

Integrabus Wifi Eco



User Manual Rev. 01

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1. Product Overview

IntegraBus Wifi devices provide high quality Internet access (WLAN) in public transport vehicles. The devices are specially designed for use in public transport.

Main features:

- Industrial electronic and mechanical components
- 4G (LTE) Network
- Provide access for up to 50 users
- The unique, Fair Bandwidth technology, helps to avoid downloading bigger amount on data from the same address (i.e. streaming music or movie), but supports preferring the normal browsing (looking websites, mailing functions).

2. Default configuration

The Wifi Eco router device is shipped with the following factory default network settings:

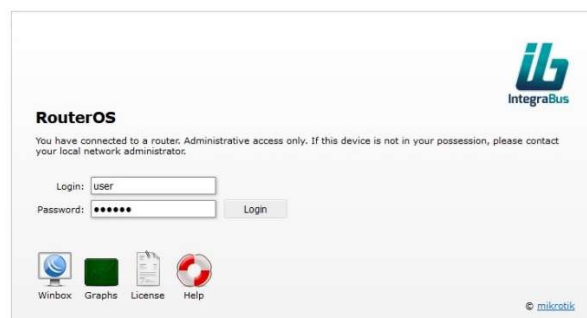
SSID: Integrabus
Password: no password

Upon request the devices can be shipped with special configuration settings.

3. Configuration interface

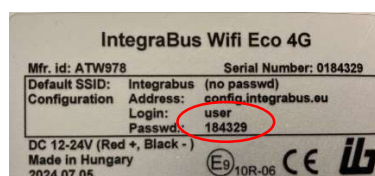
The basic WLAN parameters can be set by the integrated web configuration interface of the device. Follow the next steps to enter configuration surface:

1. Power on Wifi Eco router and wait until the Wifi network is available.
2. Connect to the Wifi network of the device to be set. Use the factory default or the last configured SSID/password settings.
3. On a computer or a smartphone start the web browser and go to **config.integrabus.eu** page or **10.10.11.254** IP address.

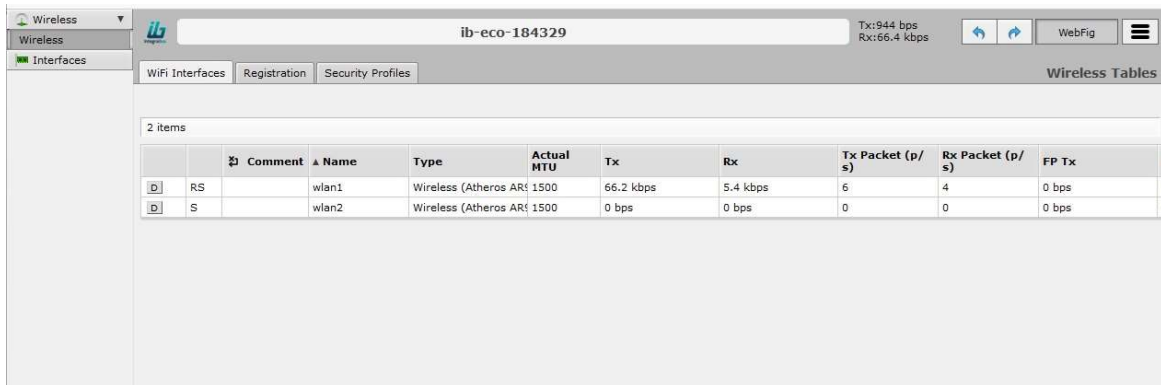


Login: **user**

Password: Password can be found on product label



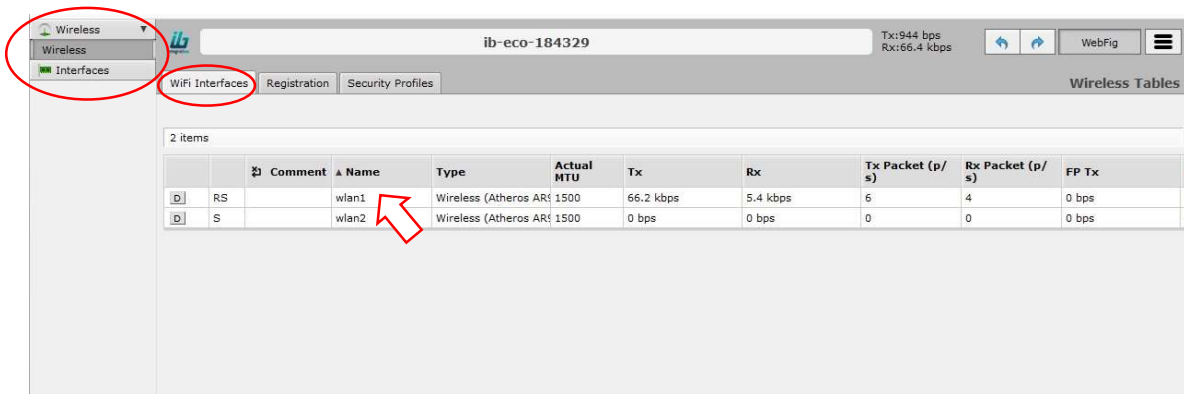
4. If the entered login and password is correct the device enters to the configuration page:



	Comment	Name	Type	Actual MTU	Tx	Rx	Tx Packet (p/s)	Rx Packet (p/s)	FP Tx
D	RS	wlan1	Wireless (Atheros AR)	1500	66.2 kbps	5.4 kbps	6	4	0 bps
D	S	wlan2	Wireless (Atheros AR)	1500	0 bps	0 bps	0	0	0 bps

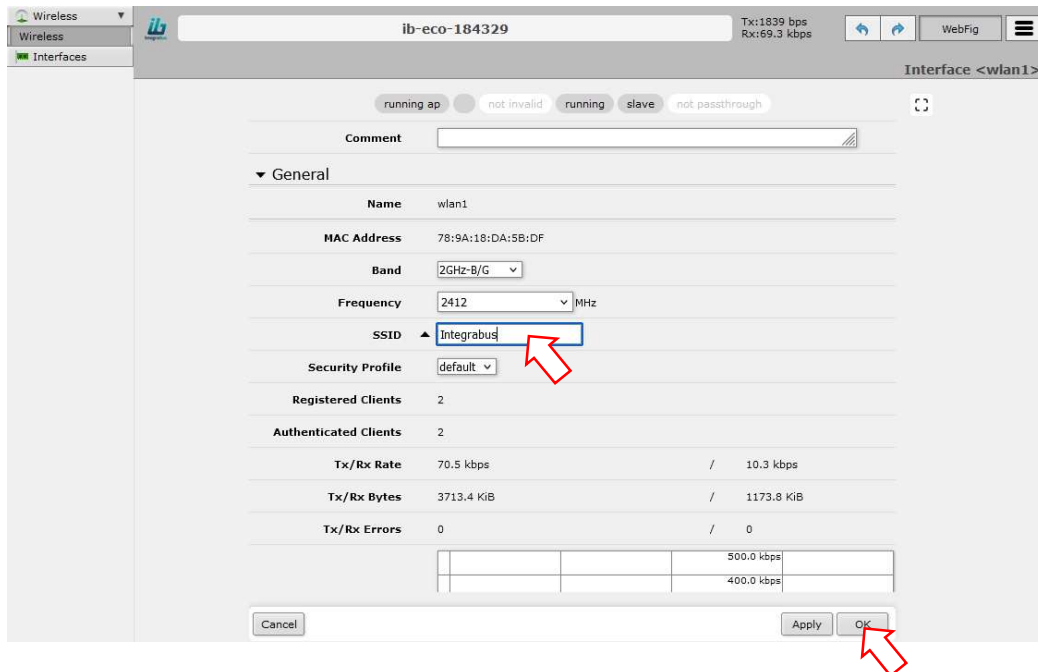
4. Setting new SSID

1. Enter into the Configuration interface as it is described in point 3.
Please note that there are 2 integrated Wifi interface in Wifi Eco device, so you must set the new SSID on both.
2. Select Wireless menu and Wireless submenu on top left corner of the page.
Please check the **Wifi Interfaces** tab is active.
Click on **wlan1** interface line.



	Comment	Name	Type	Actual MTU	Tx	Rx	Tx Packet (p/s)	Rx Packet (p/s)	FP Tx
D	RS	wlan1	Wireless (Atheros AR)	1500	66.2 kbps	5.4 kbps	6	4	0 bps
D	S	wlan2	Wireless (Atheros AR)	1500	0 bps	0 bps	0	0	0 bps

3. In SSID field enter the new SSID name you want to use, and click on **OK** button.



Wireless
Interfaces

ib-eco-184329 Tx:1839 bps Rx:69.3 kbps

Interface <wlan1>

running ap not invalid running slave not passthrough

Comment

General

Name wlan1

MAC Address 78:9A:18:DA:5B:DF

Band 2GHz-B/G

Frequency 2412 MHz

SSID Integrabus

Security Profile default

Registered Clients 2

Authenticated Clients 2

Tx/Rx Rate 70.5 kbps / 10.3 kbps

Tx/Rx Bytes 3713.4 KiB / 1173.8 KiB

Tx/Rx Errors 0 / 0

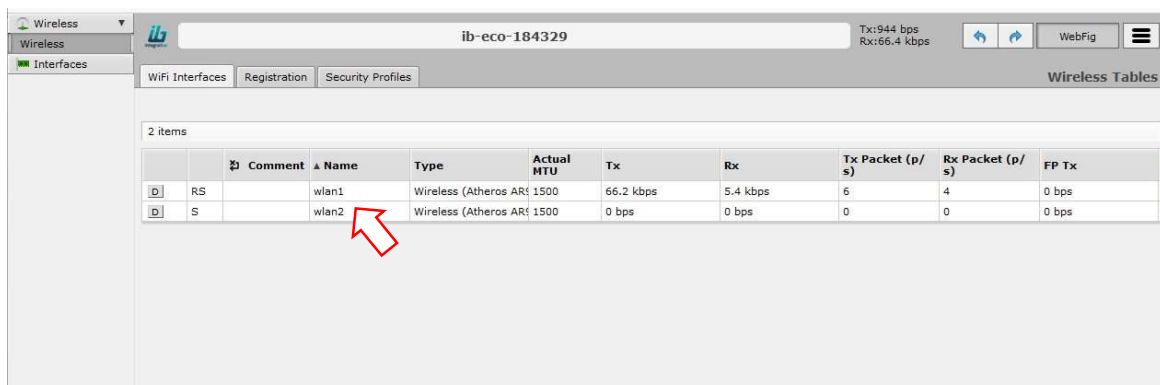
500.0 kbps

400.0 kbps

Cancel Apply OK

After SSID reconfiguration the connection can be lost and your computer or mobile device need to be reconnected!

4. Go back to Wireless submenu page and click on **wlan2** interface line.



Wireless
Interfaces

ib-eco-184329 Tx:944 bps Rx:66.4 kbps

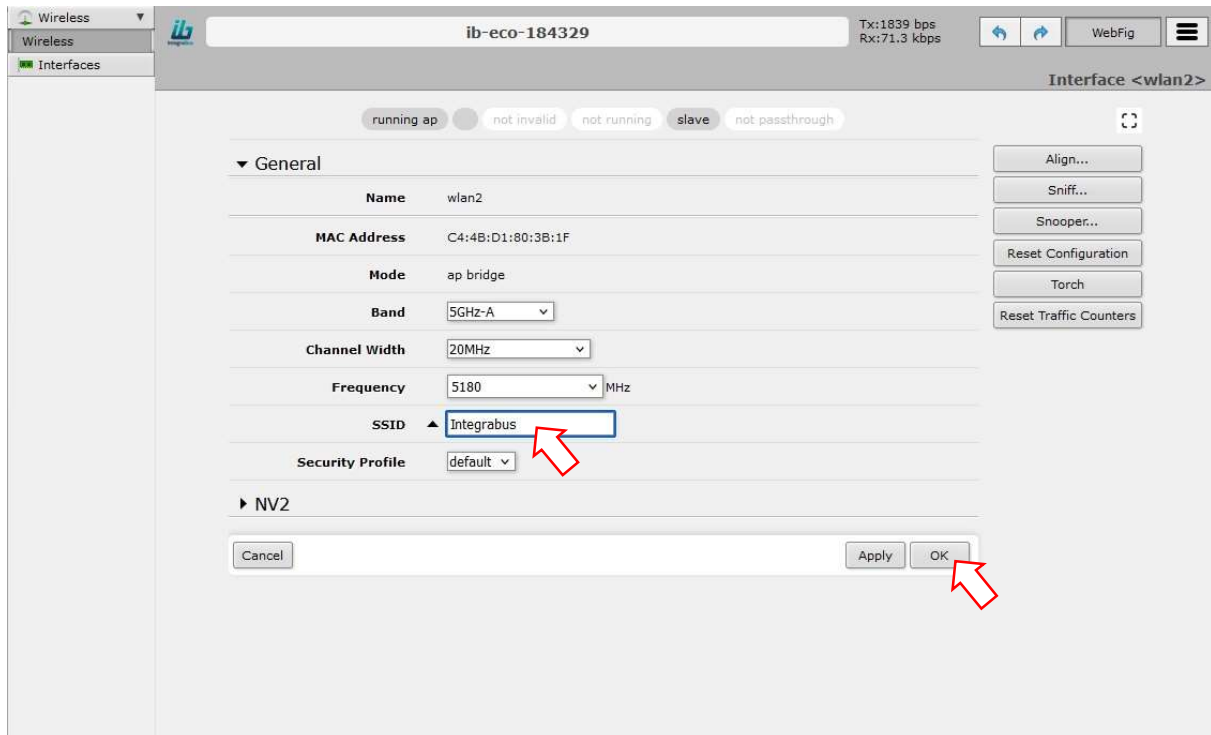
WiFi Interfaces Registration Security Profiles

Wireless Tables

2 items

	Comment	Name	Type	Actual MTU	Tx	Rx	Tx Packet (p/s)	Rx Packet (p/s)	FP Tx
D	RS	wlan1	Wireless (Atheros AR)	1500	66.2 kbps	5.4 kbps	6	4	0 bps
D	S	wlan2	Wireless (Atheros AR)	1500	0 bps	0 bps	0	0	0 bps

5. In SSID field enter the new SSID name you want to use, and click on OK button.



The screenshot shows the configuration page for the 'wlan2' interface. The 'General' tab is active. The 'SSID' field is set to 'Integrabus' and is highlighted with a red box. A red arrow points to the 'OK' button at the bottom right of the configuration area. Other fields include Name (wlan2), MAC Address (C4:4B:D1:80:3B:1F), Mode (ap bridge), Band (5GHz-A), Channel Width (20MHz), and Frequency (5180 MHz). The 'Security Profile' is set to 'default'.

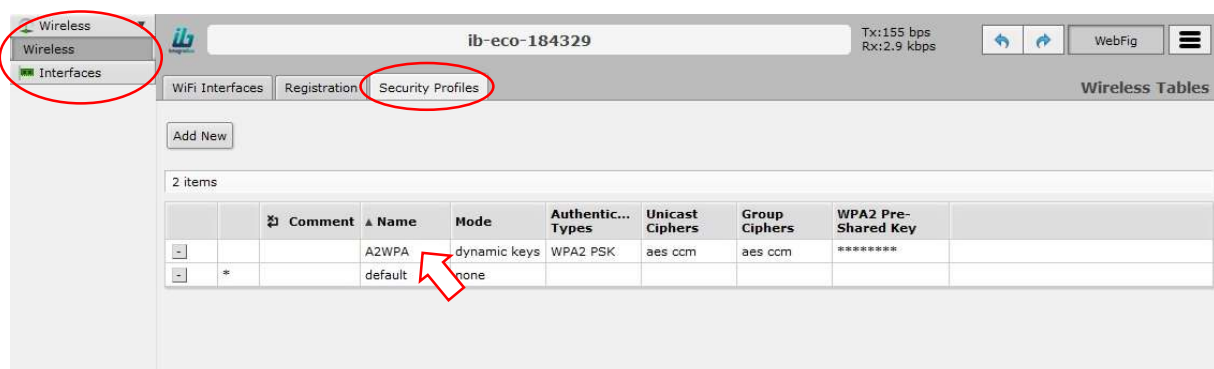
After SSID reconfiguration the connection can be lost and your computer or mobile device need to be reconnected!

If you want to protect your wifi network with password, please follow the point 5 or if you prefer your network to be free, follow the point 6.

5. Setting new Password

If you want password protected Wifi network you can set the password in the following way.

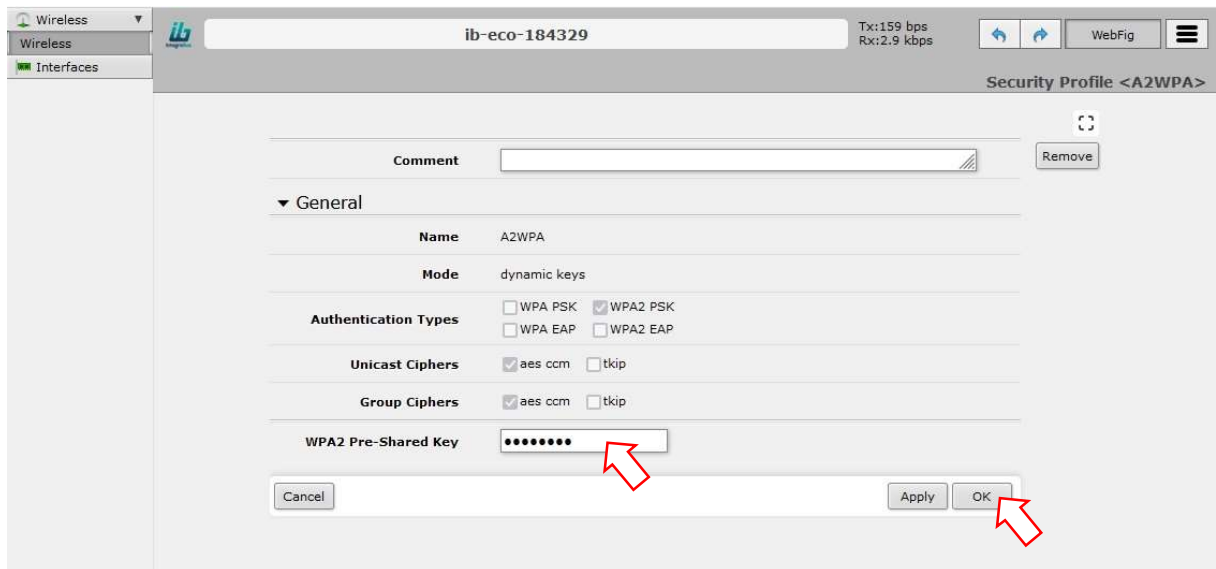
1. Enter into the Configuration interface as it is described in point 3.
2. Select Wireless menu and Wireless submenu on top left corner of the page.
Please select Security Profiles tab.
Click on **A2WPA** line.



The screenshot shows the 'Security Profiles' tab in the configuration interface. The 'Wireless' menu and 'Security Profiles' tab are highlighted with red circles. The 'A2WPA' profile is highlighted with a red arrow. The table below shows the configuration for the 'A2WPA' profile.

	Comment	Name	Mode	Authentic... Types	Unicast Ciphers	Group Ciphers	WPA2 Pre-Shared Key
-		A2WPA	dynamic keys	WPA2 PSK	aes ccm	aes ccm	*****
-	*	default	none				

3. In **WPA Pre-Shared Key** field enter the new password you want to use, and click on OK button.



Wireless
Wireless
Interfaces

ib-eco-184329 Tx:159 bps Rx:2.9 kbps WebFig

Security Profile <A2WPA>

Comment [field] Remove

General

Name A2WPA

Mode dynamic keys

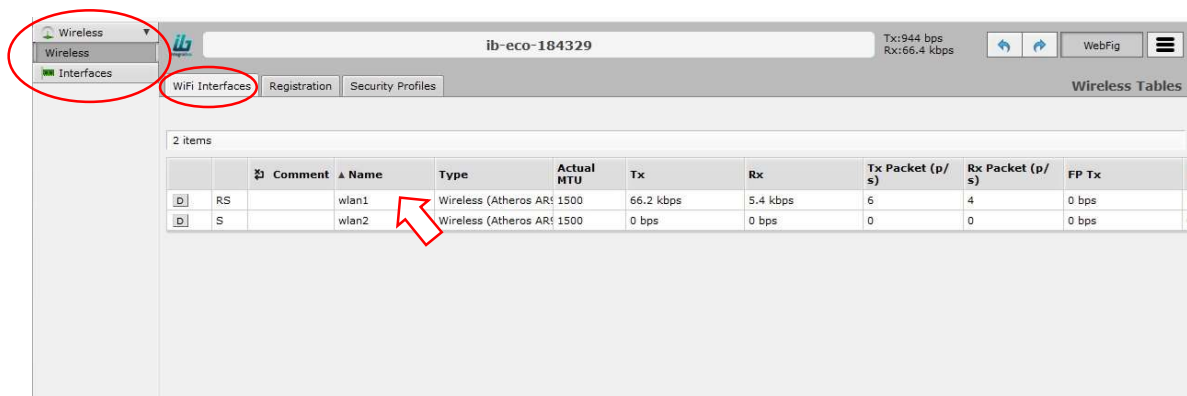
Authentication Types ☐ WPA PSK ☒ WPA2 PSK ☐ WPA EAP ☐ WPA2 EAP

Unicast Ciphers ☒ aes ccm ☐ tkip

Group Ciphers ☒ aes ccm ☐ tkip

WPA2 Pre-Shared Key [field] Cancel Apply OK

4. Go back to Wireless menu and Wireless submenu page and select Wifi Interfaces tab.
Click on **wlan1** interface line.



Wireless
Wireless
Interfaces

ib-eco-184329 Tx:944 bps Rx:66.4 kbps WebFig

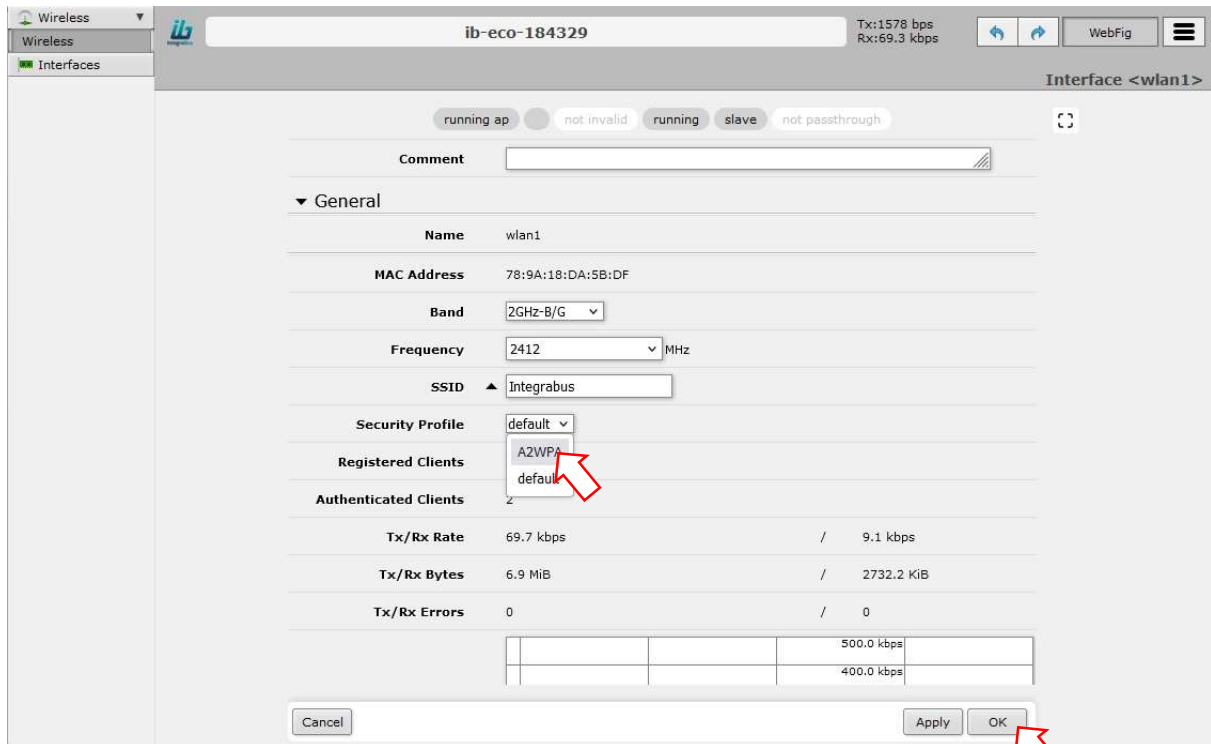
Wifi Interfaces Registration Security Profiles

Wireless Tables

2 items

		Comment	Name	Type	Actual MTU	Tx	Rx	Tx Packet (p/s)	Rx Packet (p/s)	FP Tx
[D]	RS		wlan1	Wireless (Atheros AR1500)	1500	66.2 kbps	5.4 kbps	6	4	0 bps
[D]	S		wlan2	Wireless (Atheros AR1500)	1500	0 bps	0 bps	0	0	0 bps

5. In **Security Profile** drop down list select **A2WPA** item, and click on OK button.



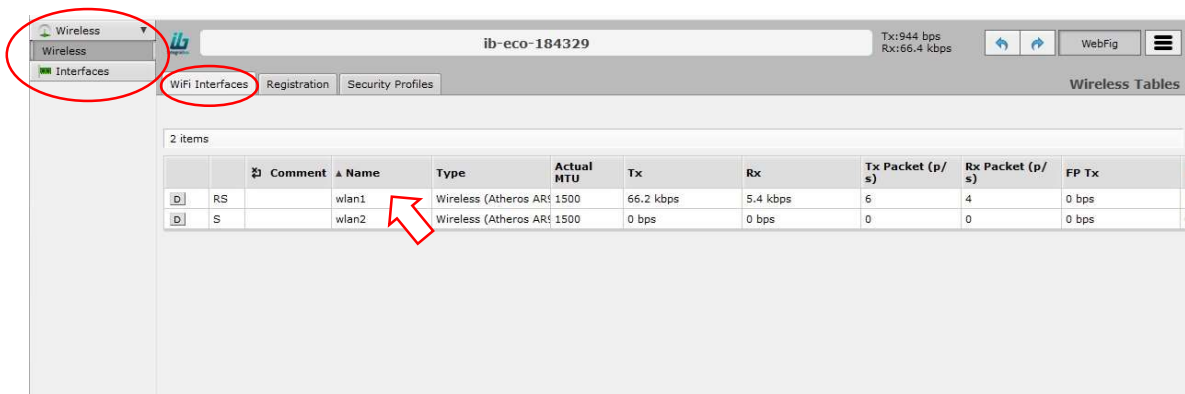
The screenshot shows the 'Interface <wlan1>' configuration page. The 'Security Profile' dropdown menu is open, displaying 'default' and 'A2WPA' options. A red arrow points to the 'A2WPA' option. Another red arrow points to the 'OK' button at the bottom right of the configuration form.

6. Go back to Wireless menu and Wireless submenu page and **repeat the same process** on **wlan2** interface what you did on wlan1 interface in **point 4 and 5**.

6. Setting free wifi network

To set free wifi network you can disable the password in the following way.

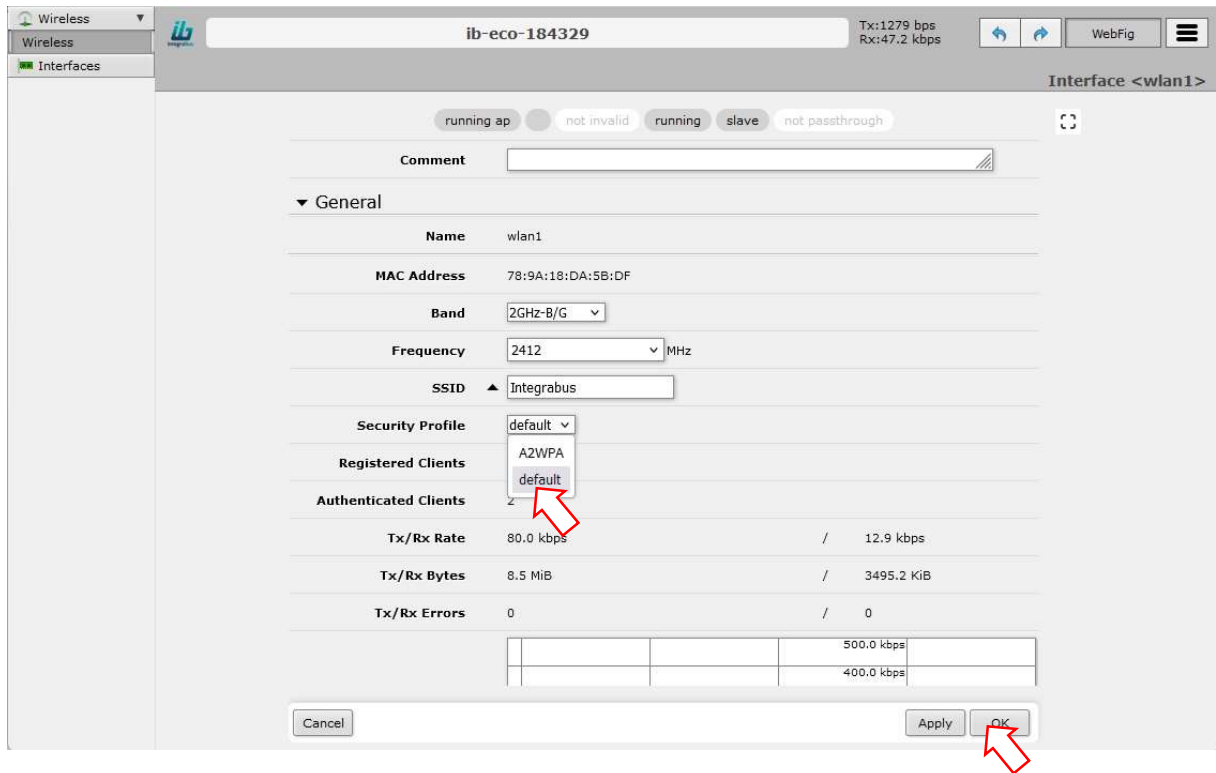
1. Enter into the Configuration interface as it is described in point 3.
2. Go to Wireless menu and Wireless submenu page and select Wifi Interfaces tab.
Click on **wlan1** interface line.



The screenshot shows the 'Wifi Interfaces' tab in the configuration interface. The 'wlan1' interface line is highlighted with a red arrow. The table below shows the configuration for wlan1 and wlan2.

	Comment	Name	Type	Actual MTU	Tx	Rx	Tx Packet (p/s)	Rx Packet (p/s)	FP Tx
D	RS	wlan1	Wireless (Atheros AR	1500	66.2 kbps	5.4 kbps	6	4	0 bps
D	S	wlan2	Wireless (Atheros AR	1500	0 bps	0 bps	0	0	0 bps

3. In Security Profile drop down list select **default** item, and click on OK button.



Wireless
Wireless
Interfaces

ib-eco-184329 Tx:1279 bps Rx:47.2 kbps WebFig

Interface <wlan1>

running ap not invalid running slave not passthrough

Comment

General

Name wlan1

MAC Address 78:9A:18:DA:5B:DF

Band 2GHz-B/G

Frequency 2412 MHz

SSID Integrabus

Security Profile default

Registered Clients default

Authenticated Clients

Tx/Rx Rate 80.0 kbps / 12.9 kbps

Tx/Rx Bytes 8.5 MiB / 3495.2 KiB

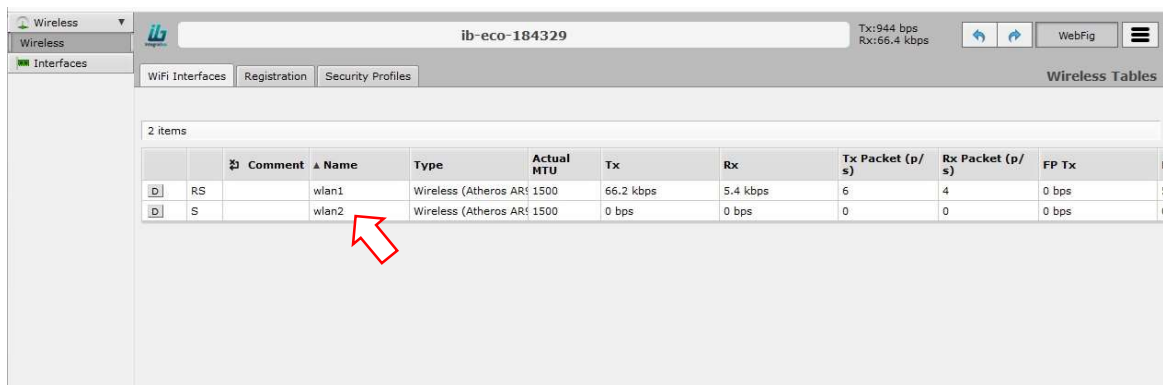
Tx/Rx Errors 0 / 0

500.0 kbps

400.0 kbps

Cancel Apply OK

4. Go back to Wireless submenu page and click on **wlan2** interface line.



Wireless
Wireless
Interfaces

ib-eco-184329 Tx:944 bps Rx:66.4 kbps WebFig

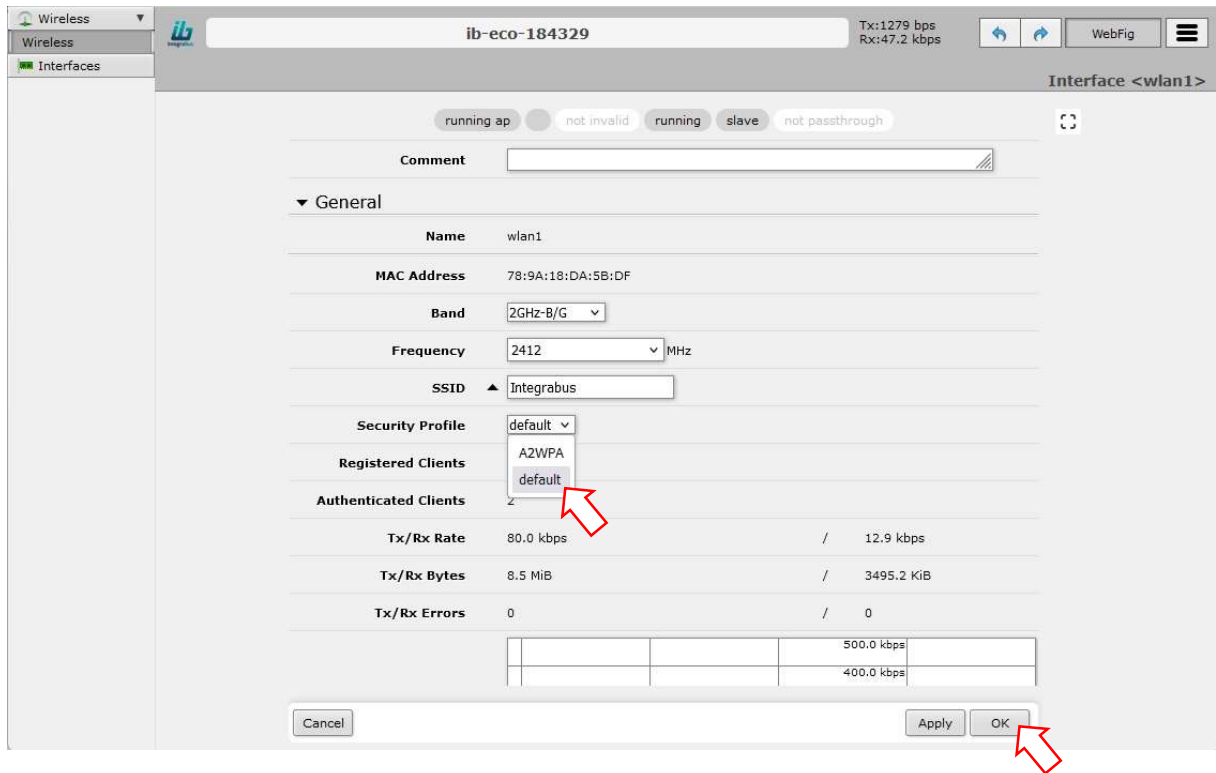
WiFi Interfaces Registration Security Profiles

Wireless Tables

2 items

		Comment	Name	Type	Actual MTU	Tx	Rx	Tx Packet (p/s)	Rx Packet (p/s)	FP Tx
D	RS		wlan1	Wireless (Atheros AR)	1500	66.2 kbps	5.4 kbps	6	4	0 bps
D	S		wlan2	Wireless (Atheros AR)	1500	0 bps	0 bps	0	0	0 bps

5. In Security Profile drop down list select **default** item, and click on OK button.



Wireless
Wireless
Interfaces

ib-eco-184329 Tx:1279 bps Rx:47.2 kbps WebFig

Interface <wlan1>

running ap not invalid running slave not passthrough

Comment

▼ General

Name wlan1

MAC Address 78:9A:18:DA:5B:DF

Band 2GHz-B/G

Frequency 2412 MHz

SSID Integrabus

Security Profile default

Registered Clients default

Authenticated Clients

Tx/Rx Rate 80.0 kbps / 12.9 kbps

Tx/Rx Bytes 8.5 MiB / 3495.2 KiB

Tx/Rx Errors 0 / 0

500.0 kbps

400.0 kbps

Cancel Apply OK

7. Setting APN

To set special APN belonging your SIM card please follow the steps below.

1. Enter into the Configuration interface as it is described in point 3.
2. Select Interfaces Menu on top left corner of the page.
Click on **LTE APNs** button.



Wireless
Interfaces

ib-eco-184329 Tx:944 bps Rx:63.7 kbps WebFig

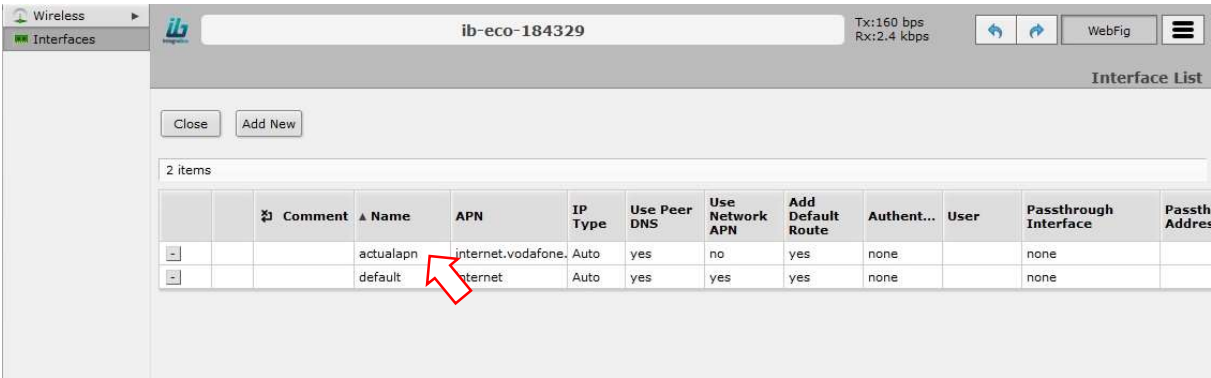
Interface List

LTE APNs LTE Cell Monitor LTE Scanner

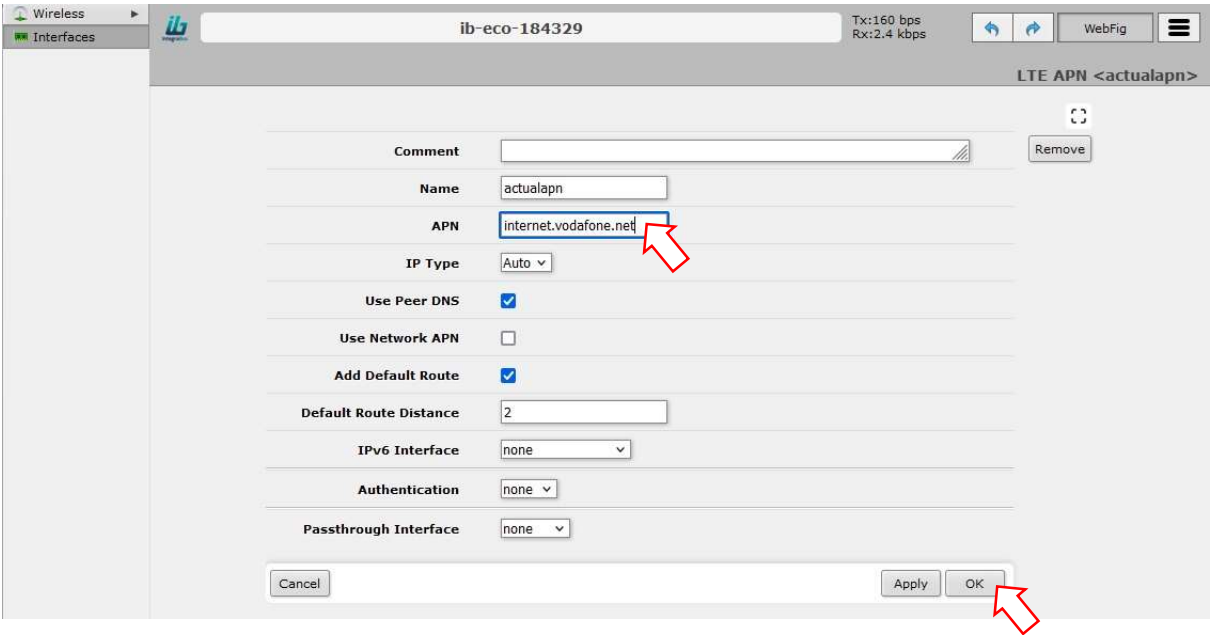
1 item

Comment	Name	Type	Tx	Rx	Tx Packet (p/s)	Rx Packet (p/s)	FP Tx
lte1	LTE	0 bps	0 bps	0	0	0 bps	0 bps

3. Click on **actualapn** line.



4. Enter the new APN setting in the APN text field, and press OK button.



8. Document History

rev	History	Date	Author
R01	First release	2024.07.05.	epapp