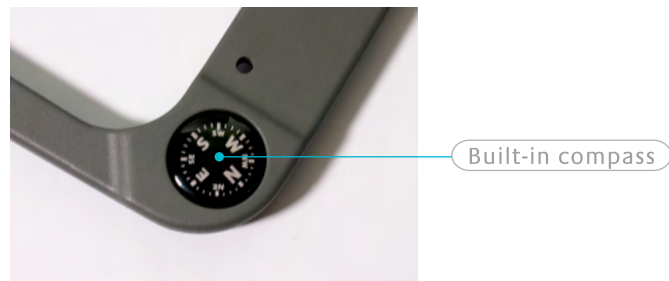


FIGURE 2.1-2: Figure showing the location of the built-in compass on the SABRE™ I.

Front View of the Front Panel built in LCD screen

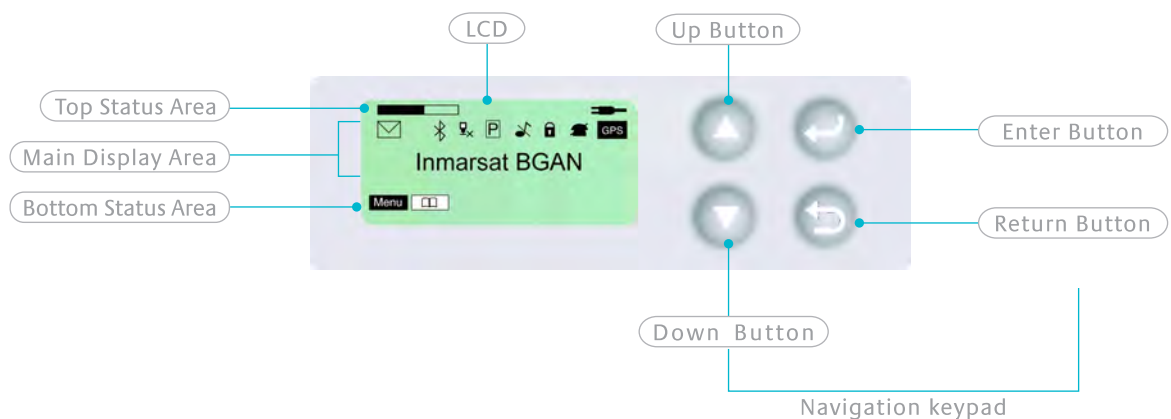















FIGURE 2.1-3: Figure showing the on board built in LCD screen.

2.2 Icons Used On The Display

Icon/Text Object	Description
[Service Provider Name]	A text showing the name of the BGAN service provider.
	A Soft Menu icon to allow for user to browse the SABRE™ I Menu Tree.
	A Soft Menu icon to allow for user to browse the SABRE™ I Phone Book.
	An animated icon to show the status of the Battery.
	An icon to show that the Primary Battery of the SABRE™ I is undergoing charging while the SABRE™ I is operational.
	An animated icon to show the Primary Battery power of the SABRE™ I.
	An animated icon to show the External Battery power level of the SABRE™ I.
	An icon to show that the Primary Battery of the SABRE™ I has completed charging while the SABRE™ I is non-operational (switched off).
	An icon to show that the Primary Battery of the SABRE™ I is undergoing charging while the SABRE™ I is non-operational (switched off).
	An animated icon to show the status of spot beam reception.
	An icon to show the status of Short Message(SMS). This icon shows that new SMS has been received.
	An icon to show the status of PS services. This icon shows that PS service is attached.
	An icon to show the status of the Tones. This icon shows all tones are currently disabled.
	An icon to show Ethernet service is currently enabled.
















	An icon to show that the Ethernet physical connection is disconnected with the SABRE™ I.
	An icon to show that a call is initiated or still in progress on the SABRE™ I.
	An icon to show that the SABRE™ I is receiving power from the mains.
	An icon to show that ciphering has been enabled on the SABRE™ I.
	An icon indicating that the I-4 Asia Pacific satellite is available.
	An icon indicating that the I-4 EMEA satellite is available.
	An icon indicating that the I-4 Americas satellite is available.
	An icon to show that the PSTN Corded Telephony feature on the SABRE™ I has been disabled.
	An icon to represent the Call feature in the Phone Book on the SABRE™ I.
	An icon to represent the Delete feature in the Phone Book on the SABRE™ I.
	An icon to show that the SABRE™ I is currently using the New GPS coordinates.
	An icon to show that the SABRE™ I is currently using the Stored GPS coordinates.
	An icon to show that the Call has been placed on hold in the SABRE™ I.
	An icon to show that packet switching is active on the SABRE™ I.
	An icon to indicate that the temperature of the SABRE™ I is too high.

TABLE 2.2-1: Table showing the list of Icons that are used in the LCD display.

2.3 Input Methods

Set of Numbers and Special Letters that could be used by the on-board built-in user interface.

0 to 9	Number from 0 to 9
.	Full Stop
OK	Confirm
Bs	Back space

TABLE 2.3-1: Table showing the available characters that could be used by the on board built in user interface.

Use the “Up” and “Down” Arrow buttons on the keypad to scroll up and down for the particular number or special letter.

When the particular number or special letter has been found, the user presses the ENTER button to confirm. When “Bs” is selected, the cursor will backspace to the previous location.

3 Setting Up The SABRE™ I

3.1 Removing The Battery Door

- I. Place your thumbs on the battery door as shown.
- II. Push the battery door outwards in the direction shown.



3.2 Inserting The Battery Door

- I. Align the battery door with the guiding rail as shown.
- II. Make a slight twist to the battery door with your thumb to allow the rib (part A) to slide along the guiding rail while pushing it inwards as shown.



3.3 Inserting The SIM Card

Insert the SIM card (gold-contacts facing the left as shown in Figure 3.3-1) into the SIM slot. Ensure the SIM card is inserted in the position as shown.

(To remove SIM card, press on the SIM card and remove from the slot.)

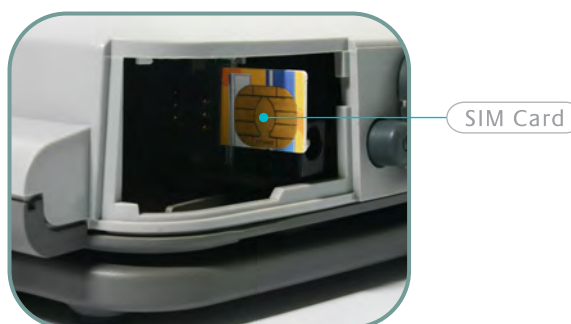


FIGURE 3.3-1: Figure showing the location of the SIM Card in SABRE™ I.

3.4 Installing The Battery

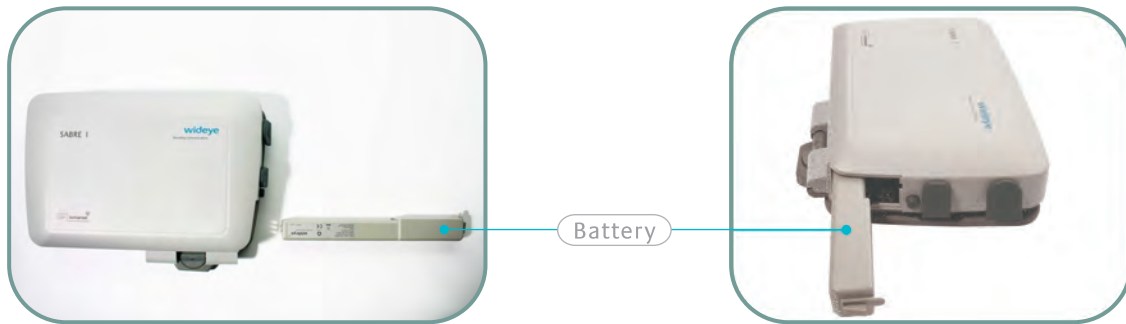


FIGURE 3.4-1: Figure showing the installation position of the Primary Battery.

3.5 Charging The Battery

Insert the Power Adapter connector fully into the Power socket.

Do not remove the battery from the SABRE™ I during charging.

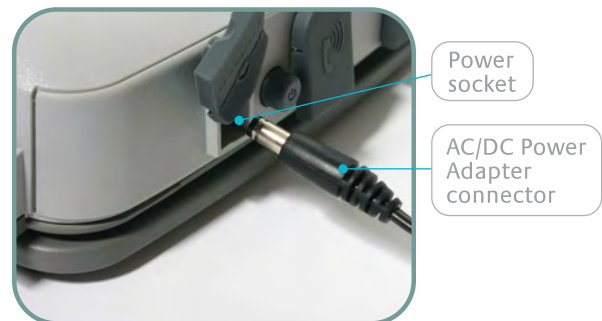


FIGURE 3.5-1: Figure showing the position of the Charger socket on SABRE™ I.

Note:

It takes approximately 3 hours to fully charge the battery.

The charging time will be longer when SABRE™ I is switched ON during the time when the battery is undergoing charging.



An icon to show that the Primary Battery of SABRE™ I has completed charging while SABRE™ I is non-operational (switched off).



An icon to show that the Primary Battery of SABRE™ I is undergoing charging while SABRE™ I is non-operational (switched off).

3.6 Powering Up and Registering to Network

3.6.1 Powering Up

- I. Press and hold the On/Off switch for 3 seconds
- II. The LCD display will show the “wideye” Logo.

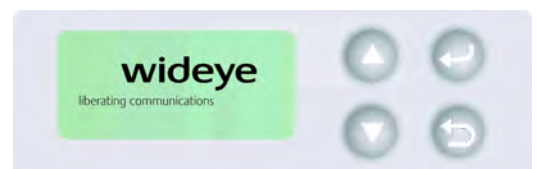


FIGURE 3.6.1-1: LCD display showing the “wideye” logo

3.6.2 Terminal and SIM PINs (4 to 8 digits)

This process is applicable when the PINs are enabled. By default the PINs are disabled. To setup the PINs, refer to Chapter 4, Section 4.6.1.).

- I. Enter the Terminal PIN number.
(Default Terminal PIN: 0000)

(Note: If the PIN is entered incorrectly or if user forgets the Terminal's PIN number, send the unit back to the distributor.)

- II. Enter the SIM PIN number

(Note: If the SIM PIN is entered incorrectly after 3 attempts, the PIN will be locked. Use the PUK (Personal Unblocking Key) code to enter new SIM PIN. If the PUK code is entered incorrectly after 10 attempts, the SIM will be disabled. Contact the Service Provider.)

Note: A SIM Card is not required to make an emergency call. SIM PIN number will not be required in the event of an emergency call.

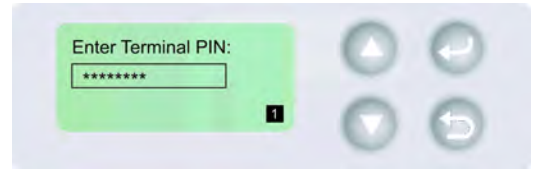


FIGURE 3.6.2-1: LCD display showing SABRE™ I request for Terminal PIN.



FIGURE 3.6.2-2: LCD display showing SABRE™ I request for SIM PIN.

3.6.3 GPS Fix

- I. For first time use, SABRE™ I needs to acquire the GPS coordinates, go to an outdoor location and face the SABRE™ I up to the sky. The terminal shall perform the GPS acquisition automatically.

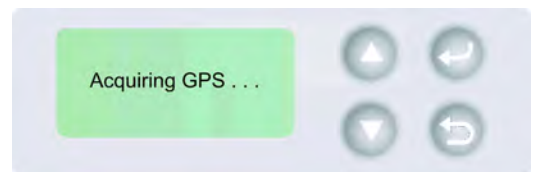


FIGURE 3.6.3-1: LCD display indicating that SABRE™ I is acquiring a New GPS Fix.

- II. When acquisition is done, the LCD display will show **New GPS fix** for 2 seconds.

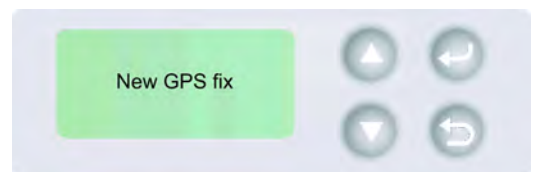


FIGURE 3.6.3-2: LCD display indicating that SABRE™ I has obtained a New GPS Fix.

- III. LCD display will indicate the new estimated azimuth direction and elevation angle that the antenna should point. A **GPS** indicator will be displayed on the Top Right corner of the LCD display to indicate that a New GPS coordinate is in use.

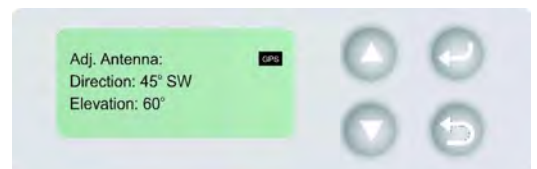


FIGURE 3.6.3-3: LCD display indicating the azimuth direction and elevation angle of the GPS coordinates.

- IV. For subsequent use, the SABRE™ I will not acquire a new GPS, it will prompt the user if the previously stored GPS coordinates should be used.

To use the stored GPS coordinates, use the Up/Down buttons to select Yes and press ENTER. A [GPS] indicator will indicate the use of the stored GPS coordinates.

To re-acquire a new GPS, select No and press ENTER. SABRE™ I will repeat Step I to III.

- V. Press the ENTER button and the LCD will show the signal strength bar.

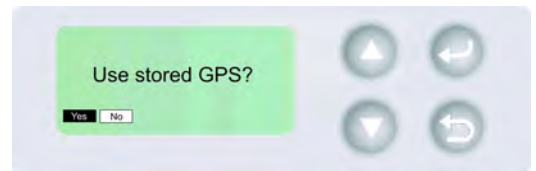


FIGURE 3.6.3-4: LCD display indicating the system's query to user if user would like to use the stored GPS coordinates.



FIGURE 3.6.3-5: LCD display indicating the Signal Strength Bar

3.6.4 Antenna Pointing

- I. SABRE™ I is now in Antenna Pointing state.
- II. To obtain the maximum possible signal strength, adjust the antenna by turning and tilting it. For an acceptable service to commence, a signal strength of minimum 45 dBHz is required. Press ENTER when the maximum possible signal strength is obtained.



FIGURE 3.6.4-1: SABRE™ I exhibiting two degrees of freedom to enable adjustment for optimum signal strength.

- III. SABRE™ I will start the registration with the network.

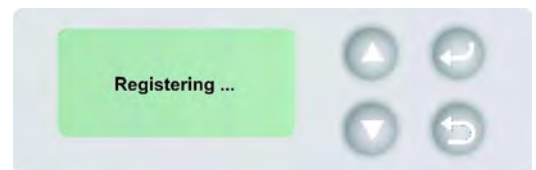


FIGURE 3.6.4-2: LCD display indicating that the SABRE™ I is in the state of Network Registration.

- IV. When registration is successful, the service provider's name will be displayed.

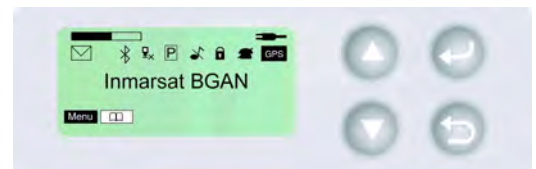


FIGURE 3.6.4-3: LCD display indicating the "Ready State" of SABRE™ I. In this state, the terminal is ready for On Air deployment.

3.6.5 Emergency Call



FIGURE 3.6.5-1: Figure showing the location of the “Menu” icon on the LCD display.

Figure 3.6.4-3 shows the “Ready State” of the LCD display. Use the navigator buttons to access the “Menu” icon. The location of the “Menu” icon is shown in Figure 3.6.5-1. The Emergency call feature on SABRE™ I is shown on Figure 3.6.5-2.

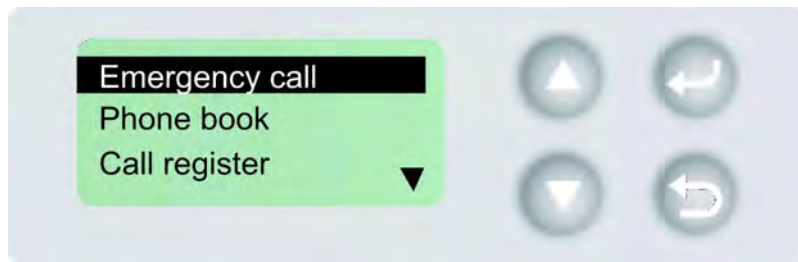


FIGURE 3.6.5-2: Figure showing the Emergency Call feature on the LCD display.

3.7 Connection Diagram

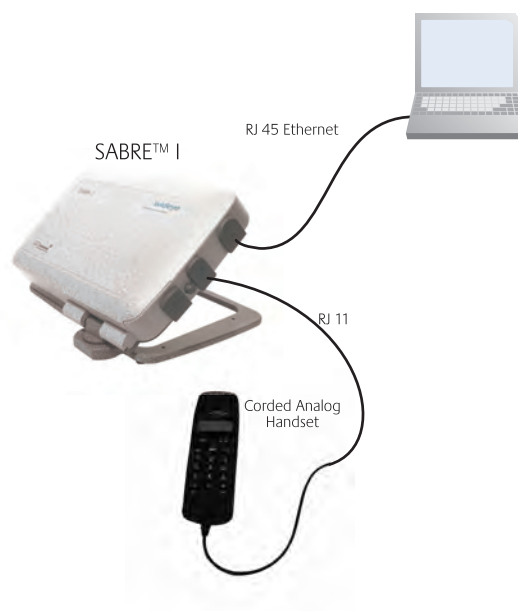


FIGURE 3.7-1: Figure showing the various applications of the SABRE™ I.

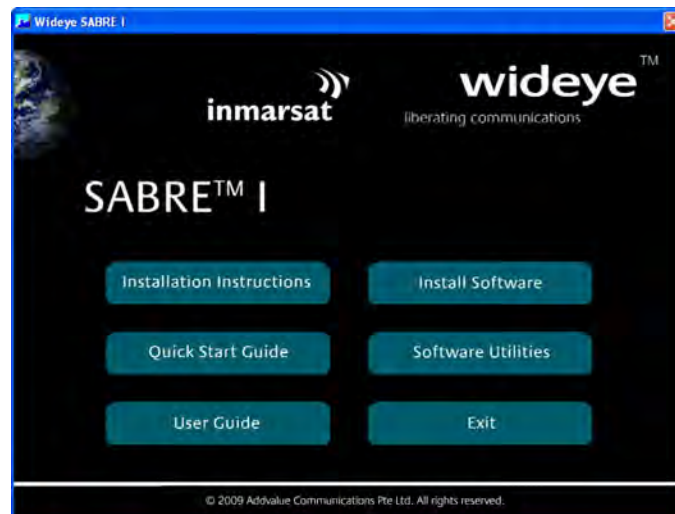
3.8 Installing Drivers and Applications on PC

SABRE™ I Product CD includes an application software called 'BGAN LaunchPad', its associated device drivers and other software utilities. You can use 'BGAN LaunchPad' to open and manage data connections, manage and monitor SABRE™ I (the Terminal) operations and monitor the status of the connections between you're the Terminal and your computer.

Device drivers are required only if the Terminal is to be connected to the PC/Laptop via the Ethernet interface and to operate the Terminal in "Bridge Mode".

Follow the instructions below to install the BGAN LaunchPad and/or associated device drivers on the PC/Laptop based on your preferred mode of operation (Bridge/Router) and your PC/Laptop configurations.

- I. Insert the SABRE™ I Product CD in your PC/Laptop running on Windows 2000/XP/Vista/7. It will automatically bring up the following screen with SABRE™ I "Main Setup Menu".



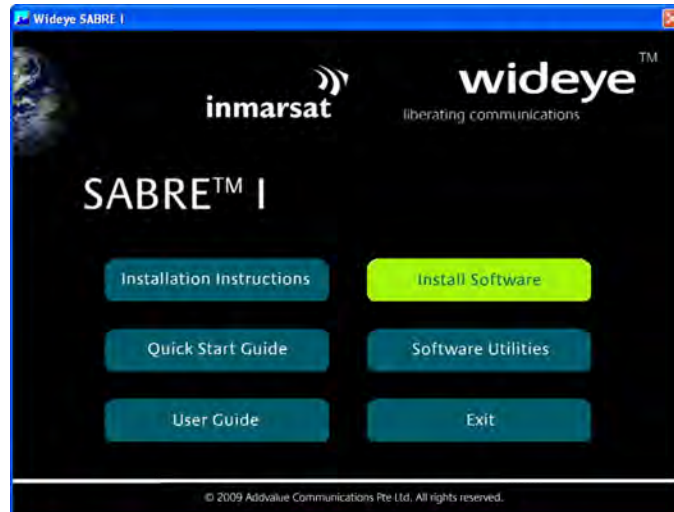
- II. The following Software and Utilities are available on the CD for installation:

- a) [Install Software \(Includes BGAN LaunchPad and device drivers for Ethernet Interface\)](#) (refer to Section 3.8.1)
- b) [Software Utilities \(includes, Firmware Upgrade Utility and Ethernet Interface Configuration Utility\)](#)

3.8.1 Install Software

3.8.1.1 Installation of the SABRE I BGAN LaunchPad and/or Ethernet Serial Device Driver

From the SABRE™ I "Main Setup Menu", Select **Install Software** option as shown below and follow instructions accordingly.



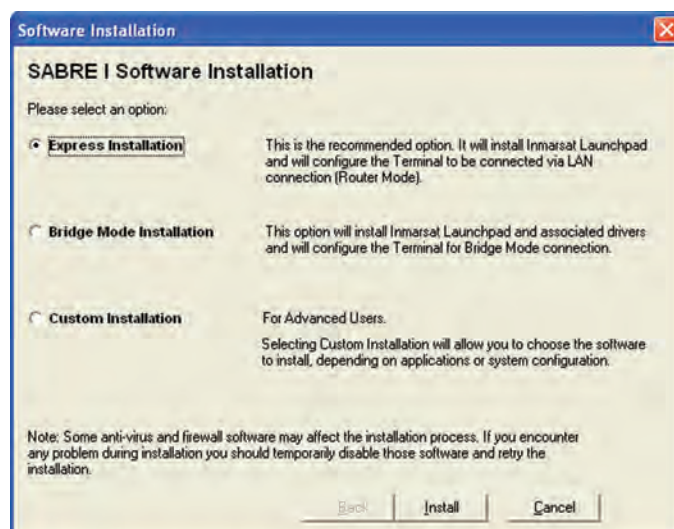
There are three installation options available for users to choose from. It is recommended to use "Express Installation" option. Select "Bridge Mode Installation" if you intend to use the Terminal with Inmarsat LaunchPad and the associated drivers, this will configure the Terminal for Bridge Mode connection. If you are an advanced user, you may select "Custom Installation" option.

3.8.1.1.1 Express Installation

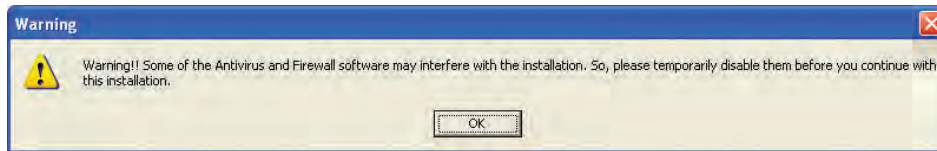
Express Installation will first configure the Terminal to operate it using Ethernet Interface in Router Mode and then install BGAN LaunchPad.

- I. Before starting the Terminal Configuration process, please do the following:
 - a) Unlock and remove the battery door from the Terminal.
 - b) Insert the SIM card and battery into the Terminal.
 - c) Insert and lock the battery door into the Terminal.
 - d) Place the Terminal at a location that is exposed to the sky to acquire GPS information for the first time upon power On.
 - e) After the GPS information has been acquired, power Off the Terminal.
 - f) Connect the Terminal to the PC/Laptop using the Ethernet cable (Cat-5 cable) provided.
 - g) Power On the Terminal

- II. To start the express installation process, select "Express Installation" option and click on "Install" as shown below.



- III. A warning window will appear to alert on disabling of any Anti-virus and Firewall software before continuing with the installation.

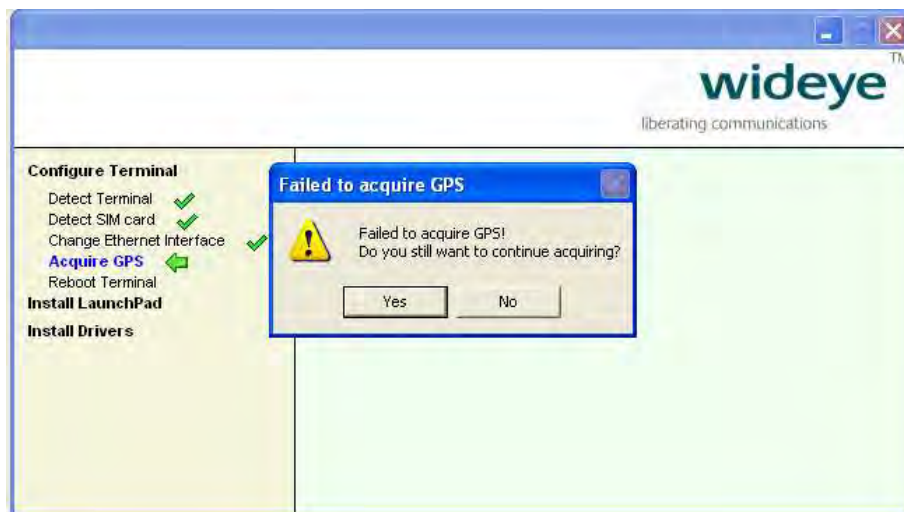


- IV. Click OK.

3.8.1.1.1.1 Configure Terminal

The installer will configure the Terminal automatically. However, if it encounters any problem during the configuration, it will prompt the user with appropriate message to take remedial action.

- I. The installer will first detect the Terminal. If the Terminal is switched off, it will prompt a message, asking user to turn it ON.
- II. It will then detect if the Terminal is inserted with SIM Card. If the Terminal has no SIM card inserted, please switch off the Terminal, insert the SIM card as shown in Section 3.3 or in the Quick Start Guide and then restart the Terminal before proceeding to the next step.
- III. The installer will then wait for the Terminal to acquire GPS fix. If the Terminal successfully acquires the GPS fix, please go to step (V).
- IV. If the GPS fix is not successful (as shown below), make sure that the Terminal is positioned at high elevation angle, exposed to clear sky and then leave it ON for another 2 to 3 minutes before clicking on the "Yes" button to retry GPS acquisition. If it still fails to acquire GPS fix after repeated attempts, please switch OFF the Terminal, switch it ON again and then retry.

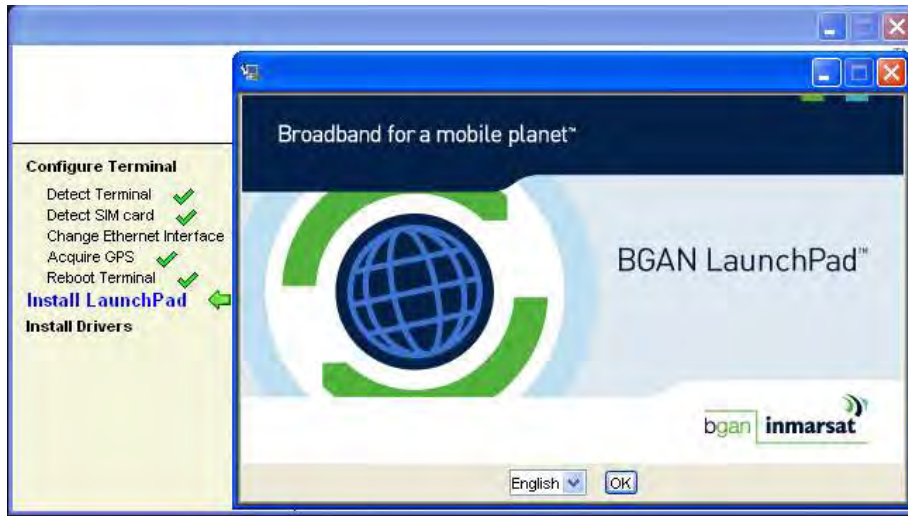


- VI. The installer will then take you to install LaunchPad. Please unplug the Ethernet cable from the Terminal before proceeding to install the **BGAN LaunchPad**.

3.8.1.1.1.2 Installing BGAN LaunchPad

You can use BGAN LaunchPad to open and manage data connections, manage and monitor terminal operations and monitor the status of the connections between your terminal and your computer.

- I. When the installer prompts to proceed with BGAN LaunchPad Installation, click on "OK"



- II. Please follow the step-by-step screen instructions to install the LaunchPad. If there is an already existing LaunchPad Installation detected, please select to “uninstall” the older version of LaunchPad and then install the newer version that comes with the installer.
- III. During LaunchPad installation you will be prompted to select “Personal” or “Corporate”. The default option is “Personal”. Please leave it as default (Personal).

a) **Personal Edition or Corporate Edition:**

BGAN LaunchPad Personal Edition is for personal use, and has the following properties:

- i. All BGAN LaunchPad features are available to you.
- ii. You can personalize all of BGAN LaunchPad's functions and features without restriction.

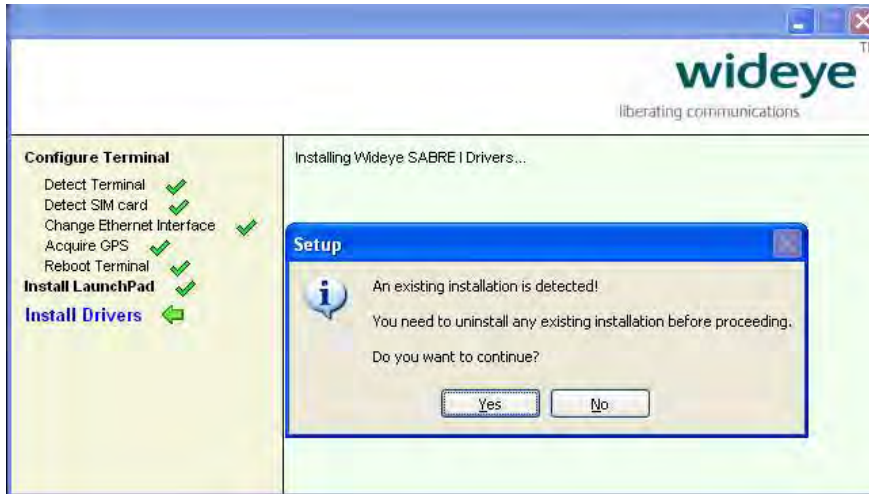
BGAN LaunchPad Corporate Edition is for corporate users and has the following properties:

- i. A user profile is required with the corporate edition. A user profile is created with a separate application called BGAN LaunchPad Corporate Profile Maker.
- ii. The user profile defines user restrictions so some features may not be available to you, depending on the configuration that has been set up by your Corporate IT Manager or service provider.
- iii. You are asked to enter a username and password when logging in to BGAN LaunchPad.

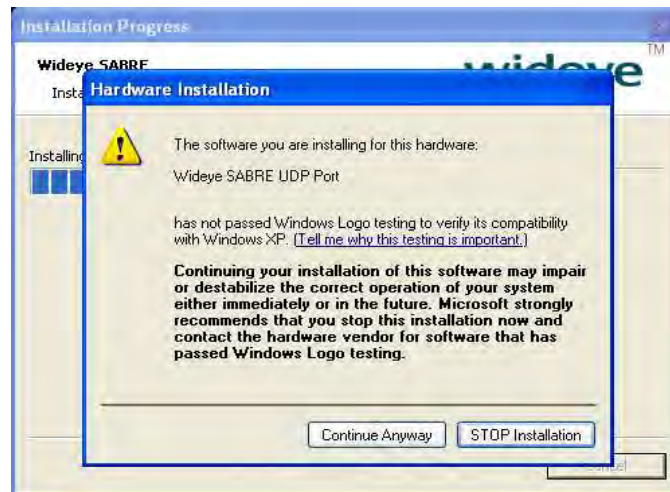


3.8.1.1.1.3 For Bridge Mode Installation

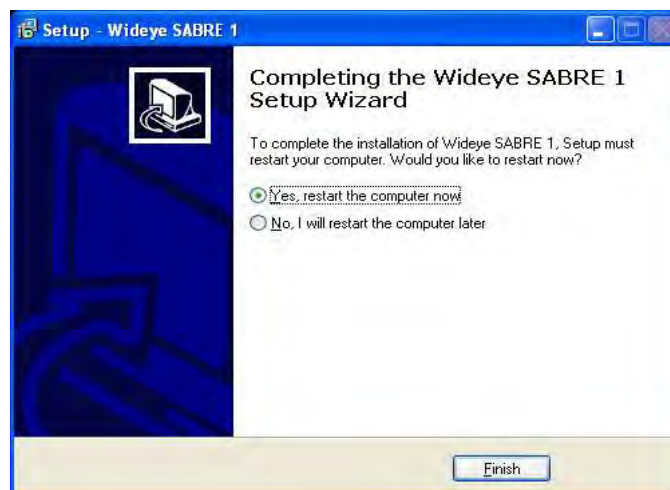
- I. After successful completion of LaunchPad installation, the installer will take you to the next step to install the SABRE™ I Ethernet Serial Device Driver. This driver is required for the Terminal to operate in “Bridge” mode.
- II. If an existing installation of the Device Driver is detected, the installer will prompt the user to uninstall the existing Device Driver before installing the new driver. Click on “Yes” to proceed.



III. During the installation process, you may be prompted warning messages as shown below. Please ignore the messages and click on the “Continue Anyway” button to continue.



IV. After successful installation of the Device Driver, the installer will prompt you to restart your computer. Select “Yes, restart the computer now” option to restart the computer.



V. After PC is restarted, connect the Terminal and PC with Ethernet Cable.

VI. Start the LaunchPad. Now you are ready to use the Terminal!

3.9 DUN Client Installation (Optional if using Launchpad) - Win XP

- I. From Win XP Desktop, click **Start**, select **All Programs > Accessories > Communications > New Connection Wizard**.
- II. From **New Connection Wizard**, click **Next**.



- III. Select **Connect to the network of my workplace** and click **Next**.



- IV. Select **Dial-up connection** and click **Next**.



V. Check on the modem that was created earlier and click **Next**.



VI. Enter a Company Name (for example Any Name) and click **Next**.



VII. Enter *98*1# and click **Next**.



VIII. Select **Anyone's use** and click **Next**.



IX. Check **Add a shortcut to this connection to my desktop** and click **Finish**.



XI. The DUN Client shortcut icon will be created on the Desktop.




4 Using The SABRE™ I

4.1 Call Functions

4.1.1 Making a phone call using the Corded Analog Handset

I. Connect the **Corded Analog Handset** to SABRE™ I via the Corded Analog Handset (RJ11 phone) port.

II. Making phone calls directly –

a) With SABRE™ I in the ready state, using the Corded Analog Handset: Press the  to listen to the dial tone before dialing and dial the calling party number in the following format; <00> <Country Code> <Telephone Number> <#>.

III. Making phone calls via Phonebook –

a) Use the Up/Down buttons to select  icon.

b) Scroll to the calling party's name and Press ENTER.

c) Press the  button on the Corded Analog Handset to listen to the dial tone.

d) Press ENTER to start the dialing sequence.



FIGURE 4.1.1-1: Figure showing the connection of the Corded Analog Handset to the RJ-11 Interface of SABRE™ I.

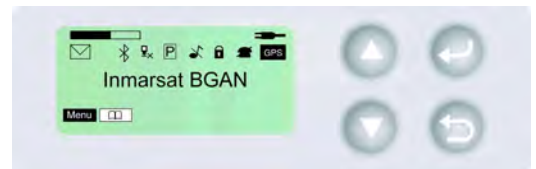


FIGURE 4.1.1-2: SABRE™ I in the ready state.

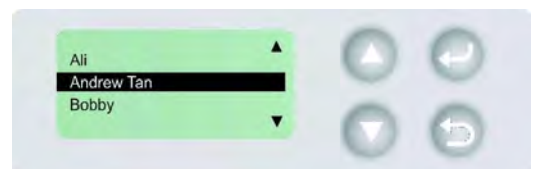


FIGURE 4.1.1-3: LCD Display of the SABRE™ I showing the contents of the phone book.

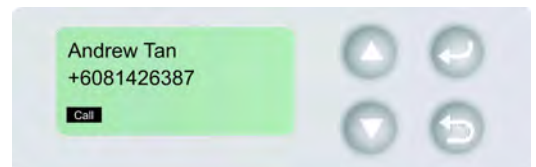



FIGURE 4.1.1-4: LCD Display of the SABRE™ I showing the user's choice of a phone number from the phone book.


4.1.2 Ending a Call

- I. Press the  button on the Corded Analog Handset to end the call.

4.1.3 Answering an incoming call

- I. The ringer will sound when there is an incoming call.
- II. Press the  button on the Corded Analog Handset headset to accept the call.

4.1.4 Making an Emergency Call

- I. From the Ready State screen, select **Menu > Emergency call**.
- II. From the Emergency Call List, select the required **Emergency Number > Select Number > Call**. Press the  before select **Call**.
- III. Emergency call will be established.

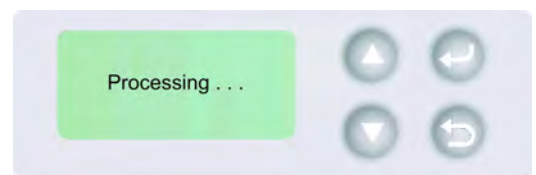


FIGURE 4.1.4-1: LCD on SABRE™ I showing that it is currently processing the list of emergency call numbers after user selects the Emergency Call icon from the Menu.



FIGURE 4.1.4-2: LCD showing the list of emergency numbers that are available for selection after user selects the Emergency Call icon from the Menu.

4.2 Call Register

4.2.1 Viewing Missed, Received or Dialed Calls

- I. From the Ready State screen, select **Menu > Call register > Missed calls, Received calls, Dialed calls or Delete all**.
- II. From the respective call lists, select the required call.
- III. To view call details, press **Enter**.
- IV. To make a phone call to the call number that has been selected, select **Call**.

4.2.2 Deleting Call Lists

- I. From the Ready State screen, select **Menu > Call register > Delete all**.
- II. To delete all, select **All calls > OK** (to confirm).
- III. To delete individual call list, select **Missed calls, Received calls or Dialed calls > OK** (to confirm).
- IV. After deleting, the LCD display will return to **Delete Recent Call Lists**.

4.3 Configuring SABRE™ I for network access (via built in LCD Interface)-(Configuring for Standard Connection)

4.3.1 Ethernet settings on SABRE™ I - Bridge (TAF) Mode

4.3.1.1 Change to Bridge mode:

- I. From the LCD, use the Up/Down buttons to select **Menu > Settings > Interfaces > Ethernet > Connectivity > Bridge Mode** and Press ENTER
- II. Use the Up/Down buttons to select **Enable** and Press ENTER.

4.3.1.2 Proceed with the following steps to activate a Data connection:

- I. From the PC, open DUN Client - double-click on the DUN Client icon.
Note: There is a standard primary profile, cid = 1, as default configuration.
- II. Click **Dial** to start connection. Username and Password are not required.
- III. Wait until connection is successful, open the Internet Browser to begin “Surfing”.



4.3.2 Ethernet settings on SABRE™ I - Router (IP) Mode:

4.3.2.1 Configure mode:

- I. From the LCD, use the Up/Down buttons to select **Menu > Settings > Interfaces > Ethernet > Connectivity > Router Mode** and Press ENTER.
- II. Use the Up/Down buttons to select **Enable** and press ENTER.

4.3.2.2 Setup your PC to get IP address dynamically

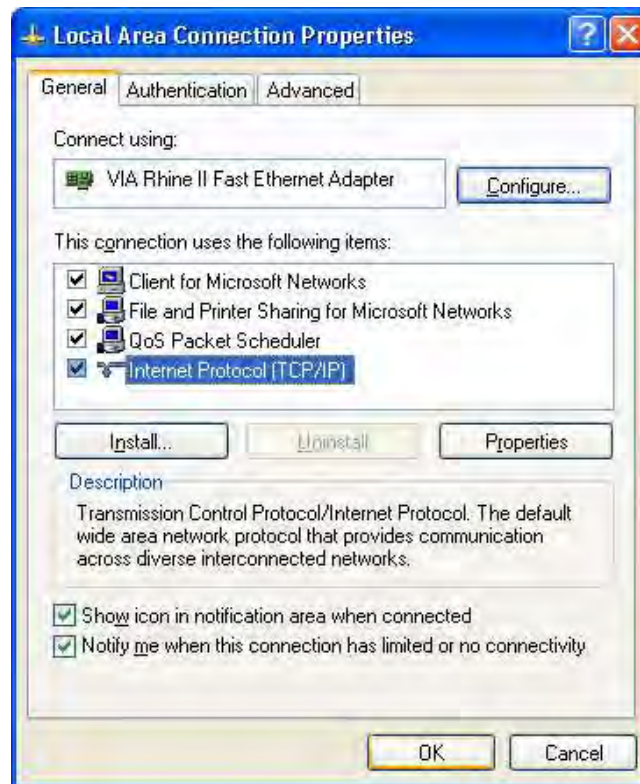
- I. Open “Network and Dial-up Connections” window from Control Panel, double-click on the Local Area Connection.



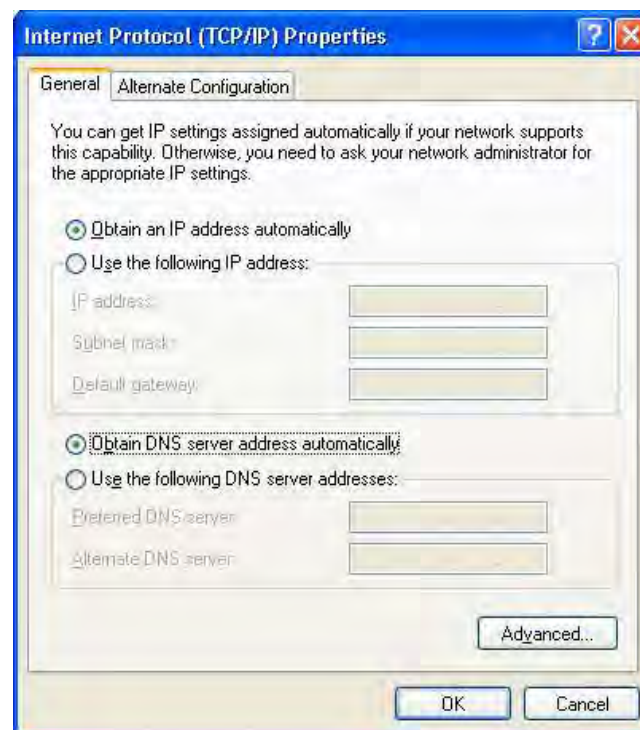
- II. Select Properties.



III. Select and check **Internet Protocol (TCP/IP)** and click **Properties**.



IV. Select **Obtain an IP address automatically** and **Obtain DNS server address automatically** and click **OK**.



V. Close all the windows.

4.3.2.3 Proceed with the following steps to active a Data connection:

- I. From the LCD, use the Up/Down buttons to select **Menu > Settings > Interfaces > Ethernet > Connectivity > Router Mode** and Press ENTER
- II. Use the Up/Down buttons to select **Options > Automatic** and press ENTER if you need SABRE™ I to make a data connection automatically after bootup.
- III. Select **Options > Manual** if you want to make the connection manually at the time you need it.
- IV. Use **Connect** or **Disconnect** to activate or deactivate a data connection respectively.
- V. If **Options > Automatic** is selected, unplugging and re-plugging the Ethernet cable will also activate the Data connection.



FIGURE 4.5.2.3-1: LCD Display of SABRE™ I showing that a successful IP connection has been established after network parameter configuration.

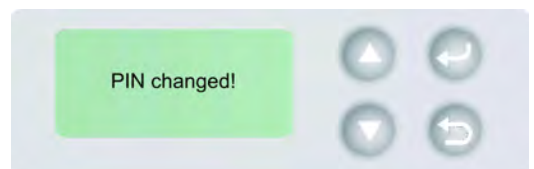
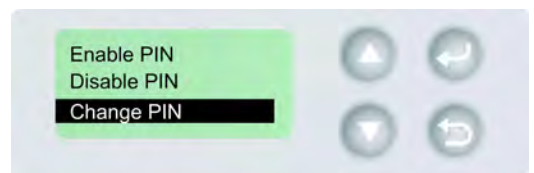
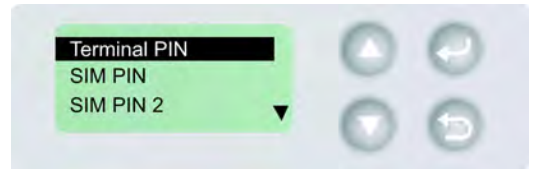
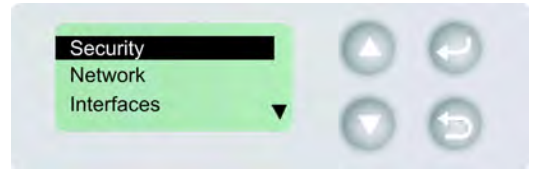
4.4 Settings

4.4.1 Security Settings

- I. To enable or disable - Terminal PIN/ SIM PIN/SIM PIN 2/ SIM Personalization/ Service Provide PIN/ Corporate PIN, from Security, select Terminal PIN/ SIM PIN/ SIM PIN 2/ SIM Lock/ Service Provider/ Corporate PIN > Enable PIN or Disable PIN > enter PIN > OK.
- II. To change Terminal PIN/ SIM PIN/SIM PIN 2/ SIM Lock PIN/ Service Provide PIN/ Corporate PIN, from Terminal PIN/ SIM PIN/ SIM PIN 2/ SIM Lock/ Service Provider/ Corporate PIN, select Change PIN > Enter PIN (old PIN) > Enter new PIN > Re-enter new PIN.

When done, the LCD display will show PIN Changed.

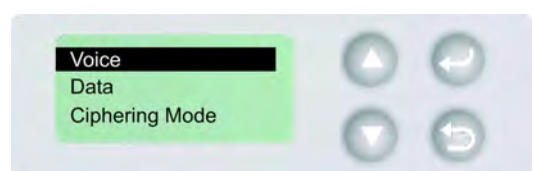
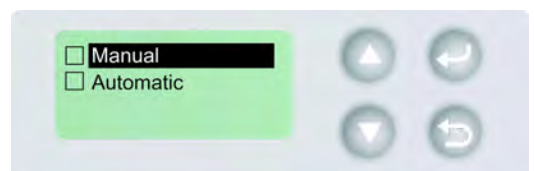
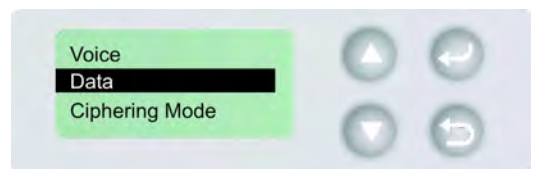
(Note: To change any PIN, that PIN has to be enabled first before making the change.)




4.4.2 Network Settings

Selecting the Network profiles and Packet Switching.

- I. To configure Data, from **Network**, select **Data** > **Manual** or **Automatic**.
- II. For **Automatic**, the LCD will show **Automatic** selected!
- III. For **Manual**, the LCD will show **Manual** selected! (When **Manual** is selected, Data will not be activated during the next power on.)
- IV. To configure Voice, from **Network**, select **Voice** > **Manual** or **Automatic**.
- V. For **Automatic**, the LCD will show **Automatic** selected!
- VII. For **Manual**, the LCD will show **Manual** selected! (When **Manual** is selected, Voice will not be activated during the next power on.)



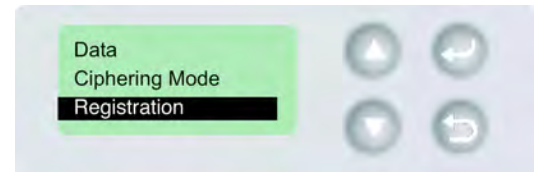
- VIII. To configure Ciphering mode, from **Network**, select **Ciphering mode** > **Enable** or **Disable**.

The LCD will show **Setting saved!** Press **Return** button until LCD goes back to Ready State, if Ciphering mode is enabled, the icon  will be shown.

Note: Ciphering mode – This feature increases the security of the sent data. This configuration only be activated during the next power on.

- XI. To configure Registration mode, from **Network**, select **Registration** > **Automatic** or **Manual**.

If Automatic is selected, the terminal will register to the network automatically upon next power on.

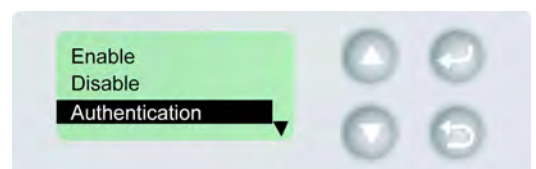
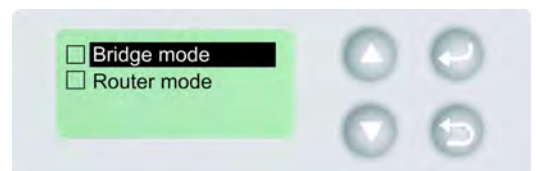
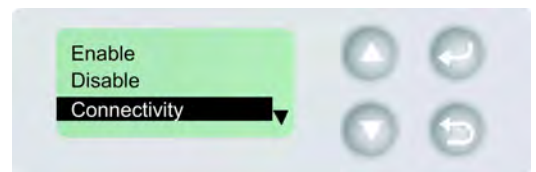


4.4.3 Interface Settings

Ethernet Connectivity Settings

- I. From the Ready State screen, select **Menu** > **Settings** > **Interfaces** > **Ethernet** press ENTER.
- II. To enable or disable Ethernet, select **Enable** or **Disable**.
- III. To select Bridge Mode or Router Mode Connection, from **Ethernet**, select **Connectivity**.
- IV. For Bridge Mode connection, select **Bridge Mode connection** with the **Up/Down** button and press ENTER.
- V. Select **Enable** to activate Bridge Mode connection. The LCD will show **Bridge Mode connection enabled!** Select **Disable** to deactivate Bridge Mode connection. (When **Disable** is selected, the connection will automatically switch to Router Mode connection.)
- VI. For Router Mode connection, select **Router Mode** with the **Up/Down** button and press ENTER.
- VII. Select **Enable** to activate Router Mode connection. The LCD will show **Router Mode connection enabled!** Select **Disable** to deactivate Router Mode connection. (When **Disable** is selected, the connection will automatically switch to Bridge Mode connection.)
- VIII. For **Router Mode Connection** settings, select **Router Mode** and continue with the following:

- a) Set **Authentication**, select **Authentication** > **PAP, CHAP, AUTO** or **NONE**.



b) Set **DNS Setting**, select **DNS setting > Dynamic** or **Static**.

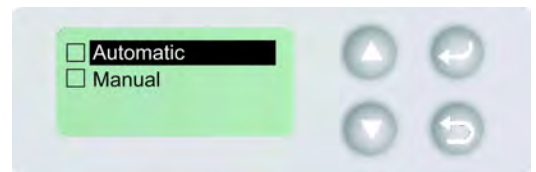
c) For **Dynamic**, the primary and secondary DNS IP addresses will be automatically assigned.

d) For **Static**, user may edit the primary and secondary DNS IP addresses.

e) To edit the Primary and Secondary DNS IP addresses, select **Static > Primary** or **Secondary DNS IP addresses**. Select **Edit** to make changes to the addresses. After editing, select **OK** to save the new Primary or Secondary DNS IP addresses.

f) Set options for connection, select **Options > Automatic** or **Manual**.

g) Select **Connect** to initiate the Ethernet connection or **Disconnect** to terminate the Ethernet connection.



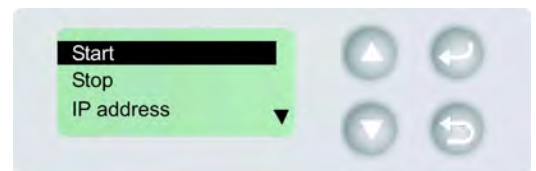
IX. Ethernet DHCP Server Configuration.

From **Interfaces Settings**, select **Ethernet > DHCP config**. Continue with the following:

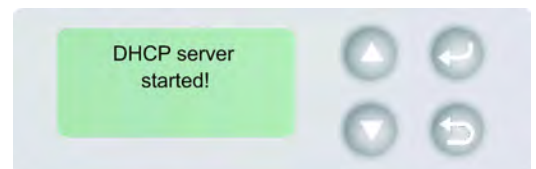
a) Select **Start** to start the DHCP server.

b) Select **Stop** to stop the DHCP server.

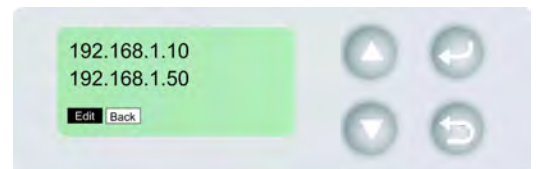
c) To configure **Start & End IP addresses**, select **IP address**. The LCD display will show the current Start & End IP addresses, select **Edit** to make changes to the Start & End IP addresses. After editing, select **OK** to save the new Start or End IP addresses.



d) To configure the **Lease Time**, select **Lease Time**. The LCD display will show the current Lease Time, select **Edit** to make changes to the Lease Time (from 0 to 43200 seconds), after editing, select **Save** to save the new Lease Time.



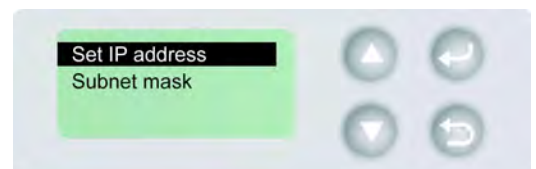
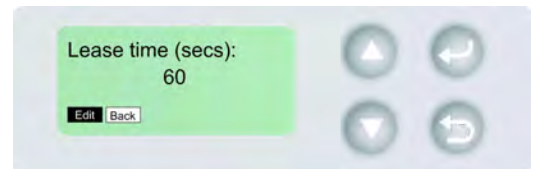
Note: Start and End IP addresses – These are the IP addresses that will be assigned by the DHCP server to the laptops and computers that are connected to SABRE™.



X. Local IP address Setting

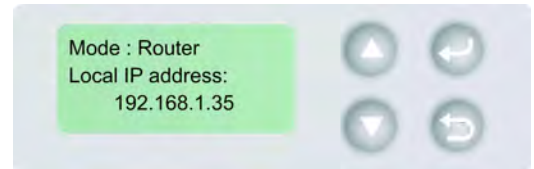
a) From **Interfaces**, select **Ethernet > Local IP address**. Continue with the following:

- i. To set the **Local IP address**, select **Set IP address**. The LCD display will show the current Local IP address, select **Edit** to make changes to the Local IP address. After editing, select **Ok** to save the new Local IP address.
- ii. Select **Subnet Mask** and LCD will display current Subnet Mask.



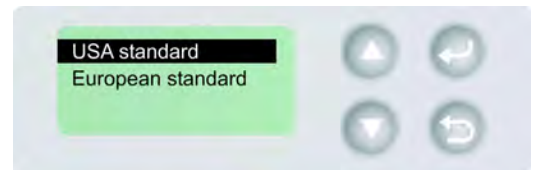
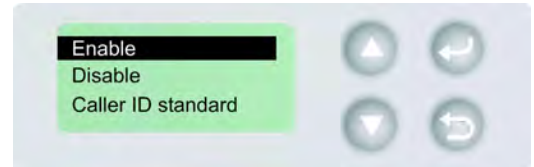
XI. Status

- a) From **Interfaces** , select **Ethernet >Status**. The LCD display will show the connectivity mode and Local IP address status.



XII. Telephony Settings

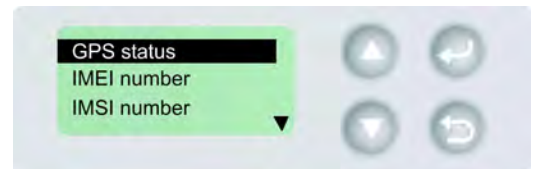
- a) From the Ready State screen, select **Menu > Settings > Interfaces > Telephony**. Continue with the following:
- Select **Enable** to enable Telephony feature.
 - Select **Disable** to disable Telephony feature.
 - Select **Caller ID standard > USA standard** or **Europe standard** > press ENTER. SABRE™ I will set to the new standard.



XIII. My Terminal

From the Ready State screen, select **Menu > Settings > My terminal**.

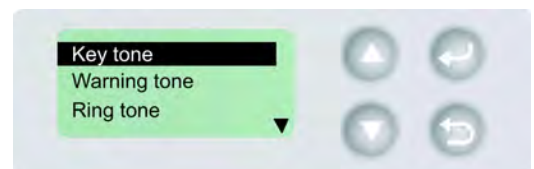
- a) To view the current GPS status, select **GPS status**. The LCD display will show the current Lat/Long position.
- b) To view the IMEI number, select **IMEI number**.
- c) To view the IMSI number, select **IMSI number**.
- d) To view the current software version, select **Software version**.
- e) To view the current hardware version, select **Hardware version**.
- f) To view the manufacturer's name, select **Manufacturer**.
- g) To view the SIM card number, select **Own number**.



XIV. Tone Settings

Configure the alert tones for the Key, Warning, Ringing and Message.

- a) From the Ready State screen, select **Menu > Settings > Tone > Key tone, Warning tone, Ring tone or Message tone**.
- b) To select the tone types, select **Tone** and choose from the available 5 melodies with the **Up/Down** button and press ENTER to select and save the new melody.



c) To select the volume level, select **Volume** and adjust the volume from **Soft** to **Loud** with the **Up/Down** button and press ENTER to select and save the new volume setting.

d) To turn off all tones, from **Tone**, select **All Tones off**.

e) To re-enable all tones, select **All Tone on**.

XV. Display Settings

Configure the Contrast and Brightness of the LCD display.

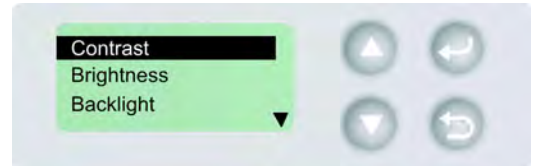
a) From the Ready State screen, select **Menu > Settings > Display**.

b) To adjust the Contrast level, select **Contrast** and adjust the contrast level from 0 to 12 with the **Up/Down** button and press ENTER to select and save the new contrast setting.

c) To select the **Brightness** level, select **Brightness** and adjust the brightness from level 0 to 5 with the **Up/Down** button and press ENTER to select and save the new brightness setting.

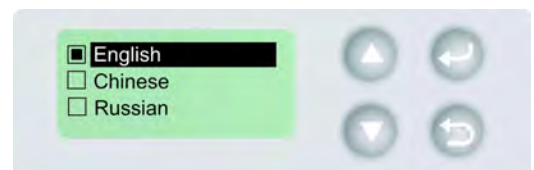
d) To control the LCD **backlight**, select **Backlight** and choose the duration settings (Off, 5 sec to 60 sec) with the **Up/Down** button and press ENTER to select and save the new backlight setting.

e) To control the Dim time, select **Dim time** and choose the settings from 0 to 4 with the **Up/Down** button and press ENTER to select save the new dim time setting.



XVI. Language

Configure the SABRE™ I operation language. From the Ready State screen, select **Menu > Settings > Language > English, Chinese, Russian, French, Japanese or Spanish**.

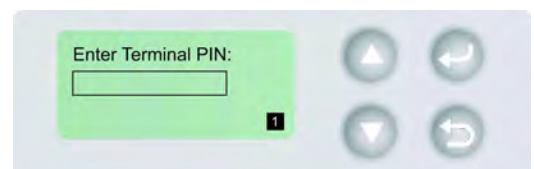


XVII. Reset Settings

Reset the SABRE™ I to factory default settings.

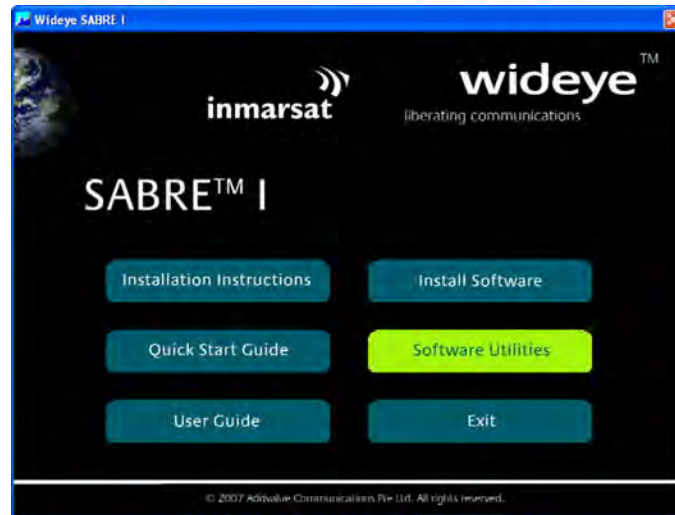
a) From the Ready State screen, select **Menu > Settings > Reset settings > Enter Terminal PIN > OK**.

b) The SABRE™ I will be reset to Factory default settings.



4.5 Firmware Upgrade

Insert SABRE™ I product CD and from the SABRE™ I Main Setup Menu, select **Software Utilities** option and follow instructions accordingly.

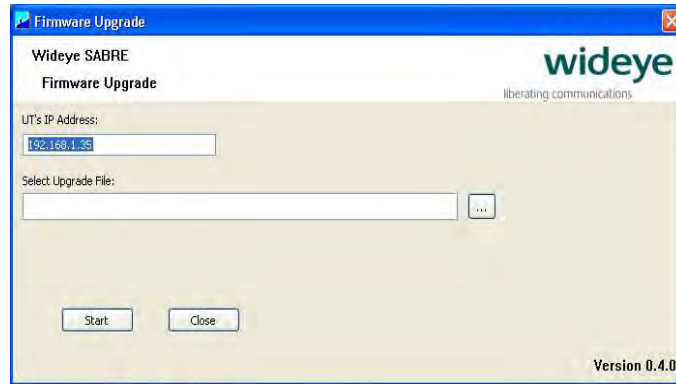


Please download the new firmware at the recommended web-site and save it in your PC/Laptop's hard drive. Select **Firmware Upgrade** to perform upgrade of the firmware. Make sure the Terminal is switched ON and connected to the PC via Ethernet cable and then click on "RUN".



Select the downloaded new firmware (with the file name extension ".sb1", e.g., R012.1.1.sb1) and click on "Start". Firmware upgrade will take about 10 to 12 minutes to complete. So, please wait patiently until the whole process is complete.

If you encounter any errors (such as timeout errors) during the firmware upgrade process, do not select the retry option but restart the Terminal (by unplugging the power supply, removing the battery, putting the battery back, re-plugging the power supply and then pushing the power switch), close and restart the Firmware Upgrade Utility and then retry the firmware upgrade process from the beginning.



Warning!!!:

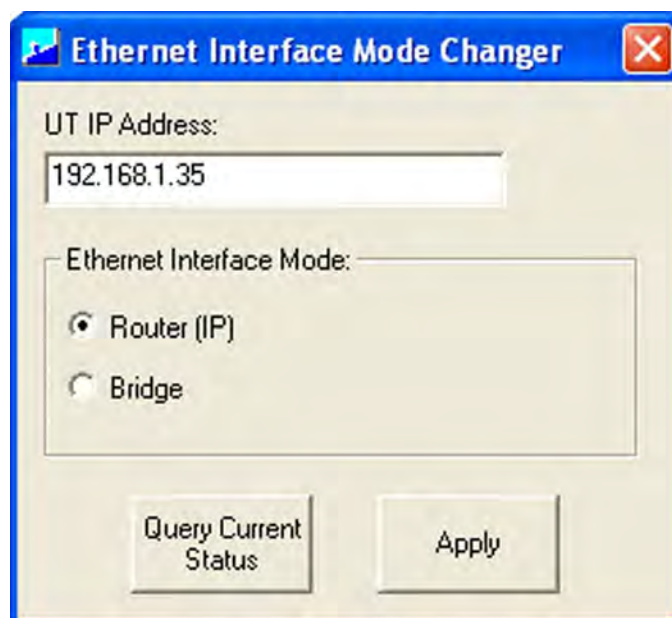
DO NOT abort the firmware upgrade process half way through or unplug the power of the Terminal during the firmware upgrade. Doing so will corrupt the exiting firmware loaded onto the Terminal.

Special instructions to Router Mode users (including Dual Core users):

Before upgrading the SABRE™ I terminal with the new firmware, please read the release note that is available together with the new firmware. Some of the firmware upgrades will automatically reset the SABRE™ I terminal to factory defaults, which means, the SABRE™ I terminal will be set to "Bridge Mode" by default. So, if you are a "Router Mode" user, you need to use the Software Utility that is available in the Product CD, to set the SABRE™ I terminal back to "Router Mode" before using the LaunchPad.

The procedure to set the SABRE™ I terminal back to "Router Mode" with the Software Utility are as follows:

- a) Connect the SABRE™ I terminal to the PC/Laptop with the Ethernet cable.
- b) Click on "Software Utilities" (from the Product CD, Main Menu).
- c) Select "Ethernet Interface Configuration" and click "Run".
- d) Under Ethernet Interface Mode, select "Router (IP)" and click "Apply".



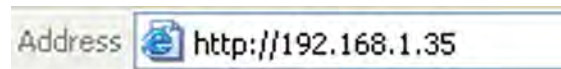
- e) Now the SABRE™ I terminal is set to "Router Mode".

When the SABRE™ I terminal is reset to factory defaults; the stored GPS information will also be removed. It is necessary for the user to acquire a new GPS fix before using the SABRE™ I terminal for any services.

4.6 Activating SABRE™ I Web Console

SABRE™ I Web Console provides a convenient way for user to configure a setting, and to ensure that the configuration will be saved permanently, please reboot the terminal after a setting is changed.

- I. Insert the SIM card and switch on the SABRE™ I terminal.
- II. Connect the RJ45 Ethernet cable from the SABRE™ I terminal to the PC.
- III. When the connection has been established, open the web browser (for example: Internet Explorer) and type **http://192.168.1.35** in the Address field.



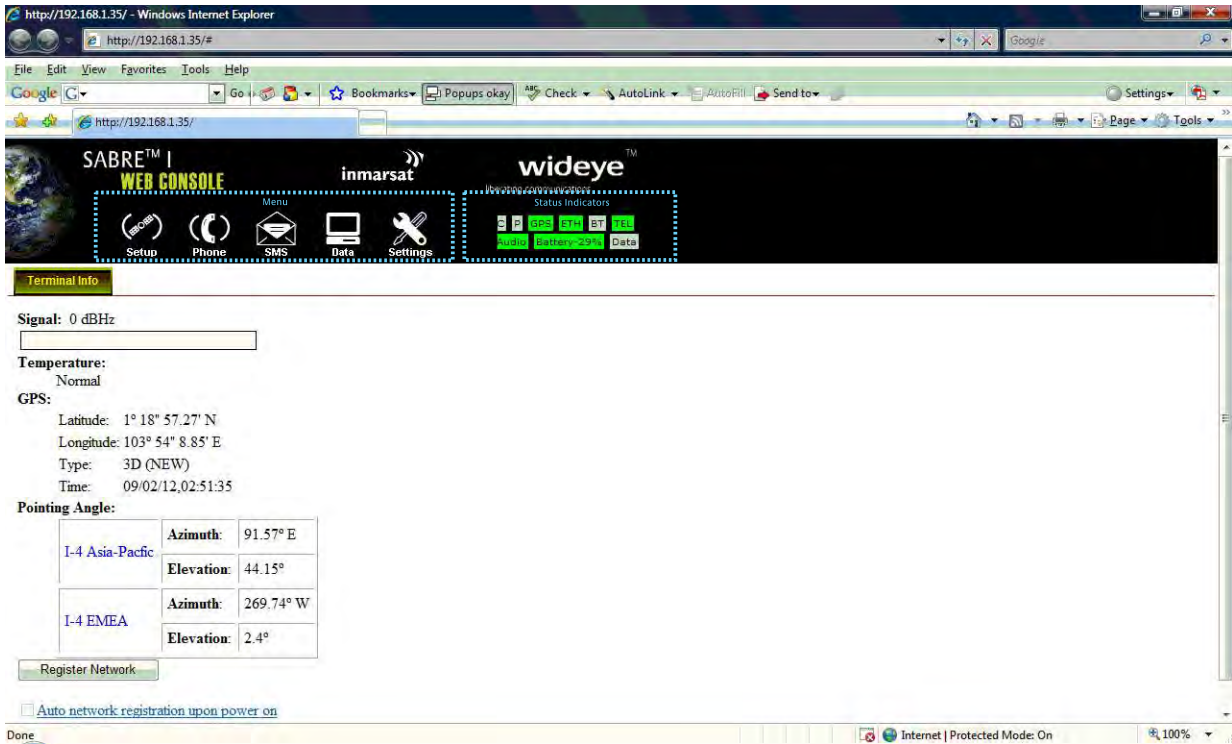
- IV. The User name and Password window will appear. The default User name is **admin** and Password is **wideye**. Click OK after entering the User name and Password.

Note:

For firmware version R012.0.5 and earlier, the default user name is **sabre1** and the password is **wideye**.



- V. The SABRE™ I Web Console will open, if required, proceed with Acquiring GPS, antenna pointing and registration to the network.
- VI. Upon registration, proceed to select the various featured options.



Status Indicators:



Green indicates that the item is activated.
 Grey indicates that the item is not activated.

Menu (Overview):



Setup	Phone	SMS	Data	Settings
Terminal Info	Dialler	Compose	Connection	Terminal Info
	Phonebook	Inbox	Primary Profile	Terminal
	Call History	Sent	Secondary Profile	Ethernet
	Emergency	Draft	Port Forwarding	Telephony
			Settings	PIN
				SMS
				Audio
				Network
				AT Cmd
				Misc
			Support	
			About	

4.6.1 Click to view the Terminal's information

During the Antenna Pointing mode (before registering to the Inmarsat BGAN network), the Terminal Information will be as shown:



Terminal Info

Signal: 45.5 dBHz


Temperature:
Normal

GPS:
Latitude: 1° 18' 57.27' N
Longitude: 103° 54' 8.85' E
Type: 3D (NEW)
Time: 09/02/12,02:51:35

Pointing Angle:

I-4 Asia-Pacific	Azimuth:	91.57° E
	Elevation:	44.15°
I-4 EMEA	Azimuth:	269.74° W
	Elevation:	2.4°

[Register Network](#)

[Auto network registration upon power on](#)

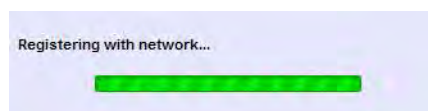
Signal: the signal strength during antenna pointing. (Adjust the antenna to ensure that the signal strength is at least 45dBHz.)


Temperature: the Terminal's current operating temperature.

GPS: the latitude, longitude, type and time of the GPS acquisition.

Pointing Angle: the azimuth and elevation angle which the Terminal should be positioned.

To register to the Inmarsat BGAN network, click Register Network



Registering with network...


After registration is completed, the Terminal Information will be as shown below:



Terminal Info

Signal: 52.75 dBHz


Temperature:
Normal

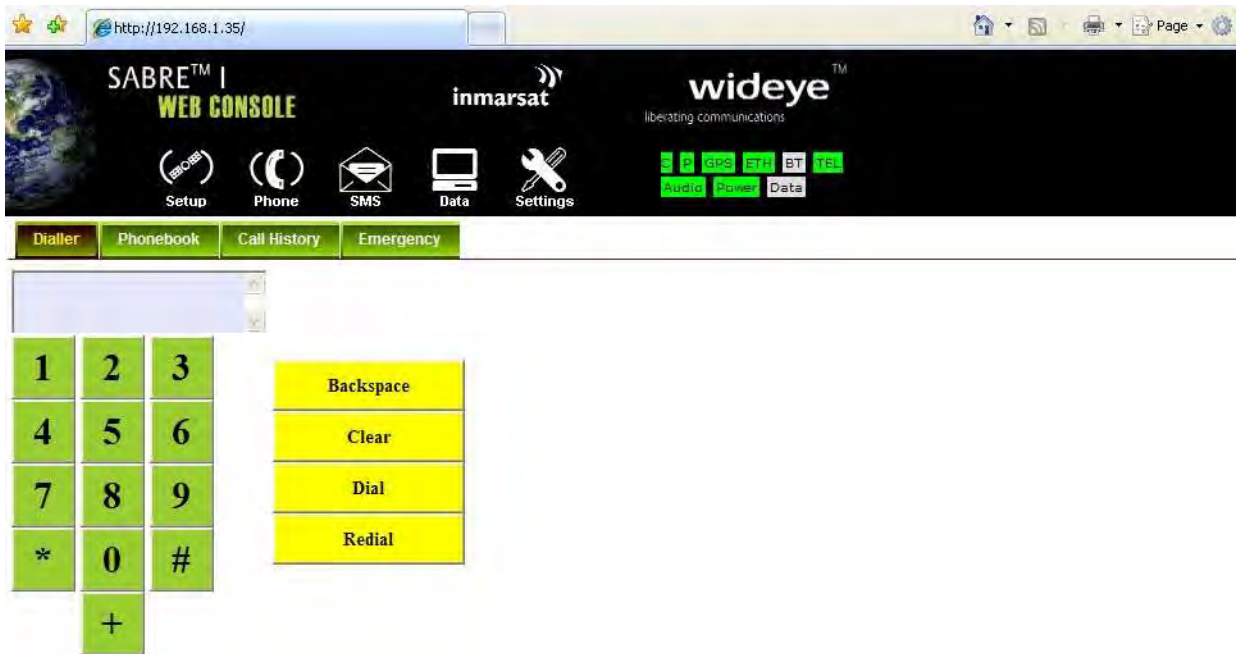
GPS:
Latitude: 1° 18' 57.27' N
Longitude: 103° 54' 8.85' E
Type: 3D (NEW)
Time: 09/02/12,02:51:35

Pointing Angle:

I-4 Asia-Pacific	Azimuth:	91.57° E
	Elevation:	44.15°
I-4 EMEA	Azimuth:	269.74° W
	Elevation:	2.4°

Registered to network. You are now able to make phone call or send SMS and data transfer.

4.6.2 Click  to make voice calls, view the Phonebook, Call History and make Emergency Calls.



Dialler

Before making a voice call, ensure that the PSTN corded (analog) phone is connected to the SABRE™ I RJ11 interface socket



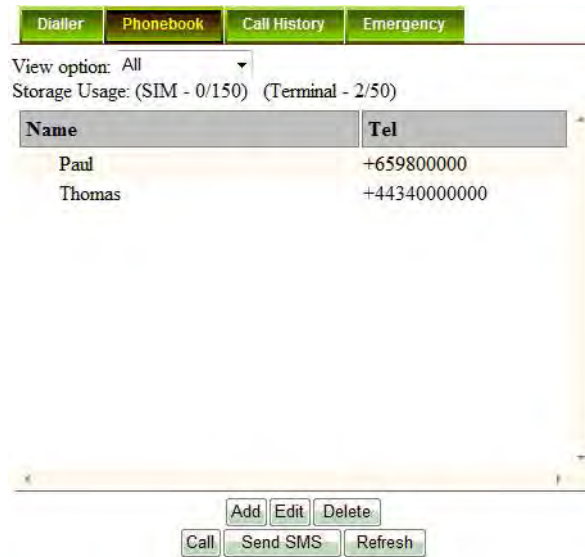
To make a call:

- I. Click on the numeric keypad on the display in this format: **+<Country Code><Phone Number>**. Press the **Offhook** button on the PSTN corded (analog) phone, and click **Dial**

To end a call:

- II. Press the **Onhook** button on the PSTN corded (analog) phone.
Click **Backspace** to clear the last entered number on the display.
Click **Clear** to delete the entered phone number.
Click **Redial** to redial the last called phone number

Phonebook



View option: To view the Phonebook entries from the different locations.

Select from the pull-down menu:

All - to view the entries located in the SIM card and SABRE™ I Terminal.

SIM only - to view the entries located in the SIM card only.

Terminal only - to view the entries located in the SABRE™ I terminal only.

Storage Usage: Shows the number for Phonebook entries used in the SIM card and Terminal locations. For example: (SIM - 5/150); Storage location - SIM card, total number of entries used = 5 and total number of storage = 150

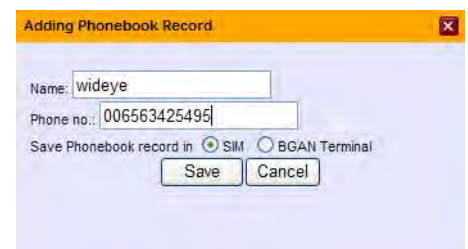
To add a new Phonebook entry:

- i. Click **Add**.
- ii. Enter the Name, Phone number, select the storage location and click **Save**.



To edit a Phonebook entry:

- i. Select the entry from the Phonebook list.
- ii. Click **Edit**.
- iii. Proceed to change the Name and/or Phone number. When done, click **Apply**.



To delete a Phonebook entry:

- i. Select the entry from the Phonebook list.
- ii. Click **Delete**.
- iii. Click **Ok** to confirm to delete the entry. Click **Cancel** to abort delete



To make a call from the Phonebook:

- i. Select the entry from the Phonebook list.
- ii. Click **Call**. (The Phonebook console will switch over to the Dialler console.)
- iii. Press the **Offhook** button on the PSTN corded (analog) phone
- iv. From the Dialler console, click **Dial**.

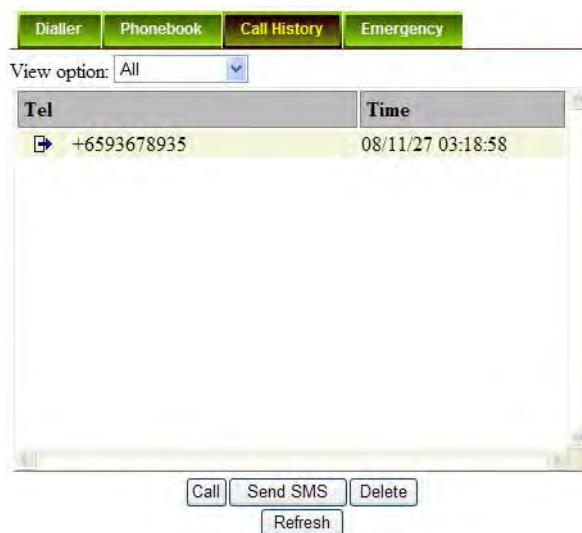
To send an SMS from the Phonebook:

- i. Select the entry from the Phonebook list.
- ii. Click **Send SMS**. (The Phonebook console will switch over to the Compose SMS console.)
- iii. Type in the text message and click **Send**.

To refresh the Phonebook list:

- i. Click **Refresh** and the Phonebook list will be refreshed.

Call History



View option: To view the calls from different events.

Select from the pull-down menu:

All - to view the list of the dialled, received and missed calls.

Dialled Call - to view the list of dialled calls only.

Received Call - to view the list of received calls only.

Missed Call - to view the list of missed calls only.

To make a call from the Call History list:

- i. Select the entry from the list.
- ii. Click **Call**. (The Call History console will switch over to the Dialler console.)
- iii. Press the **Offhook** button on the PSTN corded (analog) phone
- iv. From the Dialler console, click **Dial**.

To send an SMS from the Call History list:

- i. Select the entry from the list.
- ii. Click **Send SMS**. (The Call History console will switch over to the Compose SMS console.)
- iii. Type in the text message and click **Send**.

To delete a Call History entry:

- i. Select the entry from the Call History list.
- ii. Click **Delete**.
- iii. Click **Ok** to confirm to delete the entry. Click **Cancel** to abort delete

To refresh the Call History list:

- i. Click **Refresh** and the Call History list will be refreshed.

Emergency



To make an Emergency call:

- i. Select the number from the list.
- ii. Click **Call**. (The Emergency console will switch over to the Dialler console.)
- iii. Press the **Offhook** button on the PSTN corded (analog) phone
- iv. From the Dialler console, click **Dial**.

To refresh the Emergency list:

- i. Click **Refresh** and the Emergency list will be refreshed.

4.6.3 Click  to compose a new SMS and view received, send and saved SMS.



Compose

Compose Inbox Sent Draft


Phone no.: +6593678935 28 / 160

Type your text message here.

Send Save Clear

Store a sent copy in SIM

To compose a new SMS:

- i. Enter the receiver's phone number in the **Phone no.** box. If the receiver's number is listed in the Phonebook, the number can be retrieved by clicking .
- ii. Type the message in the text editor box. Message is limited to 160 characters including spacing.
- iii. Click Send to send the SMS.

To save an unsent SMS, click **Save** and the unsent SMS will be saved in **Draft**.

To clear the typed message on the text editor, click **Clear**.

Uncheck if you do not wish to store a sent SMS into SIM card.

Inbox - Shows the details of all received SMS

Compose **Inbox** Sent Draft

Storage Usage: (SIM - 11/100)

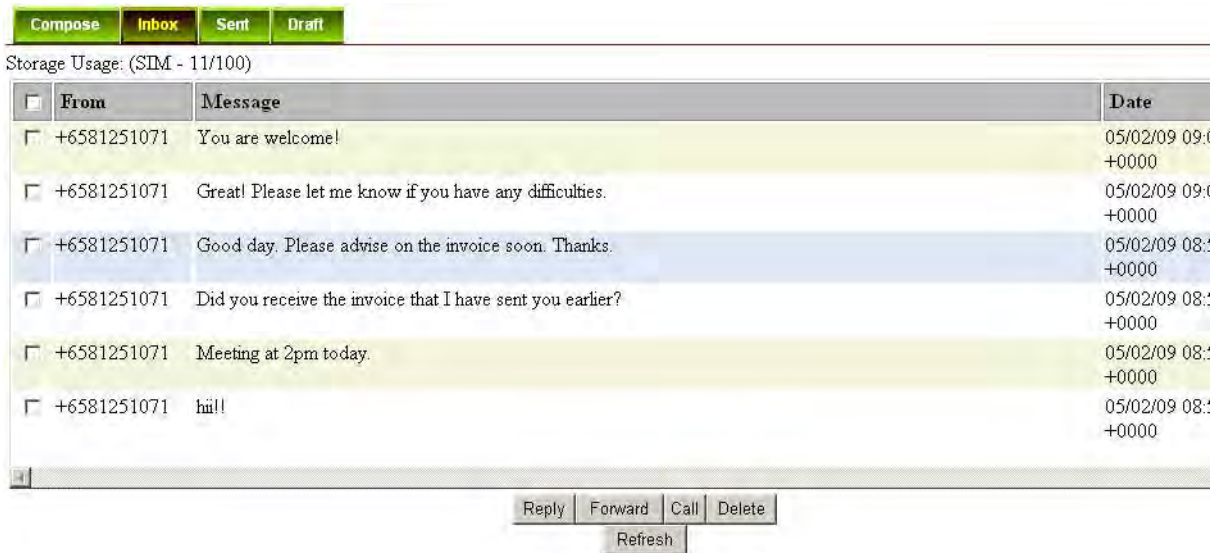
<input type="checkbox"/>	From	Message	Date
<input type="checkbox"/>	+6581251071	You are welcome!	05/02/09 09: +0000
<input type="checkbox"/>	+6581251071	Great! Please let me know if you have any difficulties.	05/02/09 09: +0000
<input type="checkbox"/>	+6581251071	Good day. Please advise on the invoice soon. Thanks.	05/02/09 08: +0000
<input type="checkbox"/>	+6581251071	Did you receive the invoice that I have sent you earlier?	05/02/09 08: +0000
<input type="checkbox"/>	+6581251071	Meeting at 2pm today.	05/02/09 08: +0000
<input type="checkbox"/>	+6581251071	hi!!	05/02/09 08: +0000

Reply Forward Call Delete

Refresh

To reply an SMS:

- i. Select the SMS by clicking on any part of the particular message. Selected SMS will be highlighted in light blue.



- ii. Click **Reply**.
- iii. Click **Ok** to reply with the original contents, or **Cancel** to reply without the original content.



- iv. The Inbox console will switch over to the Compose console. Enter your reply in the text editor. When done, click **Send**.

To forward an SMS from the Inbox list:

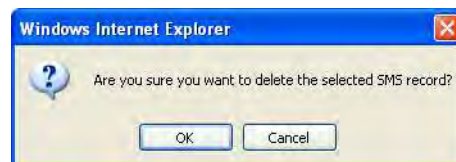
- i. Select the SMS and click **Forward**.
- ii. The Inbox console will switch over to the Compose console. Enter the receiver's number in the Phone No. box. When done, click **Send**.

To make a call to the SMS sender:

- i. Select the SMS and click **Call**.
- ii. The Inbox console will switch over to the Dialler console.
- iii. Ensure that the PSTN corded (analog) phone is connected to the SABRE™ I. Press the **Offhook** button and from the Dialler console, click **Dial**.

To delete SMS in the Inbox:

- i. For single SMS delete, select the message and click **Delete**.
- ii. Click **Ok** to confirm the delete, or **Cancel** to abort the delete.

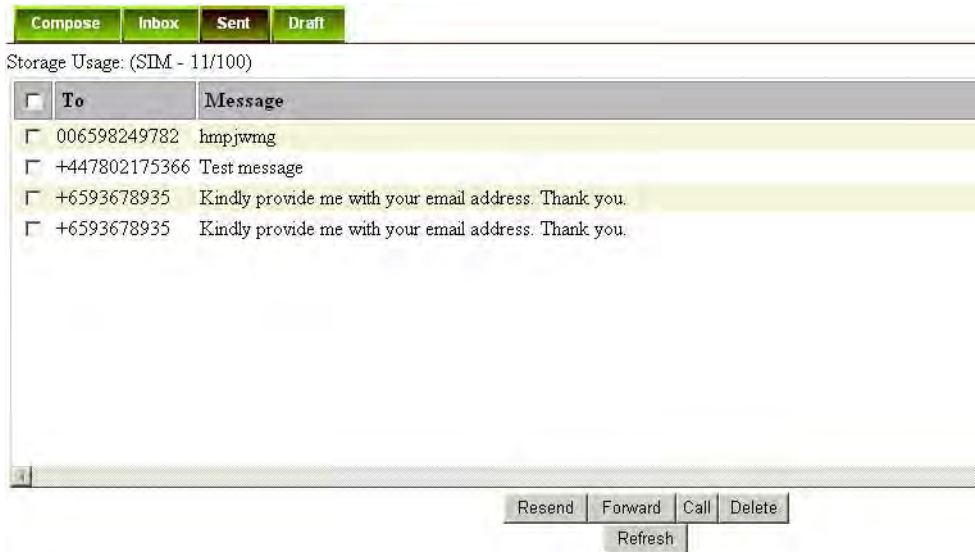


- iii. For multiple SMS delete, select the message by placing beside each SMS.
- iv. Click **Ok** to confirm the delete, or **Cancel** to abort the delete.

To refresh the Inbox list:

- i. Click **Refresh** and the Inbox list will be refreshed.

Sent - Shows details of SMS sent.



To resend a sent SMS (sending the same SMS to the same receiver):

- i. Select the SMS and click **Resend**.
- ii. The SMS will be sent to the receiver immediately.



To forward a sent SMS to another recipient:

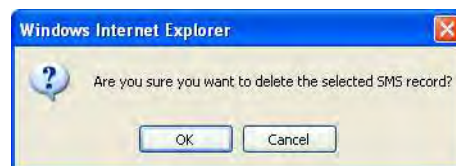
- i. Select the SMS and click **Forward**.
- ii. The Sent console will switch over to the Compose console. Enter the receiver's number in the Phone No. box. When done, click **Send**.

To make a call to the SMS receiver:

- i. Select the SMS and click **Call**.
- ii. The Sent console will switch over to the Dialler console.
- iii. Ensure that the PSTN corded (analog) phone is connected to the SABRE™ I. Press the **Offhook** button and from the Dialler console, click **Dial**.

To delete a sent SMS from the list:

- i. For single SMS delete, select the message and click **Delete**.
- ii. Click **Ok** to confirm the delete, or **Cancel** to abort the delete.

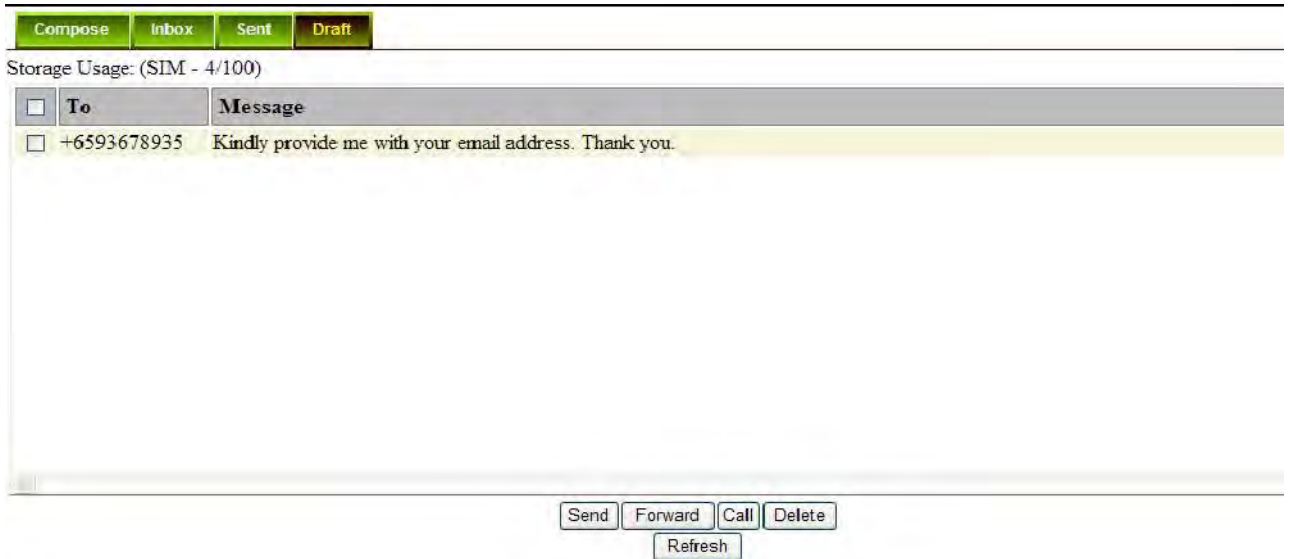


- iii. For multiple SMS delete, select the message by placing beside each SMS.
- iv. Click **Ok** to confirm the delete, or **Cancel** to abort the delete.

To refresh the Inbox list:

- i. Click **Refresh** and the Sent list will be refreshed.

Draft - Shows the SMS saved from the Compose console.



To send a draft SMS:

- i. Select the SMS and click **Send**.
- ii. The SMS will be sent to the receiver immediately.



To forward a draft SMS to another recipient:

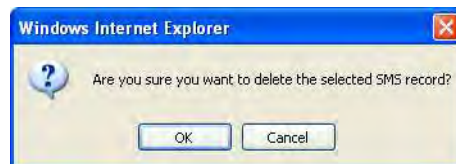
- i. Select the SMS and click **Forward**.
- ii. The Draft console will switch over to the Compose console. Enter the receiver's number in the Phone No. box. When done, click **Send**.

To make a call to the SMS receiver:

- i. Select the SMS and click **Call**.
- ii. The Draft console will switch over to the Dialler console.
- iii. Ensure that the PSTN corded (analog) phone is connected to the SABRE™ I. Press the **Offhook** button and from the Dialler console, click **Dial**.

To delete a draft SMS from the list:

- i. For single SMS delete, select the message and click **Delete**.
- ii. Click **Ok** to confirm the delete, or **Cancel** to abort the delete.



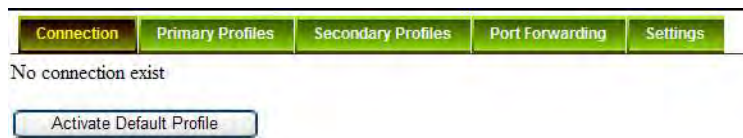
- iii. For multiple SMS delete, select the message by placing beside each SMS.
- iv. Click **Ok** to confirm the delete, or **Cancel** to abort the delete.

To refresh the Inbox list Draft list will be refreshed.

4.6.4 Click  to view and edit the entire settings required for the data connection.



Connection



To activate the default profile, click Activate Default Profile and the PDP context will be activated.



When connected, the details on the APN and IP Address will be shown and ready to use the Internet features.



To disconnect the data connection, click Disconnect and the PDP context will be deactivate.



Primary Profiles

Connection	Primary Profiles	Secondary Profiles	Port Forwarding	Settings
	<ul style="list-style-type: none">*StandardStreaming32Streaming64Profile 4Profile 5Profile 6Profile 7Profile 8Profile 9Profile 10 <input type="button" value="Refresh"/>	<input checked="" type="checkbox"/> Set as default Profile Name: <input type="text" value="Standard"/> Connection Type: <input checked="" type="radio"/> Standard <input type="radio"/> Streaming		Standard Using this connection type you will be charged for the VOLUME (kilob data used. Use this connection type for TCP/IP applications, data exchange transfer such as Email, Internet Browsing, FTP, etc.
		Access Point Name (APN): <input checked="" type="radio"/> SIM <input type="text" value="BGAN.INMARSAT.COM"/> <input type="radio"/> User Defined <input type="text"/> Username: <input type="text"/> Password: <input type="text"/>		
		IP Configuration <input checked="" type="radio"/> Dynamic IP Address <input type="radio"/> Static IP Address <input type="text"/> . <input type="text"/> . <input type="text"/> . <input type="text"/> <input checked="" type="checkbox"/> Use Header Compression		
		<input type="button" value="Update Settings"/> <input type="button" value="Cancel"/> <input type="button" value="Activate Profile"/>		

Note: The Standard profile is set as the default primary profile and the default connection type is standard (this is charged by the volume [in kilobytes] of data used).

List of Primary Profiles:

- *Standard
- Streaming32
- Streaming64
- Profile 4
- Profile 5
- Profile 6
- Profile 7
- Profile 8
- Profile 9
- Profile 10

You may select one of the profiles from the list to be the default primary profile and connection type.

You may also create a customized primary profile, choose from Profile 4 to 10.

Profile Name - You may change the profile name from the text box.

Connection Type - You may choose the connection type to be used during the connection.

Standard - Charged by the volume (in kilobytes) of data used.

Streaming - Charged by the time (per minute) used during the connection.

Access Point Name (APN)

By default, the APN from the SIM will be selected.

To change the APN:

- i. Select **User Defined** and enter the new APN in the space provided.
- ii. Enter the username and password if required.

IP Configuration

By default, the **Dynamic IP Address** is selected.

To use **Static IP Address**:

- i. Select **Static IP Address** and enter the IP Address in the space provided.
- ii. Check if require to use Header Compression.

For Streaming Connection only

*Standard
Streaming32
 Streaming64
 Profile 4
 Profile 5
 Profile 6
 Profile 7
 Profile 8
 Profile 9
 Profile 10

Set as default

Profile Name:

Connection Type:
 Standard
 Streaming

Access Point Name (APN):
 SIM
 User Defined
Username:
Password:

IP Configuration
 Dynamic IP Address
 Static IP Address
 Use Header Compression

Streaming Parameters:
Desired Rate:
Minimum Rate:
 Use error correction

Streaming
 Using this connection type you will be charged **PER MINUTE** of time used. Use this connector for UDP applications, data exchange and transfer such as Streaming Audio and Video application ONLY.

DO NOT LEAVE STREAMING IP CONNECTED WHEN NOT BEING USED!

Streaming Parameters

- i. Select the **Desired Rate: 32k** or **64k**
- ii. Select the **Minimum Rate: 32k** or **64k**
- iii. Check if require to use Error Correction.

When all updates on the profile settings are done, click **Update Settings**. To activate the selected profile, click **Activate Profile**.

Secondary Profiles

Connection
Primary Profiles
Secondary Profiles
Port Forwarding
Settings

FTP
 Quick Link
 Quick Time Mec
 Real Media
 Streambox
 Win Media
 Profile 7
 Profile 8
 Profile 9
 Profile 10

Profile Name:

Streaming Parameters:
Desired Rate:
Minimum Rate:
 Use error correction

Destination Port Ranges:

From	To	Protocol	
20	21	TCP	Delete
<input type="text"/>	<input type="text"/>	TCP <input type="button" value="v"/>	<input type="button" value="Add"/> <input type="button" value="Delete All"/>

[Add from Templates](#)

Secondary Profiles setting is used mainly for Streaming connection.

List of Secondary Profiles:

FTP
 Quick Link
 Quick Time Mec
 Real Media
 Streambox
 Win Media
 Profile 7
 Profile 8
 Profile 9
 Profile 10

You may select one of the secondary profiles to be used during streaming connection.

You may also create a customized secondary profile, choose from Profile 7 to 10.

Profile Name - You may change the profile name from the text box.

Streaming Parameters

- i. Select the **Desired Rate: 32k** or **64k**
 - ii. Select the **Minimum Rate: 32k** or **64k**
- Check if require to use Error Correction.

Destination Port Ranges

The default destination port ranges and protocol type for each profile are listed.

To add a new destination port range:

- i. Enter the port range in the space provided and choose the protocol type **TCP** or **UDP**.
(To determine the port number for the type of service you wish to use, you may search them from the Internet. An example of port numbers: for Real Audio and Video streaming, you may use Port 554, 7070 and 7071 for protocol type TCP or Port 6770 to 7070 for protocol type UDP.)

Or

- ii. Click **Add from Templates** to select the port ranges from other profiles.

When all updates on the profile settings are done, click **Update Settings**. To activate the selected profile, click **Activate Profile**.

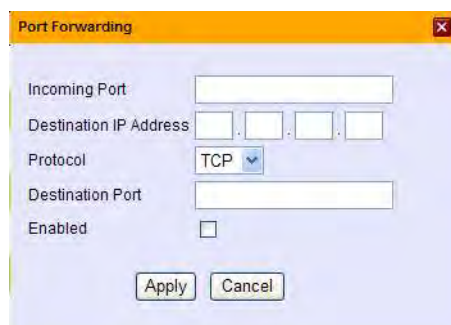
Port Forwarding

Connection	Primary Profiles	Secondary Profiles	Port Forwarding	Settings	
Incoming Port	Protocol	Destination IP Address	Destination Port	Enabled	
0	-	0.0.0.0	0	<input type="checkbox"/>	Add
0	-	0.0.0.0	0	<input checked="" type="checkbox"/>	Add
0	-	0.0.0.0	0	<input type="checkbox"/>	Add
0	-	0.0.0.0	0	<input checked="" type="checkbox"/>	Add
0	-	0.0.0.0	0	<input type="checkbox"/>	Add
0	-	0.0.0.0	0	<input checked="" type="checkbox"/>	Add
0	-	0.0.0.0	0	<input type="checkbox"/>	Add
0	-	0.0.0.0	0	<input checked="" type="checkbox"/>	Add
0	-	0.0.0.0	0	<input type="checkbox"/>	Add
0	-	0.0.0.0	0	<input checked="" type="checkbox"/>	Add

This feature is for Router mode (multiple-user) when it is required for the SABRE™ I Terminal to direct incoming traffic on certain TCP/UDP port to a specific port on a local PC (IP Address).

To add a new forwarding rule:

- i. Click **Add**.
- ii. From the following setup display,



- Enter the **Incoming Port** number in the space provided (for example: user expecting HTTP, the port is 80).
- Enter the **Destination IP Address** (for example the PC that is connected to the SABRE™ I Terminal).
- Select the **Protocol** type: **TCP** or **UDP** (for HTTP, it will be TCP).
- Enter the **Destination Port** number in the space provided (For example: listening port of the particular service (for example TCP port 80 for web server) on the PC that is connected to the SABRE™ I Terminal).

When the setup is done, click **Apply**.

Settings



Ethernet mode

Select the mode to be used during the data connection

Check if Auto PDP Context Activation is required.

When done, click **Update**. To query the current mode, click **Refresh**.



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Моб: +7 965 4429948
Skype: Discoverytelecom
Mail: info@discoverytelecom.ru
www.discoverytelecom.ru

4.6.5 Click  to view and edit the entire settings required for the data connection.



Manufacture ID:	Addvalue
Software version:	R012.0.0
Model ID:	SABRE 1.2
IMEI number:	353353010019137
IMSI number:	901112112170100
Subscriber number:	Not available

Terminal Info



Manufacture ID:	Addvalue
Software version:	R012.0.0
Model ID:	SABRE 1.2
IMEI number:	353353010019137
IMSI number:	901112112170100
Subscriber number:	Not available

Shows the Manufacture ID, Software version, Model ID, IMEI number, IMSI number (only when a SIM card is inserted) and Subscriber number.

Terminal



PowerOn: Auto Manual

Select either **Auto** or **Manual** PowerOn.

If you chose **Auto** PowerOn, the SABRE™ I will automatically powers up when power is supplied via the AC/DC power adaptor.

If you chose **Manual** PowerOn, you need to press the On/Off button on the SABRE™ I when power is supplied via the AC/DC power adaptor in order to power on.

Ethernet

Terminal Info	Terminal	Ethernet	Bluetooth	Telephony	PIN	SMS	Audio	Network	ATCmd	Misc	Support	About
		Ethernet										
		DHCP										
		Ethernet Interface:	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled									
		Ethernet mode:	<input type="radio"/> Bridge Mode <input checked="" type="radio"/> Router Mode									
		Terminal IP Address:	192 . 168 . 1 . 35									
		Terminal Subnet Mask:	255 . 255 . 255 . 0									
		<input type="button" value="Update"/>										

Click **Ethernet** to view and edit the Ethernet settings.
When done, click **Update**.

Click **DHCP** to view and edit the DHCP settings.

Terminal Info	Terminal	Ethernet	Bluetooth	Telephony	PIN	SMS	Audio	Network	ATCmd	Misc	Support	About
		Ethernet										
		DHCP										
		DHCP:	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled									
		Primary DNS:	172 . 30 . 66 . 7									
		Secondary DNS:	172 . 30 . 34 . 7									
		DHCP IP Pool Start:	192 . 168 . 1 . 30									
		DHCP IP Pool End:	192 . 168 . 1 . 50									
		IP Lease Time:	60 <input type="text"/> second(s)									
		<input type="button" value="Update"/>										

When done, click **Update**.

Telephony

Terminal Info | Terminal | Ethernet | Bluetooth | **Telephony** | PIN | SMS | Audio | Network | ATCmd | Misc | Support | About

Telephone Interface: Enabled Disabled

Telephone Interface Configurations: European Caller Line ID Phone connected

Update

Select either **Enable** or **Disable** for the Telephone Interface.

Choose **European** or **US caller line ID Phone connected** from the Telephone Interface Configuration pull-down menu.

When done, click **Update**.

PIN

Terminal Info | Terminal | Ethernet | Bluetooth | Telephony | **PIN** | SMS | Audio | Network | ATCmd | Misc | Support | About

Terminal PIN

SIM PIN

SIM PIN2

SIM Lock

Service Provider PIN

Corporate PIN

Terminal PIN

Enabled Disabled

Enter PIN:

Update PIN

Click **Terminal PIN** to configure the Terminal PIN settings.

Select either **Enable** or **Disable**.

If you choose to enable the Terminal PIN, enter the PIN number in the space provided and click **Update PIN**.

Click **SIM PIN** to configure the SIM PIN settings.

Select either **Enable** or **Disable**.

If you choose to enable the SIM PIN, enter the PIN number in the space provided and click **Update PIN**.

Terminal Info | Terminal | Ethernet | Bluetooth | Telephony | **PIN** | SMS | Audio | Network | ATCmd | Misc | Support | About

Terminal PIN

SIM PIN

SIM PIN2

SIM Lock

Service Provider PIN

Corporate PIN

SIM PIN

Enabled Disabled

Enter PIN:

Update PIN

Click **SIM PIN2** to configure the SIM PIN2 settings.

Select either **Enable** or **Disable**.

If you choose to enable the SIM PIN2, enter the PIN number in the space provided and click **Update PIN**.

To change the PIN Password:

- i. Enter the Old PIN number in the space provided.
- ii. Enter the New PIN number in the space provided.
- iii. Re-enter the New PIN number in the space provided.
- iv. Click **Change PIN Password**.

Terminal Info	Terminal	Ethernet	Bluetooth	Telephony	PIN	SMS	Audio	Network	ATCmd	Misc	Support	About
---------------	----------	----------	-----------	-----------	------------	-----	-------	---------	-------	------	---------	-------

Terminal PIN	SIM PIN2
SIM PIN	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled
SIM PIN2	Enter PIN: <input type="text"/>
SIM Lock	<input type="button" value="Update PIN"/>
Service Provider PIN	Change PIN Password:
Corporate PIN	Enter Old PIN: <input type="text"/>
	Enter New PIN: <input type="text"/>
	Re-enter New PIN: <input type="text"/>
	<input type="button" value="Change PIN Password"/>

Click **SIM Lock** to configure the SIM Lock settings.
 Select either **Enable** or **Disable**.
 If you choose to enable the SIM Lock, enter the PIN number in the space provided and click **Update PIN**.

Terminal Info	Terminal	Ethernet	Bluetooth	Telephony	PIN	SMS	Audio	Network	ATCmd	Misc	Support	About
---------------	----------	----------	-----------	-----------	------------	-----	-------	---------	-------	------	---------	-------

Terminal PIN	SIM Lock
SIM PIN	<input type="radio"/> Enabled <input checked="" type="radio"/> Disabled
SIM PIN2	Enter PIN: <input type="text"/>
SIM Lock	<input type="button" value="Update PIN"/>
Service Provider PIN	
Corporate PIN	

Click **Service Provider PIN** to configure the Service Provider PIN settings.
 Select either **Enable** or **Disable**.
 If you choose to enable the Service Provider PIN, enter the PIN number in the space provided and click **Update PIN**.

Terminal Info	Terminal	Ethernet	Bluetooth	Telephony	PIN	SMS	Audio	Network	ATCmd	Misc	Support	About
---------------	----------	----------	-----------	-----------	------------	-----	-------	---------	-------	------	---------	-------

Terminal PIN	Service Provider PIN
SIM PIN	<input type="radio"/> Enabled <input checked="" type="radio"/> Disabled
SIM PIN2	Enter PIN: <input type="text"/>
SIM Lock	<input type="button" value="Update PIN"/>
Service Provider PIN	
Corporate PIN	

Click **Corporate PIN** to configure the Corporate PIN settings.
 Select either **Enable** or **Disable**.
 If you choose to enable the Corporate PIN, enter the PIN number in the space provided and click **Update PIN**.

Terminal Info	Terminal	Ethernet	Bluetooth	Telephony	PIN	SMS	Audio	Network	ATCmd	Misc	Support	About
---------------	----------	----------	-----------	-----------	------------	-----	-------	---------	-------	------	---------	-------

Terminal PIN	Corporate PIN
SIM PIN	<input type="radio"/> Enabled <input checked="" type="radio"/> Disabled
SIM PIN2	Enter PIN: <input type="text"/>
SIM Lock	<input type="button" value="Update PIN"/>
Service Provider PIN	
Corporate PIN	

SMS

Terminal Info	Terminal	Ethernet	Bluetooth	Telephony	PIN	SMS	Audio	Network	ATCmd	Misc	Support	About
---------------	----------	----------	-----------	-----------	-----	-----	-------	---------	-------	------	---------	-------

Service Center Address:

If required to change the SMS service Centre Address number, enter the new number in the space provided and click **Update**.

Audio

Terminal Info	Terminal	Ethernet	Bluetooth	Telephony	PIN	SMS	Audio	Network	ATCmd	Misc	Support	About
---------------	----------	----------	-----------	-----------	-----	-----	-------	---------	-------	------	---------	-------

Sound configuration: Enabled Disabled

Select to either enable or disable the Sound configuration. When done, click **Update**.

Network

Terminal Info	Terminal	Ethernet	Bluetooth	Telephony	PIN	SMS	Audio	Network	ATCmd	Misc	Support	About
---------------	----------	----------	-----------	-----------	-----	-----	-------	---------	-------	------	---------	-------

Network registration upon power on: Auto Manual

Select either **Auto** or **Manual** network registration upon power on.

If you chose **Auto**, the SABRE™ I will automatically registers to the network when power on.

If you chose **Manual**, you need to click the icon in the  page to register to the network.

ATCmd

Terminal Info	Terminal	Ethernet	Bluetooth	Telephony	PIN	SMS	Audio	Network	ATCmd	Misc	Support	About
---------------	----------	----------	-----------	-----------	-----	-----	-------	---------	-------	------	---------	-------

Type in the AT Commands in the text editor, when done click **Send**. To remove the commands from the text editor, click **Clear**.

Misc

The screenshot shows a navigation bar with tabs: Terminal Info, Terminal, Ethernet, Bluetooth, Telephony, PIN, SMS, Audio, Network, ATCmd, Misc (selected), Support, and About. Below the navigation bar, there are two blue buttons: 'Reboot Terminal' and 'Factory Reset'. To the right of these buttons, the text reads 'Click on the button to reboot the BGAN Terminal:' followed by a 'Reboot' button.

Click **Reboot** to reboot the SABRE™ I Terminal.

The screenshot shows the same navigation bar as above. Below it, there are two blue buttons: 'Reboot Terminal' and 'Factory Reset'. To the right, there is a text input field labeled 'Security code:' and a 'Factory Reset' button.

To perform a Factory Reset, enter the Security code '0000' and click **Factory Reset**. The SABRE™ I Terminal settings will be reset to the default settings.

Support

The screenshot shows a navigation bar with tabs: Terminal Info, Terminal, Ethernet, Bluetooth, Telephony, PIN, SMS, Audio, Network, ATCmd, Misc, Support (selected), and About. Below the navigation bar, there is a table with support information.

Inmarsat Distribution Parnter Name:	Stratos
Phone Number For Support:	+17097484226
Support E-Mail Address:	support@stratosglobal.com
Support URL:	http://www.stratosglobal.com
Services URL:	http://MMI.BGAN.XANTIC.NET/ST

Shows the support telephone number, support email address, support URL and Services URL. (The details shown are for example purposes only)

About

The screenshot shows a navigation bar with tabs: Terminal Info, Terminal, Ethernet, Bluetooth, Telephony, PIN, SMS, Audio, Network, ATCmd, Misc, Support, and About (selected). Below the navigation bar, the 'wideye' logo is displayed with a trademark symbol. Underneath the logo, the text reads 'liberating communications' and the website address <http://www.wideye.com.sg>. At the bottom right, the copyright notice reads 'Copyright © 2009 Addvalue Technologies Ltd. All right reserved.'

Shows the wideye web address and copyrights details.

Note: Bluetooth is no longer available.

4.7 Remote SMS IP Activation and De-Activation for SABRE™ I Remote

Note:

This section is only applicable for SABRE™ I Remote.

Remote SMS Activation of IP Connection

To use Remote SMS Activation of IP Connection, use the CONNECT command with the following syntax:
SABRE1,CONNECT,<APN>,<Username>,<Password>

For example:

SABRE1,CONNECT, "bgan.inmarsat.com", "SNGT125", "bedru8huty"

Note:

If there is no username and password, then the syntax will be:

SABRE1,CONNECT, "bgan.inmarsat.com", "", ""

Remote SMS De-activation of IP Connection

To use Remote SMS De-activation of IP Connection, use the DISCONNECT command with the following syntax:

SABRE1,DISCONNECT

Note:

SMS activation/deactivation commands are case sensitive.

4.7.1 Installation

When using the SABRE™ I Remote in remote unmanned SCADA applications, ensure the primary battery is removed from the terminal. With the primary battery still powering the terminal, it may prevent controlling devices to power recycle the terminal.

When installing the SABRE™ I Remote at an outdoor environment, you are advised to use Addvalue's SABRE™ Shield weather proof box.



4.7.2 Response to Higher Temperature

The table below lists the temperature range and definitions for SABRE™ I Remote.

Temperature (T)	Temperature Range Definition
0°C - T < 70°C	Normal █
70°C - T < 80°C	Hot █
80°C - T < 85°C	Hotter █
85°C - T < 90°C	Hottest █
90°C - T	Extremely Hot █

The table below shows the response of SABRE™ I Remote to higher temperature as compared to SABRE™ I.

From	To	Action
Normal █	Hot █	Display warning message.
Hot █	Hotter █	Block new call (excluding existing calls) and reduces the PS speed.
	Normal █	No action needed.
Hotter █	Hottest █	SABRE™ I: Block new call; end existing calls if any and terminates PS. SABRE™ I Remote: Continue to block all calls and reduces the PS speed.
	Hot █	Continue to display warning message.
Hottest █	Extremely Hot █	SABRE™ I: Imminent Shutdown. SABRE™ I Remote: Continue to block all calls and reduces the PS speed.
	Hotter █	Continue to display warning message. Block new call (excluding existing calls) and reduces the PS speed.

4.7.3 Technical Specifications

The SABRE™ I Remote has the same technical specifications as the SABRE™ I except for the following:

Environmental

- Operating temperature: -40°C to +70°C

- IP code: IP66 with SABRE™ Shield

Appendix 1 Technical Specifications

Air Interface	
Inmarsat-4 Air Interface	
Frequency Band	Receive: 1525MHz - 1559MHz Transmit: 1626.5MHz - 1660.5MHz
Channel Modulation	Receive: QPSK and 16QAM Transmit: π/4 QPSK
Antenna	Built-in Patch Antenna, 8.5dBic
GPS Air Interface	
Integrated GPS receiver & antenna	
Maximum Bearer Data Rate	
Receive: Up to 384 kbps Transmit: Up to 240 kbps	
Streaming IP	
32/64 kbps	

Hardware Interface	
Ethernet/LAN	1 x RJ45 Ethernet port Standard: IEEE 802.3 10Base-T Data Rate: 10Mbps Transmission Mode: Full/Half Duplex Maximum Cable Length: Up to 100 meters or 328 feet
Phone	1 x RJ11 PSTN port Standard: Complex Impedance-ETSI EG201 188

User Interface

Inmarsat LaunchPad

The Inmarsat LaunchPad SABRE™ I software driver and related software are contained in the product CD included with the SABRE™ I. This software allows SABRE™ I to be accessed via a PC or laptop.

Functions supported by LaunchPad are as follows:

- System Setup: Assists the user in accurately pointing the terminal at the Inmarsat-4 satellite for maximum signal strength.
- Data streaming at selected rates.
- Telephony
- Security settings
- Data logging
- SMS
- GPS
- Network Services
- Usage tracking

LCD display on SABRE™ I

The built-in Man Machine Interface (MMI) is designed with 4 navigation buttons and an LCD to facilitate its operation

Functions supported by the SABRE™ I MMI (or now known as LCD) are as follows:

- Assists the user in accurately pointing the terminal at the Inmarsat-4 satellite for maximum signal strength
- If a GPS fix cannot be obtained, it allows the user to use the last-stored GPS fix.
- Dial contacts that are available on the SABRE™ I phonebook and SIM phonebook, and to view the call history
- Make an emergency call
- Define PIN lock
- Configure the Ethernet interface of SABRE™ I to operate in IP Mode, which allows the user to connect to the Internet without using the computer to perform authentication
- Configure the built-in DHCP server
- Configure CallerID standard
- Call feature configuration
- Terminal configuration
- Display configuration for the built in LCD display
- Tone Configuration for the SABRE™ I Terminal
- Language selection for the SABRE™ I Terminal.



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Operating System Support	
Serial/Ethernet Device Driver	Microsoft Windows 2000, XP, Vista, 7 Mac OS 10.1 & above
Inmarsat LaunchPad	Microsoft Windows 2000, XP, Vista, 7 Mac OS 10.1 & above

Application Support	
VPN Client	Based on PPTP, L2TP and IPSec
VoIP	H.323 and SIP
FoIP	T.37 and T.38
MPEG Streaming	H.263 and H.264
Email	POP3, SMTP, IMAP
Messaging	Yahoo Messenger MSN Messenger
Conferencing	Microsoft Netmeeting
Web Browsing	HTTP and HTTPS

Battery	
Type	Lithium ion
Transmit Time	1 hour continuous transmit at data rate <= 72Kbps
Receive Time	3 hours continuous receive (without transmit)
Standby Time	Up to 12 hours

Envoirmental - SABRE™ I:	
Operating Temperature (Ambient)	-20°C to +60°C, -4°F to +140°F
Charging Temperature (Ambient)	0°C to +45°C, +32°F to +113°F
Storage Temperature (Ambient)	
Terminal Battery	-40°C to +80°C, -40°F to +176°F -20°C to +45°C, -4°F to +113°F
Operating Humidity	95% non-condensing at +40°C or +104°F
Storage Humidity	5% RH to 95%RH
Water & Dust	IP54

Appendix 2 The BGAN Systems





Inmarsat's Broadband Global Area Network (BGAN) is the world's first mobile communications service of any kind to provide both voice and broadband data simultaneously through a single, truly portable device on a global basis.

It is also the first mobile communication service to offer guaranteed data rates on demand.

Delivered via the world's most sophisticated commercial communication satellites, BGAN provides affordable, mobile broadband services at speeds up to half a megabit in a highly portable, easy to use form.

Delivering the global broadband mobile office

BGAN extends the boundaries of the broadband mobile office that 3G services are beginning to deliver.

	Data	With the Standard IP service you can access your corporate network via a secure VPN connection at speeds up to 492 kbps, to use e-mail and other office applications, browse the Internet and send large file attachments.
	Streaming IP	For applications where quality of service is paramount, such as live video or video-conferencing, BGAN offers a Streaming IP service up to 256 kbps on demand. You have the flexibility to choose the data rate on a case-by-case basis, depending on your application.
	Phone	With BGAN, you can make a phone call at the same time as accessing your data applications. You can use a standard desktop phone or custom handset. Voicemail and other standard 3G mobile supplementary services are also available.
	Text	BGAN enables you to send and receive text messages via your laptop – up to the standard 160 characters – to or from any mobile phone.

BGAN Coverage

BGAN delivers seamless network coverage across most of the world's land mass. It enables you to get broadband connectivity wherever you go – not just in major cities or at the airport. The BGAN service is accessible throughout Europe, Africa, the Middle East, Asia, North, South and Central America.



This 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. BGAN coverage February 2009.

Appendix 3 SABRE™ I LCD Menu Tree Flow Chart

The SABRE™ I LCD Menu Tree Flow Chart shows the user the various displays, features and options that the built in user Interface of the SABRE™ I offers.

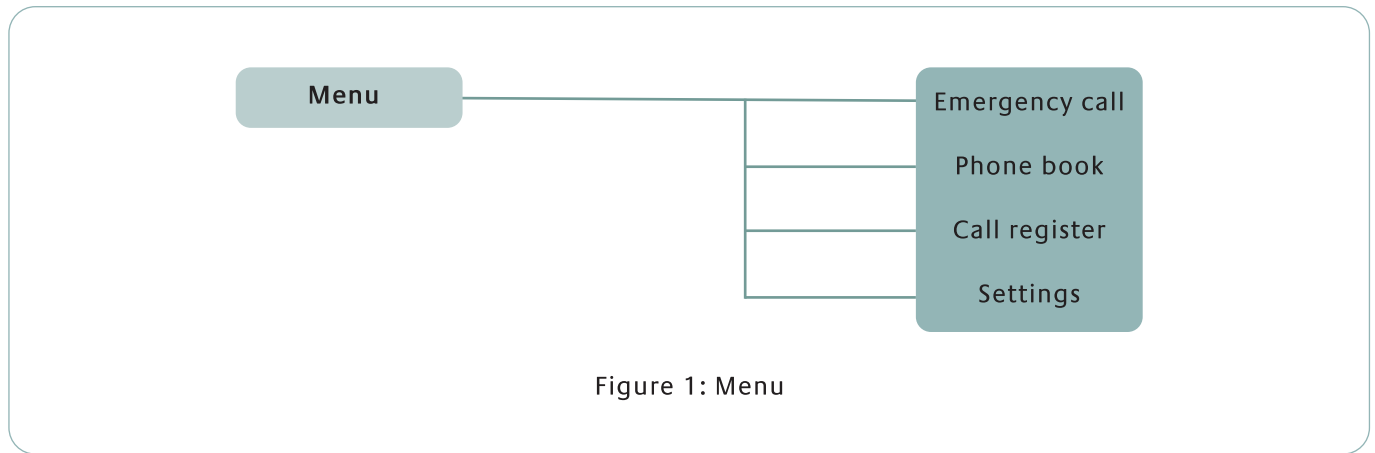


Figure 1: Menu

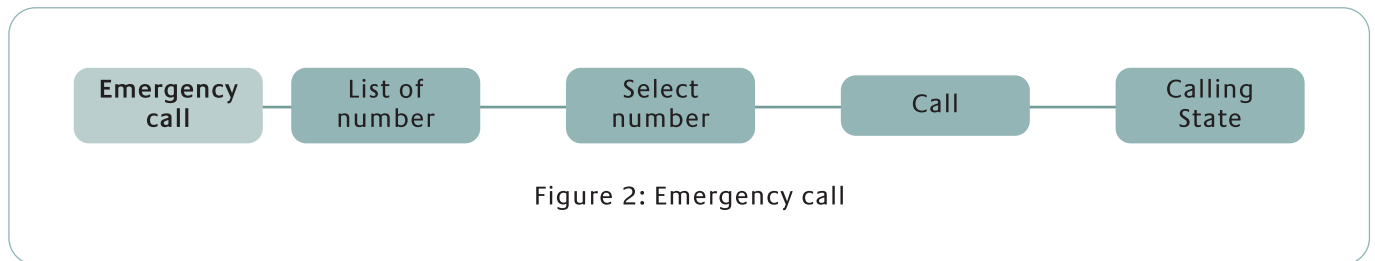


Figure 2: Emergency call

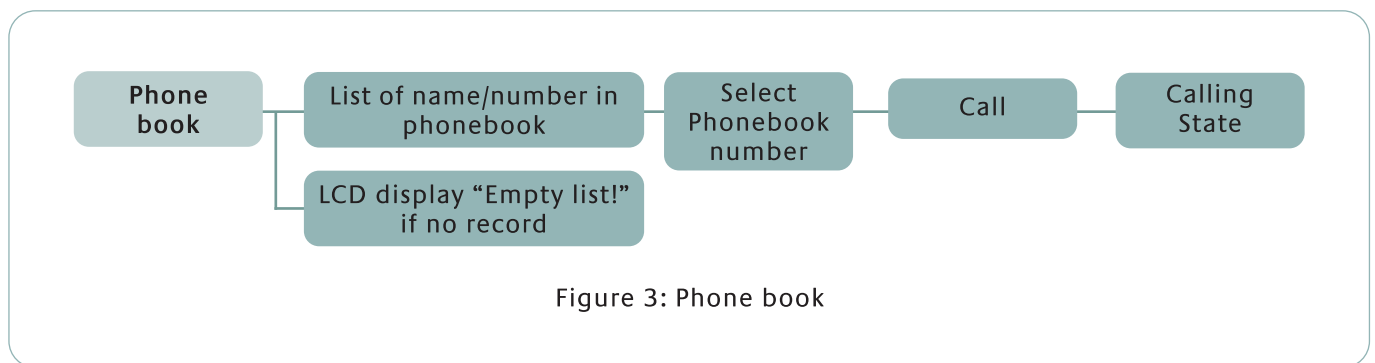


Figure 3: Phone book

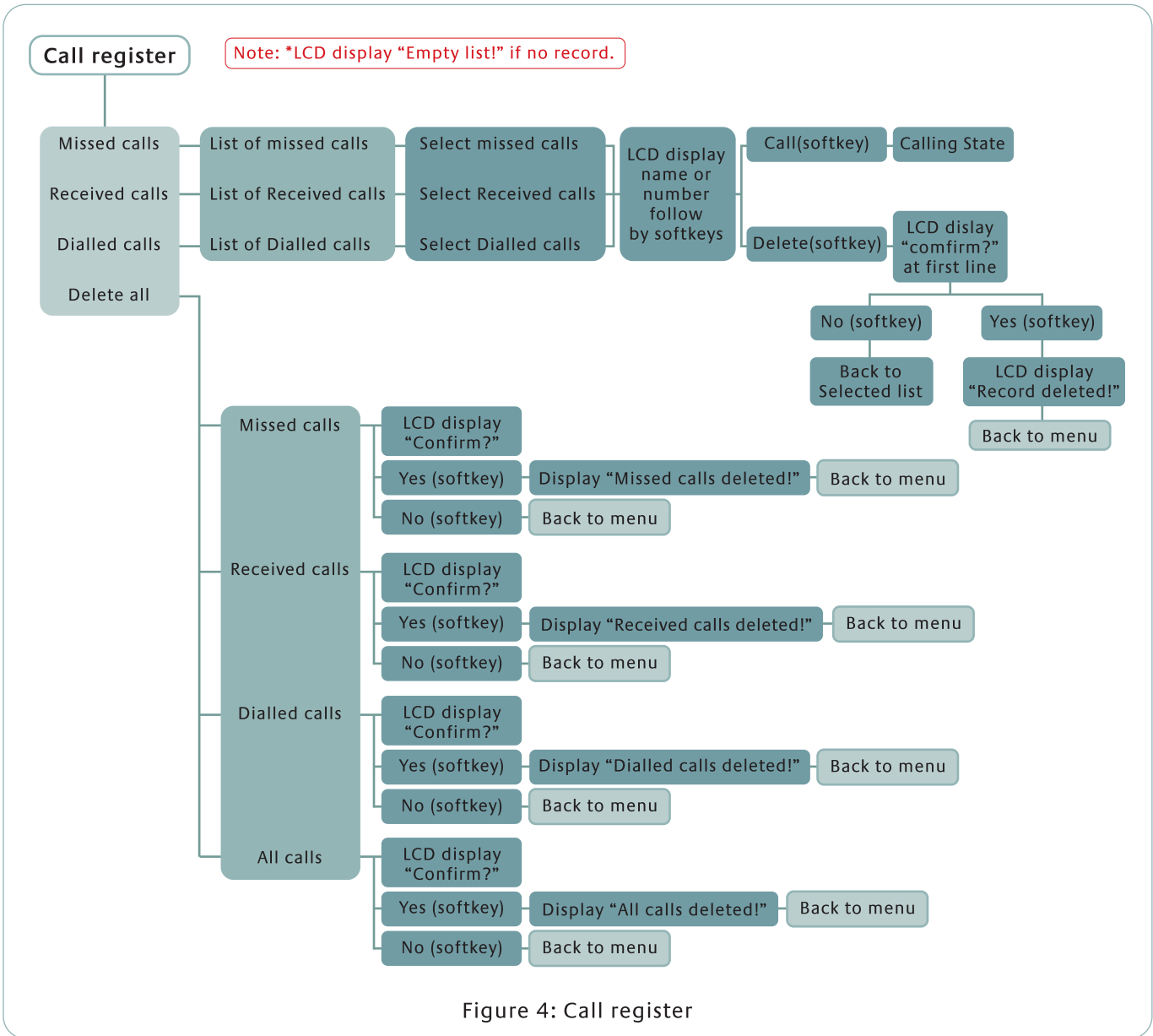


Figure 4: Call register

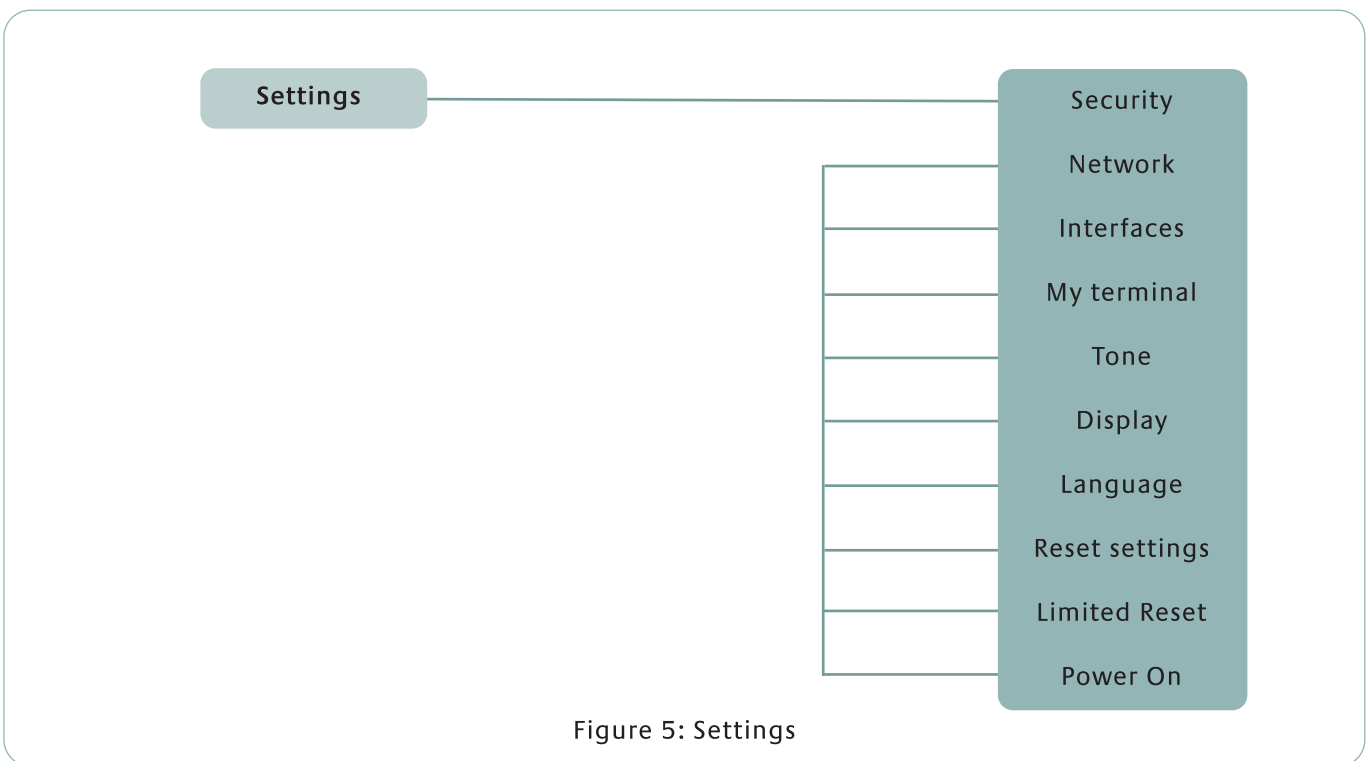


Figure 5: Settings

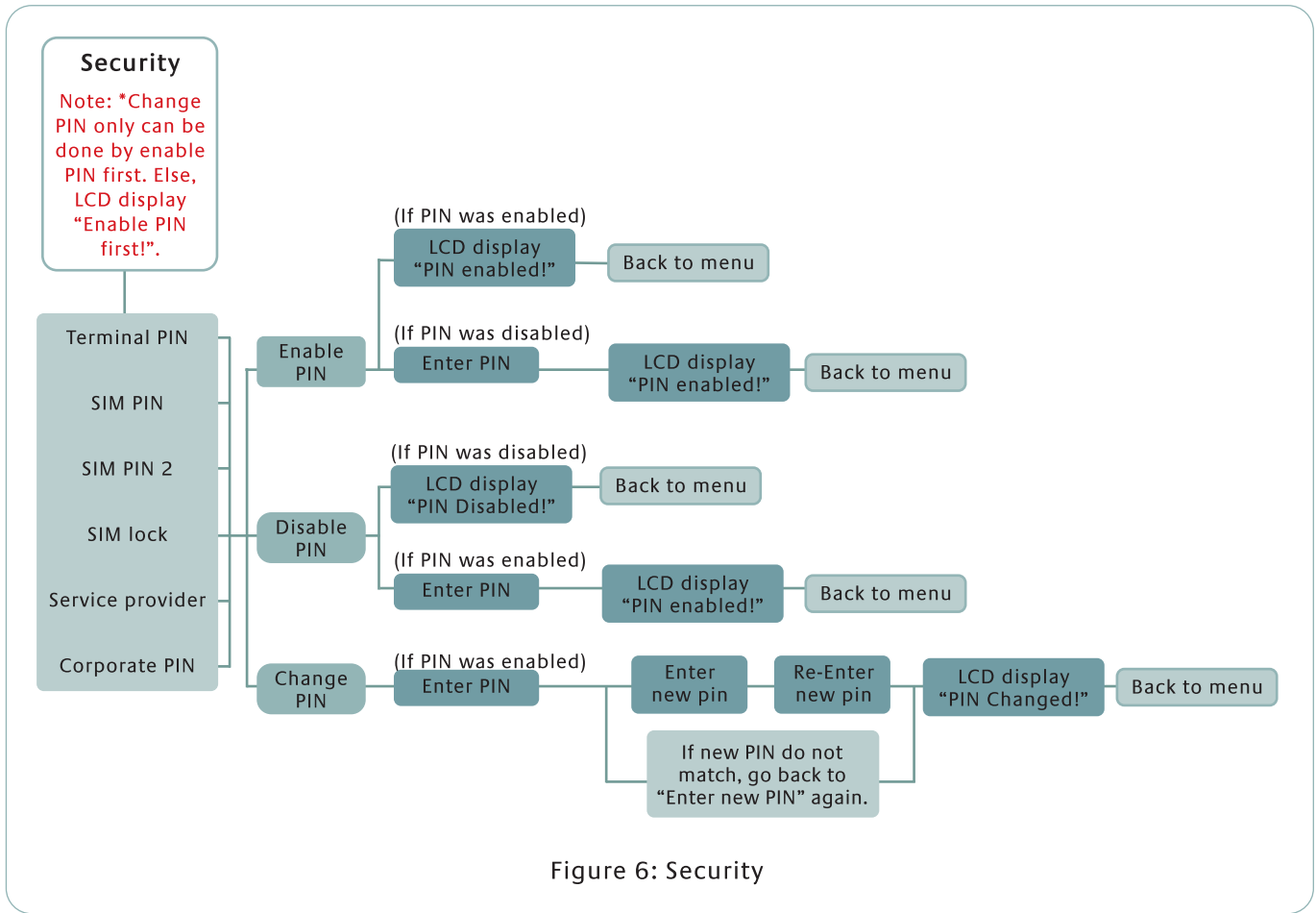


Figure 6: Security

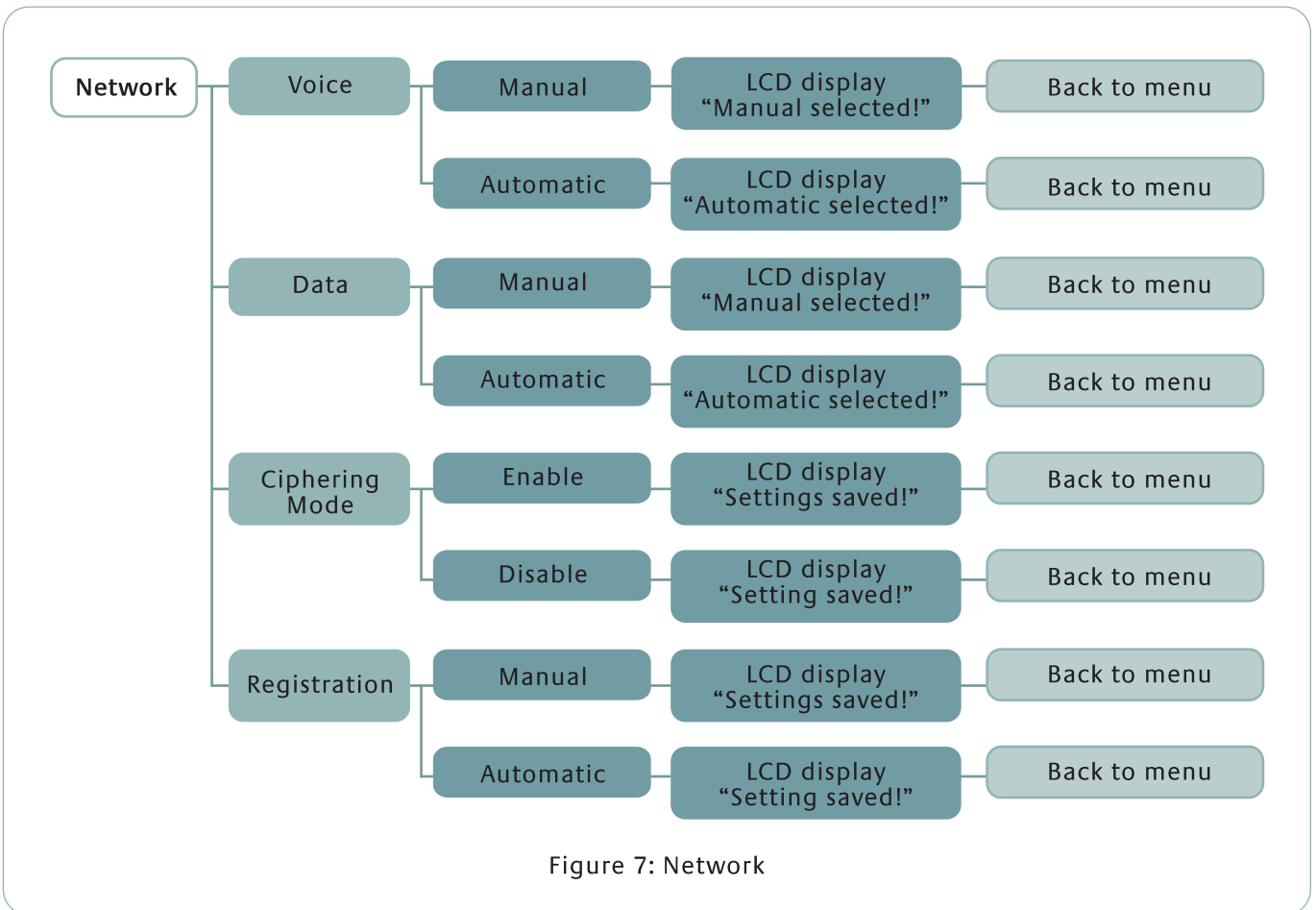
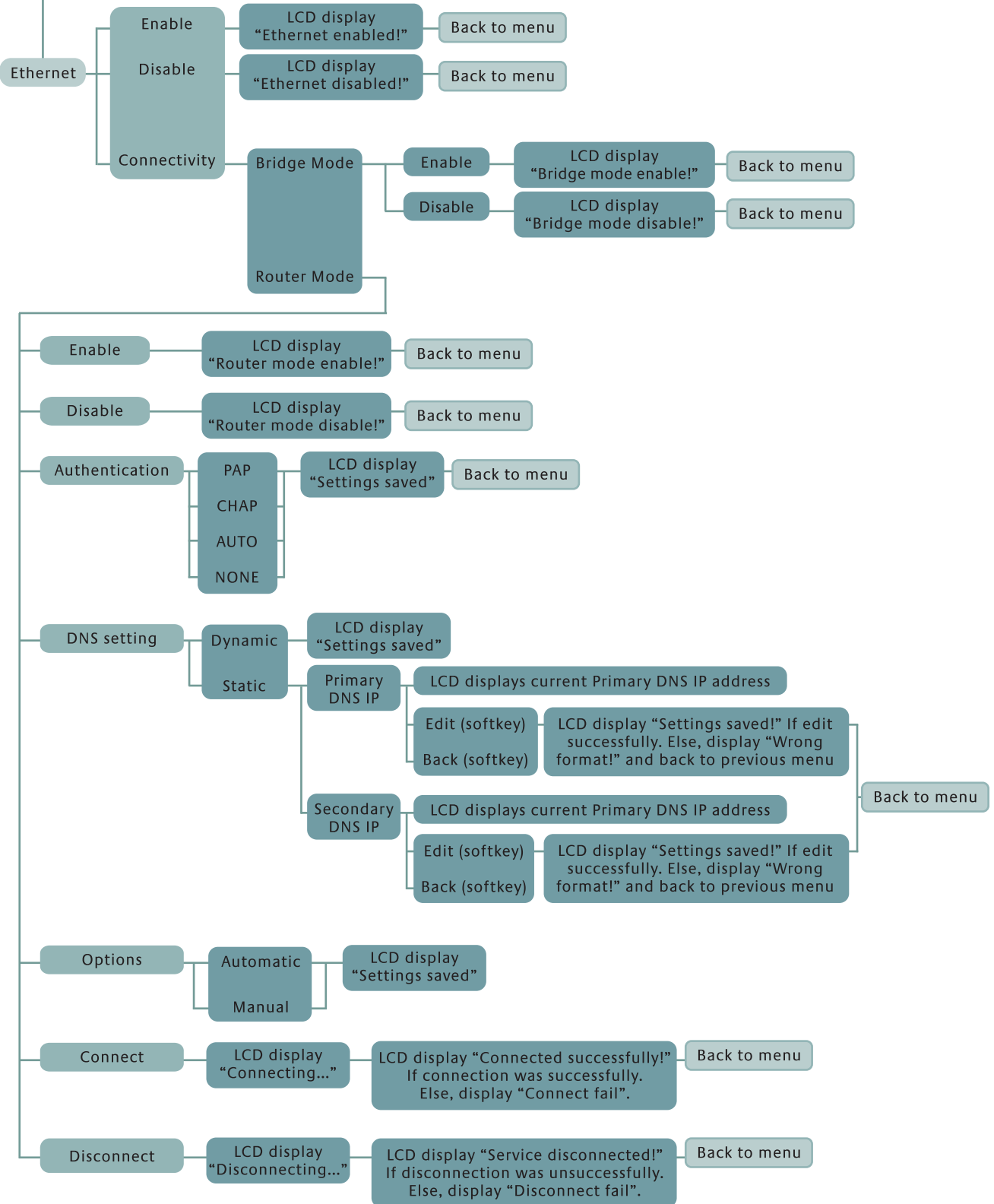


Figure 7: Network

Interface

Note: Any configuration only can be done by enable ethernet first. LCD display "Enable Ethernet first!". To configure settings in router connection, must set the connectivity to "router connection". Else, LCD display "Enable router connection first!".



Interface

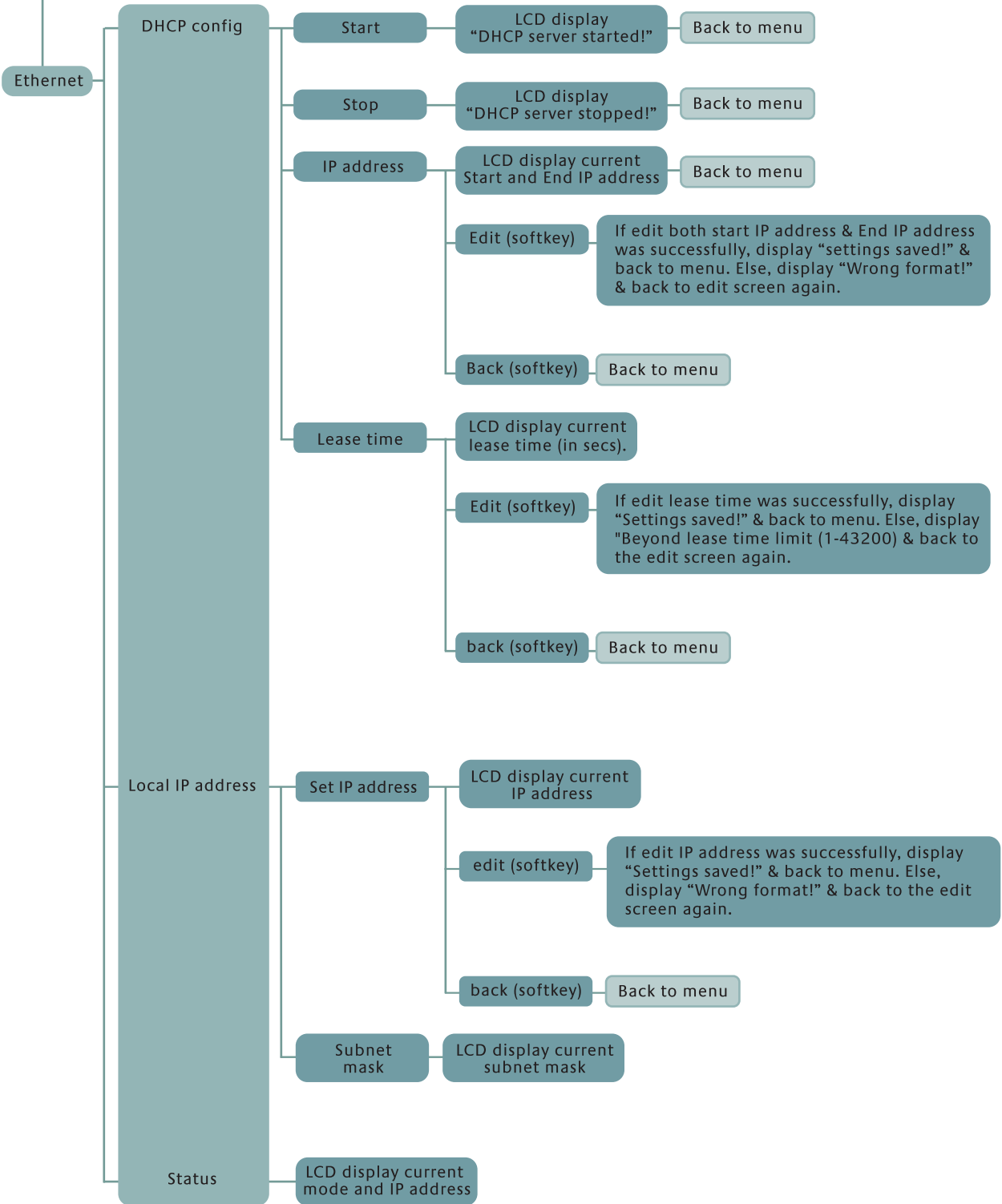


Figure 8: Interfaces-Ethernet

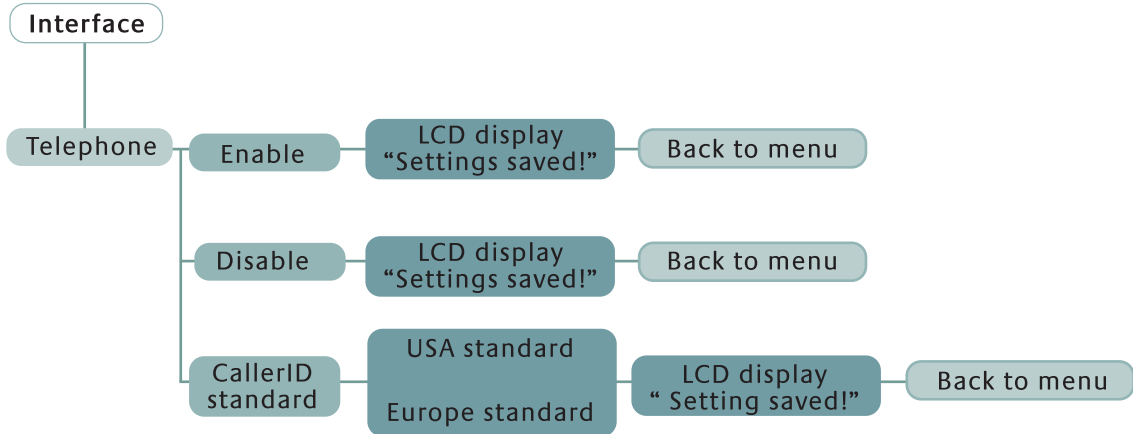


Figure 9: Interfaces-Telephony

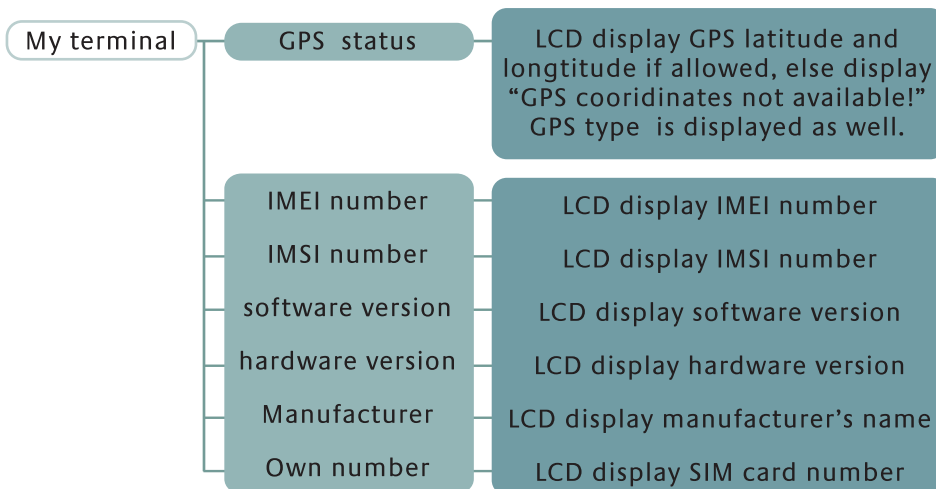


Figure 10: My Terminal

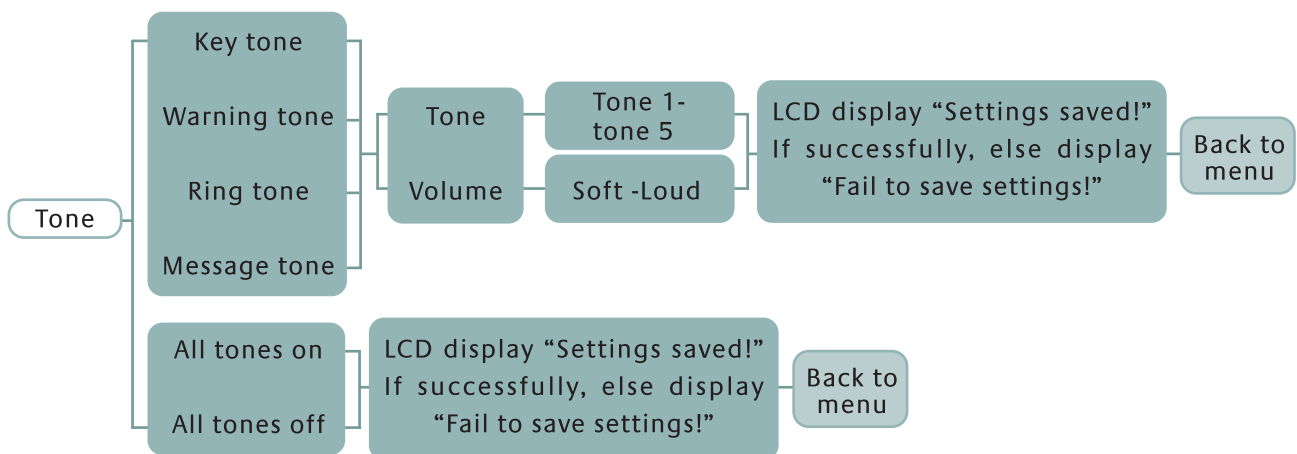


Figure 11: Tone

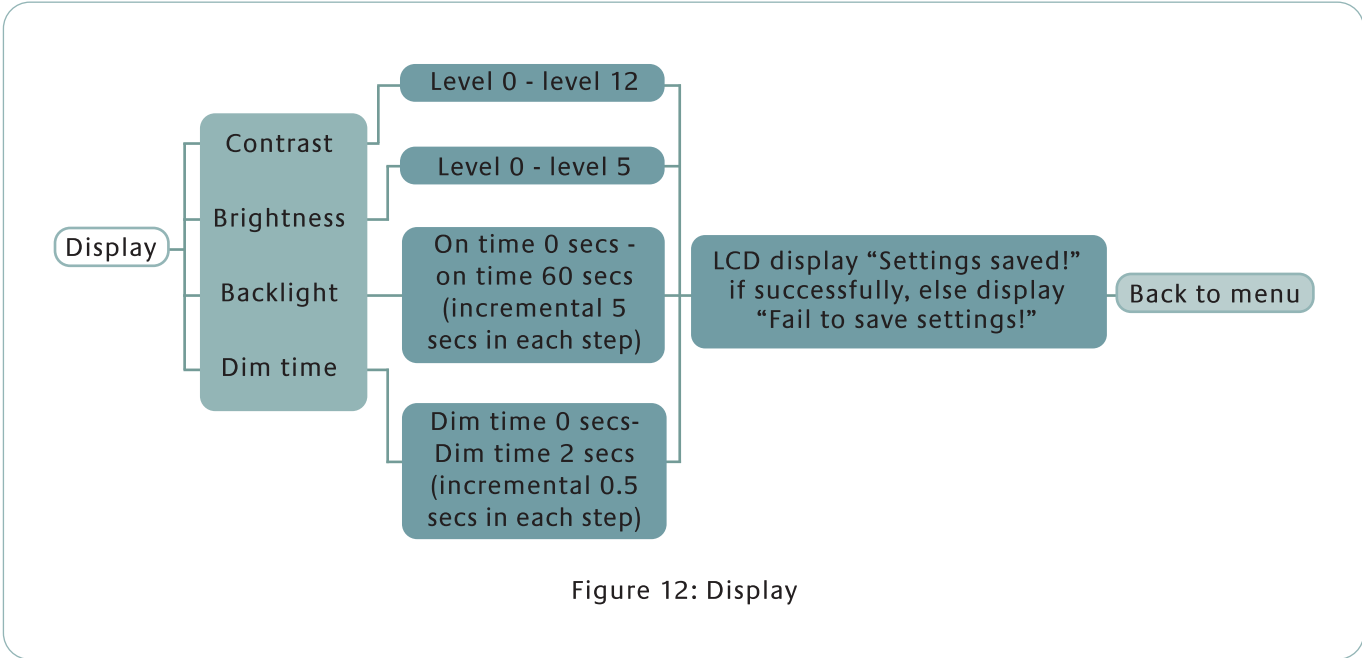


Figure 12: Display

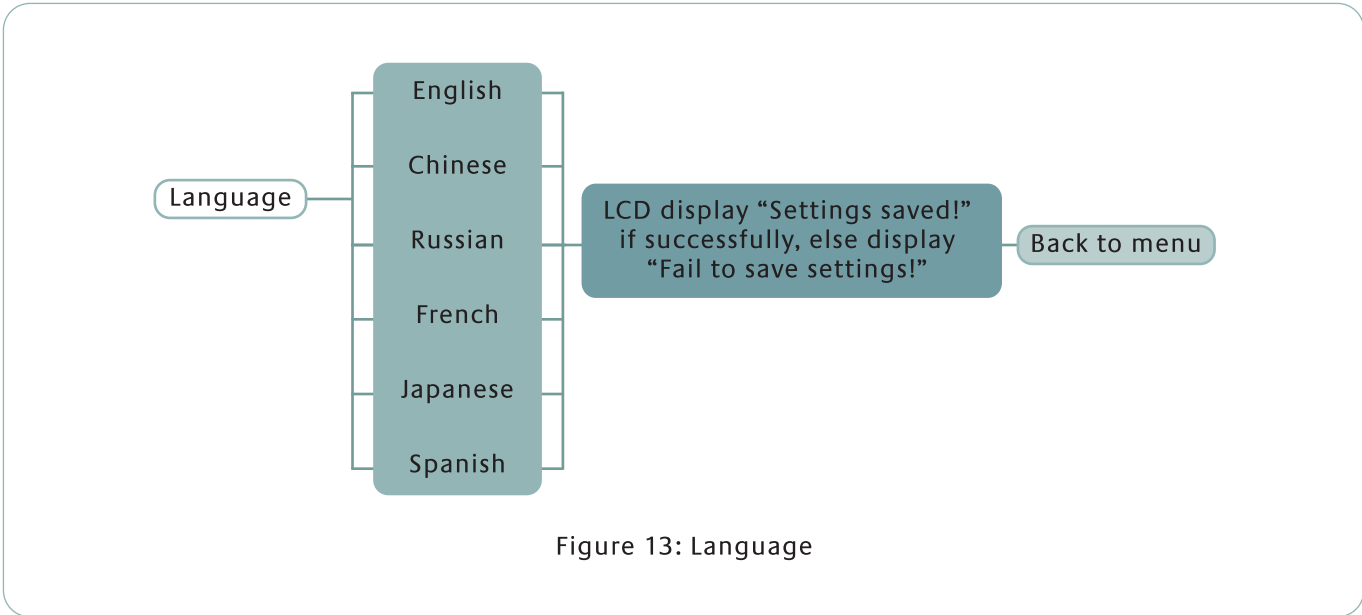


Figure 13: Language

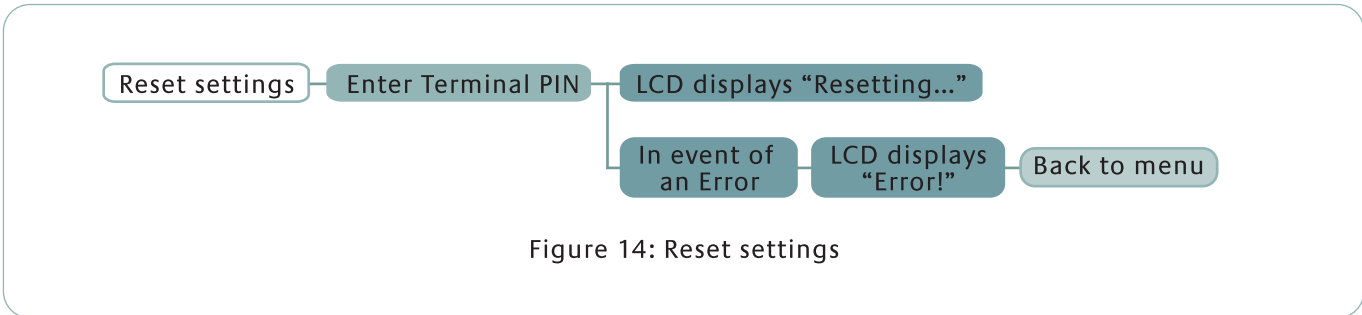








Figure 14: Reset settings

Appendix 4 Accessories

Accessories (Standard and Optional)

These are the accessories available to be used with SABRE™ I. Accessories in **RED** are optional. Purchase and ordering of all accessories can be made from the SABRE™ I distributors.

No	Description	Order Code	Specifications
1.	 Corded Caller ID Handset	SB1/AH200	<ul style="list-style-type: none"> • Basic Analog phone function • Caller ID LCD Display • RJ11 connector
2.	 Primary Battery Pack	SB1/PBATT	<ul style="list-style-type: none"> • 10.8V, 2050mAh • 208x26x25 (mm) • Approx. 180 g
3.	 Cable Pack	SB1/CABLEPK	<ul style="list-style-type: none"> • 6P4C RJ11 Telephone Cord (1.8m) • 8P4C RJ45 Cat.5 Network Cable (1.5m)
4.	 AC/DC Power Adapter	SB1/SPA	<ul style="list-style-type: none"> • Input: 100V- 240V, 50/60Hz, 1.2A • Output: 15V, 2.8V
5.	 3 Power Cords (Euro, US, UK)	SB1/PCPK	<ul style="list-style-type: none"> • 2-pin Euro-type • 2-pin US-type • 3-pin UK type
6.	 In-vehicle charger	SB1/AMC20	<ul style="list-style-type: none"> • Input: 11V - 26V • Output: 15V, 2.4A
7.	 Canvas Carrying Case (Customised compartment for SABRE™ I)	SB1/CCASE10	<ul style="list-style-type: none"> • 37.75x37.75x12.70 (mm) • Sling and back-pack

No		Description	Order Code	Specifications
9.		User Starter Kit	SB1/USTPK	<ul style="list-style-type: none"> • Product CD • Quick Start Guide

Appendix 5 Accessory User Guide

The following accessories are covered in Appendix 6:

1. Corded Caller ID Handset (SB1/AH200).
2. Primary Battery Pack (SB1/PBATT).
3. Secondary Battery Pack (SB1/SBATT).
4. In-vehicle charger (SB1/AMC10).

5.1 SB1/AH200 Corded Caller ID Handset

I. Features



Features of the handset include:

a) Large liquid crystal display

- i. 3 line LCD display.
- ii. 13 digits display for number.
- iii. 11 character dot matrix display for name.

b) Caller ID message memories

- i. The Caller ID handset can store up to 30 incoming callers' number, with each memory allowing 16 digits number.

c) Low battery indication

- i. A low battery indicator will be displayed when the battery is running low.

d) Call counter/New caller counter

- i. The Phone will display the accumulated incoming calls and the numbers of new calls.

e) Incoming call LED indicator

- i. LED indicator will flash every 2 seconds if there is new call/new message awaiting user's response.

II. Operation

a) Connection and use of the SB1/AH100 Corded Analog Handset

- i. Connect the curl cord to the BGAN RJ11 socket (See Figure 3-2).
- ii. You will hear a click when the modular plug is in place.
- iii. Press the Off hook button and listen for the dial tone.
- iv. Once a dial tone is heard, your telephone is operational.
- v. Press the On hook (red) button to on hook the phone.



b) Other operations

- i. **Flash Button**
During conversation mode, additional network services such as “Call Waiting” can be accessed via the use of the flash button.
- ii. **Redial Button**
Press the Off hook button and press the Redial Button if you wish to redial the last number dialed. (not applicable if the last number was dialed from LaunchPad.)
- iii. **Volume Control Button**
The handset earpiece volume can be adjusted using VOL + and VOL - button.

5.2 SB1/PBATT Primary Battery Pack



FIGURE 6.4-1: Primary Battery Pack for SABRE™ I

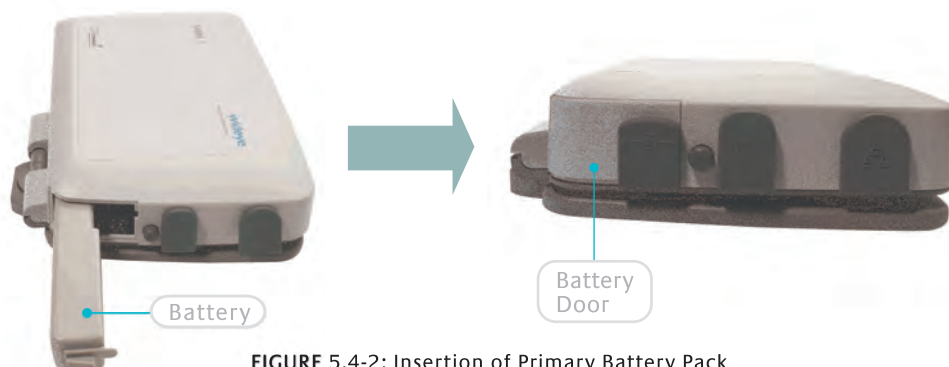
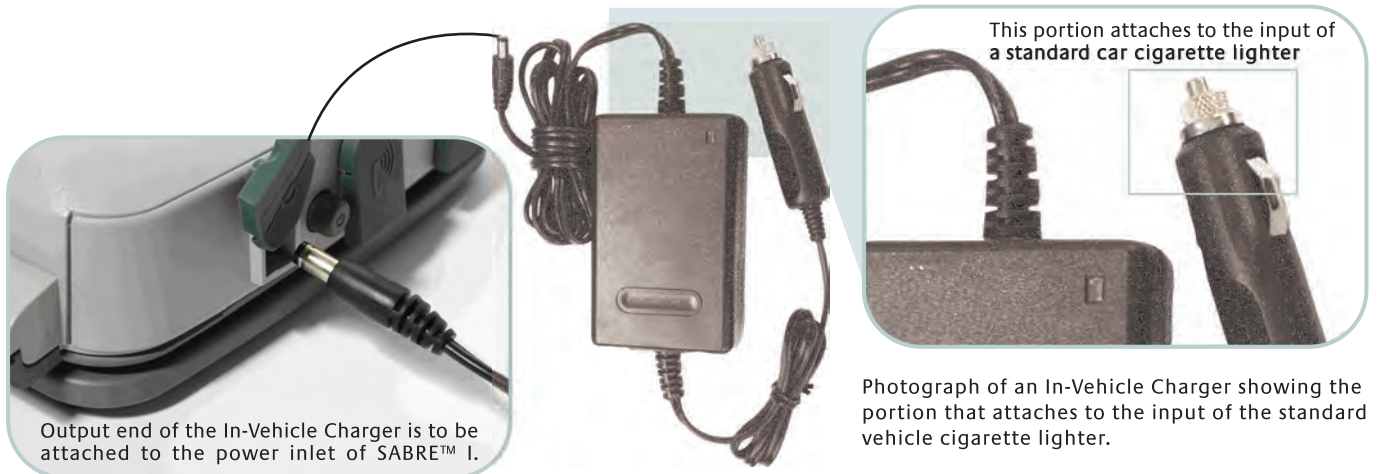


FIGURE 5.4-2: Insertion of Primary Battery Pack into SABRE™ I

I. Features

10.8V, 2050mAH
208 x 26 x 25 mm
Approximately 180g

5.3 SB1/AMC20 In-Vehicle Charger



Photograph of an In-Vehicle Charger.

FIGURE 5.6-1: Illustration exemplifying the features and application of the In-Vehicle Charger for use with SABRE™ I.

I. Operation

- a) Plug the input of the In -Vehicle Charger (as per Figure 6-1) into the cigarette lighter in the car.
- b) The In -Vehicle Charger accepts an input voltage of 12 V to 24 V and produces an output voltage of 15 V, 2A at the output terminal.
- c) Plug the output of the In - Vehicle Charger into the power inlet of SABRE™ I. Power to charge the internal battery of SABRE™ I will be supplied by the car via the In -Vehicle Charger.

Appendix 6 Voice Mail Access

When someone leaves a Voice Mail in the user Voice Mail account, the network will send the user a SMS message informing the user of the presence of a Voice Mail in his/her account.

For users that are accessing the mailbox for the 1st time please kindly see below.

Procedures for Voice Mail access:

1. Dial the Voice Mail Number: **00870772001899**
2. For first time access of the Voice Mail, a recording will be available to prompt the user to activate the Voicemail. Voicemail activation will be system guided.

The following is a brief procedure leading to User Voicemail activation.

- a. The introduction of a four digit PIN followed by #.
 - b. Confirmation of the PIN Code.
 - c. Enter your name or a generic name: Please say “**Test Voice Mail**” (again, for consistency).
 - d. Confirm the name by dialling **1**.
 - e. Enter a Greeting: Please say “**Test Voice Mail**” (again, for consistency).
 - f. Confirm the greeting by dialling **1**.
3. Voice mail features will be available for access subsequently by the user.

Appendix 7 Troubleshooting Guide

This section provides a list of commonly encountered problems, their possible causes and solutions.

S/N	Problem	Possible Cause	Solution
1.	SABRE™ I fails to turn on, or functions intermittently when powered by the battery.	Turn on SABRE™ I using the power from the mains via the power adapter. Proceed on with the following steps only if SABRE™ I could be turned on successfully.	
The internal battery needs recharging.		Charge the internal battery. Check the level of the battery indicator in the display.	
The internal battery is not inserted properly.		Re-insert the internal battery and make sure that the internal battery is inserted properly.	
The internal battery contacts are dirty or damaged.		Clean the internal battery contacts if necessary. Replace the internal battery if the contacts are damaged.	
2.	SABRE™ I fails to obtain a GPS fix.	Extended GPS position acquisition time. (Up to 10 minutes.)	<p>Point SABRE™ I's antenna such that it has clear view to the open sky.</p> <p>If SABRE™ I is placed at an unobstructed open area, then it is recommended to make it lay flat facing the sky to obtain GPS fix quickly. If SABRE™ I is placed near window, then it is recommended to place it at about 45 elevation angle facing the clear sky to obtain a new GPS fix</p>
3.	SABRE™ I is unable to receive a signal or the signal that is received from the satellite is weak.	Presence of obstructions between SABRE™ I and the Satellite.	Ensure that there are no obstructions between SABRE™ I and the BGAN Satellite.
		Window glass reduces the signal strength of the incoming and outgoing satellite signal.	
		The antenna is not aligned in the direction of the Satellite.	With the help of the compass and /or Launch Pad "Help me Setup BGAN" feature, ensure that SABRE™ I is pointing

towards the direction of the Satellite. Adjust the antenna to point in the right direction to obtain maximum signal strength.

			<p>towards the direction of the Satellite. Adjust the antenna to point in the right direction to obtain maximum signal strength.</p>
<p>4.</p>	<p>Unable to start firmware upgrade with SABRE™ I or Time out when transferring file to SABRE™ I during firmware upgrade</p>	<p>Presence of other LAN (Ethernet/wireless) connections</p>	<p>Disable the rest of the LAN connections except the one SABRE™ I. Retry after SABRE™ I.</p>
		<p>The Ethernet cable is loose</p>	<p>Ensure the Ethernet cable is securely tightened and SABRE™ I to retry.</p>
<p>5.</p>	<p>Fails to transfer file to SABRE™ I during firmware upgrade</p>	<p>Incorrect upgrade package /file is selected.</p>	<p>Ensure the correct upgrade package/file is selected. Retry after restarting SABRE™ I</p>
<p>6.</p>	<p>SABRE™ I is registered to network but fails to make any voice call or data connection.</p>	<p>The stored GPS position is outdated (when SABRE™ I is not used for very long time) or the GPS position is not matching with the current geographic location (this is true especially if SABRE™ I was moved from one place to another place which is far away (e.g., 10 km or more)</p>	<p>Turn on SABRE™ I and select New GPS to obtain new GPS fix. Point SABRE™ I's antenna such that it has clear view to the open sky.</p> <p>If SABRE™ I is placed at an unobstructed open area, then it is recommended to make it lay flat facing the sky to obtain GPS fix quickly. If SABRE™ I is placed near window, then it is recommended to place it at about 45 elevation angle facing the clear sky to obtain a new GPS fix.</p>
<p>7.</p>	<p>SABRE™ I is unable to register to the network.</p>	<p>The SIM card might not be properly inserted or the contact is dirty.</p>	<p>Reinsert the SIM card and ensure that it's properly installed.</p> <p>Wipe the contact point of the SIM card with a piece of clean cloth and reinsert it.</p>



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