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**EN** **Operating and Installation Manual**  
**Sattrans Wi-Fi CommStation**  
for Iridium Satellite Phones  
- Extreme (9575)  
- 9555



# Sattrans Wi-Fi CommStation

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## 1. Important Notes

Dear Customer,

Thank you for choosing this high-quality product manufactured by BURY and exclusively distributed worldwide by SATTRANS Group. This device will allow to extend functions of your satellite telephone in the places where there is no coverage area of traditional GSM network. SATTRANS Wi-Fi CommStation for Iridium provides the following main features:

1. **Router** with AP (Access Point) - max 10 users can be connected at the same time.
2. **PBX** (Private Branch Exchange) - private branch exchange offers all functions which are necessary for the users in small offices for conducting daily voice communication and data exchange allows to create internal telephone network for a few users – for 10 persons maximum:
  - **VoIP** gateway (Voice over Internet Protocol) allowing to receive/make voice calls inside and outside the internal network (via satellite phone) between sip client and Iridium network.
  - **sms** functionality (sms message from sip client to Iridium networks and redirect sms from network to sip client).
3. Connection to the Internet from your mobile phone: e.g. smartphone, laptop, tablet.
4. Web browsing
5. Receiving/sending email

Please read this user manual before installing and using this product.

### Safety information

- This product should be installed so that its components do not interfere with operation and safety features of your vehicle, such as airbags, safety belts, windshield, etc.
- Do not attempt to operate this product if the cables, plugs or other components are defective.
- Please do not attempt to open, disassemble or repair the product as it could damage its components and make the warranty void.

### Important Notes

- Product's functionality and its performance should be tested when it is powered on.
- If the satellite phone is inserted correctly into the cradle, charging of the phone's battery starts as soon as the power is turned on.

### Installation Note

- All components for installation of this product are supplied in the retail box. No tools are provided with the product.

### Operating Notes

- Communication via the Iridium satellite network has several specific features, which are different from mobile phone communications. Such obstructions as tall buildings, trees, hills or mountains can block the reception and transmission of signals between the vehicle antenna and the satellites, thus decreasing the quality of calls or making them impossible. It is therefore recommended that

satellite calls be made in open areas, far from any obstructions. Before starting the call, please make sure the satellite signal level is sufficient.

- Sattrans Wi-Fi CommStation broadcasts a Wi-Fi network accessible within up to 20 m (~60 feet). However, the impact range (effective distance) can vary substantially depending on the placement of Sattrans Wi-Fi CommStation. For example, thicker or a great number of walls between the Wi-Fi CommStation and user devices will decrease the effective range of the CommStation.
- In order to get the best performance, the Wi-Fi CommStation should be placed:
  - In the middle of the area with Wi-Fi-enabled devices which will connect via Sattrans Wi-Fi CommStation, preferably at "the eye level" of these devices.
  - In the vicinity of an AC electric outlet and Ethernet cable ends of computers which connect wirelessly.
  - Away from electrical appliances which are potential sources of interference such as valve ceiling rails, home security systems, microwave ovens or bases of cordless phones.
  - Away from big metal surfaces such as doors made of solid metal or big concentration of aluminium rivets. The strength of signal is also influenced by big surfaces of other materials, e.g. glass, insulated walls, aquariums, mirrors, bricks or concrete.

**Important:**

► Failure to obey these recommendations may cause substantial deterioration of the Wi-Fi signal and decreased quality of communication or complete lack of possibility of connecting to the Internet.

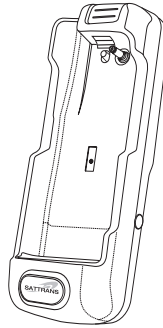
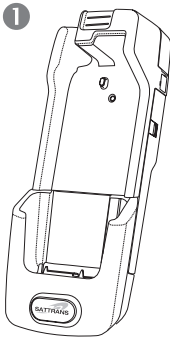
### **Warranty & Liability Notes**

- This product is covered by a 2-year worldwide warranty from date of purchase with proof of purchase submitted.
- SATTRANS shall not be liable for any damages resulted from misuse, abuse, neglect, accident, repair, alteration or maintenance by any person or party other than our own service facility or the modification of this product in any way.
- Obligations of SATTRANS and its affiliates shall be limited to repair or replacement with the same or similar unit, at our option. When returning the product for repair, please pack it carefully and include an explanatory note.

**We hope you will be satisfied with the use of your Sattrans Wi-Fi CommStation and wish you a pleasant ride.**

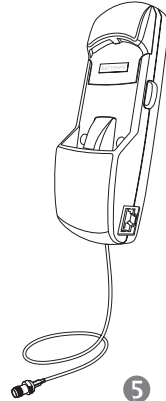
# 4 Installation of Sattrans Wi-Fi CommStation

## 2. Box Contents

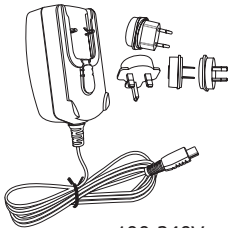


Iridium Extreme (9575) Cradle OR Iridium 9555 cradle

2

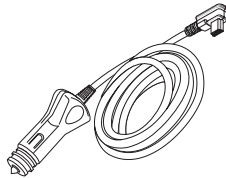


3



100-240V

4



5



Sattrans Wi-Fi CommStation unit is offered for different models of Iridium phone. All versions of the device are described in these operating guidelines.

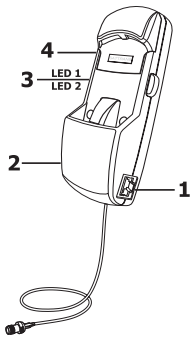
### Description of components:

- 1) Iridium phone cradle for Sattrans Wi-Fi CommStation
- 2) Sattrans Wi-Fi CommStation (baseplate)
- 3) Power supply adapter (100-240 VAC)
- 4) Car power supply
- 5) Operating and Installation Manual

### Note:

- ▶ The external antenna is necessary for functioning of the device inside the building/enclosed room. Please consult the dealer.
- ▶ The external antenna is not a part of the set.

### 3. Product overview



**1 - LAN port (RJ-45)** enables connection of a router or a computer by means of Ethernet cable in order to configure Sattrans Wi-Fi CommStation.

**2 - Power supply socket (mini-USB)**

**3 - Two LED indicators**

**4 - Reset button**

### LED Indicators

LED 1 - for VoIP and WAN status:

Blinking RED	<b>WAN_CONNECTING:</b> the device will try to connect to internet via the satellite phone. The process may take a while, depending on the satellite signal quality
Solid RED	<b>WAN_CONNECTED:</b> the device is connected to internet via Iridium satellite phone
Solid GREEN	<b>VoIP_GATEWAY_READY:</b> the device works as VoIP gateway for Iridium network, PBX ready
Blinking GREEN	<b>VoIP_GATEWAY_ACTIVE:</b> internal or external call is ongoing

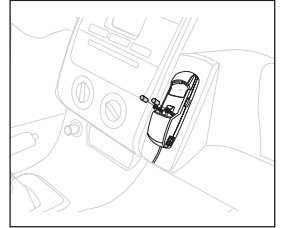
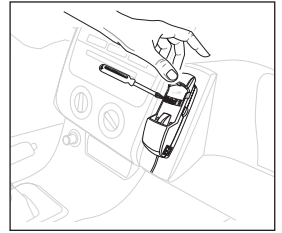
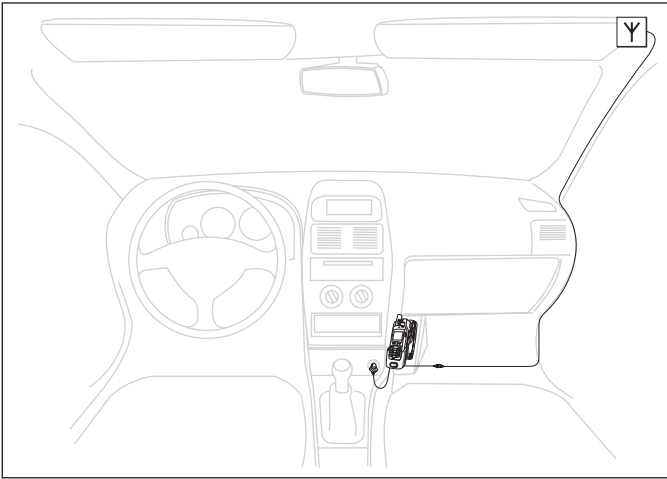
LED 2 - for Wi-Fi status:

Solid RED	<b>Wi-Fi AP not ready,</b> device powered
Solid / Blinking GREEN	<b>Wi-Fi data transfer</b>

## 6 Installation of Sattrans Wi-Fi CommStation

### 4. Wi-Fi CommStation positioning and mounting

#### Example of car installation



After installing Sattrans Wi-Fi CommStation, connect it to a power source via the AC power supply adapter OR via the car adapter to a cigarette lighter socket in your vehicle or boat.

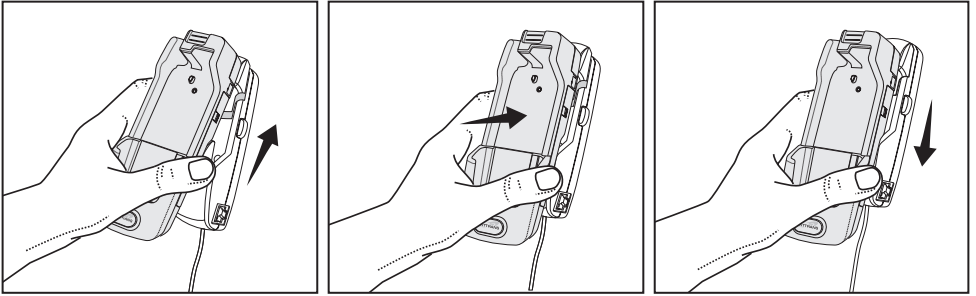
**Note:**

► Failure to use compatible power adapters and sources may result in a permanent damage to Sattrans Wi-Fi CommStation. It is recommended that one should use original power supply adapter which is included in the retail box.



## 5. Installing Satellite Phone Cradle

Place the Satellite Phone cradle in the Sattrans Wi-Fi CommStation.



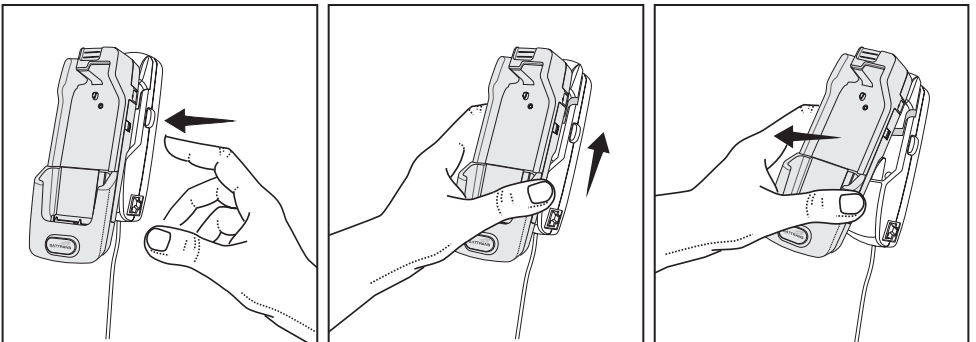
**Important:**

► If the cradle is mounted correctly, into the baseplate you will hear a distinctive click.

Removing the cradle from the Sattrans Wi-Fi CommStation.

**Important:**

► In order to remove the cradle, press and hold the locking button on the right side of the Wi-Fi CommStation baseplate, move the cradle upwards and pull the lower section of the cradle towards you.



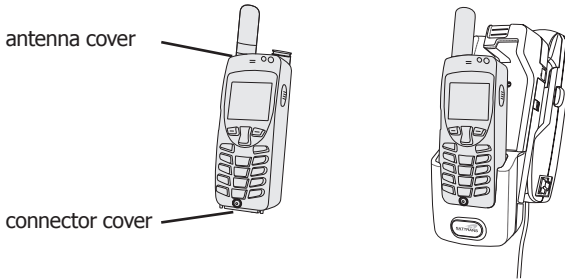
### 6. Satellite phone insertion and removal

#### Inserting satellite phone into cradle.

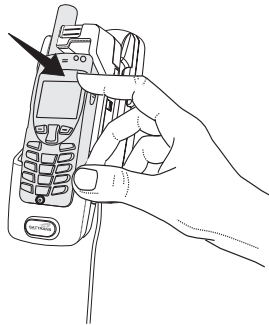
**Important:**

► Please remove the antenna cover (9555 phone) or the bottom connector cover (Extreme phone) before inserting the phone into the cradle.

Place the satellite phone in the cradle starting from the bottom connector.



Push the top part of the satellite phone until you hear the phone click into the cradle. The correct positioning of the satellite phone in the cradle is signalled by a perceptible 'clicking' sound.



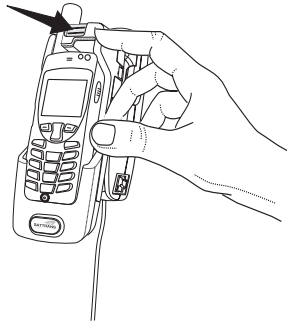
**Note:**

► After insertion of the satellite phone into the cradle, the phone will register in the satellite network. Operation of the device (phone calls, data transfer) is conditional on satellite signal strength and your satellite subscription status.

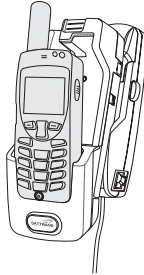
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**Removing the satellite phone from the cradle.**

To release the locking mechanism press the button on the top of the cradle.



Now remove the satellite phone by lifting it out of the cradle.



## 7. Connecting to Sattrans Wi-Fi CommStation

**The following conditions must be met to ensure that the connection is successful.**

- Wi-Fi radio must be switched on in your Wi-Fi devices (e.g. smartphone, tablet, laptop).
- Sattrans Wi-Fi CommStation must be powered on.

**Note:**

- ▶ The range of the Wi-Fi signal can be limited.

### Establishing Wi-Fi connection

**Step 1.** Search for available Wi-Fi networks from your Wi-Fi device (refer to the operating instructions of your specific device).

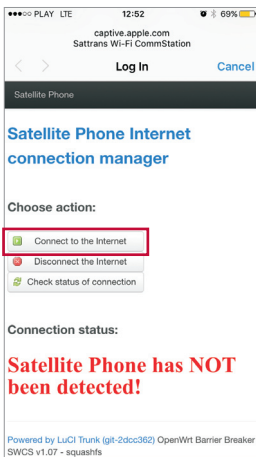
**Step 2.** Select "Sattrans Wi-Fi CommStation" from the list of available networks and enter "sattrans" for password.

**Step 3.** Select the "Connect".

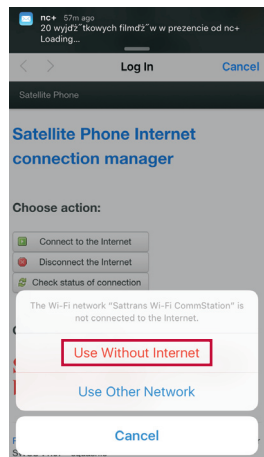
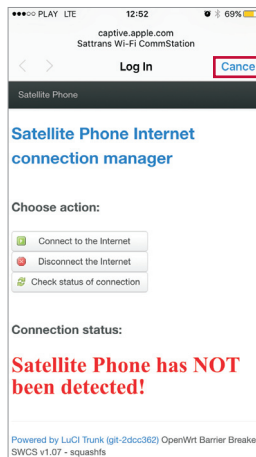
### For iOS devices

**Note:**

- ▶ While using the device which does not have Internet connection in Apple devices press **Connect to the Internet** or **Cancel > Use Without Internet**.



OR



## Disconnecting from Wi-Fi network

You can disconnect from Sattrans Wi-Fi CommStation using one of the following methods.

1. By disconnecting your Wi-Fi device from Sattrans Wi-Fi CommStation.
2. By switching off Wi-Fi radio in your Wi-Fi device.
3. By powering off the Sattrans Wi-Fi CommStation.

## Automatic connection

The connection to Sattrans Wi-Fi CommStation will re-established under the following conditions:

1. Wi-Fi radio is switched on in your Wi-Fi device(s).
2. Sattrans Wi-Fi CommStation is powered on.
3. Wi-Fi network password is saved in your Wi-Fi enabled device(s).

### Note:

► You can connect up to 10 different Wi-Fi devices to Sattrans Wi-Fi CommStation at the same time.

## Wi-Fi CommStation can be used in two ways:

- **Direct easy connection to the Internet** – direct connection to the Internet without necessity of installing additional applications.  
Please note that data transmission and quality of this transmission depends on quality of connection which is provided by Iridium network.

If you want to use connection without compression, without installation of additional applications please refer to point 8.

- **Advanced connection to the Internet** – requires installation of additional software applications.

If you want to use the connection with the use of additional applications please refer to point 9.

## 8. Direct easy connection to the Internet

Standard email and Web browsing applications installed on your Wi-Fi devices (e.g. smartphone, tablet, laptop) will be used. A compatible application for handling VoIP voice calls and sending text messages (e.g. XGate Phone) must be additionally installed.

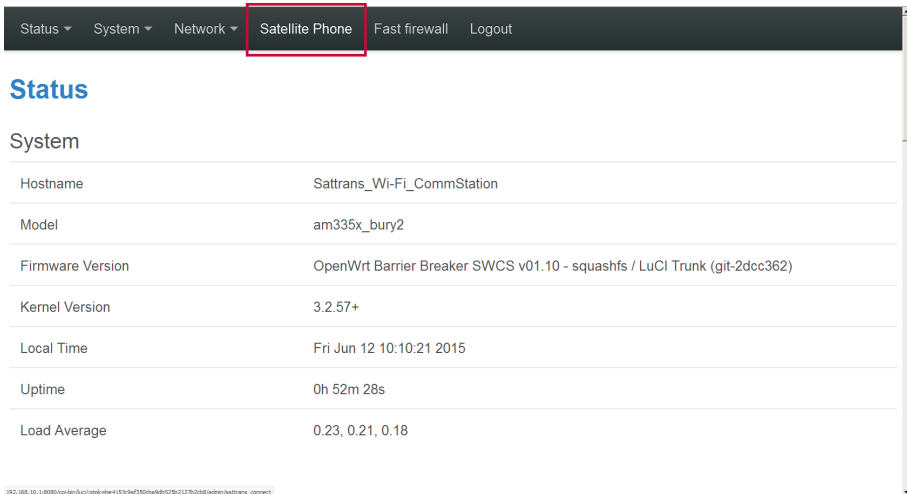
### Important:

- ▶ Iridium data speeds are narrow-band and not as fast as 3G/4G. Such speeds will only allow users to use email (for text only) and limited Web browsing. DO NOT expect broadband or high-speed features to be working on your Wi-Fi devices.
- ▶ One should contact their Iridium service provider to obtain more information on your airtime costs and plans.

To start Internet session user has to enter any web-address (except https:// protocol due to internet security reasons.) For example: http://sattrans.com, then customer will be redirected to start page, showing current status of connection. Start page is available by entering in WEB-browser http://192.168.10.1 or http://station

In order to establish direct connection to the Internet, select:

**Satellite Phone > Connect to the Internet**



The screenshot shows a web interface with a dark navigation bar at the top. The navigation bar contains several menu items: 'Status', 'System', 'Network', 'Satellite Phone', 'Fast firewall', and 'Logout'. The 'Satellite Phone' item is highlighted with a red rectangular box. Below the navigation bar, the page title is 'Status'. Underneath, there is a section titled 'System' which contains a table of system information.




Hostname	Sattrans_Wi-Fi_CommStation
Model	am335x_bury2
Firmware Version	OpenWrt Barrier Breaker SWCS v01.10 - squashfs / LuCI Trunk (git-2dcc362)
Kernel Version	3.2.57+
Local Time	Fri Jun 12 10:10:21 2015
Uptime	0h 52m 28s
Load Average	0.23, 0.21, 0.18

At the bottom of the page, there is a small URL: http://192.168.10.1:8080/cgi-bin/AjaxContent?152c9f330c9e68529c1279c344adef/sattrans\_connect

Status ▾ System ▾ Network ▾ Satellite Phone Fast firewall Logout

## Satellite Phone Internet connection manager

**Choose action:**

 Connect to the Internet  Disconnect the Internet  Check status of connection

**Connection status:**

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Powered by [LuCI Trunk \(git-2dcc362\)](#) OpenWrt Barrier Breaker SWCS v01.10 - squashfs

Octelwireless 192.168.30.1

Status ▾ System ▾ Network ▾ Satellite Phone Fast firewall Logout

## Satellite Phone Internet connection manager

**Choose action:**

 Connect to the Internet  Disconnect the Internet  Check status of connection

**Connection status:**

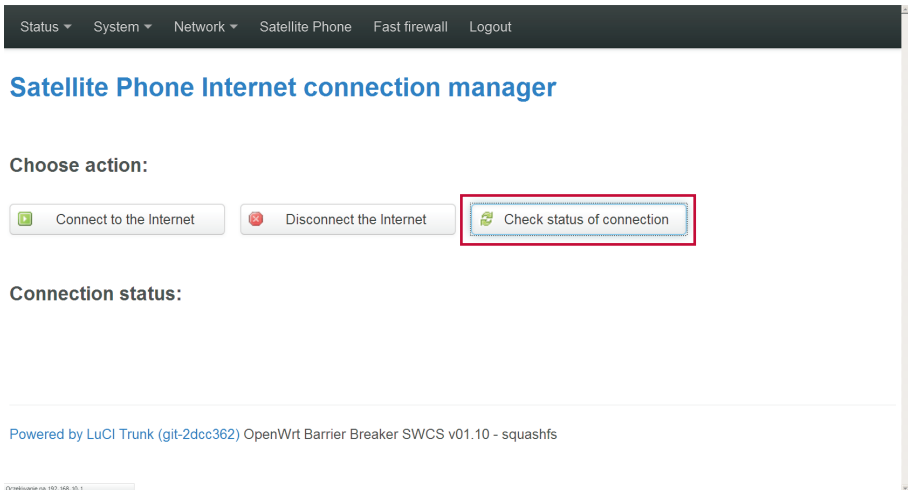
# Internet connection has been established!

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Powered by [LuCI Trunk \(git-2dcc362\)](#) OpenWrt Barrier Breaker SWCS v01.10 - squashfs

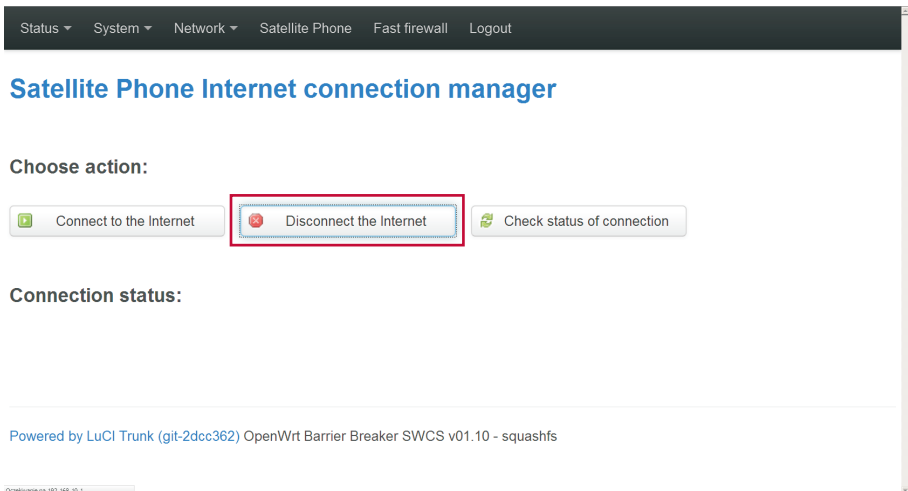
Octelwireless 192.168.30.1

In order to check the status of the connection, click on '**Check status of connection**' button.



The screenshot shows the 'Satellite Phone Internet connection manager' interface. At the top, there is a navigation bar with links for Status, System, Network, Satellite Phone, Fast firewall, and Logout. Below the navigation bar, the title 'Satellite Phone Internet connection manager' is displayed in blue. Underneath, there is a section labeled 'Choose action:' containing three buttons: 'Connect to the Internet', 'Disconnect the Internet', and 'Check status of connection'. The 'Check status of connection' button is highlighted with a red rectangular box. Below the action buttons, there is a section labeled 'Connection status:' which is currently empty. At the bottom of the page, there is a footer that reads 'Powered by LuCI Trunk (git-2dcc362) OpenWrt Barrier Breaker SWCS v01.10 - squashts' and a small status bar at the very bottom showing 'Ocotelephone na.192.168.20.1...'.

In order to end the Internet connection, click on '**Disconnect the Internet**' button.



The screenshot shows the 'Satellite Phone Internet connection manager' interface. At the top, there is a navigation bar with links for Status, System, Network, Satellite Phone, Fast firewall, and Logout. Below the navigation bar, the title 'Satellite Phone Internet connection manager' is displayed in blue. Underneath, there is a section labeled 'Choose action:' containing three buttons: 'Connect to the Internet', 'Disconnect the Internet', and 'Check status of connection'. The 'Disconnect the Internet' button is highlighted with a red rectangular box. Below the action buttons, there is a section labeled 'Connection status:' which is currently empty. At the bottom of the page, there is a footer that reads 'Powered by LuCI Trunk (git-2dcc362) OpenWrt Barrier Breaker SWCS v01.10 - squashts' and a small status bar at the very bottom showing 'Ocotelephone na.192.168.20.1...'.

To finish Active Internet session - user has to enter start web-page - <http://192.168.10.1> or <http://station>



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## Reccomendation - default Browser Data Saver

### Data Saver

Get faster, safer, and cheaper web browsing with data compression.

### Reduce data usage

You can use the Data Saver mode in Chrome to reduce the amount of data that gets used up when you're browsing the web on your mobile device, computer, or Chromebook. The latest Chrome browser for Android and Chrome browser for iOS can significantly reduce cellular/satellite data usage by using proxy servers hosted at Google to optimize website content. This feature has been shown to reduce the size of web pages by 50%. To enable it, visit **Settings > Data Saver** and toggle the option.

When you're using Data Saver, Google's servers reduce the amount of data that gets downloaded when you visit a webpage. How much data gets saved depends on the type of content on the page. Secure pages (pages that start with https) and incognito pages load without any data savings.

#### Note:

▶ With Data Saver turned on:

- Some websites might not be able to accurately determine your location.
- Some images might look a little fuzzy.
- Internal websites, such as your company's intranet sites, might not load.
- Sites that your mobile carrier uses to authenticate and bill you might behave unexpectedly. For example, you might have trouble logging in to your mobile phone provider's website.
- Local settings will be ignored if you manually modified your `/etc/hosts` file.

More details on page <https://support.google.com/chrome/answer/2392284>

## 9. Advanced connection to the Internet

Third-party data optimization and compression software can help you improve performance of the slow Iridium data connection and use your airtime more efficiently. You will need to install additional applications on your Wi-Fi devices to optimize sending/receiving email or Web browsing.

**For Android devices:** Find and install 'Iridium Mail & Web' (free) in your device's Google Play Store.

**For iOS devices (iPhone, iPad):** Find and install 'Iridium Mail & Web' (free) in your device's App Store.

### Software Activation:

**Iridium Mail & Web** software should be activated (at no cost) at: [www.iridium.com/MailAndWeb](http://www.iridium.com/MailAndWeb)  
Use the supplied login and password to use the software and apps on all compatible Wi-Fi devices.

#### **Important:**

- ▶ Your Iridium satellite subscription should include data capability. Check with your Iridium service provider.
- ▶ Your username and password will be sent to the email address you entered on the registration form.
- ▶ Remember user name and a password which will be assigned to You.

## Configuration of Iridium Mail & Web application

Iridium Mail & Web application allows you to synchronize email and web content while connected to Iridium Wi-Fi Solutions. This app uses compression and network-based filters to optimize the use of email, sharing of photos, weather forecasts, and posting to Facebook and Twitter accounts that are otherwise not possible using standard apps designed for cellular and broadband networks. Requires Iridium Wi-Fi compatible device and service subscription for network connectivity.

### Step 1. Download Iridium Mail & Web app

Download and install the app on your smartphone or tablet.

### Step 2. Activate and Register

Navigate to **www.iridium.com/MailAndWeb** to fill out the registration form, follow the instructions and register for a username and password. Select **"Sattrans Wi-Fi CommStation"** from the device selection drop-down menu in the registration form.

#### Note:

► Registration for an account is free and required to use the application.

Wait for confirmation that the Registration is Complete. Make note of the username and the password assigned to the account.

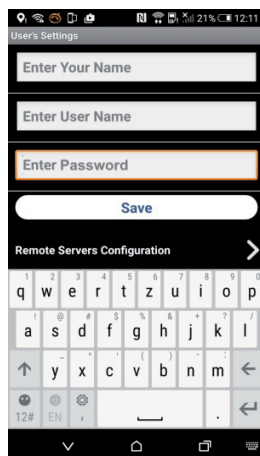
### Step 3. Login to the application

Open the Iridium Mail & Web app and enter the following information: **Username, Password** and click on **"Save"** to gain access to the application.

#### Important:

► Your Wi-Fi device(s) must be connected to Sattrans Wi-Fi CommStation.

► Enter the username and password provided during registration.



**Step 4. Configure device connection type**

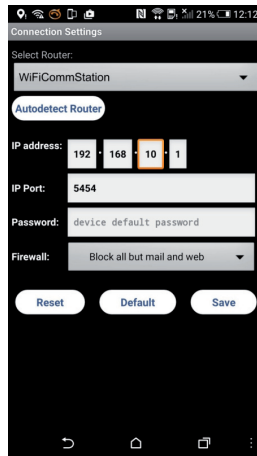
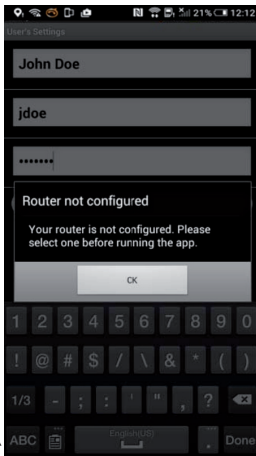
After logging in to the application for the first time, the app will guide you to configure the device connection type. Click OK to be redirected to the device selection screen. Select "Sattrans Wi-Fi CommStation" as your connection type and click the back button. Alternatively, you can run the device auto-detection capability by selecting "AutoDetect Router" button.

Data for settings can be also entered manually.

Choose **Settings -> Connection**

**Note:**

► Ensure that the "Diagnostics" is turned off. This is an advanced option and is used Iridium support personnel to troubleshoot device connection & detection issues with the user.



Enter the password: **webxaccess**

**Step 5.** In order to save these settings, please press "Save" button.

## Sending and receiving E-mail

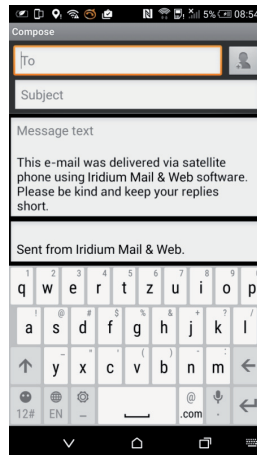
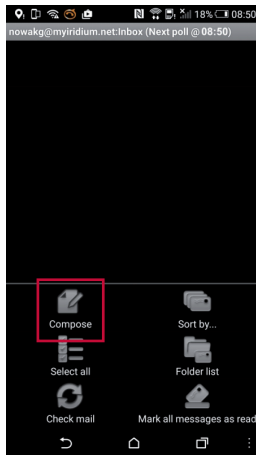
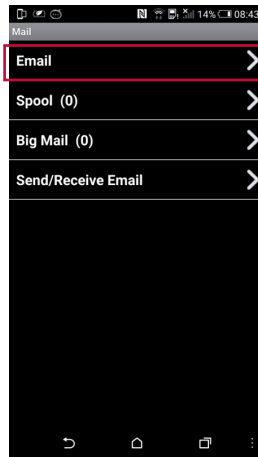
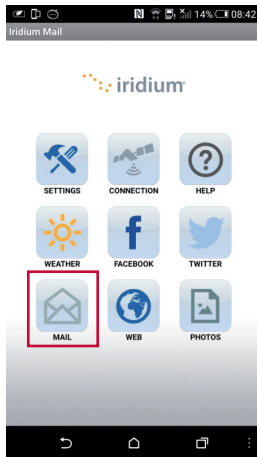
**Step 1.** Open the Iridium Mail & Web.

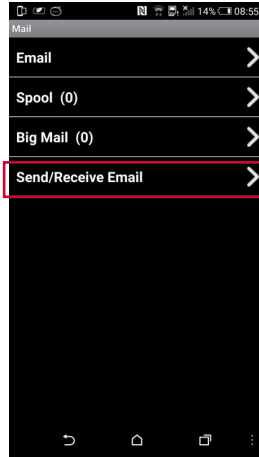
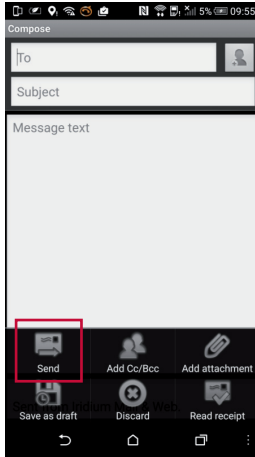
### Sending E-mail

**Step 1.** Select **Mail** -> **Email** -> (Compose) -> (Send) -> **Send/Receive Email**

**Important:**

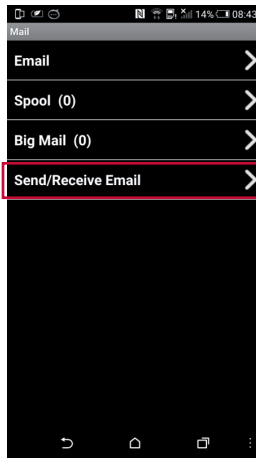
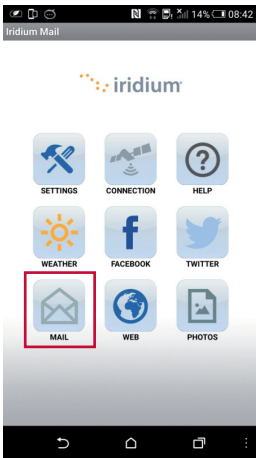
▶ The satellite phone must be connected and registered in the network.





## Receiving E-mail

### Step 2. Select **Mail** -> **Send/Receive Email**



## Configure Web surfing

Iridium Mail & Web allows you to surf the web. To access web pages via Iridium Mail & Web, you must first download, and install XWeb Satellite Web Browsing app from Google Play Store / App Store.

### To access web pages using Iridium Mail & Web:

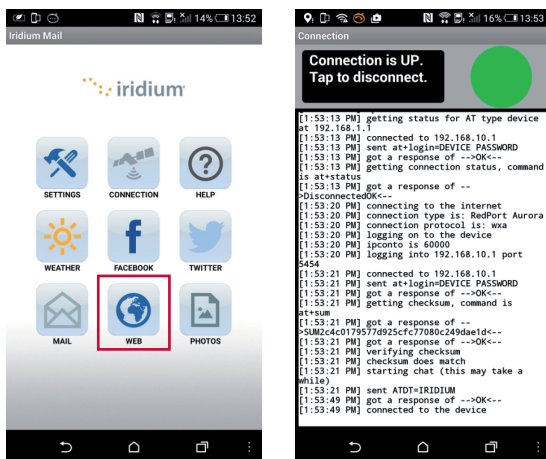
**Step 1.** Open the Iridium Mail & Web.

#### **Important:**

▶ The satellite phone must be connected and registered in the network.

### For Android devices

**Step 2.** Click on the “Web” icon on the home screen. The app will start dialing a connection.



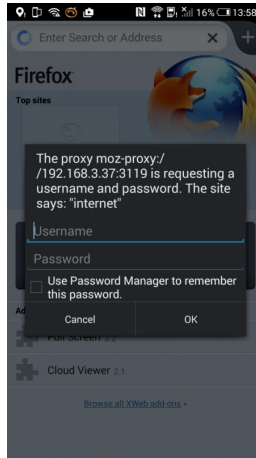
After the connection is up, the app will automatically open the XWeb browser.

**Step 3.** Enter a mobile website in the browser and press “Enter” (see [www.iridium.com/mobile](http://www.iridium.com/mobile) for the list)

**Step 4.** Enter the following information; username and password.

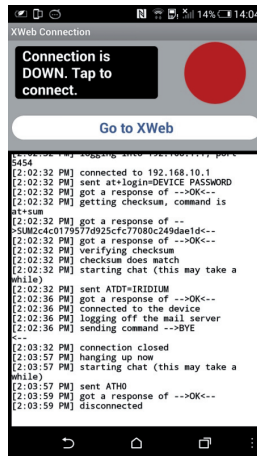
#### **Note:**

▶ Enter the username and password received during registration.



**Step 5.** When finished, close your XWeb app and return to the Iridium Mail & Web app.

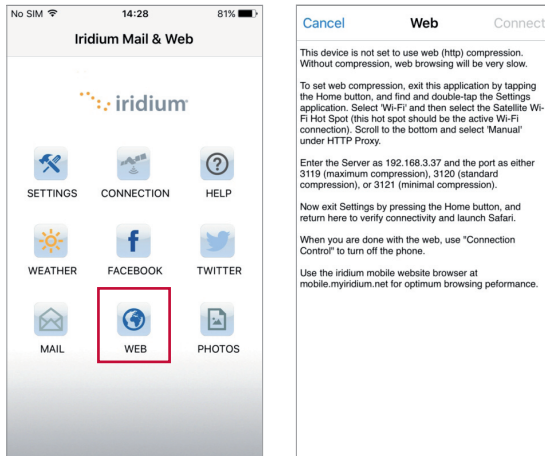
**Step 6:** Select **“Tap to disconnect”**. Now disconnection from the network starts.





## For iOS devices

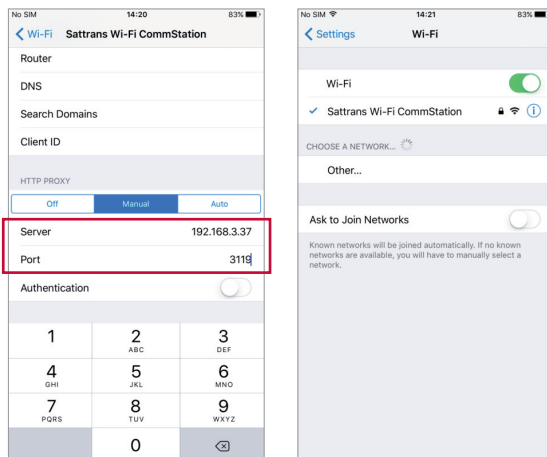
**Step 2.** Click on the “Web” icon on the home screen.



To set web compression, exit this application by tapping the Home button, and go to the Settings Menu for this iOS device.

**Step 3.** Select 'Wi-Fi' and then select the Satellite Wi-Fi Hot Spot (this hot spot should be the active Wi-Fi connection).

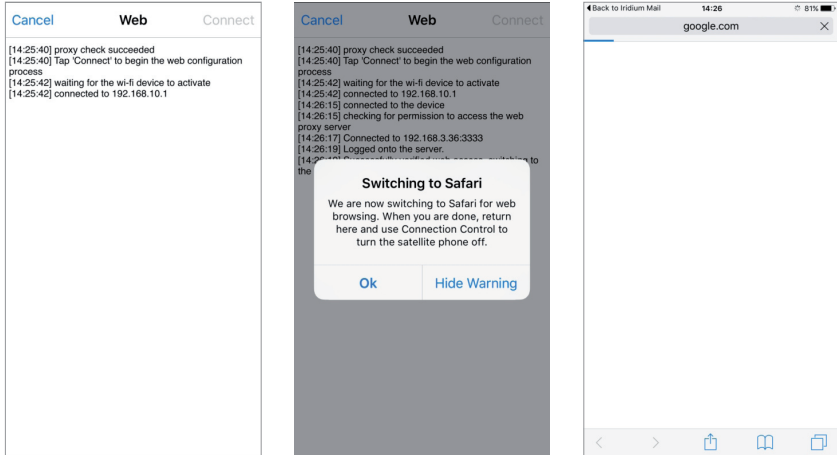
**Step 4.** Scroll down to HTTP Proxy and select 'Manual'. Enter the following information; server and port.



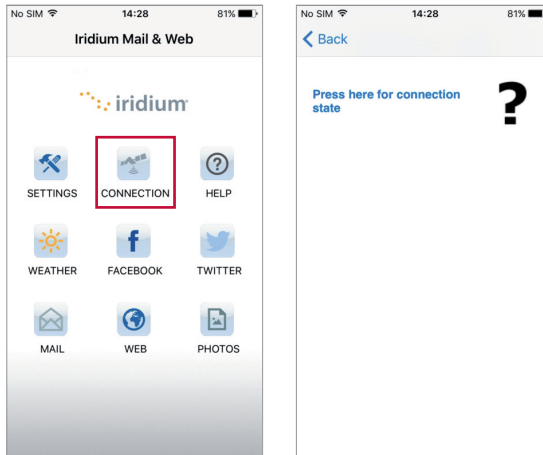
**Note:**

► Enter the Server as 192.168.3.37 and the Port as one of the following: 3119 (maximum compression), 3120 (standard compression) or 3121 (minimal compression).

**Step 5.** Exit Settings and return to this application 'Web' to verify connectivity. When the connection is established Safari will be launched.



**Step 6.** When finished, close your 'Web' app and return to the Iridium Mail & Web app. Select 'Connection' to check connection state.



**Step 6:** Select **"Tap to disconnect"**. Now disconnection from the network starts.



**Note:**

► Airtime charges will continue to incur while the connection is active. Do not visit standard Internet pages as videos and graphic-heavy pages designed for broadband networks will not download properly using Iridium Mail & Web.

A detailed instruction manual for Iridium Mail & Web is available online at: [www.iridium.com/products/Iridium-Mail-and-Web](http://www.iridium.com/products/Iridium-Mail-and-Web)

## 10. Configuration of PBX

**PBX** (Private Branch Exchange) allows to create internal telephone network for a few users. In order to use it one should create a group of users. While entering data of a new user one should act according to an example presented below.

### Adding a new user (SIP client)

#### Step 1.

Navigate to the PBX portal: <http://192.168.10.1:8088/static/config/index.html>

Enter the following information twice: Username: **admin**

Password: **admin**

#### Step 2.

Mark **Users**

The screenshot shows the PBX configuration interface. On the left sidebar, the 'Users' menu item is highlighted with a red box. Below it, a tooltip reads: "Users is a shortcut for quickly adding and removing all the necessary configuration components for any new phone." The main content area is titled "User Extensions on PBX" and contains a table of user extensions.

Extension	Full Name	Port	SIP	IAAX	DialPlan	OutBound CID			
<input type="checkbox"/>	201	Jack Strong	--	Yes	--	DialPlan_bury	none	Edit	X Delete
<input type="checkbox"/>	202	Skipper	--	Yes	--	DialPlan_bury	none	Edit	X Delete
<input type="checkbox"/>	203	Kowalski	--	Yes	--	DialPlan_bury	none	Edit	X Delete
<input type="checkbox"/>	204	Rico	--	Yes	--	DialPlan_bury	none	Edit	X Delete
<input type="checkbox"/>	220	Mr. Bean	--	Yes	--	DialPlan_bury	none	Edit	X Delete

Choose **Create New User**

The screenshot shows the PBX configuration interface with the "Create New User" button highlighted in the top navigation bar. The main content area displays a table of user extensions.

Extension	Full Name	Port	SIP	IAAX	DialPlan	Outbound CID			
<input type="checkbox"/>	201	Jack Strong	--	Yes	--	DialPlan_bury	201	Edit	X Delete
<input type="checkbox"/>	202	Skipper	--	Yes	--	DialPlan_bury	202	Edit	X Delete
<input type="checkbox"/>	203	Kowalski	--	Yes	--	DialPlan_bury	203	Edit	X Delete
<input type="checkbox"/>	204	Rico	--	Yes	--	DialPlan_bury	204	Edit	X Delete
<input type="checkbox"/>	205	Tesowy	--	Yes	--	DialPlan_bury	205	Edit	X Delete
<input type="checkbox"/>	220	Mr. Bean	--	Yes	--	DialPlan_bury	220	Edit	X Delete

Enter the following information:

**Create New User**

General :

Extension: 207 CallerID Name: Brown DialPlan: DiaPlan\_bury  
 Internal CallerID: 207 CallerID Number: 207

Enable Voicemail for this User  
 Voicemail Access PIN code: Email Address:

Technology

SIP  IAX Analog Station: None flash: 750 rxfldash: 1250  
 Codec Preference: First: u-law Second: GSM Third: None Fourth: None Fifth: None

VoIP Settings

MAC Address: 207 Line Number: 1 LineKeys: 1  
 SIP/IAX Password: IAX: Require Call Token:  
 IAX: Max Call Numbers:  
 NAT:  Can Reinvite:  DTMF Mode: RFC2833 insecure: no

Other Options

3-Way Calling (analog)  In Directory  Call Waiting (analog)  
 ADA User  Is Agent Pickup Group: 1

Cancel Update

**Note:**

- ▶ Only one number can be assigned to one user. Numbers must be between 200 - 299.
- ▶ Field Technology-**IAX** should remain empty.
- ▶ VoIP Settings **MAC Address** – enter the same number as in Extension field.
- ▶ VoIP Settings **SIP/IAX** Password – enter any password.

**Important:**

- ▶ MAC Address and SIP/IAX Password will be required for configuration of XGate Phone, which is described on page 29 in the chapter “Configuration of VoIP application”.

**Step 3.** After filling out the form, click on **“Update”** button.

The screenshot shows the 'Create New User' dialog box with the following details:

- General:**
  - Extension: 207
  - CallerID Name: Brown
  - DialPlan: DiaPlan\_bury
  - Internal CallerID: 207
  - Enable Voicemail for:
  - VoiceMail Access PIN code: [empty]
  - Email Address: [empty]
- Technology:**
  - SIP:  IAX:  Analog Station: None
  - flash: 750 rxflash: 1250
  - Codec Preference: First: u-law Second: GSM Third: None Fourth: None Fifth: None

**Step 4.** The new user will be displayed on the list.

Extension	Full Name	Port	SIP	IAX	DialPlan	Outbound CID		
<input type="checkbox"/> 201	Jack Strong	--	Yes	--	DiaPlan_bury	201	Edit	Delete
<input type="checkbox"/> 202	Skipper	--	Yes	--	DiaPlan_bury	202	Edit	Delete
<input type="checkbox"/> 203	Kowalski	--	Yes	--	DiaPlan_bury	203	Edit	Delete
<input type="checkbox"/> 204	Rico	--	Yes	--	DiaPlan_bury	204	Edit	Delete
<input type="checkbox"/> 205	Tesovy	--	Yes	--	DiaPlan_bury	205	Edit	Delete
<input checked="" type="checkbox"/> 207	Brown	--	Yes	--	DiaPlan_bury	207	Edit	Delete
<input type="checkbox"/> 220	Mr. Bean	--	Yes	--	DiaPlan_bury	220	Edit	Delete

**Step 5.** In order to save the changes, click **„Apply Changes”**

Apply Changes Logout

Extension	Full Name	Port	SIP	IAX	DialPlan	Outbound CID		
<input type="checkbox"/> 201	Jack Strong	--	Yes	--	DiaPlan_bury	201	Edit	Delete
<input type="checkbox"/> 202	Skipper	--	Yes	--	DiaPlan_bury	202	Edit	Delete
<input type="checkbox"/> 203	Kowalski	--	Yes	--	DiaPlan_bury	203	Edit	Delete
<input type="checkbox"/> 204	Rico	--	Yes	--	DiaPlan_bury	204	Edit	Delete
<input type="checkbox"/> 205	Tesovy	--	Yes	--	DiaPlan_bury	205	Edit	Delete

More details can be found at [www.asterisk.org](http://www.asterisk.org)

## Configuration of VoIP application

VoIP application is required make VoIP phone calls and to send/receive a text message (SMS) within the Wi-Fi network and send text messages outside the Wi-Fi network.

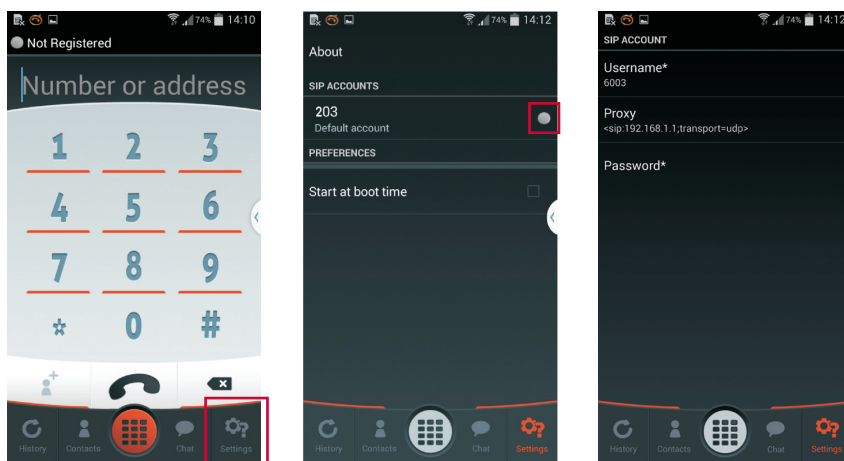
Any other SIP-client could be used for making calls, for sending SMS recommended to use XGate Phone app.

Example:

**Step 1.** Open 'XGate Phone' application.

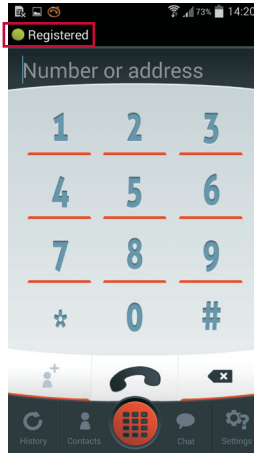
**Step 2.** Select "Settings" buttons.

Enter the following information; Username, Password, Proxy



### Note:

- ▶ Enter the username and password used when setting up your account on PBX - MAC Address i SIP/IAX Password.
- ▶ In Proxy entry choose the same IP of router as is found in Iridium Mail & Web (IP address 192.168.10.1 see page 18, step 4.) This field must contain the full entry < sip: 192.168.10.1;transport=udp >

**Note:**

► Correct configuration is signaled by the change of the status of the device for "Registered" and by the green symbol.

**Making connections inside the Wi-Fi network**

After correctly configuring the application, you can make phone calls or send text messages to other users assigned inside the network (e.g. 200).

**Making connections outside the network****Important:**

► The satellite phone must be connected and registered in the Iridium network.

For external phone calls, dial "00" followed by the country code and phone number (e.g. 0048xxxxx), then press the handset icon.

**Sending text messages (SMS) outside the Wi-Fi network**

In order to send a text message (SMS) outside the Wi-Fi network, enter the phone number in the following format: "+", country code and phone number (e.g. +48xxxx). Press "Send".

**Receiving SMS message**

In order to receive text messages, the "Service center" number +**881662900005** must be set in the satellite phone. Navigate **Menu -> Messages -> Settings -> Service center** and enter number +**881662900005**.

To accept in-network or external phone calls, press the handset icon in the app.



## 11. Configuration of Wi-Fi repeater

A second Sattrans Wi-Fi CommStation ('slave') can be used as a Wi-Fi signal repeater to extend the effective range of the Wi-Fi network initiated by the 'master' Wi-Fi CommStation, which connected to the satellite phone.

**Step 1.** During the first start-up connect the repeater (slave Sattrans Wi-Fi CommStation) to the LAN port in the computer by means of RJ45 cable.

**Step 2.** Log onto the Wi-Fi CommStation administration interface.

**Step 3.** Navigate to **Network -> Interfaces**.

The screenshot shows the administration interface of a Sattrans Wi-Fi CommStation. At the top, there is a navigation bar with the following items: Status, System, Network, Satellite Phone, Fast firewall, and Logout. Below this, the 'Status' page is displayed, featuring a 'System' section with various system information. A dropdown menu is open under the 'Network' tab, with 'Interfaces' highlighted in red. The dropdown menu includes the following options: Wifi, DHCP and DNS, Hostnames, Static Routes, Firewall, Diagnostics, Configure Diagnostics, MAC Device Info, and Overrides.

System	
Hostname	trans_Wi-Fi_CommStation
Model	35x_bury2
Firmware Version	enWrt Barrier Breaker SWCS v01.10 - squashfs / LuCI Trunk (git-2dcc362)
Kernel Version	57+
Local Time	Fri Jun 12 10:16:23 2015
Uptime	0h 58m 30s
Load Average	0.22, 0.22, 0.19

192.168.0.1:8080/cgi-bin/uci?cmd=show+1533eaf7550c6a68d295212763d40admin%2Fnetwork%2Fnetwork

**Step 4.** Select **"Edit"** in the LAN interface.

The screenshot shows the Mikrotik WinBox interface. At the top, there are navigation tabs: Status, System, Network, Satellite Phone, Fast firewall, and Logout. Below the tabs, there are links for PPP and LAN. The main heading is 'Interfaces', followed by 'Interface Overview'. A table lists the network interfaces:

Network	Status	Actions
LAN br-lan	Uptime: 0h 58m 12s MAC-Address: EC:24:B8:6E:BC:B5 RX: 674.04 KB (6681 Pkts.) TX: 1.71 MB (6773 Pkts.) IPv4: 192.168.10.1/24 IPv6: FD54:BC1B:EE6F:0:0:0:1/60	Connect Stop <b>Edit</b> Delete
PPP ppp-ppp	RX: 0.00 B (0 Pkts.) TX: 0.00 B (0 Pkts.)	Connect Stop Edit Delete

**Step 5.** Change the IP address for another one which doesn't colide with DHCP range and with other Wi-Fi devices in the network.

**Note:**

- ▶ Remember or record this new IP address (e.g. 192.168.10.11) at which the "slave" repeater device will be available.
- ▶ If necessary, one can get access by resetting the device and restoring factory settings.

The screenshot shows the configuration page for the LAN interface. The 'Protocol' is set to 'Static address'. The 'IPv4 address' field is highlighted with a red box and contains the value '192.168.10.11'. Other fields include 'IPv4 netmask' (255.255.255.0), 'IPv4 gateway', 'IPv4 broadcast', and 'Use custom DNS servers'.

## Step 6. Select "Ignore interface" in section DHCP server.

Status ▾ System ▾ Network ▾ Satellite Phone Fast firewall Logout

PPP LAN

### Interfaces - LAN

On this page you can configure the network interfaces. You can bridge several interfaces by ticking the "bridge interfaces" field and enter the names of several network interfaces separated by spaces. You can also use VLAN notation `INTERFACE.VLANNR` (e.g.: `eth0.1`).

#### Common Configuration

General Setup Advanced Settings Physical Settings Firewall Settings

Status	 br-lan	<b>Uptime:</b> 0h 59m 6s <b>MAC-Address:</b> EC:24:B8:6E:BC:B5 <b>RX:</b> 699.80 KB (6941 Pkts.) <b>TX:</b> 1.79 MB (7052 Pkts.) <b>IPv4:</b> 192.168.10.1/24 <b>IPv6:</b> FD54:BC1B:EE6F:0:0:0:0:1/60
--------	------------	---

Protocol Static address ▾

IPv4 address 192.168.10.11

IPv4 netmask 255.255.255.0 ▾

IPv4 gateway  

IPv4 broadcast  

Use custom DNS servers  

IPv6 assignment length 60 ▾  
 Assign a part of given length of every public IPv6-prefix to this interface

IPv6 assignment hint    
 Assign prefix parts using this hexadecimal subprefix ID for this interface.

#### DHCP Server

General Setup

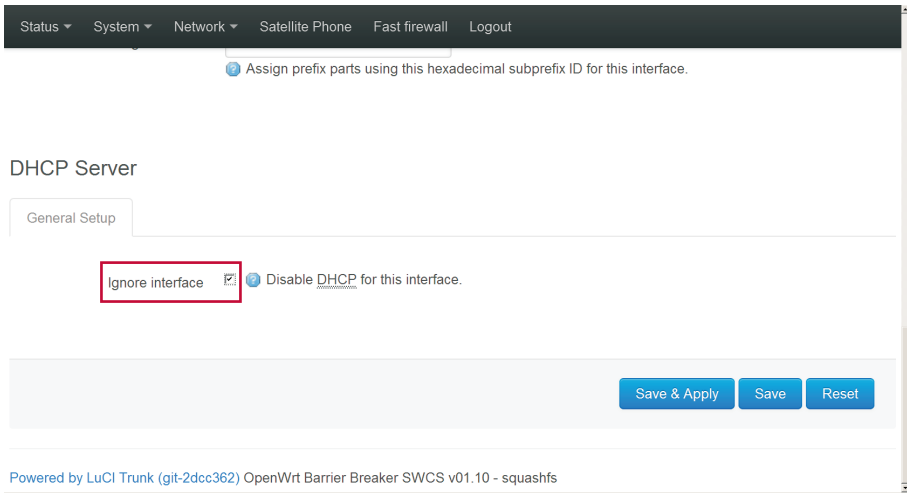
Ignore interface  Disable DHCP for this interface.

Save & Apply
Save
Reset

Powered by LuCI Trunk (git-2dcc362) OpenWrt Barrier Breaker SWCS v01.10 - squashts

**Step 7.** Click **"Save & Apply"**.

From now on the slave device will be available under new IP address. The admin interface will stop working until the new IP address is entered in the web browser.

**Step 8.** Unplug PC and connect both devices with Ethernet cable.**Note:**

- ▶ If there are more devices, one should use standard Ethernet hub (so called 'switch') in order to connect them.
- ▶ One should remember that IP addresses of slave devices (repeaters) should be different but the configuration diagram remains the same.

From now on user devices can connect to the Wi-Fi networks broadcast by both CommStations. Both CommStations are available under their IP addresses no matter which one we connect via Wi-Fi to. However, Asterisk settings are applicable only from the 'master' station (connected to satellite phone).

**Note:**

- ▶ The coverage area of master and slave stations should not interlap, so the two stations shouldn't be places close to each other.
- ▶ Switching of Wi-Fi devices from one CommStation to another will not necessarily be seamless. Disconnection of active VoIP calls is likely to occur. During an active voice call, we therefore recommend to stay in one area and avoid stepping into areas with overlapping Wi-Fi networks.
- ▶ No other Wi-Fi access points, to which Wi-Fi devices could potentially connect, should be within the Wi-Fi range of the two CommStations to prevent automatic connection to other Wi-Fi networks.

## 12. Advanced configuration of the router Sattrans Wi-Fi CommStation

1. Enter **192.168.10.1** or **http://station** in the Web browser (e.g. Mozilla Firefox) of a connected Wi-Fi device.
2. Enter default credentials: Username: **admin**  
Password: **admin**

### Note:

► To ensure safe operations, we recommend that username and password be changed immediately after your first login.

Various configuration options are available in the configuration portal, such as update of software, statistics, information about Sattrans Wi-Fi CommStation connection.

Note: Settings modification by the incompetent staff can cause limitation of functioning and even make it impossible to use the Wi-Fi CommStation product.

### Saving changes to the settings

Changes to the settings will be applied only after taking the following steps.

- Save changes by clicking on the "Save & Apply" button.
- Reboot of Sattrans Wi-Fi CommStation by selecting System -> Reboot -> Perform reboot.

### Password management

Password can be changed in the Wi-Fi CommStation admin portal from connected Wi-Fi device(s). Any password changes will be applied after saving settings and rebooting the Wi-Fi CommStation ("Saving changes to the settings" – see above).

### Changing the password

In the "Configuration" menu item, enter a new password. The password must contain 8-17 characters without diacritics or special characters (e.g. +, -, /, etc.).

Select: **Network > Wifi > Edit > Interface Configuration > Wireless Security > Encryption**

This screenshot shows the top navigation bar with 'Status', 'System', 'Network', 'Satellite Phone', 'Fast firewall', and 'Logout'. A dropdown menu is open under 'Network', with 'Wifi' highlighted by a red box. Other menu items include 'Interfaces', 'DHCP and DNS', 'Hostnames', 'Static Routes', 'Firewall', 'Diagnostics', 'Configure Diagnostics', 'MAC Device Info', and 'Overrides'. The background shows a system status table.

System	
Hostname	ans_Wi-Fi_CommStation
Model	35x_bury2
Firmware Version	nWrt Barrier Breaker SWCS v01.10 - squashfs / LuCI Trunk (git-2dcc362)
Kernel Version	57+
Local Time	Fri Jun 12 10:06:36 2015
Uptime	0h 48m 43s
Load Average	0.29, 0.22, 0.17

This screenshot shows the 'Wireless Overview' page for 'radio0: Master "Sattrans Wi-Fi CommStation"'. It features a 'Generic MAC80211 802.11bgn (radio0)' section with 'Channel: 1 (2.412 GHz) | Bitrate: ? Mbit/s'. Below this, it shows 'SSID: Sattrans Wi-Fi CommStation | Mode: Master' and 'BSSID: 5C:31:3E:19:1C:07 | Encryption: mixed WPA/WPA2 PSK (TKIP, CCMP)'. Action buttons for 'Scan', 'Add', 'Disable', 'Edit', and 'Remove' are present, with 'Edit' highlighted by a red box. A table for 'Associated Stations' is shown below, but it contains no data, with the text 'No information available' at the bottom.

SSID	MAC-Address	IPv4-Address	Signal	Noise	RX Rate	TX Rate
No information available						

Status ▾ System ▾ Network ▾ Satellite Phone Fast firewall Logout

## Interface Configuration

General Setup Wireless Security MAC-Filter

Encryption WPA-PSK/WPA2-PSK Mixed Mod-  
WPA-Encryption requires wpa\_supplicant (for client mode) or hostapd (for AP and ad-hoc mode) to be installed.

Cipher Force TKIP and CCMP (AES)

Key ●●●●●●

Save & Apply Save Reset

Select ... > **Interface Configuration** > **General Setup** > **ESSID** to change the Wi-Fi network name



Status ▾ System ▾ Network ▾ Satellite Phone Fast firewall Logout

## Interface Configuration

General Setup Wireless Security MAC-Filter

ESSID Sattrans Wi-Fi CommStation

Mode Access Point

Network  lan:    
 create:

Choose the network(s) you want to attach to this wireless interface or fill out the create field to define a new network.

Hide ESSID

WMM Mode

Save & Apply Save Reset

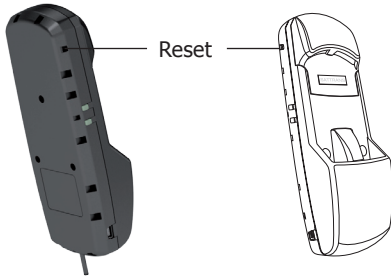
192.168.10.1:8080/cgi-bin/ucf.html?tab=1153c9f1350ba6d8c29b212762a40&dir=/network/wireless/wireless\_network1?tab=wireless\_fg03357#general

After making all changes, press **"Save & Apply"** button.

## Lost password

If the password is lost, you can restore the Wi-Fi CommStation to factory settings by pressing and holding "Reset" button for 10 seconds. This button is located on the left side of the baseplate. Restart of the device will be signaled by both LEDs becoming red.

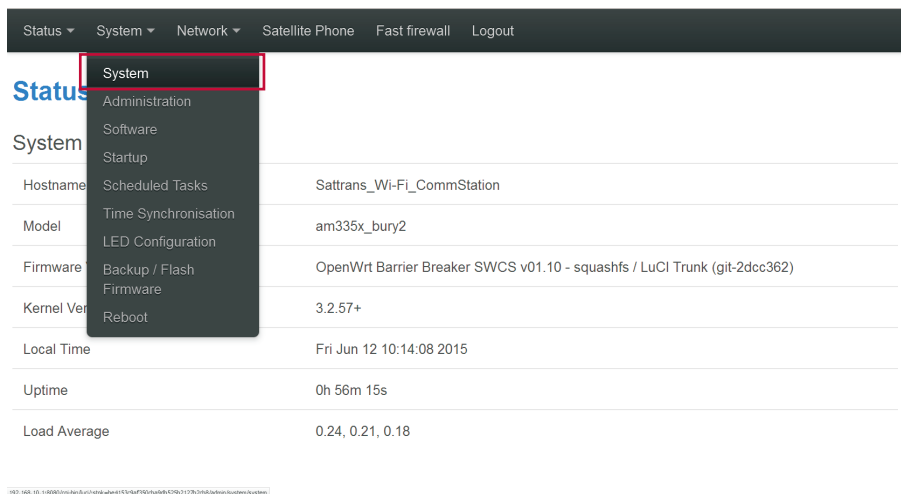
All previously saved device settings will be lost.





## Changing language

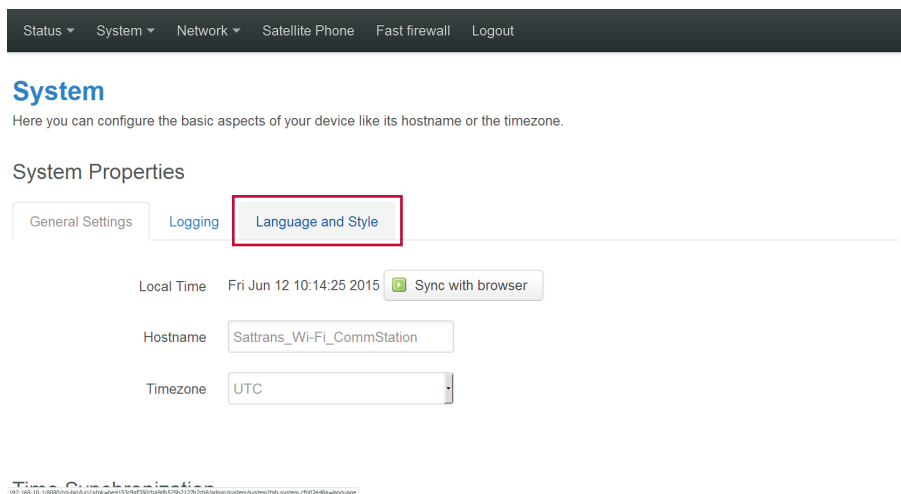
Select: **System > System > Language and Style**



The screenshot shows the OpenWrt System menu. The 'System' option is highlighted with a red box. The menu items are:

- System
- Administration
- Software
- Startup
- Scheduled Tasks
- Time Synchronisation
- LED Configuration
- Backup / Flash
- Firmware
- Reboot

Hostname	Sattrans_Wi-Fi_CommStation
Model	am335x_bury2
Firmware	OpenWrt Barrier Breaker SWCS v01.10 - squashfs / LuCI Trunk (git-2dcc362)
Kernel Version	3.2.57+
Local Time	Fri Jun 12 10:14:08 2015
Uptime	0h 56m 15s
Load Average	0.24, 0.21, 0.18



The screenshot shows the OpenWrt System Language and Style page. The 'Language and Style' tab is highlighted with a red box. The page content is:

**System**

Here you can configure the basic aspects of your device like its hostname or the timezone.

**System Properties**

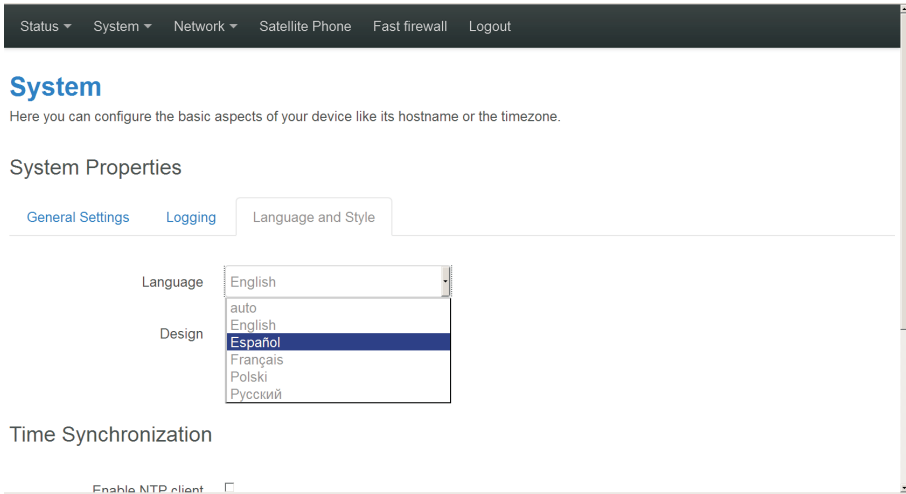
General Settings | Logging | **Language and Style**

Local Time: Fri Jun 12 10:14:25 2015

Hostname:

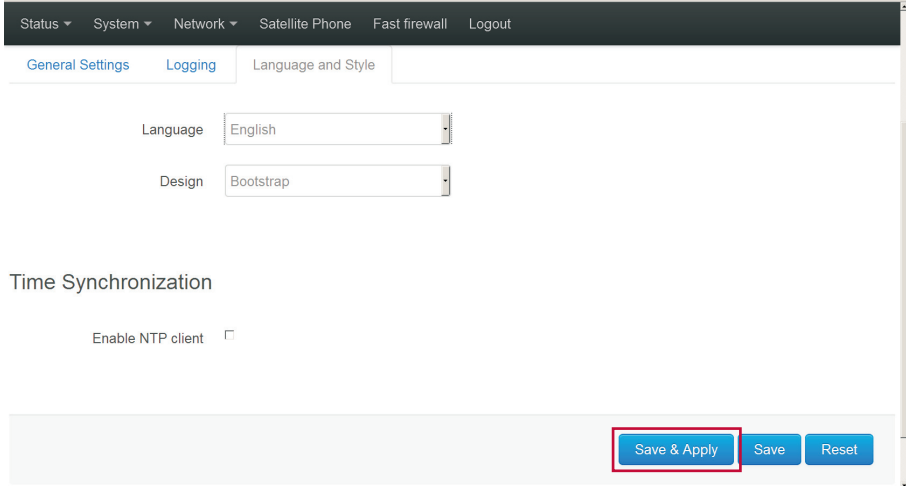
Timezone:

The following languages are available: English, Spanish, French, Polish and Russian.



The screenshot shows the 'System' configuration page. At the top, there is a navigation bar with 'Status', 'System', 'Network', 'Satellite Phone', 'Fast firewall', and 'Logout'. Below this, the 'System' section is titled, followed by the instruction: 'Here you can configure the basic aspects of your device like its hostname or the timezone.' The 'System Properties' section has three tabs: 'General Settings', 'Logging', and 'Language and Style'. The 'Language and Style' tab is active. It contains two dropdown menus: 'Language' (set to 'English') and 'Design' (set to 'Español'). Below these is the 'Time Synchronization' section with an 'Enable NTP client' checkbox.

Click on **"Save&Apply"** button to save the changes.



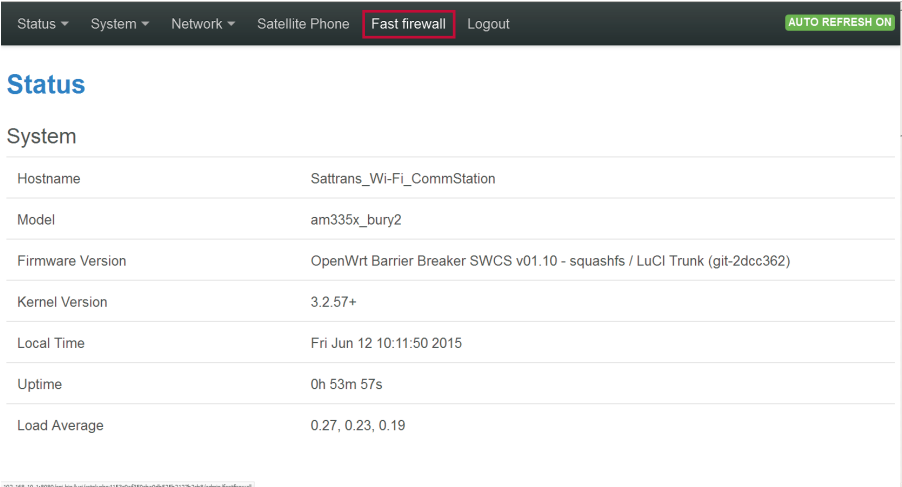
This screenshot shows the same 'System Properties' configuration page as above, but with the 'Save & Apply' button highlighted with a red box. The 'Language' dropdown is now set to 'English' and the 'Design' dropdown is set to 'Bootstrap'. The 'Save & Apply', 'Save', and 'Reset' buttons are located at the bottom right of the page.

## Fast firewall

Firewall is one of ways of protecting the network and systems against coming from the network. It plays a role of combination of protection of hardware and programme internal network LAN against access from the outside, that is from public networks, the Internet. It also protects against unauthorized leak of data from the local network to the outside world. It allows to have access to some resources on the Internet and it allows to limit unwanted traffic.

In order to limit access to resources on the Internet:

Select: **Fast firewall**



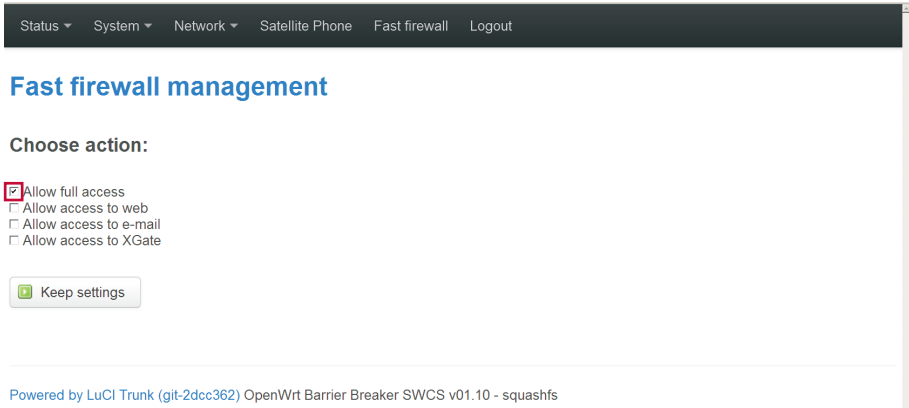
The screenshot shows a web interface with a dark navigation bar at the top. The navigation bar contains several menu items: 'Status', 'System', 'Network', 'Satellite Phone', 'Fast firewall' (which is highlighted with a red box), and 'Logout'. On the right side of the navigation bar, there is a green button labeled 'AUTO REFRESH ON'. Below the navigation bar, the main content area is titled 'Status' in blue. Underneath, there is a section titled 'System' which contains a table of system information.

Hostname	Saltrans_Wi-Fi_CommStation
Model	am335x_bury2
Firmware Version	OpenWrt Barrier Breaker SWCS v01.10 - squashfs / LuCI Trunk (git-2dcc362)
Kernel Version	3.2.57+
Local Time	Fri Jun 12 10:11:50 2015
Uptime	0h 53m 57s
Load Average	0.27, 0.23, 0.19

At the bottom left of the page, there is a small URL: [192.168.0.1:8080/cgi-bin/luci/2d48/1152/cam41532/cam41532/12783241/admin/fastfirewall](http://192.168.0.1:8080/cgi-bin/luci/2d48/1152/cam41532/cam41532/12783241/admin/fastfirewall)

Choose **selected range/area**

Each of presented options is dedicated to the specific ports and servers. In order to make access to specific network resources possible one should choose box which is next to the given item.



Status ▾ System ▾ Network ▾ Satellite Phone Fast firewall Logout

## Fast firewall management

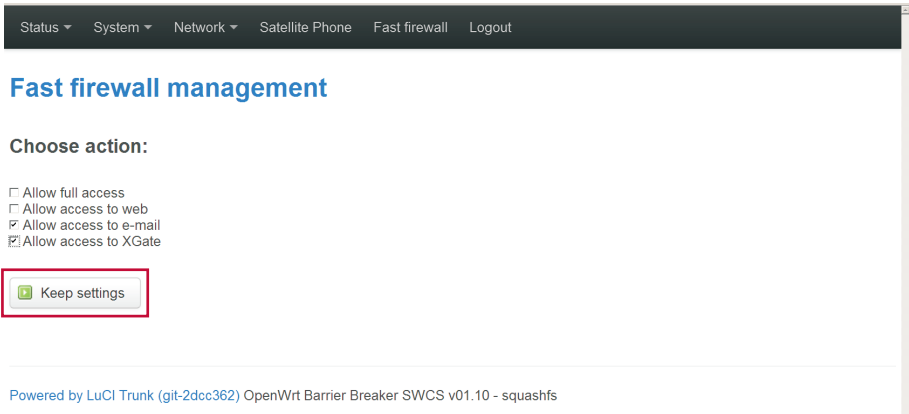
Choose action:

- Allow full access
- Allow access to web
- Allow access to e-mail
- Allow access to XGate

---

Powered by [LuCI Trunk \(git-2dcc362\)](#) OpenWrt Barrier Breaker SWCS v01.10 - squasfhs

Click on **“Keep settings”** button to save the changes.



Status ▾ System ▾ Network ▾ Satellite Phone Fast firewall Logout

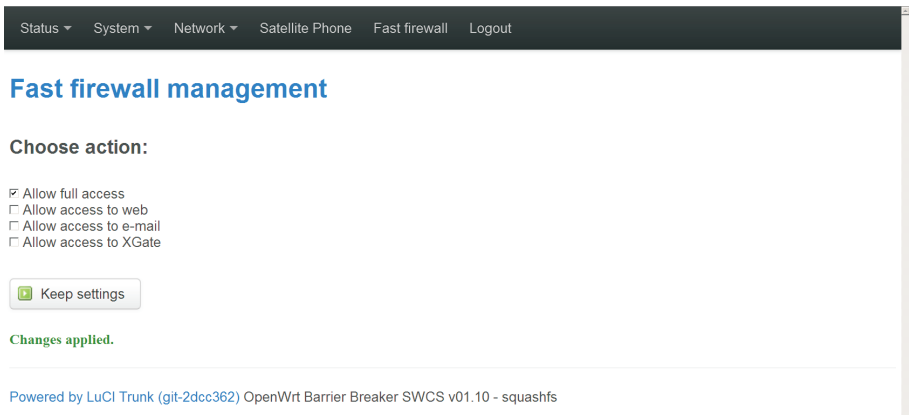
## Fast firewall management

Choose action:

- Allow full access
- Allow access to web
- Allow access to e-mail
- Allow access to XGate

---

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Status ▾ System ▾ Network ▾ Satellite Phone Fast firewall Logout

## Fast firewall management

Choose action:

- Allow full access
- Allow access to web
- Allow access to e-mail
- Allow access to XGate

**Changes applied.**

---

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## 13. Firmware update

The current software version is available on **www.sattrans.com**. If you select CommStation in Sattrans website, URL to latest SW version will appear. For getting latest SW version, please visit SATTRANS Website <http://sattrans.com>

Please follow these steps to prepare the Sattrans Wi-Fi CommStation for the firmware update:

### Notice:

- ▶ The update is carried out at your own risk! We do not assume liability for any damages to the product arising from and during the update.
- ▶ The power supply to the CommStation should not be interrupted during the update procedure.

### Step 1:

Select: **System > Backup / Flash Firmware** and follow the instructions on the following screenshots:

The screenshot shows the Sattrans web interface. At the top, there is a navigation bar with the following items: Status, System, Network, Satellite Phone, Fast firewall, and Logout. Below this, a dropdown menu is open under the 'System' tab, listing the following options: System, Administration, Software, Startup, Scheduled Tasks, Time Synchronisation, LED Configuration, Backup / Flash Firmware (highlighted with a red box), and Reboot. The main content area displays system information in a table format:

Hostname	Sattrans_Wi-Fi_CommStation
Model	am335x_bury2
Firmware	OpenWrt Barrier Breaker SWCS v01.10 - squashfs / LuCI Trunk (git-2dcc362)
Kernel Ver	3.2.57+
Local Time	Fri Jun 12 10:19:41 2015
Uptime	1h 1m 48s
Load Average	0.08, 0.16, 0.18

At the bottom of the page, there is a small URL: <http://192.168.10.1:8080/cgi-bin/jwz/cpanel-4b4e4122de4f350a6d68c25b2127b2d48/index/system/feature>

Status ▾ System ▾ Network ▾ Satellite Phone Fast firewall Logout

Reset to defaults:

To restore configuration files, you can upload a previously generated backup archive here.

Restore backup:  Nie wybrano pliku.

### Flash new firmware image

Upload a sysupgrade-compatible image here to replace the running firmware. Check "Keep settings" to retain the current configuration (requires an OpenWrt compatible firmware image).

Keep settings:

Image:  Nie wybrano pliku.

---

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## Step 2: Select the update file that has been previously downloaded.

Status ▾ System ▾ Network ▾ Satellite Phone Fast firewall Logout

Reset to defaults:

To restore configuration files, you can upload a previously generated backup archive here.

Restore backup:  Nie wybrano pliku.

### Flash new firmware image

Upload a sysupgrade-compatible image here to replace the running firmware. Check "Keep settings" to retain the current configuration (requires an OpenWrt compatible firmware image).

Keep settings:

Image:  Nie wybrano pliku.

Wysłanie pliku

Stacja w: Firmware

Przełączanie pliku

Przełączanie pliku

Nazwa pliku: [w2011\_10\_opennet\_sysupgrade\_v0\_01.bin]

Typ pliku: [Wszystkie pliki]

---

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Status ▾ System ▾ Network ▾ Satellite Phone Fast firewall Logout

Reset to defaults:

To restore configuration files, you can upload a previously generated backup archive here.

Restore backup:  Nie wybrano pliku.

### Flash new firmware image

Upload a sysupgrade-compatible image here to replace the running firmware. Check "Keep settings" to retain the current configuration (requires an OpenWrt compatible firmware image).

Keep settings:

Image:  M0881\_10\_openwrt\_sysupgrade\_v0\_03.bin

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Status ▾ System ▾ Network ▾ Satellite Phone Fast firewall Logout

### Flash Firmware - Verify

The flash image was uploaded. Below is the checksum and file size listed, compare them with the original file to ensure data integrity. Click "Proceed" below to start the flash procedure.

- Checksum: `3d1ad03af886f57877b4b753da9c41e7`
- Size: 13.94 MB (126.00 MB available)
- Configuration files will be kept.

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## System - Flashing...

The system is flashing now.

**DO NOT POWER OFF THE DEVICE!**

Wait a few minutes until you try to reconnect. It might be necessary to renew the address of your computer to reach the device again, depending on your settings.



Waiting for changes to be applied...



**WARRANTY**

**No. ....**

**Sattrans Wi-Fi CommStation For Iridium**

Bar code .....

Sale date .....

Warranty is invalid without all written data in the heading.

Remarks:

24 months period of warranty starting from the date of sale.

Company stamp and legible  
signature RETAIL STORE

Stamp and signature  
SPECIALIST INSTALLATION POINT

I accept the warranty conditions  
LEGIBLE SIGNATURE OF CLIENT

No.	Date of submission	Date of repair	Description of repair	Stamp and signature

