



## User Manual

### Revision 1.0

For assistance or additional about this Installation Manual, please contact SATLINK S.L.  
Customer Support at:

Tel: +34 91 327 21 31  
Email: [techsupport@satlink.es](mailto:techsupport@satlink.es)

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## CERTIFICATIONS



### FEDERAL COMMUNICATION COMMISSION NOTICE

**FCC Identifier: XGW-SLFLTONE**

#### 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 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 1m** 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 Fleet One Satellite Communication System.

**EC Declaration of Conformity:**

Satlink S.L., Avenida de la Industria 53, Alcobendas, Madrid CP28108, Spain, declares under our sole responsibility that the Product, brand name as Satlink and model: FleetOne, Maritime Communication System to which this declaration relates, is in conformity with the following standards and/or other normative documents:

**ETSI EN 301 489-1, -17, -19, -20, ETSI EN 301 444, ETSI EN 300 328, EN 61000-3-2, EN 61000-3-3, EN 60945, IEC 60950 - 1 AND EN 60950-1**

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.**

**CE 1177 !**

The technical documentation relevant to the above equipment are held at:

Addvalue Innovation Pte Ltd., 8, Tai Seng Link, Level 5 (Wing 2), Singapore 534158.

Signed by Mr. Jens (CTO) on 24th November 2016)



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**SAFETY INSTRUCTIONS**

For the sake of safety and protection, read the manual before attempting to use Fleet One User Equipment (UE).

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 user guide violates safety standards of intended use of the UE.

Satlink S.L. assumes no liability for the customer's failure to comply with these requirements.

**Hazard Symbols**

<b>Heat Surfaces</b> 	Avoid touching those areas of the UE that are being marked with this symbol otherwise it may result in injury.
<b>Antenna Radiation Warning and Distance to other Radiation Equipment</b> 	For safety reasons, all personnel must keep at least <b>ONE meter</b> from the antenna.
<b>Power Supply</b> 	<p>Turn off the power at the mains switchboard before beginning of the installation.</p> <p>Confirm the power voltage is compatible with voltage rating of the equipment. It is highly recommended to use +24V DC power line, provided that it is available on the vessel.</p> <p>If there is no +24V DC power line provided by the vessel, an external AC/DC power supply with an input of 115/230V AC and an output of +24V DC can be used.</p> <p><b>Note:</b> The requirements of the AC/DC power supply</p>



	should take care of <b>high surge current of 25A at 24V DC for 1ms.</b>
<b>Grounding, cables and connections</b> 	The chassis of the equipment must be connected to an electrical ground. This will minimise electric shock and mutual interference. In short, the UE must be grounded to the vessel.
<b>Service</b> 	<p>Do not attempt to access to the interior of the equipment. Only qualified personnel authorized by its manufacturer may perform service. Failure to comply with this rule will result in the warranty void.</p> <p>Under certain conditions, dangerous voltages may exist even with the power cable removed. To avoid injuries, always disconnect power before accessing the equipment.</p>

### Equipment Ventilation

To ensure adequate cooling of the terminal, 5 centimeters of unobstructed space must be maintained around all sides of the unit except the bottom side. The operational temperature range of the transceiver is: -25°C to +55°C.

### Fire Precautions

The equipment shall not be operated in the presence of flammable gases or fumes as well as any explosive atmosphere. Operation of any electrical equipment in such an environment constitutes a definite safety hazard.

### Obtaining Licensing For Inmarsat Transceivers

Under rights given under ITU Radio Regulations, local telecommunications administrations 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.



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To legally operate Inmarsat equipment, it is necessary to obtain permission from the local telecommunications regulatory authorities of the country you are operating from. Using your equipment in any country without permission causes you to run the risk of confiscation of the equipment by the local authorities. The normal procedure to bring such equipment into another country is to apply for a license before travel. If a license has not been obtained before travel, the equipment may be put in to storage by local authorities until such time that a license is obtained.



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## IMPORTANT INFORMATION TO INSTALLERS AND USERS

### General

It is important that the user of this equipment read and observe all safety requirements and operate the terminal according to the descriptions published in this manual.

Failure to comply may result in risk of injury or equipment failure and voids the validity of the warranty provided by equipment manufacturer.

The terminal consists of 2 systems, BDU and ADU and they must be used as provided by the manufacturer or authorized dealer. Do not substitute any one of the system which is not provided by the manufacturer or authorized dealer. Should needs of servicing or replacement is required, always contact the distributor or manufacturer for instructions.

Any modifications or attempts to open up the devices by not authorized personnel will void the warranty.

Contents in this manual are subjected to change without notice and may contain errors or inaccuracies. The manual is periodically revised and updated. To obtain latest version, please enquire it from product manufacturer or distributor.

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## 1 INTRODUCTION

The Fleet One terminal is a dedicated compact solution design to meet the Fleet One services requirements for the targeted maritime market segments. The Fleet One data service offers a throughput of up to 100 kbps. The service offers both voice and IP data connectivity and that operates over Inmarsat's existing BGAN network.

**NOTE**

*The throughput is dependent on the local operating conditions and is likely to be less than 100 kbps in some locations.*

The terminal has been designed for maritime conditions, with ingress protection and compact dimensions for both above and below-decks equipment.



### 1.1 Ranges of Services

- ⌚ Email and webmail
- ⌚ Secure communications
- ⌚ Intranet and internet access
- ⌚ SMS and instant messaging
- ⌚ Phone service
- ⌚ Large file transfers



## 1.2 Features

The Fleet One offers the following features:

Services	Fleet One
Coverage	Voice and data are available globally except for the extreme polar regions.*
Voice	4kbps AMBE+2.
SMS	Standard 3G (up to 160 characters) per SMS. Maximum of 4 chained SMS.
Data	Standard IP: Up to 100 kbps



*Operates down to 5° antenna elevation (performance may be reduced at lower elevation angles).*

The light-weight UE has compact dimensions and supports both voice and data services simultaneously. The built-in Web Console allows you to manage your phone book, messages and calls, and customize the terminal to your specific needs.

## 1.3 Interfaces

The Fleet One UE has the following interfaces;

- ⌚ +12V / 24V DC Power Input Connector
- ⌚ Antenna Connector ( N-Type )
- ⌚ SIM Card Slot for Fleet One SIM card
- ⌚ Dedicated Primary Handset Port
- ⌚ GPS Output Port
- ⌚ RJ 11 Telephone Socket
- ⌚ RJ45 LAN Socket



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## 2 MAIN UNITS

The Fleet One terminal includes the following main units:

- ⌚ Fleet One BDU
- ⌚ Fleet One ADU
- ⌚ Primary Handset

### 2.1 Above Deck Equipment (ADU), the antenna unit

The Fleet One ADU is maritime 3-axis controlled antenna. The antenna is self-tracking based on patented beam squint technology. The simple and robust electromechanical system, with one motor per free axis, provides full coverage in azimuth and elevation. Tracking is accomplished by measuring signals being continuously broadcast from the satellite.

The radome covers the antenna unit, which is comprised of

- ⌚ Antenna Module
- ⌚ RF and GPS Module
- ⌚ Rotary Joint
- ⌚ Antenna Pedestal

The antenna unit includes a low noise amplifier (LNA), high power amplifier (HPA), and tracking receiver circuitry to ensure communication even in adverse circumstances.



All signals (and DC power) pass through a single coaxial antenna cable, which connects the ADU to the BDU.



## 2.2 Below Deck Equipment (BDU), the transceiver

The BDU has been developed for maximum flexibility and is the controlling unit for the Fleet One UE. It features reliable industry standard interfaces and enables users to have optimal connectivity no matter what the conditions or your position at sea.



The BDU has a built-in Web Console, which can be accessed from a computer connected to the BDU, using a Web browser. The Web Console provides easy configuration of the BDU, firmware upgrade and daily use. For more information, see **Chapter 5, Using the Web Console**.

The BDU is supplied by a +12V or +24V DC power supply, and it supplies power to the ADU via a single RF/coaxial antenna cable.

### Status LEDs



There are 4 Status LEDs to indicate the operational status of the BDU. Each LED is assigned to the following function:

- ⌚ BDU Terminal Status
- ⌚ ADU Status
- ⌚ Registered to Network Status
- ⌚ Data Active Status



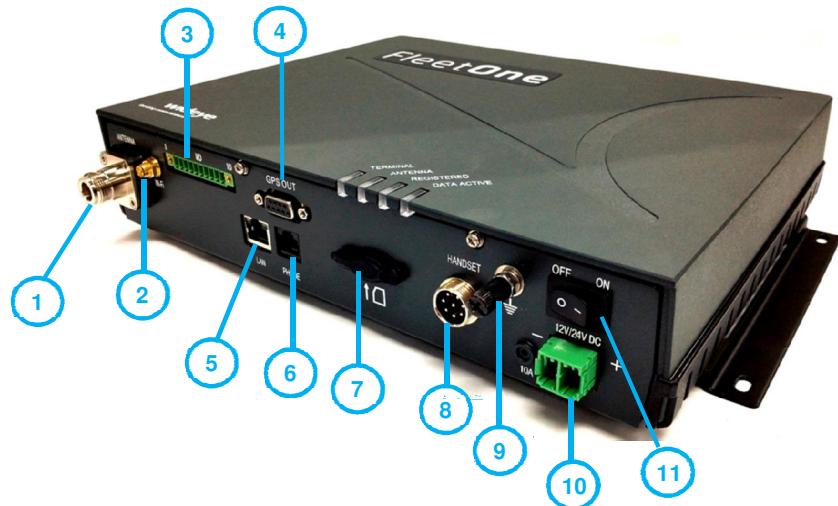
### SIM Card Slot



Tilt up SIM Card cover to access the SIM card slot. The UE requires a dedicated Fleet One service SIM card to access the network and to configure the settings of the UE.

### Front Panel

The following diagram shows the front panel of the BDU.



1. Antenna (N-Type) Connector	7. SIM Card Slot
2. Wi-Fi Port	8. Primary Handset Port
3. GPIO Port	9. Grounding Stud
4. GPS Output Port	10. DC Power Connector
5. LAN Port (RJ45)	11. ON / OFF Switch
6. Phone Port (RJ11)	



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## 2.3 Primary Handset

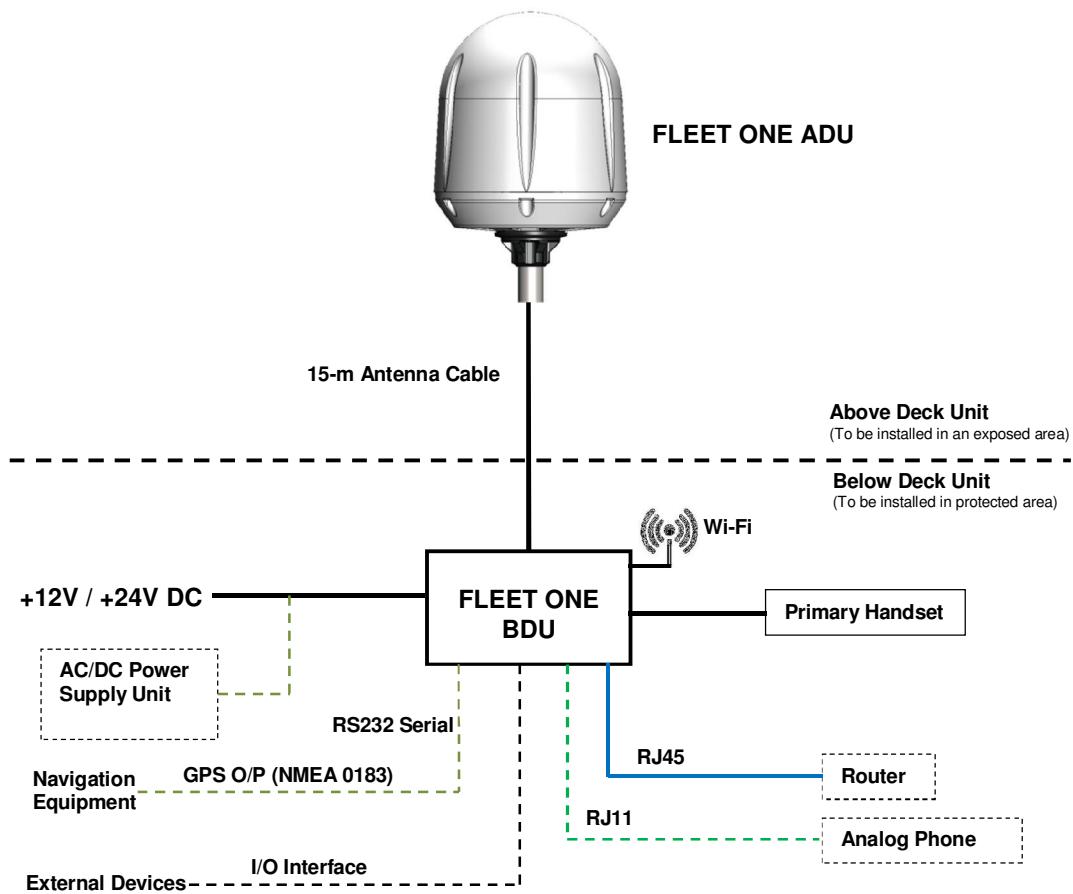


The wired Primary Handset has a colour liquid crystal display (LCD) and keypad for making and receiving normal voice calls and sending SMSs using an interface similar to a mobile phone. The user may access various BDU functions via the handset. The Primary Handset connector is plugged into the BDU primary handset port and it is powered directly from the BDU.



### 3 GETTING STARTED

#### 3.1 System Configuration



Solid line refers to the basic configuration.



## 3.2 Preparation for Operation

### 3.2.1 Install the SIM Card

The terminal requires a Fleet One service SIM card to access the Inmarsat's network and to configure the settings of the BDU. Please refer to your Airtime Service Provider for more information.

**NOTE**

*Ensure that the BDU is switched off before inserting or removing the SIM card.*

- a. Tilt up the SIM card cover and position the SIM Card (with its gold contacts facing down. Refer to the symbol of a SIM card labelled on the front panel to ensure the correct orientation of the SIM Card before it is being inserted.)
- b. Push the SIM card gently until it is being locked in place.
- c. Tilt down the SIM card cover.



### 3.2.2 Connecting the Primary Handset

- a. Plug in the Primary Handset connector into the **Handset** port on the BDU front panel.



### 3.2.3 Powering Up the Terminal

- a. Use the ON/OFF switch on the BDU's front panel.





b. Wait for LEDs indicators (**TERMINAL**, **ANTENNA** and **REGISTERED**) to turn green to indicate the terminal is completely powered. Refer to the table below for meaning of the status indicators.



LED Name	Status	Meaning
TERMINAL	Steady <b>Amber</b>	Terminal (BDU) is powering up.
	Steady <b>Green</b>	Terminal (BDU) has powered up successfully.
	Steady <b>Red</b>	Terminal (BDU) detects failure state.
	Off	Terminal (BDU) is in OFF state.
ANTENNA	Steady <b>Amber</b>	ADU is powering up.
	Blinking <b>Amber</b>	ADU is calibrating.
	Blinking <b>Green</b>	System is performing satellite search.
	Steady <b>Green</b>	System has locked on to the satellite.
	Steady <b>Red</b>	ADU detects failure state.
	No light (Off)	ADU is in OFF state.
REGISTERED	Steady <b>Amber</b>	Attempting network registration
	Blinking <b>Amber</b>	Ready for Voice only.
	Blinking <b>Green</b>	Ready for Data only.
	Steady <b>Green</b>	Ready for all (Voice and Data).
	Steady <b>Red</b>	Network failure / Registration error.
	No light (Off)	No network service.
DATA ACTIVE	Steady <b>Amber</b>	Activating data connection.
	Steady <b>Green</b>	Data connection is ready.
	Steady <b>Red</b>	Data activation failure
	No light (Off)	No data connection.

### 3.2.4 Entering your SIM PIN

When you acquire the SIM card from the Airtime Service Provider, a PIN with its 4 to 8 digits will be supplied.

**NOTE**

*You will need to enter the PIN at start-up if the Fleet One BDU has been powered down.*

To enter the SIM PIN, use the Primary Handset's keypad. Press  to confirm SIM PIN.

**NOTE**

*You are required to use the PUK code to unlock the SIM card and to reset your PIN code of more than three (3) incorrect attempts were used to enter the PIN code.*



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## 4 USING THE PRIMARY HANDSET

### 4.1 The Primary Handset

The Primary Handset is connected to the FBB UE using the dedicated HANDSET port and is powered directly from the BDU. Equipped with a large 2', 65K CSTN, 220 Liquid Crystal Display (LCD), Primary Handset not only acts as a standard phone that allows you to make/ receive voice calls, it also serves as a remote access UE (User Equipment) for you to access various configurations supported by the BDU.

Primary Handset offers the following features:

- ⌚ Making standard CS voice calls
- ⌚ Making standard/streaming PS background data connections
- ⌚ Messaging (SMS)
- ⌚ User contacts (combined SIM and BDU storage)
- ⌚ Speed dial
- ⌚ Call logs
- ⌚ Managing BDU security settings
- ⌚ Accessing BDU settings that includes:
  - Ethernet
  - Ciphering control
  - Supplementary services
  - Transceiver restart
  - Limited factory reset
- ⌚ Displaying various BDU status and information
- ⌚ Local handset configurations





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## 4.2 Powering Up the Primary Handset

The Primary Handset is automatically powered up once it is connected to the dedicated **HANDSET** port. Depending on the conditions of the BDU, the Primary Handset may start in the following modes:

### 4.2.1 Full functioning mode

In full functioning mode, there is no PIN authentication required to start using the FBB terminal. All BDU settings including contacts, messages and call logs are loaded into local memory of the Primary Handset once the BDU is configured. You will be able to access all the menus and making voice or data calls once the Primary Handset is ready.

### 4.2.2 PIN mode

User is required to enter the correct PIN/password before proceeding to **Full functioning mode**, refer to **Security settings** menu for more information on the types of security PIN in the BDU.

#### To enter the PIN:

1. Key in the PIN of the security key using the alpha-numeric keypad.
2. Press  key to confirm.

#### To cancel PIN entering:

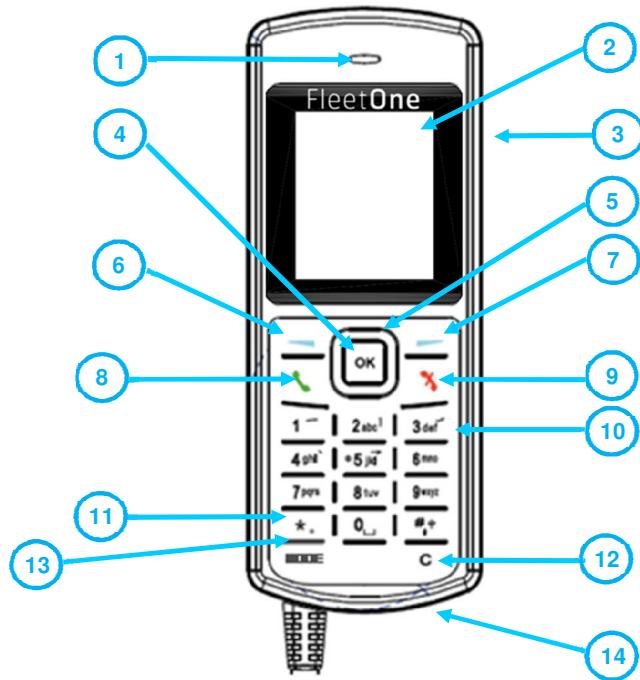
1. Press the Right  selection key.
2. Confirm to start in Emergency only mode by pressing the  key.

### 4.2.3 Emergency only mode

PIN authentication is bypassed (i.e. when you have forgotten the required PIN). You can only make emergency calls or access local Phone manager menu in this mode.



#### 4.3 Primary Handset



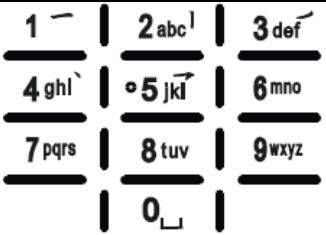
1. Earpiece
2. Display
3. Ear-set Jack
4. OK Key
5. 4-Way Navigation Keys
6. Select Left Key
7. Select Right Key
8. Call/Send key
9. End key
10. Keypad (Alpha-numeric)
11. Mode Key
12. Clear Key
13. Microphone
14. Service Port
15. Ringer\*

**NOTE**

\* The ringer is located at the back of the Primary Handset.



#### 4.3.1 Keypad - Description and Functions

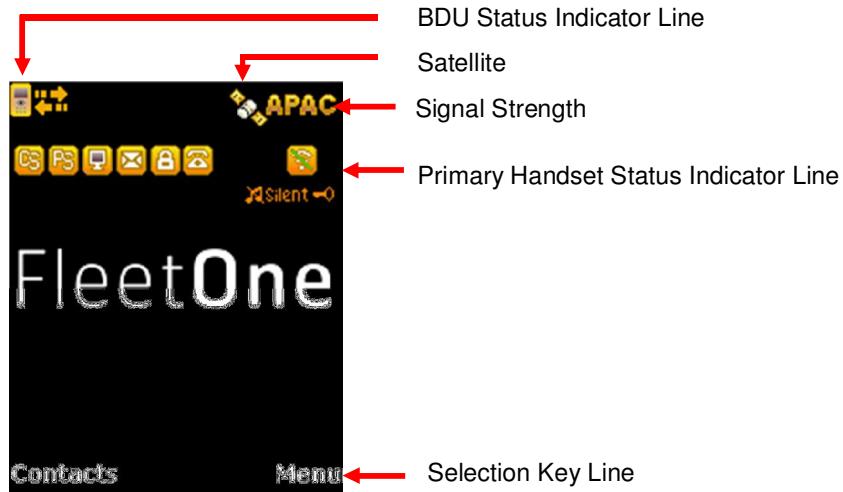
Keys	Description/Functions
	<b>4-way navigation ring.</b> Press the 4-way navigation ring to scroll left, right, up, and down on the display. Enables scrolling through names, phone numbers, menus or settings.
	<b>OK key.</b> Pressing this key selects/confirms the function highlighted on the display.
	<b>Left selection key.</b> The function of this key depends on the guiding text shown on the display above the key.
	<b>Right selection key.</b> The function of this key depends on the guiding text shown on the display above the key.
	<b>Call/Answer key</b> <b>After entering a phone number:</b> Initiates a call to the number. <b>From Main Display screen:</b> Opens a list of dialed calls <b>When Ringing:</b> Answers the incoming call.
	<b>Call/Menu End key</b> Press this key to end active calls or exits from any menus or sub menus.
	<b>Keypad</b> Used to enter numbers and characters. Press <b>0</b> to add a space when writing text. The functions available depend on whether you are typing a phone number (number mode) or text (text mode).



Keys	Description/Functions
	<b>Star * key</b> When entering a phone number, press this key to insert a *. Press and hold this key to insert a +.  When writing text, press this key to access a list of special symbols.
	<b>Hash # key</b>  When entering a phone number, press this key to insert a #.  To quickly change the text input method when writing text, press this key repeatedly and check the indicator at the top of the display.  In standby mode, press and hold this key to set the Primary Handset into silent mode.
	<b>Mode key</b>  Unplug the handset from BDU, press and hold this key when handset unplugged and plug in the Handset. Handset power up in Firmware Upgrade Mode.
	<b>Clear Key</b>  Press key once to clear one character at a time or press and hold this key to clear the whole text entry.



#### 4.3.2 The Main Display Screen



- **BDU Status Indicator line**  
The indicator line shows status symbol informing you about the operating conditions of the BDU.
- **Satellite**  
The indicator line shows status symbol informing you about the satellite service.
- **Handset Status Indicator line**  
The indicator line shows status symbols informing you about the operating conditions of the Primary Handset.
- **Selection Key line**  
The Selection key line operates using the Left  or Right  selection keys with the  to access menus and controls.



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**Primary Handset Status Indicators**

Table below explains the meaning of each status indicator displayed in the Main Display screen.

<b>Status Indicator</b>	<b>Description</b>
	New short message (SMS) in inbox.
	Available CS domain services.
	Available PS domain services.
	Data connection is active.
	Ciphering is enabled.
	Radio silent is enabled.
	Primary Handset keypad lock is active.
	Primary Handset disconnected from BDU.
	Primary Handset connected to BDU.
	The terminal has locked on to Inmarsat satellite "I-4 Asia Pacific".
	The terminal has locked on to Inmarsat satellite "I-4 EMEA".
	The terminal has locked on to Inmarsat satellite "I-4 Americas".
	Primary Handset in silent mode.
	Signal strength.



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#### 4.3.3 Primary Handset Operations

##### Making a Voice Call

Before making a voice call, please make sure that:

- ⌚ The Primary Handset is connected to the BDU. (  Status indicator should be on.)
- ⌚ The Primary Handset is NOT radio silent. (  Status indicator should be off.)
- ⌚ The BDU has successfully registered with the network and ready for CS domain (voice) services. (  Status indicator should be on.)

You can use the following two options for making a call:

- **Manual Dial:**

1. Using the alphanumeric keypad, dial **00 <country code> <phone number>**.
2. Press  key.

- **Using Contacts or Call Log list from the Primary Handset:**

Enter the **Contacts** list of the Primary Handset; scroll to the desired number and press  key, or  
Enter the **Log** list of the Primary Handset; scroll to the desired number and press  key.

**Note:**

For voice calls and SMS, you may also use '+' by pressing and holding the **\* +** key instead of "00" at the beginning of dialled number string as an alternative ('+' <country code> <phone number>).

##### To End a Call

1. Press 

##### Receiving a call

When there is an incoming call, the Primary Handset will,

- Ring.
- The calling party's number will be displayed on the screen.



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If the number is stored in the contacts, the corresponding name of contact will be displayed.

To answer an incoming call, press the  key.

#### Adjusting volume during a call



Use the 4-way navigation ring  to adjust the volume.





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### Using the Menus

You can access the Menu System by pressing the Right  selection key in the Main Display screen.

The main menu of the Primary Handset includes nine (9) menu options with each menu option having their respective sub-menus.

You can use the 4-way navigation  ring to navigate to the desired menu option and press  to confirm your selection. You can also end the menu or sub menus and return to the Main Display screen at any time by pressing the  key.

Table below summarizes the functionalities within each menu option:



#### **Contacts**

This menu manages your user contacts.



#### **Log**

This menu allows you to view call histories.



#### **Telephony**

This menu configures settings related to CS voice telephony services.



#### **Data**

This menu configures settings or connections related to PS data services.



#### **Messaging**

This is menu is for SMS related services.



#### **Settings**

This menu configures general BDU settings.



#### **Transceiver**

This menu displays general BDU information.



### **Security settings**

This menu configures security settings related to the **BDU**.

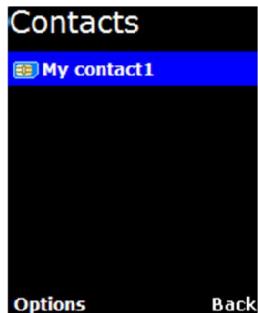


### **Phone manager**

This menu configures local handset settings.



## **Contacts Menu**



The **Contacts** menu allows you to store, retrieve and update names and phone numbers of your contacts in the SIM card memory. You can also access this menu by pressing Left  selection key in Main Display screen.

This menu lists all the contacts saved in the SIM card memory where,

**Options** **Back**



Indicates contacts that are saved in SIM card.

The following options are available when pressing the Left  selection key while browsing through the contacts:

- **New contact**

Add new contact to the memory. To add contact:

1. Select **New contact**.
2. Select where you want to store the contact (BDU or SIM).
3. Enter the name for the contact.

**Note: Press \* + key to browse for symbols.**

4. Enter the number for the contact.

**Note: Stored number can be in any one of the following formats:**

- ‘+’ <country code> <phone number>



- 00 <country code> <phone number>

Press \*+ key to insert '+' sign.

Saving of contact without number is not allowed.

5. Select **Save** (Left  selection key) or pressing the  key to save the contact to the selected memory.

**Note:** Refer to “Tips for writing the text” section under **New message** for more information on text writing.

- **Search**

Select this to enter a specific name to search within the contact list.

- **Delete**

Delete selected contact.

**Note:** You can also delete the selected contact by pressing the **Clear**  key.

- **Copy**

Select this to copy the selected contact from SIM card memory to BDU memory or vice versa.

- **View number**

Display the number of the selected contact.

- **Assign Speed Dial**

Add the selected contact to the speed dial list.

- **Reload Contacts**

Select this to reload contacts from the BDU/SIM card into the local memory of the Primary Handset.

- **Memory Status**

Select this to view the memory status of the contacts.

While browsing through the contact list, press the  key to view the phone name and number or the selected contact. The following options are available when pressing the Left  selection key while viewing the selected contact:

- **Call**

Make a voice call to this contact.

- **Send message**

Open a SMS editor to send a text message to this contact.



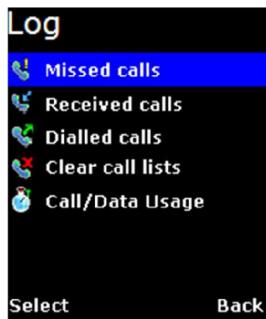
---

- **Edit contact**  
Edit information of this contact.
- **Delete**  
Delete this contact.
- **Copy**  
Select this to copy this contact from SIM card memory to BDU memory or vice versa.
- **Forward contact**  
Forward information of this contact using SMS.
- **Assign Speed Dial**  
Add this contact to the speed dial list.

**Note: You can also make a voice call to the selected contact when browsing through or viewing the contacts by pressing the Call  key.**



**Log Menu**



The **Log** menu allows you to view historical information about phone calls and data usage in chronological order with the following sub menus:

-  **Missed calls**
-  **Received calls**
-  **Dialed calls**



---

Call history of the particular category is displayed in chronological order when selected. Up to 5 latest entries of each category can be saved.

The following options are available when pressing the Left  selection key while browsing through or viewing the call log:

- **Delete**

Delete the selected log entry from the list.

**Note: You can also delete the entry by pressing the Clear  key.**

- **Call**

Call the number in the selected log entry.

- **Send**

Send an SMS to the number in the selected log entry.

- **Save**

Save the number from the selected log entry to the contact list.

**Note: This option is not available when the log entry already has an entry in the contact list.**

**Note: You can also make a voice call to the number of the selected log entry when browsing through or viewing the call log by pressing the Call  key.**

### **Clear call lists**

Select this to clear the call log entries. Available log options are:

- **Missed calls**

- **Received calls**

- **Dialled calls**

- **All calls**

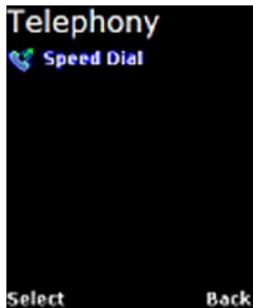
Delete all logs including **Missed**, **Received** and **Dialled** logs.

### **Call/Data usage**

Display the accumulated call duration and data bytes. Press Left  selection key to clear the call or data duration.



### Telephony Menu



The **Telephony** menu allows you to configure telephony related settings with the following sub menus:

#### Speed dial

- **Setting**

Contain options to enable/disable the speed dial feature.

- **Speed Dial List**

Select this to configure the speed dial list. The following options are available when pressing the Left  selection key while browsing through the list:

- **Assign**

Assign a contact to the selected entry. To assign a contact:

1. Select **Speed Dial List**.
2. Browse through the list to locate an empty entry.
3. Select **Options** by pressing Left  selection key.
4. Select **Assign** and press  from the option.
5. Select the desired contact to assign to the speed dial list.
6. Press  to confirm your selection.

- **Delete**

Remove contact from the selected entry. This option is not available for empty entry.

**Note: You can also delete the entry by pressing the Clear  key.**

- **Call**

Make call using the number from the selected entry. This option is not available



---

for empty entry.

**Note: You can also make a voice call to the number of the selected entry by pressing the Call  key.**

You can make a voice call directly from the Main Display screen by pressing the corresponding speed dial entry number + Call  key once the speed dial feature is enabled with a valid contact entry.



## Data Menu



The **Data** menu provides the following sub menus to manage and configure data connections (PDP profiles) for the BDU:



### Manage profiles

Allow you to manage the Primary PDP profile.

- Standard profile  
One **Standard** Primary PDP profile has been created in the Primary profile list as a default profile.

You can press the Left selection key for options available when browsing through the profile list. The list of options is:

- **Edit**  
Edit the profile.
- **Delete**  
Delete the profile.

#### ➤ **Editing profiles**

You can press the Left selection or key from the option list to add new or edit existing profile settings.

- **Profile name**  
Specify the name of the profile.
- **Connection type**  
**Standard** connection type is supported.
- **APN**



---

Specify information of the APN (Access Point Name). Further available settings are:

**APN:** Specify the Access Point Name for the connection. Default APN is according to SIM card. Enter your own APN if you do not want to use the default APN from the SIM card.

**Username:** Specify the user name for **Static** IP configuration. Default is blank for **Dynamic** IP configuration.

**Password:** Specify the password for **Static** IP configuration. Default is blank for **Dynamic** IP configuration.

You can press the Left selection key for the following options:

- **Edit**

Edit the selected APN setting.

- **Fetch from SIM**

Fetch the APN from the SIM card. This option is only available when APN is highlighted.

- **IP configuration**

Contain options for **Static** or **Dynamic** IP. Default is **Dynamic** IP configuration.

- **IP address**

Specify the IP address for **Static** IP configuration. This field is ignored for **Dynamic** IP configuration. Default is blank for **Dynamic** IP configuration.

- **Header comp.**

Contain options to enable or disable header compression. Default is **Enabled**.

**Note:** You will be prompted to save the changed settings before exiting the sub menu. Press Left selection key or key to save the changes.

Icon in the profile list indicates that the profile is not active and icon indicates that the profile is currently active in use.

### Status

Allow you to check the status of the data connection. You can also activate / de-active a specific profile in the status display list.



---

**Note: You will not be able to enter this sub menu if the BDU has not been registered for PS data service.**

The status list shows you the current active data connection. Depending on whether there is an active connection, you can press the Left  selection key for the following options:

- **Activate primary**

This option is available when there is no active data connection. Select this to choose from the profile list for activation.

- **Deactivate**

This option allows you to deactivate an active data connection.

**To active a primary data connection when there is no active connection:**

1. From the data status list, select Options using the Left  selection key.
2. Select **Activate primary** using Left  selection key or  key.
3. Select from a list of configured primary profile for activation. Press Left  selection key or  key to confirm.
4. You are prompted to confirm activation. Confirm activation by selecting **Yes** using the Left  selection key or  key.

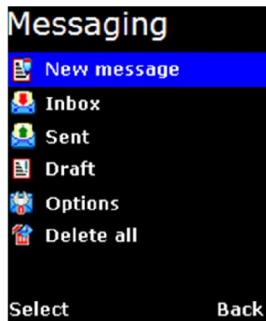
**Note: It may take a while to active a data connection.**

**To de-activate a primary data connection when there is an active connection:**

1. From the data status list, select Options using the Left  selection key.
2. Select **Deactivate** using Left  selection key or  key.
3. You are prompted to confirm de-activation. Confirm de-activation by selecting **Yes** using the Left  selection key or  key.



### Messaging Menu



The **Messaging** menu allows the user to write a new messages, view stored messages from **Inbox**, **Drafts** and/or **Sent** folders and configure settings related to SMS with the following sub menus:

#### **New Message**

Select this to create and send a new message. To create new message:

1. Select **New Message** by pressing the  key. A SMS editor will be displayed on the Primary Handset screen for writing new message.
2. Type in your SMS message using the alphanumeric keypad.
3. To send the message, press the  key and select **Send**.
4. Enter the recipient's phone number, and press the  key. Alternatively you can select **Search** by pressing the Left  selection key to select the phone number from the contacts.

#### **Options:**

You can press the Left  selection key to select options available when writing the message.

- **Send**  
Select this when you are ready to send your message.
- **Save**  
Select this to save the message into the **draft** folder.
- **Clear screen**  
Select this to clear all the written text.



---

***Tips for writing the text:***

- Press the **0** key to add a space.
- To quickly change the text input mode when writing text, press  key repeatedly and check the indicator at the top of the display:
  - **<ABC>**: Capital letters
  - **<123>**: Numbers
  - **<abc>**: Small letters
  - **<Abc>**: Initial Capital letter followed by small letters
- To add a number in alphabet mode, press and hold the desired number key.

***Inserting symbols to your message:***

- To get a list of special symbols, press the  + .key.
- Using the 4-way navigation ring , navigate to the desired symbol.
- Press  to confirm selection.

***Clearing text:***

- To clear text, press  once to clear one character at a time.
- To clear the whole text entry, press and hold  to clear the whole text entry.



**Inbox**

Contain new/opened text messages that you have received. When browsing through the messages list using the 4-way navigation  ring,



Indicates an unread (new) message and



Indicates read (opened) text messages.

The following are available options when pressing the Left  selection key while browsing through or viewing the messages in this folder:

- **Open**

Open selected message. You can also press  while browsing through the message list to open the selected message (This option is not available when viewing the message).



- **Reply**  
Select this to reply to the selected message sender.

- **Delete**  
Delete selected message.

**Note: You can also delete the selected message by pressing the Clear  key.**

- **Forward**  
Forward this message to another recipient.

- **Call**  
Make a voice call to the selected message sender.

- **Save**  
Save the selected message into the Draft folder.

- **Details**  
Display the details of the selected message.

- **Add to contact**  
Select this to add the phone number of the selected message into the contact list.

**Note: You can also make a voice call to the selected message contact when browsing through the messages list by pressing the Call  key.**

### **Sent**

Contain text messages that you have sent. The following are available options when pressing the Left  selection key while browsing through or viewing the messages in this folder:

- **Open**

Open selected message. You can also press  while browsing through the message list to open the selected message (This option is not available when viewing the message).

- **Delete**

Delete selected message.



---

**Note:**

You can also delete the selected message by pressing the Clear  key.

- **Send**

Send the selected message to another recipient.

- **Save**

Save the selected message into the Draft folder.

- **Add to contact**

Select this to add the phone number of the selected message into the contact list.

**Note: You can also make a voice call to the selected message contact when browsing through the message list by pressing the Call  key.**

 **Draft**

Contain text messages that you have saved. The following are available options when pressing the Left  selection key while browsing through or viewing the messages in this folder:

- **Open**

Open selected message. You can also press  while browsing through the message list to open the selected message (This option is not available when viewing the message).

- **Delete**

Delete selected message.

**Note: You can also delete the selected message by pressing the Clear  key.**

- **Send**

Send this message to another recipient.

- **Save**

Save the selected message into the Draft folder

- **Add to contact**

Select this to add the phone number of the selected message into the contact list.



---

**Note: You can also make a voice call to the selected message contact when browsing through the message list by pressing the Call  key.**

## Options

The following settings are available in this sub menu:

- **Message Centre**

Select this to set the number of the SMS service centre.

- **Save sent message**

Select this to enable or disable the saving of sent messages. When this option is enabled, all successfully sent messages are saved in the **Sent** folder.

- **Memory status**

Select this to view the memory status of the messages.

- **Reload Messages**

Select this to reload messages from the BDU into the local memory of the Primary Handset.

## Delete all

Select this to clear the messages in a particular folder. Available folder options are:

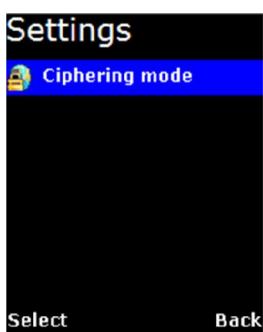
- **All messages**

Delete messages in all folders including **Inbox**, **Sent** and **Draft**.

- **Inbox**

- **Sent**

- **Draft**

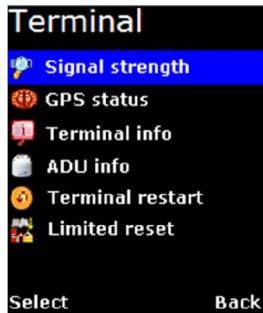
**Settings Menu**

The **Settings** menu provides the following sub menus to configure the BDU:

 **Ciphering mode**

Contain options to enable/disable the use of ciphering mode between the network and BDU.

**Note: Status icon is displayed in the Main Display screen when ciphering is enabled.**

**Terminal Menu**

The **Terminal** menu provides the following sub menus to check for information and perform resets on the BDU:

 **Signal strength**

Show graphical representation of current signal strength and GPS type. Table below describes the available GPS type icons used in this sub menu:

	This icon shows that the BDU is in the process of acquiring a GPS fix when there is no previously stored GPS fix.
	This icon shows that the BDU is using New GPS coordinates.
	This icon shows that the BDU is using previously stored GPS coordinates.

 **GPS status**



---

Show current Latitude and Longitude coordinates, the GPS type and Time of acquisition on the BDU.

### **Terminal Info**

Display a list of information of the BDU.

- **Manufacturer**  
Manufacturer name of the BDU
- **Software version**  
Software version of the BDU
- **Model**  
Model name of the BDU
- **IMEI Number**  
IMEI number of the BDU
- **IMSI Number**  
IMSI number of the SIM card
- **Subscriber Number**  
Subscriber's telephone number
- **Serial Number**  
Serial number of the BDU.

### **ADU Info**

Display a list of information of the Antenna.

- **Serial Number**  
Serial number of the Antenna.
- **ATB SW version**  
Software number of the Antenna ATB.
- **ATB HW version**  
Hardware number of the Antenna ATB
- **HPA SW version**  
Software number of the Antenna HPA.
- **HPA HW version**  
Hardware number of the Antenna HPA.

### **Terminal restart**



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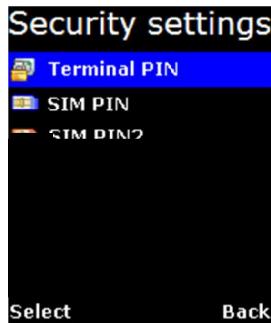
Soft restarting the BDU.

 **Limited reset**

Perform limited reset on the BDU. Apart from full factory reset that is not available in Primary Handset, limited reset only resets a small portion of the BDU settings. Stored GPS status, contacts, call logs and event logs are not cleared during limited reset.

You are also required to key in the password when performing the reset. The default password is 0000.

**Note: This password is the same as Terminal PIN.**

**Security settings Menu**

The **Security Settings** menu provides the following sub menus to configure the security settings of the BDU using different PIN:

**Terminal PIN****SIM PIN**

There are three options available for selection under each sub menus to manage the PIN and security settings for the BDU:

- **Enable**

Enable the selected PIN. Table below summarizes the default PIN codes for each security setting:

Terminal PIN	0000  <b>Note:</b> <b>Terminal PIN is the same PIN that has to be entered when performing Limited Reset on the BDU.</b>
SIM PIN	Depends on your SIM card. Consult your equipment distributor if necessary.  <b>Note:</b> <b>You have to enter the PUK (PIN Unblocking Key) to access the SIM card if a wrong PIN for SIM PIN has been entered for three times. You will be asked to enter the new PIN code once you have entered the correct PUK. However, the SIM card is no longer usable if you have entered wrong PUK for 10 times.</b>



---

You will be asked to key in the existing PIN (or default PIN if it has not been changed) before the PIN can be enabled.

- **Disable**

Disable the selected PIN. You will be asked to key in the existing PIN (or default PIN if it has not been changed) before the PIN can be disabled.

- **Change**

Change the PIN to a new one. You will be asked to key in the existing PIN (or default PIN if it has not been changed) before the PIN can be changed.

**Note:**

PIN has to be enabled before it can be changed.



### Phone manager Menu



The **Phone manager** menu provides the following sub menus to configure settings that are local to the Primary Handset:

#### **Display**

Configure settings that are related to Primary Handset display.

- **Backlight**

To set the duration of the display backlight to remain on. Settings range from Always On (Backlight permanently turned on), 15 seconds to 1 minute.

**Note: The backlight will be slightly dimmer and finally off when there is no keypad activity after sometime. However, this feature is not available when the setting is set to Always On.**

#### **Tone**

Configure tone setting for the standard and ring tones.

- **Standard tone**



---

- **Key tone**  
Contain options to enable/disable the key tone.
- **Message tone**  
Contain options to enable/disable the message tone.
- **Volume**  
Configure the volume for the standard tones (both key and message tones). Using the 4-way navigation ring  , press up/right to increase and down/left to decrease the volume.

- **Ring tone**
  - **Tone**  
Select desired ring tone pattern.
  - **Volume**  
Configure the volume of the ring tone. Using the 4-way navigation ring  , press up/right to increase and down/left to decrease the volume.

#### **Language**

Allow you to change the menu display language.

#### **Factory reset**

Allow you to configure default factory settings of the Primary Handset. Contains the following settings:

- **Factory reset**  
Perform factory reset on the Primary Handset

#### **About**

Display a list of information of the Primary Handset.

- ❖ **Model**  
Model name of the Primary Handset
- ❖ **Software version**  
Software version of the Primary Handset
- ❖ **Hardware version**



---

Hardware version of the Primary Handset

❖ **Copyright**

Contain Copyright message



---

## 5 USING THE WEB CONSOLE

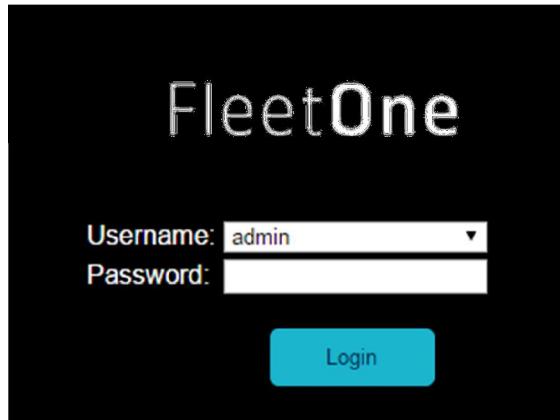
### 5.1 Register to the Network

- a. Connect your computer to the Fleet One using a LAN cable.
- b. When the connection has been established, open the web browser (for example: Internet Explorer, Google Chrome or Firefox.).



- c. Type **http://192.168.1.35** in the Address field.
- d. Username and Password will be prompted.

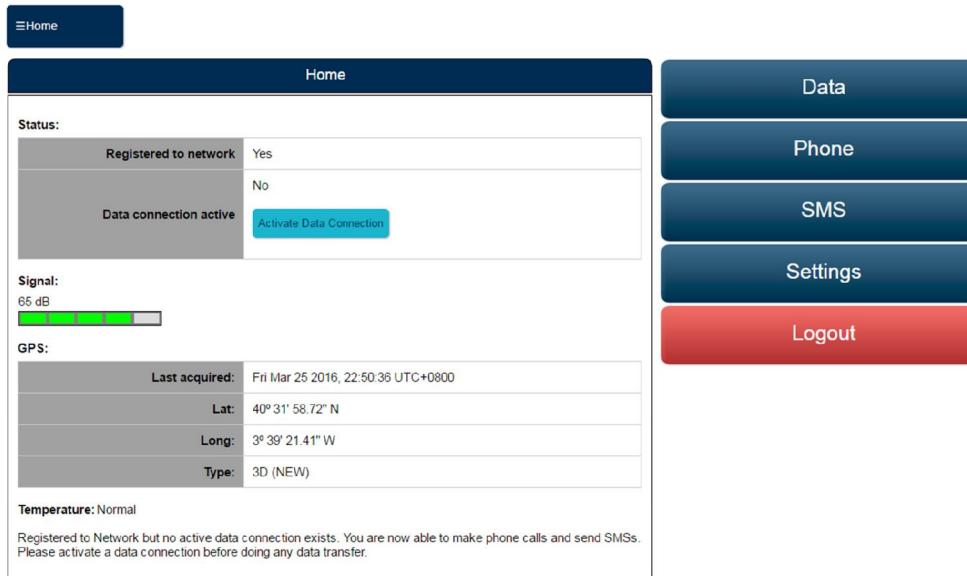
Default Username : **admin**  
Password : **1234**



- e. Click "Login" button after entering the Username and Password.



The BDU Web Console will appear on the screen.



**WARNING: If the signal strength is low (< 50 dB), check any obstruction against the antenna unit or the condition of antenna cable.**

The terminal will proceed automatically to “**Checking PIN status**” followed by “**Antenna Pointing**” and then registering to the network (upon power on). This process takes 1.5 to 2 minutes to complete.

Once the process is completed, you will see the following message appearing at the bottom line of the Web Console.

**“Registered to Network but no active data connection exists. You are now able to make phone calls and send SMSs. Please activate a data connection before doing any data transfer.”**

Upon successful registration, with 3 BDU's LED indicators (“**TERMINAL**”, “**ANTENNA**” and “**REGISTERED**”) lit in green, the UE will be ready for normal operation.

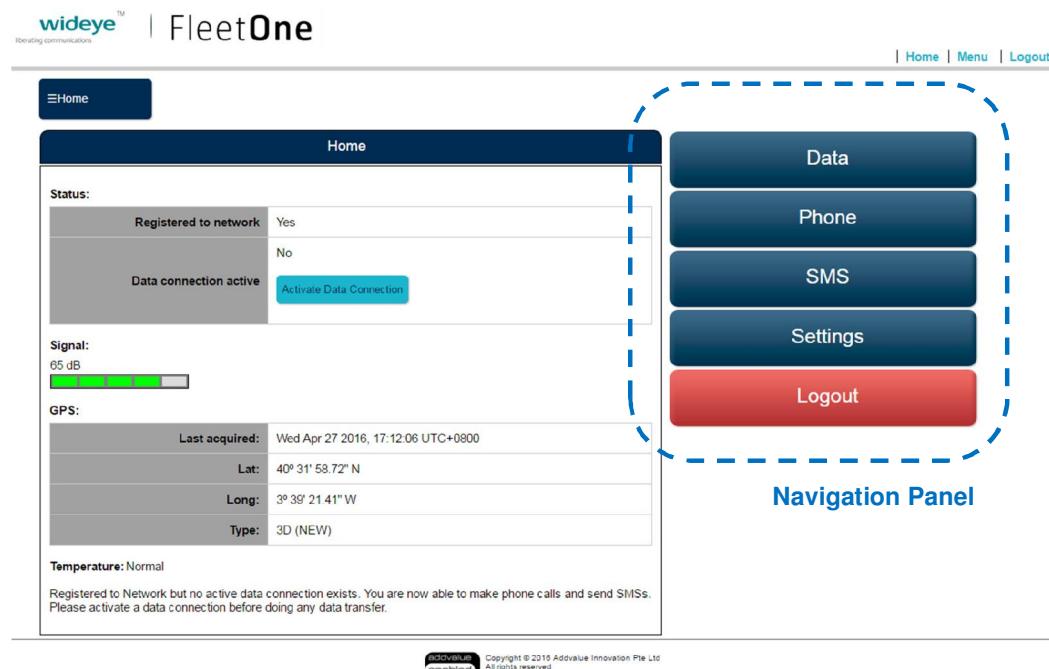


## 5.2 Navigating the Web Console

### 5.2.1 Web Console Overview

In the Web Console, there is a selection of “Home”, “Menu” and “Logout”.

- Click “Home”, the screen will display;



In Home page, it shows the Status, Signal Strength, GPS Status and Temperature.

Status	Indicates the status of network registration and data connection active (based on its activation or deactivation button).
Signal	Indicates the received signal strength (C/No in dB)
GPS	Indicates the last acquisition of date and time, latitude, longitude and type of GPS.
Temperature	Indicate the UE's current operating temperature status.

On the Navigation Panel, you can click a menu item of **Data**, **Phone**, **SMS**, **Settings** and **Logout**. More information of each menu item is described in the section of Navigation Panel.



---

b. Click “**Menu**”, the screen will display with the menu items;

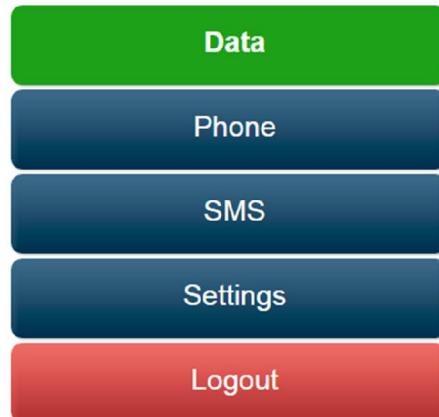


c. Click “**Logout**” which is self-explainable.

### 5.2.2 Navigation Panel

#### a. Data Menu

Click on **Data** Menu



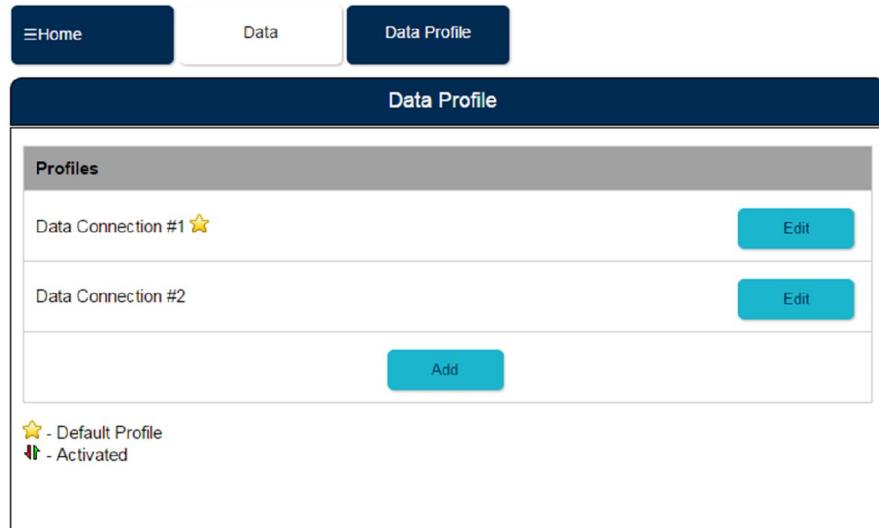


Data Menu provides the following options;



### **1. Data Profile**

Data profile defines the connection type. You can create your own customized profile. Click Data Profile



Click "Add" to create a new data profile.



---

Home      Data      Data Profile

**Data Profile**

**Profile Name:**

Profile Name:	<input checked="" type="checkbox"/> Set as default Data Connection #1
---------------	--

**Access Point Name (APN):**

<input checked="" type="radio"/> SIM	BGAN.INMARSAT.COM
<input type="radio"/> User Defined	<input type="text"/>
Static IP Address APN Username:	<input type="text"/> admin
Static IP Address APN Password:	<input type="text"/> .....

Please note that the 'username' and 'password' stated above are not those used to login to the WebConsole. They are those provided by your Service Provider for a static IP address subscription. If you do not have any such a subscription or if you are not sure, please leave them blank.

Update Settings    Delete    Cancel

### **Profile Name**

Change the profile name as desired.

### **Access Point Name (APN)**

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

Follow these steps to change the Access Point Name (APN):

- i. Select User Defined.
- ii. Enter the new APN in the field space provided (e.g. BGAN inmarsat.com).
- iii. Enter the Static IP Address APN username and password (provided by your Service Provider) if required. Otherwise please leave them blank if you do not subscribe the a static IP address.
- iv. Click Update Settings to save the data profile.



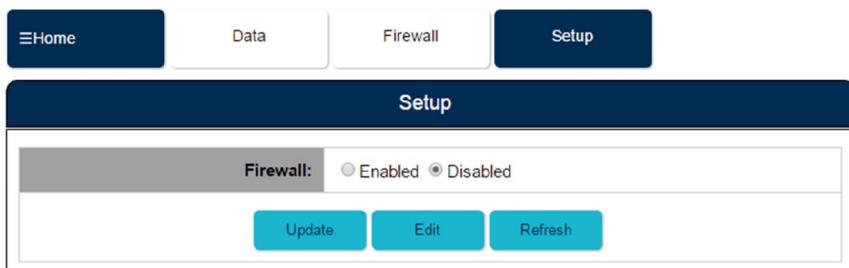
## 2. Firewall



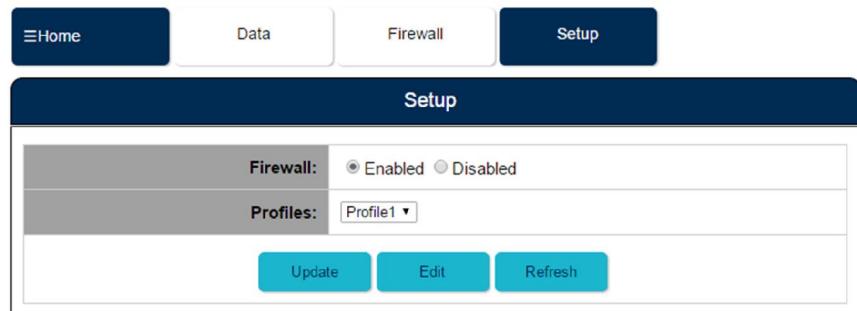
### Setup

Click **Setup**.

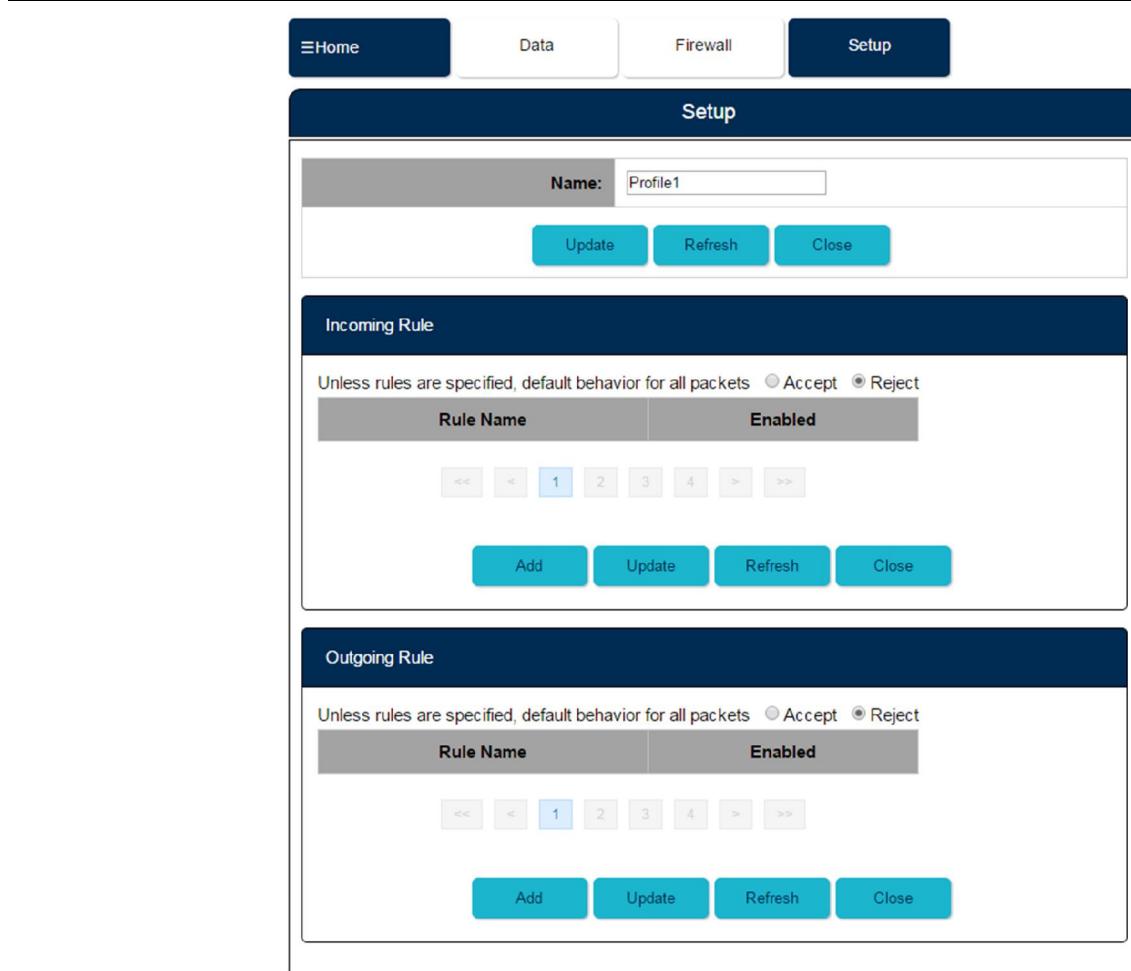
By default, the **Firewall** is disabled.



To enable Firewall, select **Enable** and click **Update**.



With a selected profile ( the maximum of 4 profiles ), click **Edit** to include the incoming rule and outgoing rule. Click both **Incoming Rule** and **Outgoing Rule** to expand.



The screenshot shows the Firewall setup interface. The top navigation bar includes Home, Data, Firewall, and Setup tabs. The Firewall tab is active. Below the tabs, there are two main sections: Incoming Rule and Outgoing Rule. Each section contains a table with columns for Rule Name and Enabled. The Incoming Rule section also features a page navigation bar with buttons for <<, <, 1, 2, 3, 4, >, and >>. At the bottom of each section are Add, Update, Refresh, and Close buttons.

**For Incoming Rule**, click **Add** to allow or reject incoming packets with type of protocol, source IP address and port, and destination IP address and port.



**Incoming Rule**

Rule Name:	Rule1
Protocol:	<input checked="" type="radio"/> TCP <input type="radio"/> UDP <input type="radio"/> ICMP <input type="radio"/> ANY
Source IP Address:	□ . □ . □ . □ / □
Source Port:	□ - □
Destination IP Address:	□ . □ . □ . □ / □
Destination Port:	□ - □
Action:	<input checked="" type="radio"/> Allow <input type="radio"/> Reject

**Note:** IP Addresses, Ports with value 0 means ANY.  
eg. IP (0.0.0.0 / 0) means ANY IP, Port (0 - 0) means ANY Port.

Apply    Clear    Cancel

Click **Apply** to take effect.

**For Outgoing Rule**, click **Add** to allow or reject incoming packets with type of protocol, Source IP address and port, and Destination IP address and port.

**Outgoing Rule**

Rule Name:	Rule1
Protocol:	<input checked="" type="radio"/> TCP <input type="radio"/> UDP <input type="radio"/> ICMP <input type="radio"/> ANY
Source IP Address:	□ . □ . □ . □ / □
Source Port:	□ - □
Destination IP Address:	□ . □ . □ . □ / □
Destination Port:	□ - □
Action:	<input checked="" type="radio"/> Allow <input type="radio"/> Reject

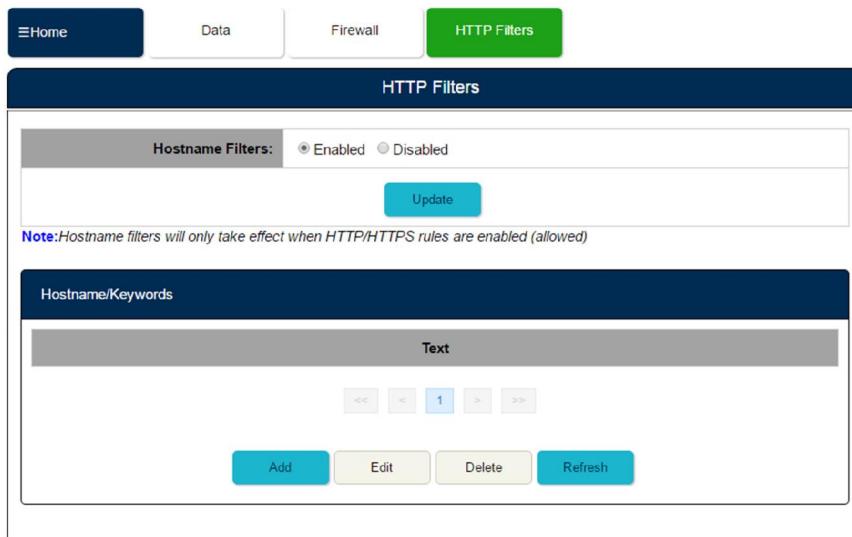
**Note:** IP Addresses, Ports with value 0 means ANY.  
eg. IP (0.0.0.0 / 0) means ANY IP, Port (0 - 0) means ANY Port.

Apply    Clear    Cancel

Click **Apply** to take effect.

## HTTP Filters

Select option **Enabled** and then click **Update**.



Hostname Filters:  Enabled  Disabled

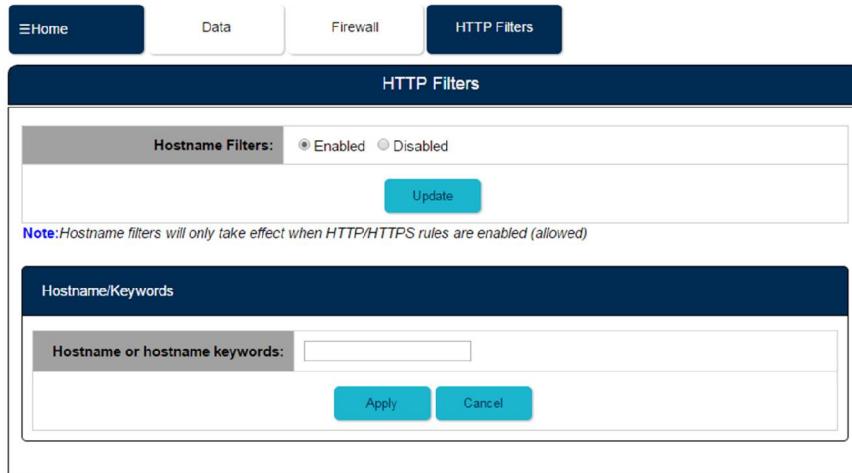
Update

**Note:** Hostname filters will only take effect when HTTP/HTTPS rules are enabled (allowed)

Hostname/Keywords	Page
Text	1

Add Edit Delete Refresh

To block any keyword in the content of accessing page, click **Add** with the keywords in the field and then **Apply** to take effect.



Hostname Filters:  Enabled  Disabled

Update

**Note:** Hostname filters will only take effect when HTTP/HTTPS rules are enabled (allowed)

Hostname/Keywords
Hostname or hostname keywords: <input type="text"/>

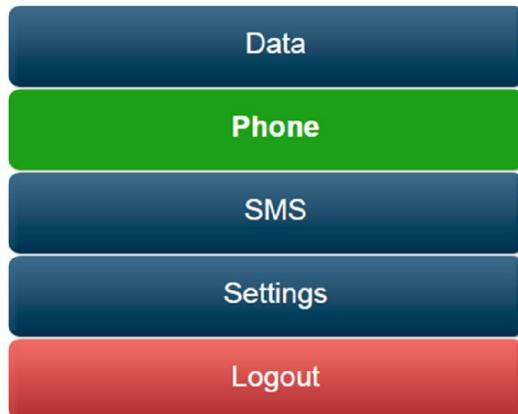
Apply Cancel



---

### b. Phone Menu

Click on **Phone** menu



The **Phone** menu has the following options;



#### 1. Phonebook

- The Phonebook entries can be stored on either SIM card or Terminal
- It allows you to view, add, edit and delete entries on the Phonebook list.
- You can make and send SMS messages directly from your Phonebook entries.

<<, <, 1, 2, 3, 4, 5, >, >>) are at the bottom, along with buttons for Add, Edit, Delete, Send SMS, and Refresh." data-bbox="315 140 865 389"/>

Phonebook

View option		Storage Usage	Terminal - 0/100)	
		All	SIM Only	Terminal Only
Name	Phone no.			
<p>&lt;&lt; &lt; 1 2 3 4 5 &gt; &gt;&gt;</p>				
<b>Add</b>	<b>Edit</b>	<b>Delete</b>	<b>Send SMS</b>	<b>Refresh</b>

#### **View option**

The View option allows you to view the Phonebook entries from the different storage locations.

From the drop-down menu, select:

SIM Only	To view the entries stored in the SIM card.
Terminal Only	To view the entries stored in the Fleet One BDU.
All	To view the entries stored in the SIM card and Fleet One BDU.

#### **Storage Usage**

Shows the number for Phonebook entries used in the SIM card and Terminal locations.

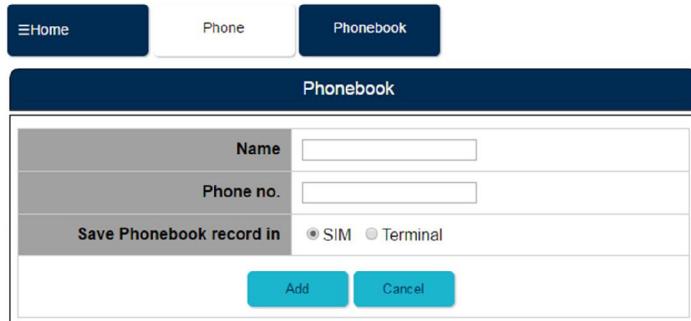
For example: **(SIM - 2/250)** indicates:

Storage location : **SIM card**  
Total number of entries used : **2**  
Total number of entries available : **250**

Likewise for **(Terminal - 0/100)**

#### **Adding a new Phonebook entry**

- i. Click **Add**.
- ii. Enter the Name and Phone number.
- iii. Select the storage location and click **Add**.



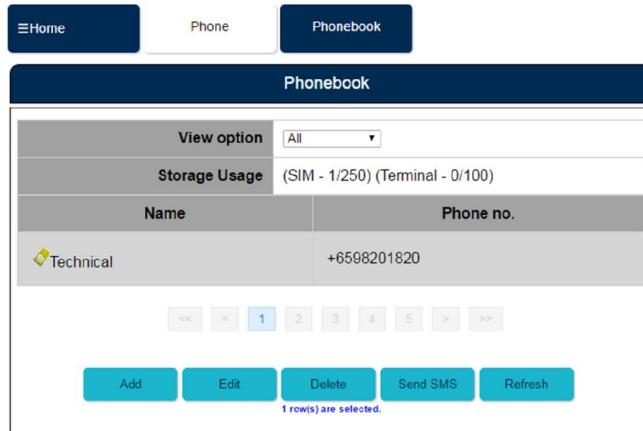
Phonebook

Name	<input type="text"/>
Phone no.	<input type="text"/>
Save Phonebook record in	<input checked="" type="radio"/> SIM <input type="radio"/> Terminal

Add Cancel

#### **Editing a Phonebook entry**

- i. Select the entry from the Phonebook list.
- ii. Click **Edit** to change **Name** and/or **Phone no.**

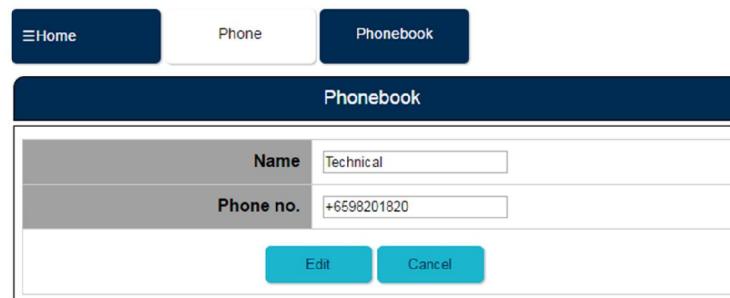


Phonebook

Name	Phone no.
Technical	+6598201820

Add Edit Delete Send SMS Refresh

Click **Edit** to take effect.



Phonebook

Name	<input type="text" value="Technical"/>
Phone no.	<input type="text" value="+6598201820"/>

Edit Cancel

#### **Deleting a Phonebook entry**

- i. Select the entry from the Phonebook list.
- ii. Click **Delete**.



☰Home      Phone      Phonebook

**Phonebook**

View option		All
Storage Usage (SIM - 1/250) (Terminal - 0/100)		
Name	Phone no.	
◆ Technical	+659821820	

<< < 1 2 3 4 > >>

Add Edit Delete **Send SMS** Refresh

1 row(s) are selected.

### Sending SMS from the Phonebook

Follow these steps to send SMS from the Phonebook:

- i. Select the entry from the Phonebook list.
- ii. Click **Send SMS**.
- iii. The Phonebook console switches over to the Compose SMS console, which will be covered in later section.

☰Home      Phone      Phonebook

**Phonebook**

View option		All
Storage Usage (SIM - 1/250) (Terminal - 0/100)		
Name	Phone no.	
◆ Technical	+659821820	

<< < 1 2 3 4 > >>

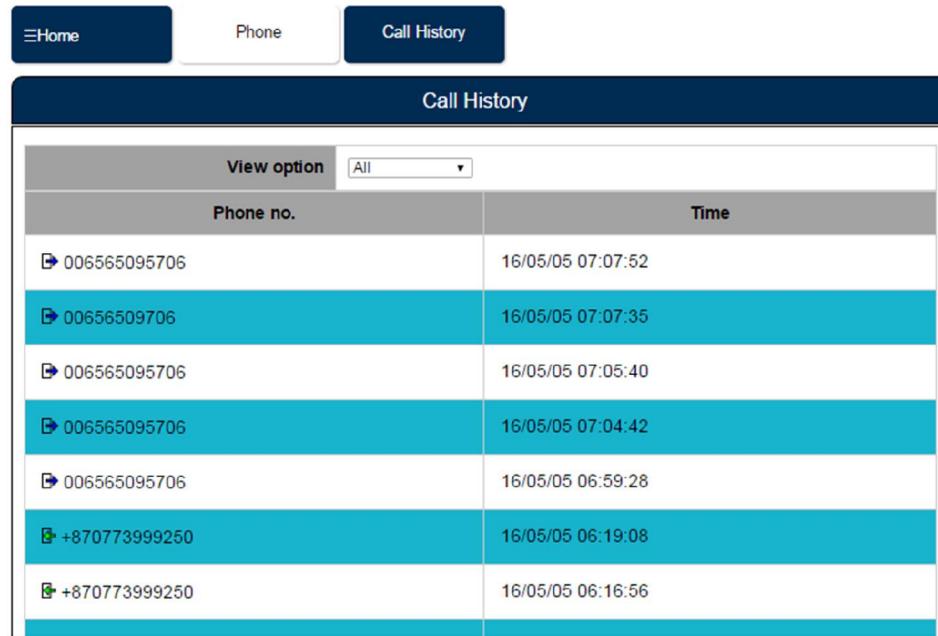
Add Edit Delete **Send SMS** Refresh

1 row(s) are selected.



## 2. Call History

To check history logs of calls made and received.



Call History	
View option	All
Phone no.	Time
006565095706	16/05/05 07:07:52
00656509706	16/05/05 07:07:35
006565095706	16/05/05 07:05:40
006565095706	16/05/05 07:04:42
006565095706	16/05/05 06:59:28
+870773999250	16/05/05 06:19:08
+870773999250	16/05/05 06:16:56

### View option

The View option allows you to view the Phonebook entries from the different storage locations.

From the drop-down menu, select:

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

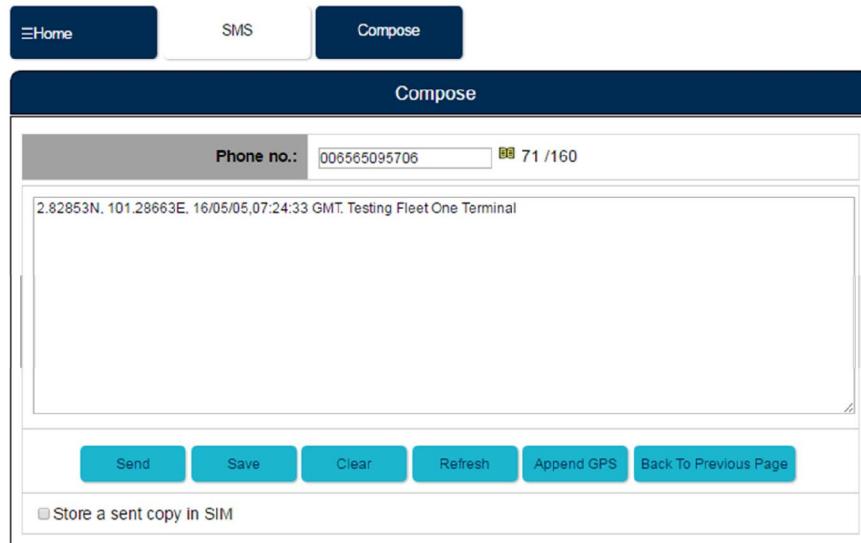
### Sending SMS from the Call History

Follow these steps to send SMS from the Phonebook:

- i. Select the entry from the Phonebook list.
- ii. Click **Send SMS**.
- iii. The Phonebook console switches over to the Compose SMS console.



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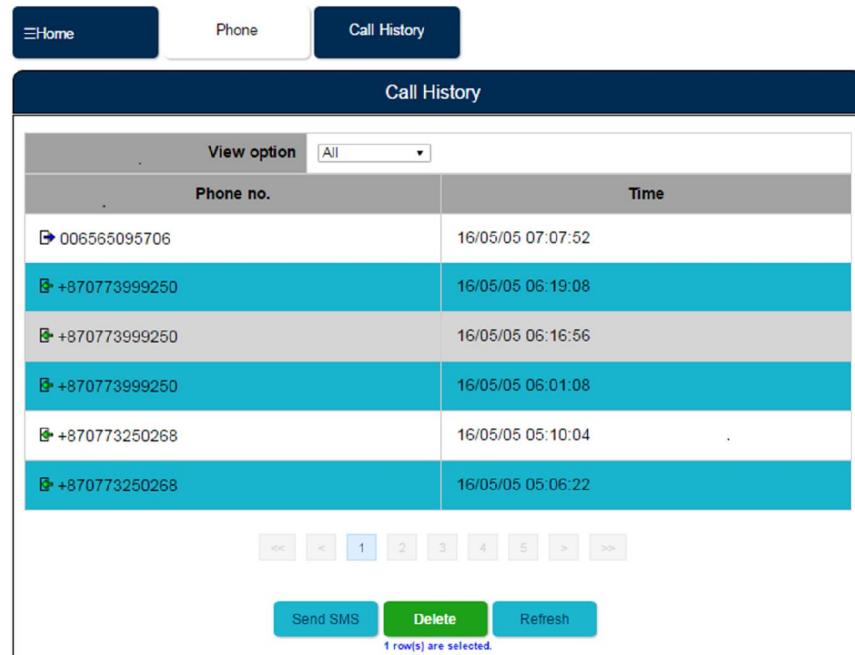


The screenshot shows the 'Compose' screen of the SATLINK FLEET ONE application. At the top, there are three buttons: 'Home', 'SMS', and 'Compose'. The 'Compose' button is highlighted. Below the buttons is a header bar with the word 'Compose' in white. The main area has a grey header with 'Phone no.: 006565095706' and a signal strength icon showing '71 /160'. Below this is a text input field containing the text '2.82853N, 101.28663E, 16/05/05,07:24:33 GMT. Testing Fleet One Terminal'. At the bottom of the screen are several buttons: 'Send', 'Save', 'Clear', 'Refresh', 'Append GPS', and 'Back To Previous Page'. There is also a checkbox labeled 'Store a sent copy in SIM'.

### **Deleting a Call History entry**

Follow these steps to delete a Call History entry:

- i. Select the entry from the Call History list.
- ii. Click **Delete**.



The screenshot shows the 'Call History' screen of the SATLINK FLEET ONE application. At the top, there are three buttons: 'Home', 'Phone', and 'Call History'. The 'Call History' button is highlighted. Below the buttons is a header bar with the word 'Call History' in white. The main area is a table with columns 'Phone no.' and 'Time'. The table contains the following data:

Phone no.	Time
006565095706	16/05/05 07:07:52
+870773999250	16/05/05 06:19:08
+870773999250	16/05/05 06:16:56
+870773999250	16/05/05 06:01:08
+870773250268	16/05/05 05:10:04
+870773250268	16/05/05 05:06:22

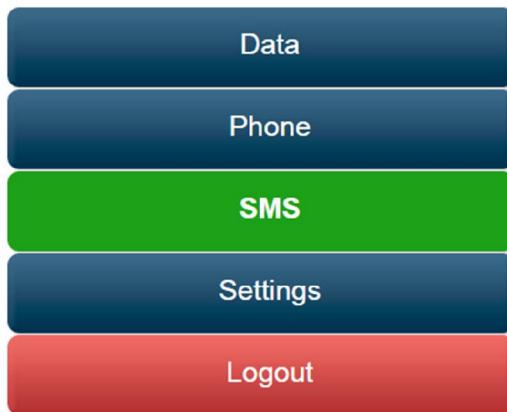
At the bottom of the screen are several buttons: 'Send SMS', 'Delete', and 'Refresh'. A message '1 row(s) are selected.' is displayed in the center.



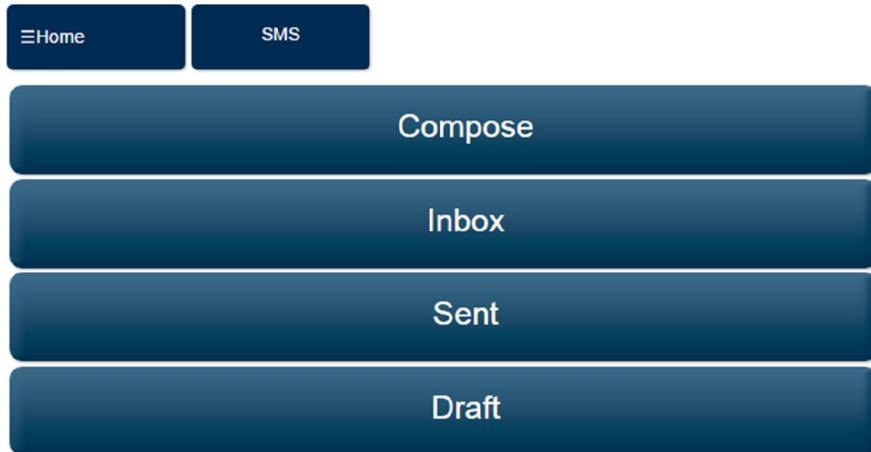
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### c. SMS Menu

Click on **SMS** Menu

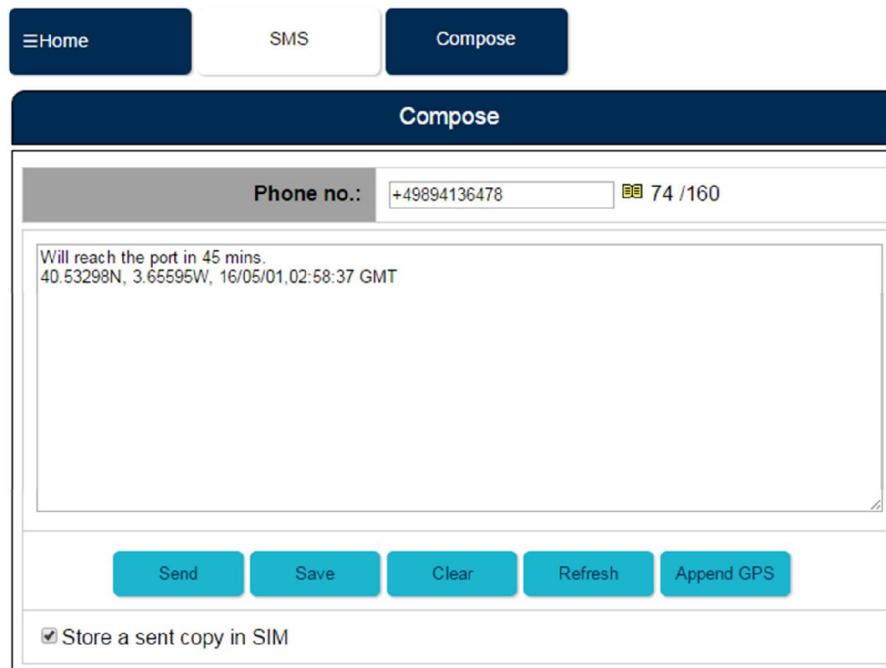


The **Phone** menu has the following options;



#### 1. Compose

To compose and send text messages.



- i. Simply enter a mobile number, type your message and click **Send**.
- ii. To save an unsent SMS, click the **Save** button and the unsent SMS will be saved in **Draft**.
- iii. To clear the typed message on the text editor, click **Clear** button.
- iv. To get update phone list from SIM card or terminal, click **Refresh**.
- v. To include the GPS information in SMS automatically, click **Append GPS** button.



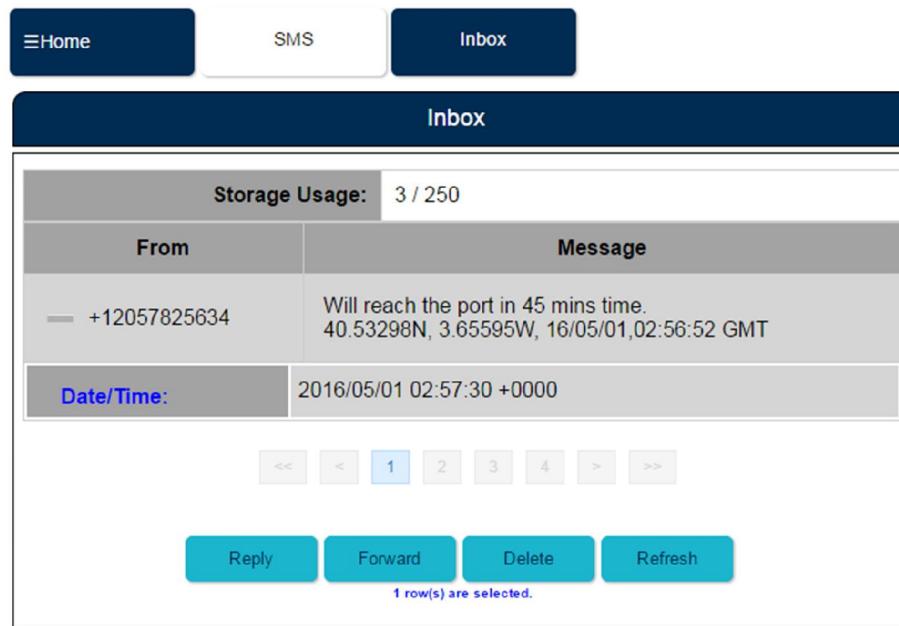
*Message is limited to 160 characters (using 7 bit encoded default alphabets) including spaces between words. But it is limited to 70 characters per message using Unicode (UCS2) text message (such as message typed in Chinese, Japanese, etc).*

*For sending a long SMS to another BGAN transceiver, the message is limited to 608 characters (using 7 bit encoded default alphabet) or 266 characters using Unicode (UCS2) text messages including spaces between words.*

*If you do not wish to store a copy of the sent SMS into SIM card, uncheck “**Store a copy in the SIM**”.*

## 2. Inbox

Shows the details (Sender information, Message, Date and Time stamp) of all SMS received



Storage Usage: 3 / 250

From	Message
+12057825634	Will reach the port in 45 mins time. 40.53298N, 3.65595W, 16/05/01,02:56:52 GMT

Date/Time: 2016/05/01 02:57:30 +0000

<< < 1 2 3 4 > >>

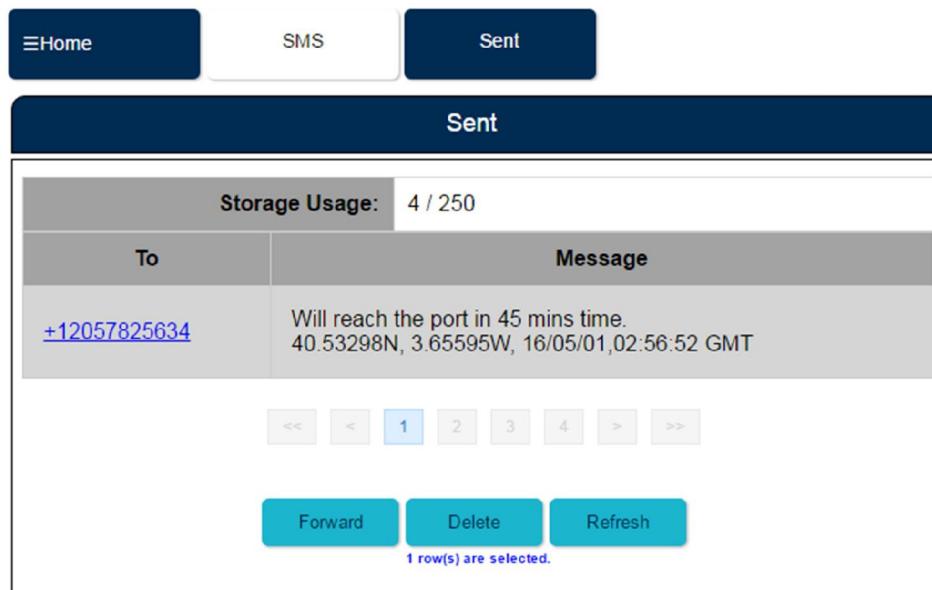
Reply Forward Delete Refresh

1 row(s) are selected.

- i. To reply, simply click a SMS to select it and click **Reply**.
- ii. To forward, simply click a SMS to select it and click **Forward** with the receiver's mobile number.
- iii. To delete, select SMS(s) as the shaded grey areas and click **Delete**.
- iv. To update the message, click **Refresh** button.

### 3. Sent

Shows the details (Receiver information and Message, Date and Time stamp) of all SMS received



Storage Usage: 4 / 250	
To	Message
<a href="#">+12057825634</a>	Will reach the port in 45 mins time. 40.53298N, 3.65595W, 16/05/01, 02:56:52 GMT

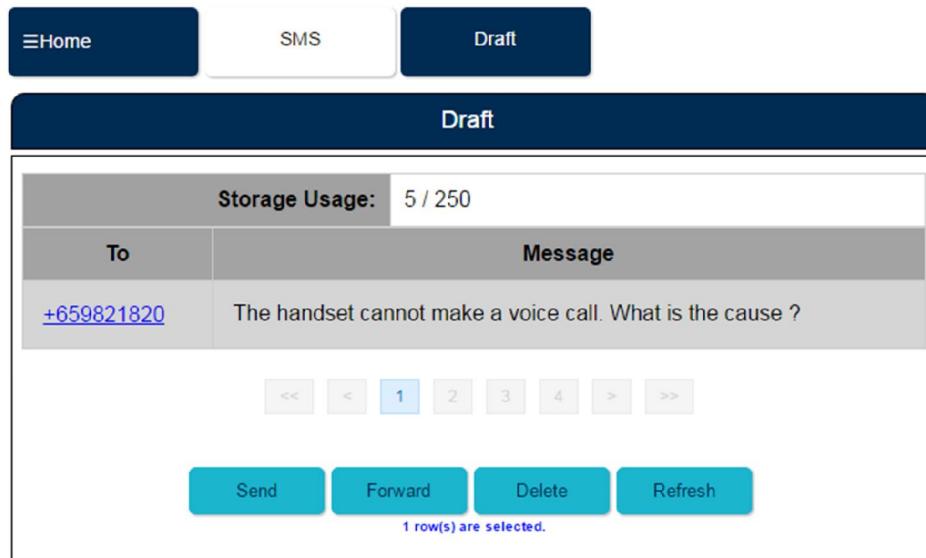
Forward   Delete   Refresh

1 row(s) are selected.

- i. To forward, simply click a SMS to select it as the shaded grey area and click **Forward** with the receiver's mobile number.
- ii. To delete, select message(s) as the shaded grey areas and click **Delete**.
- iii. To update messages, click **Refresh** button.

#### 4. Draft

Stores SMS saved from the Compose console



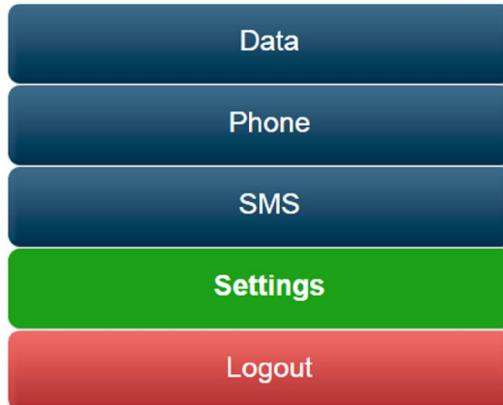
- i. To send, click a SMS to select it and then click **Send**.
- ii. To forward, click a SMS to select it and click **Forward** with the receiver's mobile number.
- iii. To delete, select message(s) as the shaded grey areas and click **Delete**.
- iv. To update messages, click **Refresh** button.



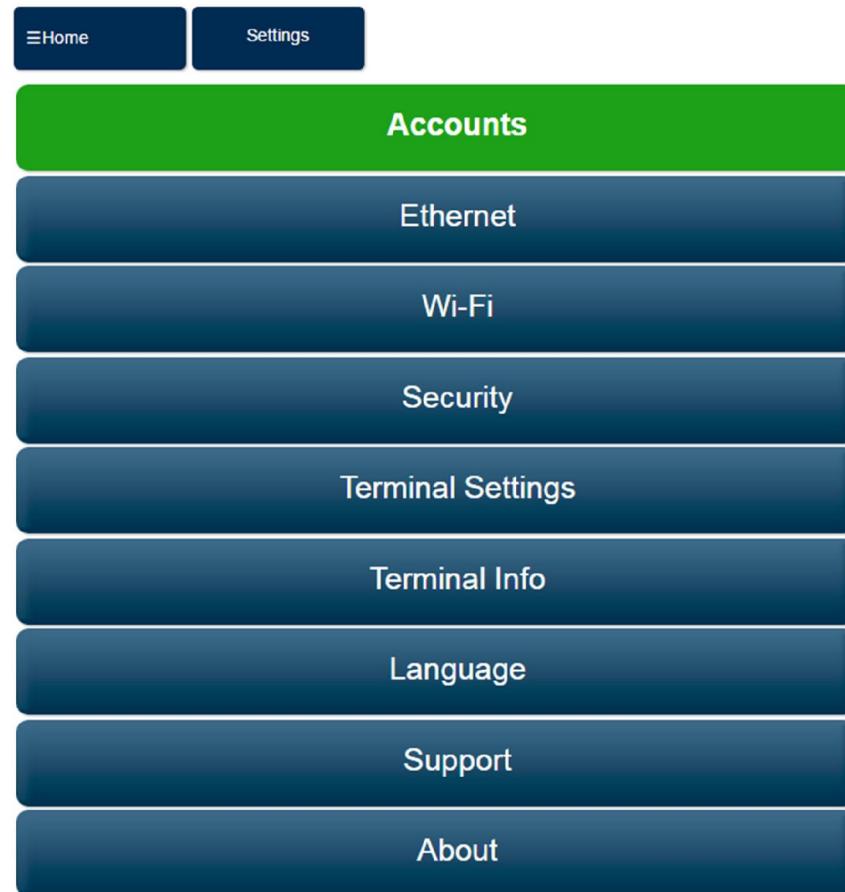
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#### d. Settings Menu

Click on **Settings** Menu



The **Settings** menu has the following options;

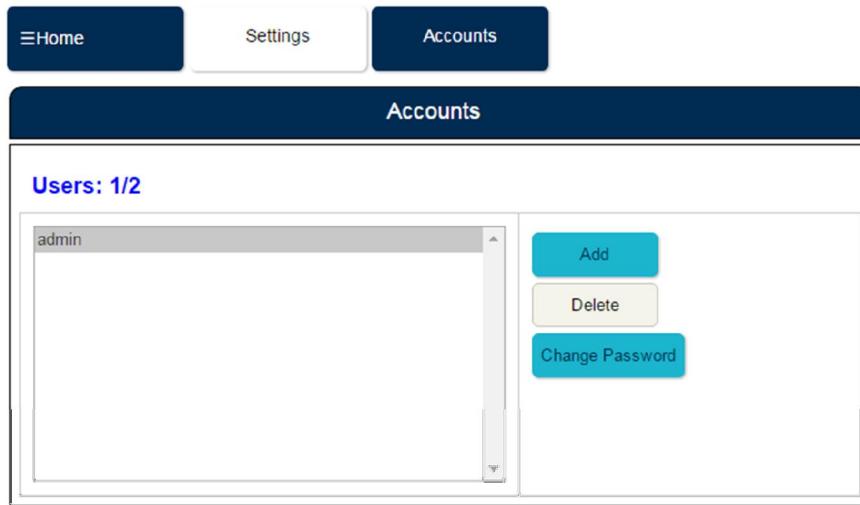




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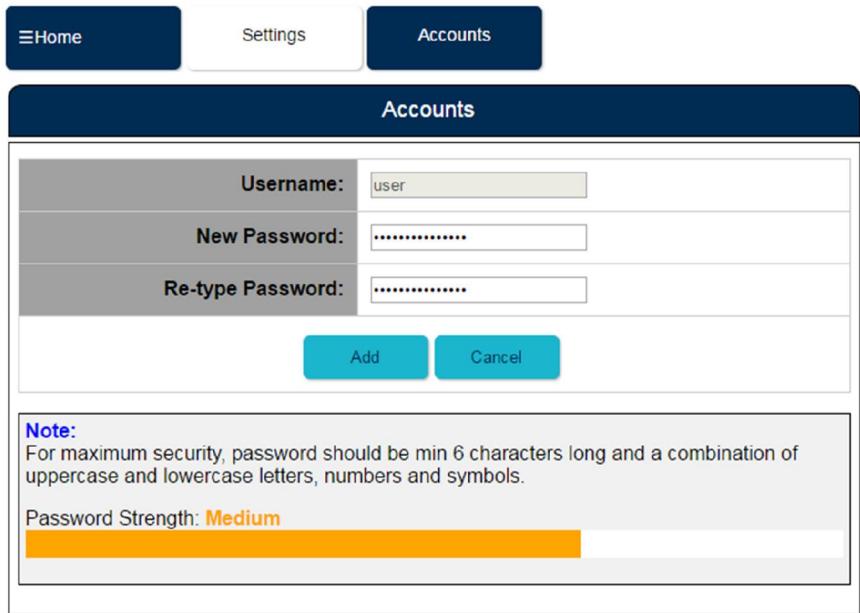
## 1. Accounts

To create new user account.



The screenshot shows the 'Accounts' section of the user interface. At the top, there are three buttons: 'Home' (dark blue), 'Settings' (light gray), and 'Accounts' (dark blue, selected). Below this is a dark blue header bar with the word 'Accounts' in white. The main content area is titled 'Users: 1/2' in blue. It contains a table with one row, showing the username 'admin'. To the right of the table are three buttons: 'Add' (blue), 'Delete' (gray), and 'Change Password' (blue).

Click **Add** to add a new user with new password.



The screenshot shows the 'Add' dialog box within the 'Accounts' section. At the top, there are three buttons: 'Home' (dark blue), 'Settings' (light gray), and 'Accounts' (dark blue, selected). Below this is a dark blue header bar with the word 'Accounts' in white. The main content area has three input fields: 'Username' (value: 'user'), 'New Password' (value: '.....'), and 'Re-type Password' (value: '.....'). Below these fields are two buttons: 'Add' (blue) and 'Cancel' (blue). At the bottom, there is a note: 'For maximum security, password should be min 6 characters long and a combination of uppercase and lowercase letters, numbers and symbols.' and a 'Password Strength: Medium' indicator with a yellow bar.

## 2. Ethernet

To disable or enable MAC Filtering with its settings.



Click **MAC Filtering** to view the MAC Filtering settings.



## MAC Filtering

Set the MAC Filtering configurations.



### MAC Filtering

<b>MAC Filtering:</b>	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled
<b>Use:</b>	<input checked="" type="radio"/> Reject List <input type="radio"/> Allowed List
<b>Reject List</b>	
11:22:33:44:55:66	<a href="#">Delete</a>
<input type="text"/>	<a href="#">Add</a>
<a href="#">Delete All</a>	

\*Your MAC Address: **98:76:54:32:10:12**

### Reject List

All PCs/Laptops will be allowed to access the terminal except for those (MAC addresses) listed in the Reject List.

### Allow List

All PCs/Laptops will be denied access to the terminal except for those (MAC addresses) listed in the Allow List. When selecting this list, at least one entry should be there to access the terminal.

- i. Select **Enabled** or **Disabled** to activate / deactivate the MAC Filtering.
- ii. Select **Reject List** or **Allowed List** and then add the MAC addresses.
- iii. Click **Update** to take effect.

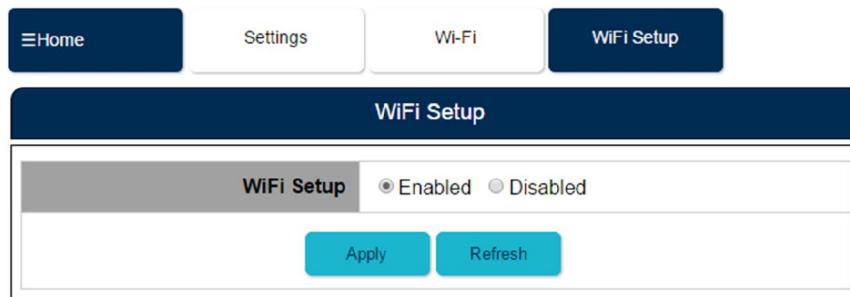


### 3. Wi-Fi

To configure the settings of Wi-Fi.



#### WiFi Setup



- i. Select **Enabled** or **Disabled** to activate / deactivate the Wi-Fi.
- ii. Click **Apply** to take effect.

#### System Info

Shows the information of Ethernet MAC Address, WLAN MAC Address and Software version.



Home      Settings      Wi-Fi      System Info

### System Info

Ethernet MAC Address	AA:BB:CC:DD:EE:FF
WLAN MAC Address	FF:EE:DD:CC:BB:AA
Software Version	WIFI_Emulator

### Wireless Settings

Home      Settings      Wi-Fi      Wireless Settings

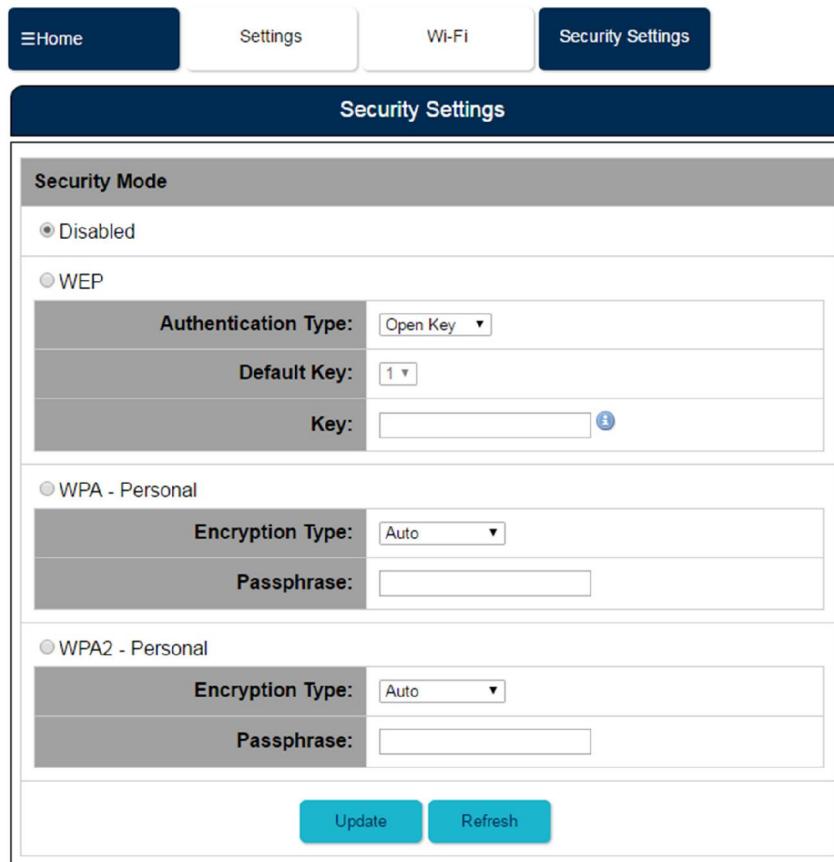
### Wireless Settings

Network Mode:	802.11b
Network Name (SSID):	FleetOne
<input checked="" type="checkbox"/> Allow SSID Broadcast	
Channel:	Auto
<b>Update</b> <b>Refresh</b>	

- i. Choose ideal **Network Mode** and **Channel**.
- ii. If required, **Network Name (SSID)** can be set or renamed by user.
- iii. Click **Update** to take effect

### Security Settings

To configure the security settings of Wi-Fi.



Security Settings

Security Mode

Disabled

WEP

Authentication Type: Open Key

Default Key: 1

Key:

WPA - Personal

Encryption Type: Auto

Passphrase:

WPA2 - Personal

Encryption Type: Auto

Passphrase:

Update Refresh

- i. Select the type of Security Mode; **WEP**, **WPA - Personal** or **WPA2 - Personal**.
- ii. Select the **Authentication / Encryption** Type and type **Key** or **Passphrase**.
- iii. Click **Update** to take effect

#### 4. Security



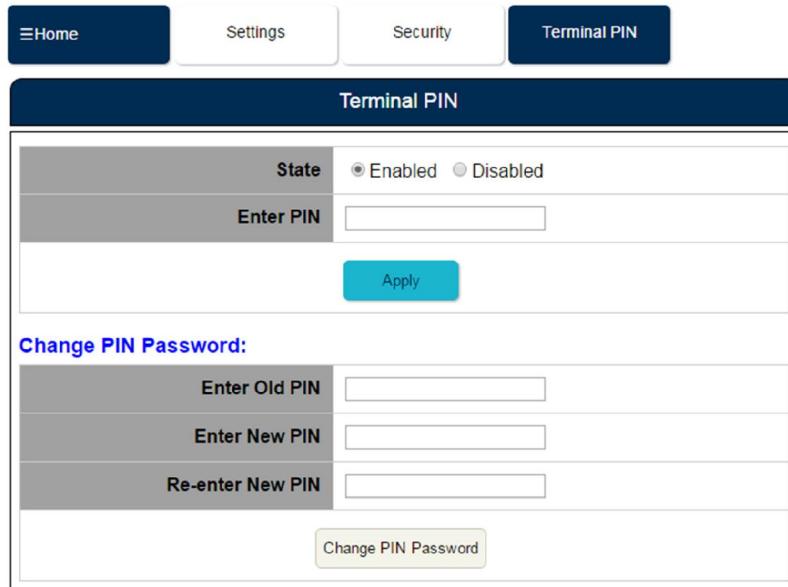
Terminal PIN

SIM PIN



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### Terminal PIN



Terminal PIN

<b>State</b>	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled
<b>Enter PIN</b>	<input type="text"/>
<b>Apply</b>	
<b>Change PIN Password:</b>	
<b>Enter Old PIN</b>	<input type="text"/>
<b>Enter New PIN</b>	<input type="text"/>
<b>Re-enter New PIN</b>	<input type="text"/>
<b>Change PIN Password</b>	

- i. Select **Disabled** if you do not need to set Terminal PIN.
- ii. Select **Enabled** to set the Terminal PIN and then enter PIN number in **Enter PIN** field.
- iii. Click **Apply** to take effect.

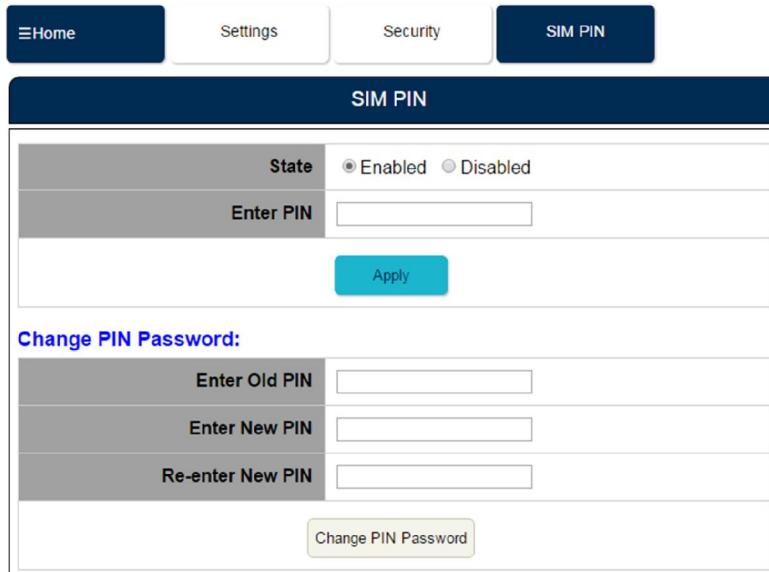
**For changing the Terminal PIN,**

- iv. Enter the old PIN number with new PIN.
- v. Re-enter the new PIN and click **Change PIN password**.



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## SIM PIN



Home      Settings      Security      SIM PIN

**SIM PIN**

State	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled
Enter PIN	<input type="text"/>
<b>Apply</b>	
<b>Change PIN Password:</b>	
Enter Old PIN	<input type="text"/>
Enter New PIN	<input type="text"/>
Re-enter New PIN	<input type="text"/>
<b>Change PIN Password</b>	

- i. Select **Disabled** if you do not need to set SIM PIN.
- ii. Select **Enabled** to set the SIM PIN and then enter PIN number in **Enter PIN** field.
- iii. Click **Apply** to take effect.

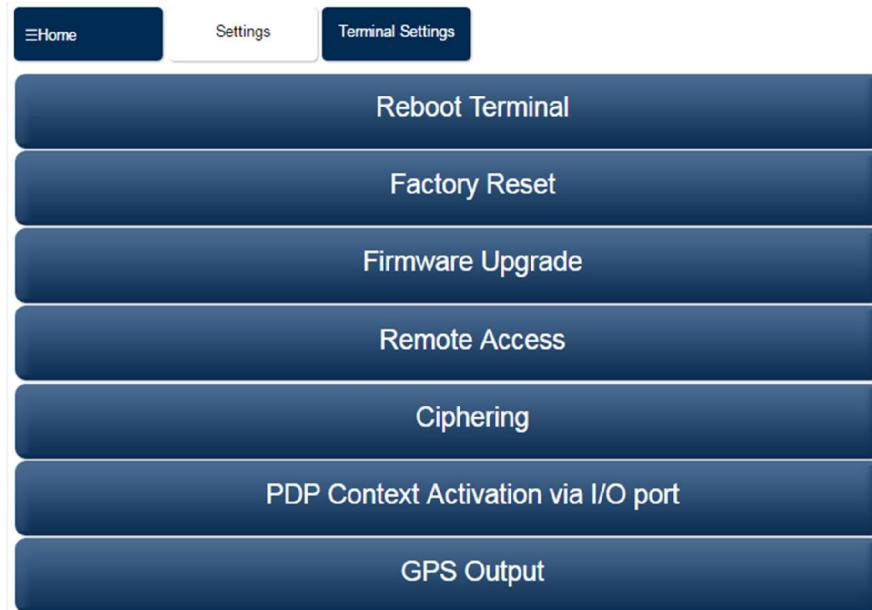
**For changing the SIM PIN,**

- iv. Enter the old PIN number with new PIN.
- v. Re-enter the new PIN and click **Change PIN password**.

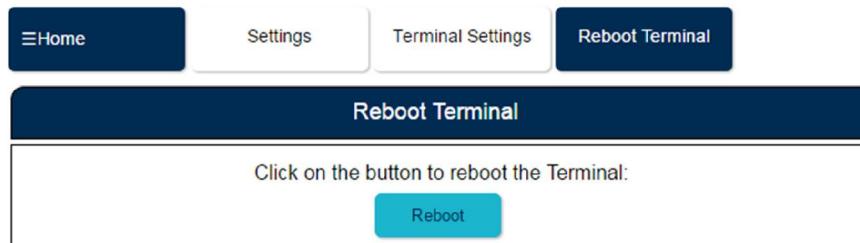


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## 5. Terminal Settings



### Reboot Terminal



- i. Click **Reboot** to take effect.



## Factory Reset

Home      Settings      Terminal Settings      Factory Reset

### Factory Reset

Security code:

Factory Reset

**NOTE:**  
Executing "Factory Reset" will reset all of the system configuration settings to default values and clear all user data from the non-volatile memory.

- i. To perform **Factory Reset**, enter **0000** in the Security Code field.
- ii. Click **Factory Reset** to take effect.



**WARNING:** Factory Reset will set all of the system configuration settings to default values and clear all user data from the non-volatile memory.

## Firmware Upgrade

Firmware upgrade is to update the Fleet One BDU with the latest firmware. Please refer to your respective distributor for your firmware download.

Home      Settings      Terminal Settings      Firmware Upgrade

### Firmware Upgrade

Need to reboot in the Firmware Upgrade Mode (Safe Mode). Please do it manually if reboot failed.

Firmware Upgrade

**Disclaimer**

**Please be informed that firmware upgrading is done at your own risk and the equipment manufacturer will not be held responsible for any possible malfunction or damage to the system due to upgrading the firmware.**

**If you encounter any problems or have any questions, please contact the equipment distributor for technical support.**

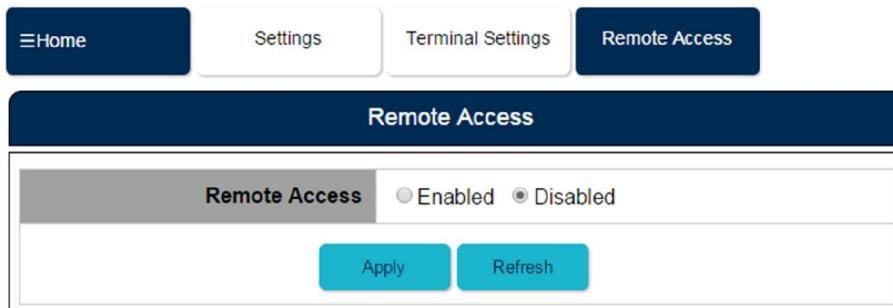


**WARNING:** Do not abort the upgrading process or unplug the power of the BDU during the firmware upgrade process at any time. Doing so will corrupt the existing firmware loading onto the BDU.

- i. Download or acquire the new firmware from your respective distributor and save it in your computer's hard drive.
- ii. Read the Disclaimer message carefully before proceeding with the Firmware Upgrade.
- iii. Click **Firmware Upgrade** and follow instructions.

### Remote Access

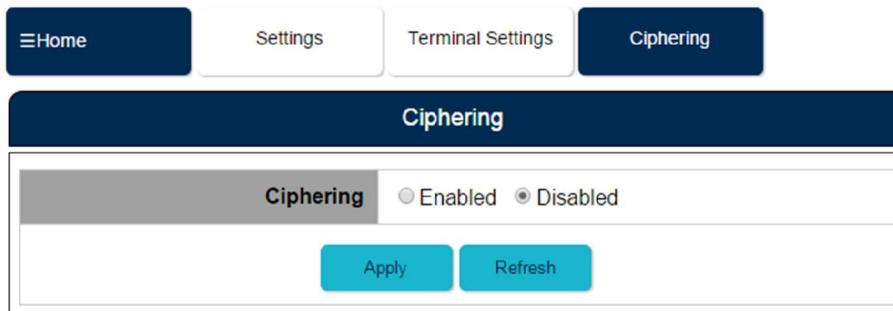
By enabling the Remote Access option, an user can remotely (from shore) access the terminal's web console via internet.



- i. To enable or disable remote access, select option **Enabled** or **Disabled** respectively.
- ii. Click **Apply** to take effect..

### Ciphering

Enabling the **Ciphering** option will make the terminal to exchange voice and data in secure mode by encrypting them over the air





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- i. To enable/disable the **Ciphering**, select the option **Enabled** or **Disabled** respectively
- ii. Click **Apply** to take effect.

### PDP Context Activation via I/O port

The PDP Context Activation via I/O Port allows to the activation of the Data Connection External Switch.



- i. To enable/disable the **PDP Context Activation via I/O port**, select the option **Enabled** or **Disabled** respectively.
- ii. Click **Apply** to take effect.



**WARNING:** The **Enabled** option of **PDP Context Activation via I/O port** allows the data connection switch to override the activation and deactivation of data connection set on the Web Console.

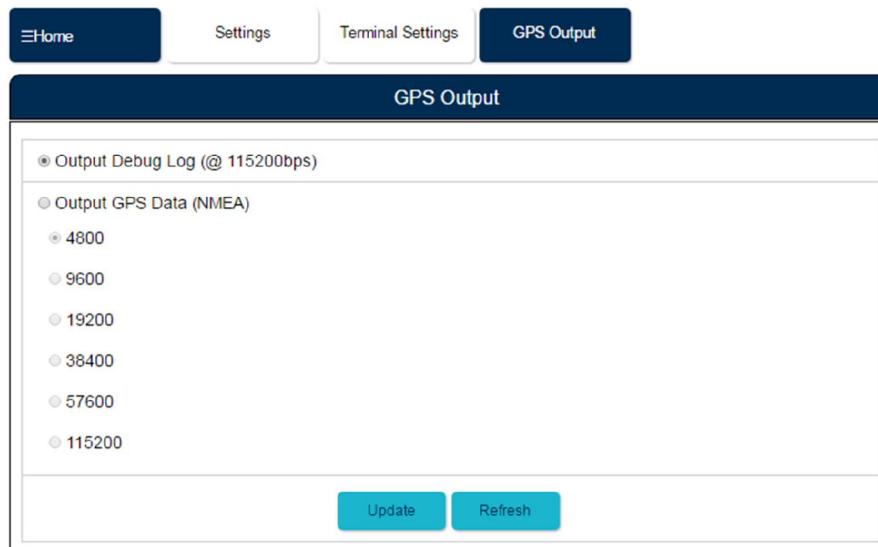


## GPS Output

By default, the Fleet One BDU outputs the GPS data in NMEA format at 4800 kbps via a serial cable (which is not included in the package). There are other options of 9600, 19200, 38400, 57600 and 115200 kbps to be selected.



For collecting the debug log messages as to diagnose the system, the **Output Debug Log** is to be selected as the debug mode. As the debug mode is not required for a normal end-user, it is recommended to leave the option unchecked.



GPS Output

Output Debug Log (@ 115200bps)

Output GPS Data (NMEA)

4800

9600

19200

38400

57600

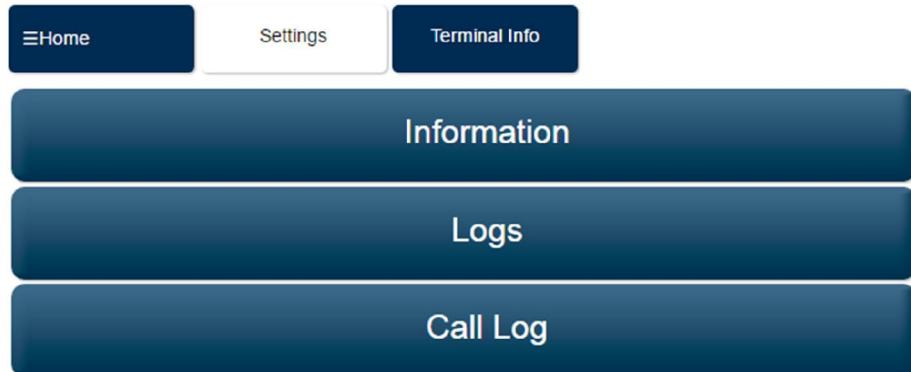
115200

Update Refresh



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## 6. Terminal Info



### Information

Displays information about the Manufacture ID, Software Version, Hardware Version, Model ID, IMEI number, IMSI number (only when a SIM card is inserted), Subscriber number, Serial number and Ethernet MAC Address.

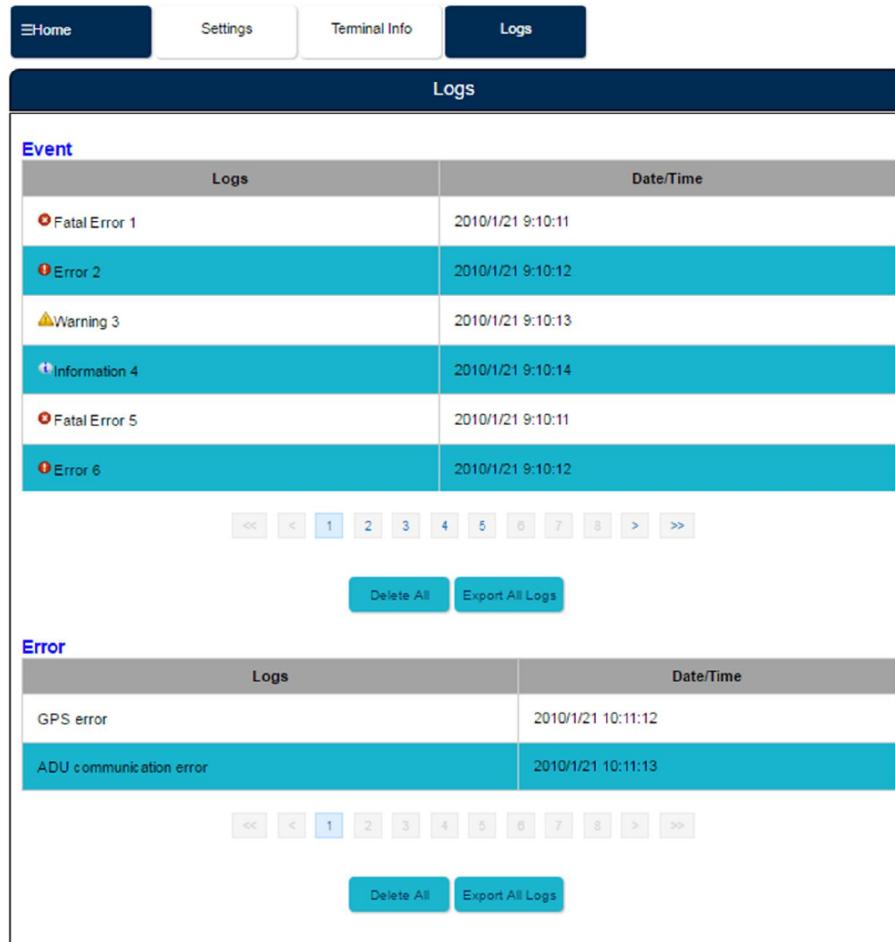
The screenshot shows a table with 10 rows of device information. The columns are 'Parameter' and 'Value'. The parameters listed are: Manufacture ID, Software Version, Hardware Version, Model ID, IMEI Number, IMSI Number, Subscriber Number, Serial Number, and Ethernet MAC Address. The values are: Addvalue, R00.1.0.16, 1, FleetOne, 352142061000026, 901112114509227, (empty), ABFV21A161510002, and 00:0B:68:02:03:FE.

Parameter	Value
Manufacture ID:	Addvalue
Software Version:	R00.1.0.16
Hardware Version:	1
Model ID:	FleetOne
IMEI Number:	352142061000026
IMSI Number:	901112114509227
Subscriber Number:	
Serial Number:	ABFV21A161510002
Ethernet MAC Address:	00:0B:68:02:03:FE



## Logs

Displays event and error logs of the terminal.



**Event**

Logs	Date/Time
🔴 Fatal Error 1	2010/1/21 9:10:11
🔴 Error 2	2010/1/21 9:10:12
⚠ Warning 3	2010/1/21 9:10:13
ⓘ Information 4	2010/1/21 9:10:14
🔴 Fatal Error 5	2010/1/21 9:10:11
🔴 Error 6	2010/1/21 9:10:12

<< < 1 2 3 4 5 6 7 8 > >>

**Delete All** **Export All Logs**

**Error**

Logs	Date/Time
GPS error	2010/1/21 10:11:12
ADU communication error	2010/1/21 10:11:13

<< < 1 2 3 4 5 6 7 8 > >>

**Delete All** **Export All Logs**

- i. Click **Export All Logs** so that the system log file will be saved in the computer.
- ii. Send the system log file to your distributor for troubleshooting.

## Call Log



Displays event and error logs of the terminal.



The screenshot shows the 'Call Log' and 'Data Log' sections of the Satlink Fleet One User Interface. The 'Call Log' section displays a list of recent calls with columns for Phone no., Call Service, Call Type, and Date/Time. The 'Data Log' section displays a list of data sessions with columns for Connection Type, Date/Time, Duration, Volume (Upload/Download), and Uplink/Downlink Bitrate (kbps). Both sections include navigation buttons for page selection.

Phone no.	Call Service	Call Type	Date/Time
+6591132319	Standard	Incoming	2013/11/21 10:52:15
006591132319	Standard	Outgoing	2013/11/21 10:51:43
+6591132319	Standard	Incoming	2013/11/21 10:51:07
006591132319	Standard	Outgoing	2013/11/21 10:50:29
006591550204	Standard	Outgoing	2013/11/21 10:13:58
+6591550204	Standard	Incoming	2013/11/21 10:13:19

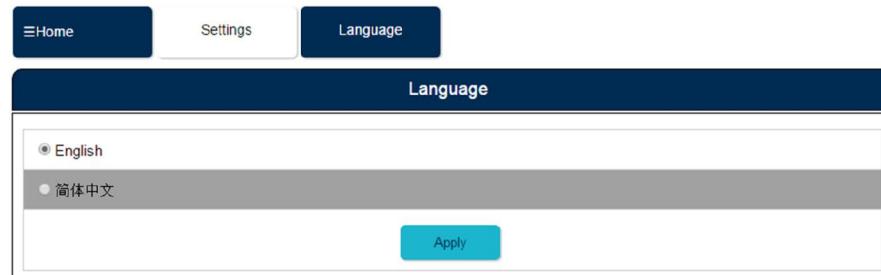
Connection Type	Date/Time	Duration	Volume (Upload/Download)	Uplink/Downlink Bitrate (kbps)
Background	2013/11/21 11:02:55	000:05:03:19	1.64 MB / 3.32 MB	Dynamic / Dynamic
Background	2013/11/21 10:22:09	000:00:25:30	10.49 MB / 10.96 MB	Dynamic / Dynamic
Streaming	2013/11/21 09:58:31	000:00:22:20	4.71 MB / 4.10 MB	64 / 64
Streaming	2013/11/21 09:57:35	000:00:00:07	0 byte / 0 byte	32 / 32

- i. Under **Call Log**, click “+” on any call log to expand it with more information of its duration and cause.
- ii. Under **Data Log**, click “+” on any call log to expand it with more information of its IP Address, APN and cause.

## 7. Language



To change the menu display in available language.



- i. Select the desired language available in the Web Console.
- ii. Click **Apply** to take effect.

## 8. Support

Displays the information of Inmarsat Distribution Partner name, contact information of support (phone number and email address) and the URL links of support and services.

## 9. About

Displays the copyright statement with Enabled logo

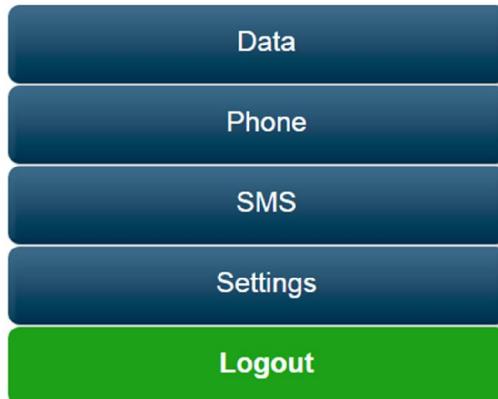




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#### e. Logout Menu

Click on **Logout** Menu and it will return to the screen where you are required to login again.



## 6 GLOSSARY

<b>ADU</b>	Above Decks Unit
<b>APN</b>	Access Point Name
<b>ATB</b>	Antenna Tracking Board
<b>BDU</b>	Below Decks Unit
<b>DC</b>	Direct Current
<b>FTP</b>	File Transfer Protocol
<b>GPS</b>	Global Position System
<b>GPIO</b>	General Purpose Input / Output
<b>HPA</b>	High Power Amplifier
<b>IP Data</b>	Internet Protocol Data
<b>NAT</b>	Network Address Translation
<b>PAT</b>	Port Address Translation
<b>PDP</b>	Packet Data Protocol
<b>PIN</b>	Personal Identification Number
<b>SIM</b>	Subscriber Identity Module