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EN Operating and Installation Manual Sattrans Wi-Fi CommStation

for Thuraya XT satellite phone

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

Safety information

- This product should be installed so 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 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 with the retail box. No tools are provided with the product.

Operating Notes

• Thuraya satellite communications have several specific features, which are different from GSM communications. Obstructions such 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 to make satellite calls in open areas, far from any obstructions. Before starting the call, please make sure the satellite signal level is sufficient.

• Sattrans Wi-Fi CommStation allows to get an access to wireless network virtually from each place which is within a reach of up to 20 m. However, the impact range (effective distance) can vary substantially depending on the placement of Sattrans Wi-Fi CommStation. For instance, thickness and number of walls which sound signals must go through will have an influence on shortening this distance.

• In order to get the best effects Sattrans Wi-Fi CommStation should be placed:

- More or less in the middle of the area containing computers and other devices which will connect via Sattrans Wi-Fi CommStation, preferably "on the eye level" of these devices.

- In the vicinity of AC socket 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 the wireless phones.

- Away from big metal surfaces such as door made of solid metal plate 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 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



Description of components:

- 1) Phone cradle only for Sattrans Wi-Fi CommStation
- 2) Sattrans Wi-Fi CommStation (baseplate)
- 3) Power supply adapter
- 4) Car power supply
- 5) Operating and Installation Manual

3. Positioning and mounting

Example of installation in the car:



After having installed Sattrans Wi-Fi CommStation device one should connect it to power supply. Connect power supply adapter (100-240 V) to source of power supply or car power supply adaptor to a cigarette lighter socket in a car on a yacht, and then to USB power supply of Sattrans Wi-Fi CommStation device.

Note:

► Using power supply adapter having different voltage can lead to permanent damage to Sattrans Wi-Fi CommStation device. It is recommended that one should use original power supply adapter which is added to the product.

4. Installing the Satellite Phone in the vehicle

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



Important:

► The correct mounting of the cradle in the Sattrans Wi-Fi CommStation is signalled by a perceptible `clicking' sound.

Removing the cradle from the Sattrans Wi-Fi CommStation.

Important:

▶ Before you remove the cradle from the Sattrans Wi-Fi CommStation you will have to remove the blocking mechanism by pressing the locking button on the right hand side of the Sattrans Wi-Fi CommStation.



5. Inserting and removing the satellite phone

Insert the satellite phone in the cradle.

If necessary, remove the protective cover from your satellite phone. Place the satellite phone in the cradle from above.

Important:

▶ Please remove the antenna cover and compact connector cover from the satellite phone before inserting the phone to the cradle.



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



8 Installation of Sattrans Wi-Fi CommStation

Removing the satellite phone from the cradle.

To release the locking mechanism press the button on the left hand side of the cradle.



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



6. Functions of Sattrans Wi-Fi CommStation device



1 - LAN port (RJ-45)

It enables connection of such devices as a router, PC or a laptop by means of Ethernet cable in order to configure Sattrans Wi-Fi CommStation.

- 2 Power supply socket
- 3 Signalling diodes
- 4 Reset button

Baseplate for Thuraya XT satellite phone, which will include the following main features: - **router** with AP (Access Point)

- **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:

- **VoIP** gateway (Voice over Internet Protocol) allowing to receive/make voice calls inside and outside the network (via satellite phone) between sip client and Thuraya network.
- **sms** functionality (sms message from sip client to Thuraya networks and redirect sms from network to sip client)
- receiving/sending e-mail messages
- browsing websites

Blinking red WAN_CONNECTING: the device will try connect to internet using satellite phone. This may take a while. (it strongly depends from external conditions) Red WAN_CONNECTED: the device will provide connection to internet by Thuraya phone Green VoIP_GATEWAY_READY: the device works as VoIP gateway for Thuraya network, PBX ready Blinking green VoIP_GATEWAY_ACTIVE: internal or external call

LED 1 - for VoIP and WAN status:

Led indicator light (Green and Red)

LED 2 - for Wi-Fi status:

Red	Wi-Fi AP not ready, device powered
Green/Blinking green	Wi-Fi data transfer

Note:

After insertion of the satellite phone into the cradle, the phone should register itself in the network. Operation of the device (phone calls, data transfer) is conditional on satellite signal strength.

You can use device in two ways:

- without data compression direct connection to the Internet without necessity of installing additional applications
- with data compression it requires installation of additional application

Direct connection to the Internet – without data compression

The standard built-in applications for sending e-mails and browsing the Internet websites are used in the connected devices (e.g. PC, smartphone, tablet, notebook). The appropriate application for handling voice calls and sending text messages e.g. XGate Phone must be installed.

Important:

▶ It does not require subscription of Thuraya services for Internet connections.

► We recommend using dedicated tariffs or data packets which enable using data transmission and which will allow to avoid additional costs related to that.

► In order to obtain detailed information one should contact network operator or Service Partner.

In order to establish direct connection to the Internet one should: Select: **Satellite Phone/Connect to the Internet**

Status ▼ System ▼ Network ▼ Satelli	e Phone Logout
Status	
System	
Hostname	Sattrans_Wi-Fi_CommStation
Model	am335x_bury2
Firmware Version	OpenWrt Barrier Breaker SWCS v0.03 - squashfs / LuCl Trunk (git-3b3dc65)
Kernel Version	3.2.57+
Local Time	Fri Sep 12 13:24:47 2014
Uptime	0h 31m 55s
Load Average	0.14, 0.18, 0.20
192, 165, 1. 1/cg-bn/ku/ptok=172633611sel#32ddaca71aa3b0c0098/jednin/sattane_connect	

Status + System + Network + Satellite Phone Logout		
Satellite Phone Internet connection manager		
Choose action:		
Connection status:		
Powered by LuCl Trunk (git-3b3dc65) OpenWrt Barrier Breaker SWCS v0.03 - squashfs		
Occelement na 192 196 11		

Status - System - Network - Satellite Phone Logout	
Satellite Phone Internet connection manager	
Choose action:	
Connect to the Internet Disconnect the Internet Check status of connection	
Connection status:	
Powered by LuCl Trunk (gil-3b3dc65) OpenWrt Barrier Breaker SWCS v0.03 - squashfs	
	~

In order to check the status of the connection choose "Check status of connection".



In order to end the Internet connection, press "Disconnect the Internet" button.



Connection to the Internet with data compression

- it requires installation of additional applications

One should install additional applications used for serving phone calls, sending text messages and e-mails on the devices which are connected (e.g. PC, smartphone, tablet, notebook).

With this aim in view, please download and install XGate, XGate Phone, XWeb (devices with Android) or Firefox (PC) applications available on:

www.play.google.com for Android (for the devices with Android)

www.itunes.apple.com for Apple iOS (for iPhone)

www.google/global/morim.net.com for Windows

or from the website: www.globalmarinenet.com/downloads.php

The Android app is a free download in the Google Play store. Its use requires an active XGate subscription.

Important:

▶ It requires subscription of Thuraya services for Internet connections.

► We recommend using dedicated tariffs or data packets which enable using data transmission and which will allow to avoid additional costs related to that.

► In order to obtain detailed information one should contact network operator or Service Partner.

Install according to the instruction manual which can be found on the website and register: **www.globalmarinenet.com/xgate_registration.php**

Important:

 \blacktriangleright 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.

The voucher can be used for activation of XGate account. During registration one should give MAC Address as an activation code of XGate Voucher which is placed on the label at the back of Sattrans Wi-Fi CommStation. Voucher is valid for the period of 30 days from the moment of registration. Information on expiry of validity will be sent to e-mail address provided during registration. For purposes of subscription of XGate service one should contact their seller.

Important note:

► This Prepaid Voucher can be extended.

7. Connecting to Sattrans Wi-Fi CommStation

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

Wi-Fi is switched on in the device to be connected (e.g. PC, smartphone, tablet, notebook). Sattrans Wi-Fi CommStation is connected to power supply.

Note:

► The scope of WiFi signal can be limited.

Establishing the connection

Step 1. Search for available Wi-Fi networks in the device that is to be connected (refer to the operating instructions for the device that is to be connected).

Step 2. In the menu for the networks that are found, select the connection to the "Sattrans Wi-Fi CommStation" network and enter **"sattrans"** password.

Step 3. Select the "Connect".

Disconnecting from the network

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

1. By disconnecting from Sattrans Wi-Fi CommStation in the connected device.

- 2. By switching off the Wi-Fi in the connected device.
- 3. By cutting off source of power supply for Sattrans Wi-Fi CommStation.

Automatic connection

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

- 1. Wi-Fi is switched on in the device to be connected.
- 2. Sattrans Wi-Fi CommStation is connected to power supply.
- 3. The device to be connected saves the password that is required to check the connection.

Note:

▶ With Sattrans Wi-Fi CommStation, can be connected up to ten devices at the same time.

Configuration of Sattrans Wi-Fi CommStation

Enter the following address in the web browser (e.g. Mozilla Firefox) of the device that is connected http://192.168.1.1

Enter the following information; Username: admin

Password: admin

Note:

► After logging onto Sattrans Wi-Fi CommStation for the first time, due to safety reasons, it is recommended that the change of the user name and password should be done immediately.

There are different configuration options on the website such as: update of software, statistics, information about Sattrans Wi-Fi CommStation connection.

Manual modifications of the settings performed by incompetent staff can cause limitation of functioning and even makes it impossible to use the device.

Saving changes to the settings

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

The changes are saved by pressing the "Save&Apply" button.

Reboot of Sattrans Wi-Fi CommStation is performed after selecting System -> Reboot -> Perform reboot.

Password management

The passwords can be managed on the Sattrans Wi-Fi CommStation website via the connected device (see above for the address).

Any changes made will only be noticeable after they have been saved and Sattrans Wi-Fi CommStation has been restarted ("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

Status 🔻 System 🕶	Network ▼ Satellite Phone Logout
Status	Interfaces Wifi
System	DHCP and DNS Hostnames
Hostname	Static Routes rans_Wi-Fi_CommStation
Model	Firewall 335x_bury2
Firmware Version	Configure Diagnostics an Wrt Barrier Breaker SWCS v0.03 - squashfs / LuCl Trunk (git-3b3dc65)
Kernel Version	MAC Device Info Overrides 57+
Local Time	Fri Sep 12 13:28:42 2014
Uptime	0h 35m 50s
Load Average	0.16, 0.18, 0.20
197. 168. 1. 1 (col-bin fuci/stok = 1735b39d 11e5e32ddaca71aa	No 2008 Andrea Marcello Andrea

radio0: Master "Sattrans_Wi-Fi_CommStation" **Wireless Overview** Generic MAC80211 802.11bgn (radio0) Scan **t** Add Q Channel: 1 (2.412 GHz) | Bitrate: ? Mbit/s SSID: Sattrans_Wi-Fi_CommStation | Mode: Master 🗴 Remove Ø Disable 2 Edit 0% BSSID: 5C:31:3E:0C:20:9F | Encryption: mixed WPA/WPA2 PSK (TKIP, CCMP) **Associated Stations** SSID IPv4-Address **RX Rate** TX Rate MAC-Address Signal Noise No information available ÷ 4

Status 👻 System	m 🔻 Netwo	rk ▼ Satellite Phone Logout
Interface Cor	nfiguratio	n
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 in order to select/ change network name

Status - System - Network	✓ Satellite Phone Logout
Interface Configuration	
General Setup Wireless Se	curity MAC-Filter
ESSID	Sattrans_Wi-Fi_CommStation
Mode	Access Point -
Network	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	c
WMM Mode F	<i>⊽</i>
	Save & Apply Save Reset

After introduction of changes, press "Save&Apply" button.

Forgotten password

If the password is forgotten one should restore the factory settings by pressing and holding "Reset" button for 10 seconds. This button is on the left hand side of the device. Restart of the device will be signaled by diodes becoming red.

Important:

► All user settings will be lost.



Changing the language

Select: System/System/Language and Style

Status 👻	System - Network -	Satellite Phone Logout
Status	System Administration	
System		
Hostname		Sattrans_Wi-Fi_CommStation
Model		am335x_bury2
Firmware '		OpenWrt Barrier Breaker SWCS v0.03 - squashfs / LuCl Trunk (git-3b3dc65)
Kernel Ver	Firmware Custom Commands	3.2.57+
Local Time	Reboot	Fri Sep 12 13:31:47 2014
Uptime		0h 38m 55s
Load Avera	age	0.34, 0.26, 0.23
192. 168-1. 1/cgi-bin/fuci/(stok=	1736b39d1Je9e32ddaca7Jaa3b0cc0098,/admin/system/system	

Status - System - Network - Satellite Phone Logo

System

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

General Settings	Logging	Language and Style	
L	.ocal Time	Fri Sep 12 13:57:02 2014 Sync with browser	
	Hostname	Sattrans_Wi-Fi_CommStation	
	Timezone	UTC ·	

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

Status 🕶 System 👻 Networ	k ▼ Satellite Phone Logout	
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	
Language		
Design	English Español Français Polski Русский	
Time Synchronization		
Enable NTD elient	-	

After introduction of changes, press "Save&Apply" button.

Status ▼ System ▼ Netwo	rk ▼ Satellite Phone Logout		
Enable NTP client	Z		
Provide NTP server			
NTP server candidates	0.openwrt.pool.ntp.org	×	
	1.openwrt.pool.ntp.org	×	
	2.openwrt.pool.ntp.org	×	
	3.openwrt.pool.ntp.org	*	
			Save & Apply Save Reset
Powered by LuCl Trunk (git-3b3d	c65) OpenWrt Barrier Breaker SW0	CS v0.03 - squashfs	

Configuration of XGate application

You can use this application for sending text messages and e-mails as well and for browsing the Internet websites. The configuration in Android system has been described by way of illustration.

Step 1. Download XGate app

Download and install the app on your smartphone or tablet running Android 2.3 or higher (see page 10.)

Step 2. Register for a XGate (GMN) account

Navigate to **www.globalmarinenet.com/xgate_registration.php** URL to fill out the registration form, follow the instructions and register for a username and password.

Note:

▶ You must register the service prior to launching 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 XGate app and enter the following information: **Username**, **Password** and click on **"Save"** to gain access to the application.

Important:

► Connected device (PC, smartphone, tablet, notebook) must be connected to Sattrans Wi-Fi CommStation.

Enter the username and password used for registration on www.globalmarinenet.com/ xgate_registration.php.

🗟 🗔 🥱 🍵 14:40 Jser's Settings
Your Name
User Name
gmn-usa.com
Password
Save

Operating guidelines

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 autodetection capability by selecting "AutoDetect Router" button.

Data for settings can be also entered manually.

Wybierz Settings -> Connection

Note:

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

08:46

-	A 88% 08:45	R 🖌 🕺	<u>_</u>
Gate		Settings	
Mail	>	kbarszcz	
Veb	>	Connection	
onnection Control	>	Mail Server	
nd Photo	>	XWeb Proxy Server	
cial Media	×	Images	
ather	>	Social Media	
one	>	Weather	
g account for kbarszcz		Diagnostics:	W
ettinas	>	Version 1.0.0092	
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Gate Help	/		
Terrine 1 0 0002			
Sprawdzam: barszczirid@myiridi	THE REPORT OF A		
onnection Settings	um.net.mbox	Ex X Connection Settings	4
ennection Settings	um.necivibox	Connection Settings Sele Network Connection	.4
ennection Settings Nect Router: WiFiCommStation		Connection Settings Sele Network Connection Op	4
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nection Settings tet Router: IFFiCommStation todetect Router ddress: 192 • 168 • 1 • 1	-	Connection Settings Connection Settings Set Network Connection Optimizer MSAT CAN IP at WiFiCommStation	
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ection Settings Et Router FICOVISTICATION Station addetect Router dress: 192 168 1 1 1 1 tt 5454 time 999 time device default password rall: Block all but mail an	d web	Competence Satitation Competence Satitation Competence Satitation Optimizer MSAT CAN Pat WiFiCommStation P Optimizer Globalstar Optimizer Globalstar Optimizer Indium Pilot Pat Fire Optimizer Isatphone	
Action Settings I ROUTE: FICOMMStation detect Router dress: 192 168 1 1 1 1 rt: 5454 e 998 word: device default password all: Block all but mail an Reset Default	d web	Bernard Settland Connection Settland Connection Optimizer MSAT CAN Per WiFiCommStation Per Optimizer Globalstar Optimizer Iridium Pilot Per Optimizer Isatphone Skipper FBB	
ection Settings at Router FICOmmStation detect Router fress: 192 168 11 1 rt: 5454 etail: Block all but mail an Reset Default	d web	Connection Suthans Suthans Network Connection Optimizer MSAT CAN Pat WiFiCommStation P Optimizer Globalstar Optimizer Globalstar Optimizer Istaphone Skipper FBB Explorer BGAN(not 100/110)	
ection Settings EI Ronter: FICOmmStation detect Router detect Ro	d web	Competence Satitation Competence Satitation Competence Satitation Competence Satitation Competence Satitation Competence)

Enter the password: **webxaccess**

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

Note:

- ▶ In the case of Apple iOS operational system one should act in the same way.
- ▶ Instruction manuals are available on the following website http://www.globalmarinenet.com/

Sending and receiving e-mail messages

Step 1. Open the XGate.

Step 2. Select Mail -> Send/Receive Email

Important:

Satellite telephone must be connected and registered in the network.

🖳 🗂 🖍	🔻 📶 73% 🗐 11:04
XGate	
Mail	>
Web	>
Connection Control	>
Send Photo	>
Social Media	>
Weather	>
Phone	>
Using account for kbarszcz	
Settings	>
XGate Help	>
Version 1.0.0002	

Ēx co ⊄ Mail	* ,₁ 73% 💼 11:04
Email	>
Spool (0)	>
Big Mail (0)	>
Send/Receive Email	>



Operating guidelines

Configuration of Web surfing

The fast web compression technology reduces typical pictures down to 5% of their original size, dramatically reducing download times. In addition to compressing all the images, XWeb also compresses all text streams, removes obnoxious pop-ads, and removes all backgrounds and animations. Faster download times mean greater savings for you.

To access web pages using XGate:

- Step 1. Open the XGate.
- Step 2. Click on the "Web" icon on the home screen. The app will start dialing a connection.

Important:

Satellite telephone must be connected and registered in the network.

🖳 🖋	*	A 74% 🗎 10:59
Mail		>
Web		>
Connection Control		>
Send Photo		>
Social Media		>
Weather		>
Phone		>
Using account for kbarszcz		
Settings		>
XGate Help		>
Manuface 1 0 0000		

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".

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

Note:

Enter the username and password used for registration on www.globalmarinenet.com/ xgate_registration.php.

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Note:

Airtime charges will continue 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 XWeb.

Step 5. When finished, close your XWeb app and return to the XGate app.

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

	👕 🖀 💼 14:03	- em		🖀 🚛 📋 14:04
XWeb Connection	X	Veb Connect	ion	
Connection is UP. Tap to disconnect.		Connecti DOWN. 1 connect.	ion is Fap to	
Go to XWeb			Go to XWeb	
12:01:43 PMJ sending command 12:02:13 PMJ sending command 12:02:13 PMJ sending command 12:02:32 PMJ connection protoco 12:02:32 PMJ connection protoco 12:02:32 PMJ connection protoco 12:02:32 PMJ connection protoco 12:02:32 PMJ logging into 192.1 12:02:32 PMJ logging into 192.1 12:02:32 PMJ logging into 192.1 12:02:32 PMJ sent attogeness of 12:02:32 PMJ sent attogeness of 12:02:32 PMJ set a	bhrtb Si Lo server [2] hrtb [2] BrdDort Lurora [3] RedDort Lurora [3] BedDort Lurora [3] BedDort Lurora [3] Bellot L [3] CE PASSAGED [3] Jactoria [3] Jactoria [3] Jactoria [3] Beld [4] Soft [3] Beld [4] Soft [3] Soft [3] Beld [4] Soft [5] Soft [6] Soft [6]		commercient to 192.16 sent art-logineEVT got a response of - getting Checking. Constraints Starting checking. Constraints Starting checking. Constraints Starting chat (this sent ATD-THURXM) got a response of - connected to the de logging of the mai sending comments of a response of - connected to the sent and comments sent and comments sent and comments sent and comments and comments of - disconnected	<pre>%***** porc 8 1.1 E PASSWORD >>OK< emand is = aeld< >>OK< way take a ->OK< vice byE may take a ->OK<</pre>

Configuration of Asterisk through www

Adding the new user (SIP client)

Step 1.

Connect to the website **192.168.1.1:8088/static/config/index.html** Enter the following information; Username: **admin** Password: **admin**

Step 2.

Mark Users

## System Status	Syste	m Status 🌵					
Please click on a panel to	_						
manage related features	,	Trunks 🕸					[-]
		Status	Trunk	Туре	Username	Port	'Hostname/IP
	1	Extensions	zees LAX SIP			🔍 Free 💛 Ri	[-] nging ● Busy 🔍 UnAvailable
			Extension		Name/Label	Status	Туре
BB Gateway		6001			lack Strong	Messages : 0/0	SIP User
88 Trunks		6002			Skipper	Messages : 0/0	SIP User
# Outgoing Calling Rules		6003			Kowalski	Messages : 0/0	SIP User
99 Dial Plans		6004		1	Rico	Messages : 0/0	SIP User
RE LIEORE		6005		1	esowy	Messages : 0/0	SIP User
		6020		1	Mr. Bean	Messages : 0/0	SIP User
Ring Groups		and the second second	100 B				and the second second

Choose Create New User

+	Create New User Modily Select	ad Users 🗶 Delete Selected Use	rs	List of Us	er Extension	3		Where to Buy		
	6001	Jack Strong	-	Yes	-	DialPlan_bury	6001	Edit K Delete		
	6002	Skipper		Yes		DialPlan_bury	6002	Edit K Delete		
	6003	Kowalski	-	Yes	-	DialPlan_bury	6003	Edit X Delete		
	6004	Rico	-	Yes		DialPlan_bury	6004	Edit K Delete		
	6005	Tesowy		Yes		DialPlan_bury	6005	Edit K Delete		
	6020	Mr. Bean	-	Yes	-	DialPlan_bury	6020	Edit X Delete		

Create New User X
General :
Extension: 6007 ① CallerID Name: Brown ④ DialPlan: DiaPlan_bury 💽 ①
Internal CallerID: 6007 ① CallerID Number: 6007 ①
🗆 🗖 Enable Voicemail for this User 🛈
VoiceMail Access PIN code: Email Address:
Technology
☞ SIP ① □ IAX ① Analog Station: None 🗨 ① flash ①: 750 rxflash ①: 1250
Codec Preference : First : Ju-law V Second : GSM V Third : None V Fourth None V Fifth : None V
VoIP Settings
MAC Address : 6007 ① Line Number : 1 🗸 ① LineKeys: 1 🗸 ①
SIP/IAX Password: 1 IAX: Require Call Token: 1
IAX: Max Call Numbers: 0
NAT: 🗹 ① Can Reinvite: Г ① DTMF Mode: 🛛 🖓 🛈 insecure: no 🗨 ①
Other Options
□ 3-Way Calling (analog) ① □ In Directory ① □ Call Waiting (analog) ① □ ADA User ① □ Is Agent ① Pickup Group: 1 •
Cancel Vupdate

Note:

- ▶ Only one number can be assigned to one user. Numbers must be between 6000 6299.
- 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 XGate Phone application".

Step 3. After completing all data press "Update" button.

General :			
Extension: 6007	CallerID Name: Brown	① DialPlan:	DialPlan_bury 💌 🛈
Internal CallerID: 6007 (1)	Loading		
Enable Voicemail for VoiceMail Access PIN code:	She Email Addres	Saving	0
Technology			
SIP (1) T IAX (1) Analog	Station: None 🗸 🛈 flash 🛈: 7	'50 rxflash ①: 1	250
Codec Preference : First :	w Second GSM Third	None Eouth No	ne Eifth None V

Step 4. The added user will be displayed on the list.

User Extensions on PBX 🗇										
٠	Create New User Modify Select	ed Users X Delete Selected Users]	List of Us	er Extensions			Where to Buy		
	Extension	Full Name	Port	SIP	IAX	DialPlan	OutBound CID			
Г	6001	Jack Strong		Yes		DialPlan_bury	6001	Edit X Delete		
	6002	Skipper		Yes		DialPlan_bury	6002	Edit X Delete		
Г	6003	Kowalski		Yes		DialPlan_bury	6003	Edit X Delete		
	6004	Rico		Yes		DialPlan_bury	6004	Edit X Delete		
П	6005	Tesowy	-	Yes		DialPlan_bury	6005	Edit X Delete		
П	6007	Brown		Yes		DialPlan_bury	6007	Edit X Delete		
П	6020	Mr. Bean		Yes		DialPlan_bury	6020	Edit 🗶 Delete		

Step 5. In order to save the introduced changes press "Apply Changes"

	ensions on PBX 🌵							
+ Cr	eate New User Modify Sele	cted Users	rs	List of Us	er Extensior	18		Where to Buy
Г	6001	Jack Strong	-	Yes	-	DialPlan_bury	6001	Edit K Delete
	6002	Skipper		Yes		DialPlan_bury	6002	Edit 🗶 Delete
Г	6003	Kowalski	-	Yes		DialPlan_bury	6003	Edit 🗴 Delete
	6004	Rico		Yes		DialPlan_bury	6004	Edit 🗶 Delete
П	6005	Tesowy	-	Yes	-	DialPlan_bury	6005	Edit K Delete

Apply Changes Logout

More details on website: www.asterisk.org

Configuration of XGate Phone application

Use this application in order to start and take a phone call and to send and receive a text message (SMS) inside the network and send a text message outside the network.

Step 1. Open XGate Phone application.

Step 2. Select "Settings" buttons.

Enter the following information; Username, Password, Proxy

🖳 🥌 🛙	⊒ Reaister	ed	😤 🞢 74% 💼 14:10	R 🕤 🗖	😤 🚛 74% 💼 14:12	Ex 🥌 🗳	î dan 14:12 💼 14:12
Nu	ımbe	er or a	ddress	About SIP ACCOUNTS		Username* 6003	
		-	7	6003 Default account		Proxy <sip:192.168.1.1;tr< th=""><th>ansport=udp></th></sip:192.168.1.1;tr<>	ansport=udp>
	1			PREFERENCES		Password*	
	4	5	6 «	Start at boot time	<		
	7	8	9				
	*	0	#				
2	+	C	×				
C	Contacts		Chat Settings	C L History Contacts	Chat Settings	C L History Contact	s Chat Settings

Note:

► Enter the username and password used when setting up your account on Asterisk - MAC Address i SIP/IAX Password.

► In Proxy entry choose the same IP of router as is found in XGate (IP address 192.168.1.1 see page 18, step 4.) This field must contain the full entry <sip: 192.168.1.1;transport=udp>

Operating guidelines



Note:

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

▶ Test of connection can be performed by choosing 600-echo test.

Making connections inside the network

After correct configuration one can make the phone call or send text messages to the user name assigned inside network (e.g. 6000) using XGate Phone application.

Making connections outside the network

Important:

Satellite phone must be connected and registered in the network.

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

Sending text messages (SMS) outside network

While sending text message (SMS) outsider network select "+", country code and phone number (e.g. +48xxxx), and then press "Sand".

Accepting internal and external phone calls is performed in an identical way by pressing the icon of the handset.

8. Configuration of Wi-Fi repeater

Repeater, that is wireless Wi-Fi signal extender which is within the reach of Wi-Fi router receives network signal and distributes it further and at the same time it amplifies and conditions this signal. Thus, the effective range of Wi-Fi is increased.

In our case, the second device (slave device) of Sattrans Wi-Fi CommStation will serve the function of the repeater. The "Master" device is the first device of Sattrans Wi-Fi CommStation with connected satellite phone.

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

Step 2. Log onto administration interface.

Step 3. Selekt from the menu Network -> Interfaces.



Step 4. Select "Edit" at LAN interface.

Status 👻 Sy	vstem ▼ Network ▼ Sate	Ilite Phone Log	gout								Â
PPP LA	N										
Interfac	Interfaces										
Interface (Dverview										
Network	Status		Actic	ons							
LAN	Uptime: 0h 47m 40s MAC-Address: D0:F RX: 412.88 KB (3855 TX: 790.05 KB (3244 IPv4: 192.168.1.1/24 IPv6: FD54:BC1B:EE	F:50:B7:24:AE Pkts.) Pkts.) :6F:0:0:0:0:1/60	ग	Connect	2	Stop		Edit	×	Delete	
PPP	RX : 0.00 B (0 Pkts.) TX : 0.00 B (0 Pkts.)		ø	Connect	8	Stop		Edit	×	Delete	

Step 5. Change IP address for another one which doesn't colide with DHCP range and with other devices in the network, e.g. PC from which we connect.

Note:

► Remember this address e.g. 192.168.1.11 because at this address the "slave" device-repeater will be available.

▶ If necessary, one can get access by resetting the device and restoring factory settings.

Status 👻 System 👻 Networ	k ▼ Satellite Phone Logout
	RX: 427.66 KB (3994 Pkts.) TX: 852.50 KB (3400 Pkts.) IPv4: 192.168.1.1/24 IPv6: FD54:BC1B:EE6F:0:0:0:0:1/60
Protocol	Static address
IPv4 address	192.168.1.11
IPv4 netmask	255.255.255.0
IPv4 gateway	
IPv4 broadcast	
Use custom DNS servers	1

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

Status -	System -	Network 🗸	Satellite Phone	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 Phys	ical Settings	Firewall Settings
	Status	ھڑچ br-lan	Uptime: (MAC-Add RX: 433.3 TX: 860.0 IPv6: FD5	Dh 48m 8s dress: D0:FF:50:B7:24:AE 4 KB (4075 Pkts.) 1 KB (3481 Pkts.) 54:BC1B:EE6F:0:0:0:0:1/60
	Protocol	Static address		
IF	^o v4 address	192.168.1.11		
IF	v4 netmask	255.255.255.0		
IF	v4 gateway			
IPv	4 broadcast			
Use custom E	NS servers			1
IPv6 assign	ment length	60	of given length	of every public IPv6-prefix to this interface
IPv6 assi	ignment hint	 Assign prefix p 	parts using this	hexadecimal subprefix ID for this interface.
DHCP Serve	r			
General Setup				
Igno	ore interface	🖾 🕑 Disable DH	ICP for this inte	arface.
				Save & Apply Save Reset
	unk (ait-3b3d	265) OpenWrt Barr	or Broakor SM	/CS v0.03 - equashfe

Step 7. Click "Save&Apply".

From then on the device will be available under new IP address-interface will stop working until entering new address in the web browser.

Status ▼ System ▼ Network ▼ Satellite Phone Logout
Assign prefix parts using this hexadecimal subprefix ID for this interface.
DHCP Server
General Setup
Ignore interface 🛛 😰 🔘 Disable <u>DHCP</u> for this interface.
Save & Apply Save Reset
Powered by LuCl Trunk (git-3b3dc65) OpenWrt Barrier Breaker SWCS v0.03 - squashfs

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

Note:

► If there are more devices, one should use standard Ethernet hub in order to connect them (so called switch).

► One should remember that IP addresses of slave devices (repeaters) should be different but the configuration diagram remains the same.

From then on one can log onto both devices via Wi-Fi in the same way.

Both devices 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 device (connected to satellite phone).

Note:

Coverage areas of all devices should not cover (stand next to one another)

Switching of the phone from one to another AP doesn't have to be fluid and it may even end with disconnection of active VoIP connection- a lot depends on status, that is phone and its operating system. Therefore, one should not walk during phone call which should not be interrupted or one should not stay in the areas of multiple coverage area as long as it is possible.

► No other APs, onto which phone can be logged after losing coverage area, should be within station range because there is big probability that the phone will do that instead of logging onto repeater (or the other way round).

9. Firmware update

The current software version is available at ...?

Please carry out the following steps on Sattrans Wi-Fi CommStation prepare the Sattrans Wi-Fi CommStation for the update:

Notice:

► The update is carried out at your own risk! We do not assume liability for any damages to the device arising from and during the update.

▶ The power supply of the kit may not be interrupted during the update procedure.

Step 1:

Select: System/Backup / Flash Firmware and follow the instructions (red rectangles):



Operating guidelines

Status ▼ System ▼ Netwo	rk ▼ Satellite Phone Logout								
Reset to defaults:	Ø Perform reset								
To restore configuration files, you can upload a previously generated backup archive here.									
Restore backup:	Przeglądaj Nie wybrano pliku.								
Flash new firmware ir	nage								
Upload a sysupgrade-compatible an OpenWrt compatible firmware	e image here to replace the running firmware. Check "Keep settings" to retain the current configuration (requires i image).								
Keep settings:	R								
Image:	Przeglądaj,, Nie wybrano pliku. 💽 Flash image								
Powered by LuCl Trunk (git-3b3dc65) OpenWrt Barrier Breaker SWCS v0.03 - squashfs									

Step 2: Select the update previously downloaded.

Status 🕶 System 👻 Network	:▼ Satellite Phone Logout
Reset to defaults:	Ny National Bandard (Carlos Carlos Ca
To restore configuration files, you	e here.
Restore backup:	Upload archive
Flash new firmware in	Non-mark Notality 100,000mm4 (paugeda (0,0)) Onder Ref low: Maryshie pile Ander
Upload a sysupgrade-compatible ir an OpenWrt compatible firmware ir	mage here to replace the running firmware. Check "Keep settings" to retain the current configuration (requires mage).
Keep settings:	R
Image:	Przeglądaj Nie wybrano pliku. I Flash image
Powered by LuCI Trunk (git-3b3dc6	55) OpenWrt Barrier Breaker SWCS v0.03 - squashfs

Status	rk ▼ Satellite Phone Logout						
Reset to defaults:	Perform reset						
To restore configuration files, you	can upload a previously generated backup archive here.						
Restore backup:	Przeglądaj Nie wybrano pliku.						
Flash new firmware in	nage						
Upload a sysupgrade-compatible an OpenWrt compatible firmware	image here to replace the running firmware. Check "Keep settings" to retain the current configuration (requires image).						
Keep settings:	F						
Image:	Przeglądaj M0881_10_openwrt_sysupgrade_v0_03.bir Flash image						
Oczekiwanie na 192.168.1.1.	coo) Openvvrt Barner Breaker SvvCS v0.03 - squasnis						

Status • System • Network • Satellite Phone 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.
Cancel Proceed
Powered by LuCI Trunk (git-3b3dc65) OpenWrt Barrier Breaker SWCS v0.03 - squashfs

System - Flashing...

The system is flashing now.

Lączenie się z 192.168.1.1...

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

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.



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