



# Teltonika RUT - Stand Alone Mode (SAM)

## Objective

This tutorial aims to configure Teltonika equipment to work with the ZOOXWIFI hotspot.

## Prerequisites

- Firmware with updated version
- The equipment must have full Internet access

**Some adjustments may be necessary due the client's peculiar network settings. If this is the case, contact the Zoox Homologation Team.**

## 1 . Installing Hotspot Package

1.1 go to **Services>Package Manager>** on the search field, type **HOTSPOT** and hit the plus button besides hotspot to install the hotspot package

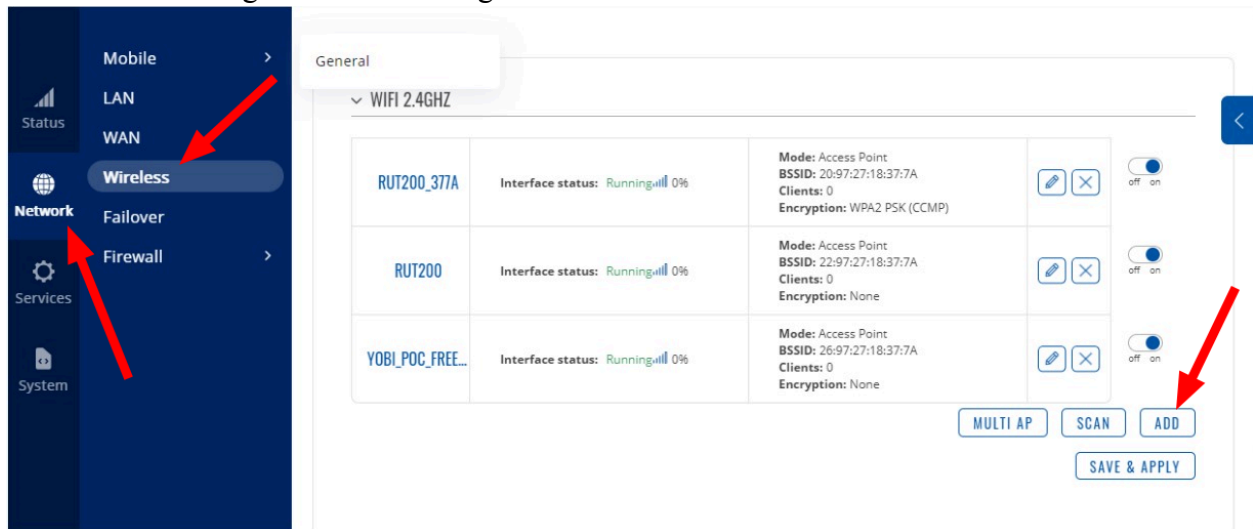
The screenshot shows the Teltonika RUT web interface. On the left, the 'Services' menu is open, and 'Package Manager' is selected. The 'Hotspot' package is highlighted in red, indicating it is installed. The 'Package Manager' section displays a table of installed and available packages.

Package	Installed Version	Available Version	Status	Actions
Hotspot	2023-01-30-1	2023-01-30-1	Installed	[X]
Azure IoT Hub	-	2023-02-13-1	Available	[+]
BGP daemon	-	5.0.2-1	Available	[+]
Cumulocity - Cloud of Things	-	2023-02-13-1	Available	[+]
Data to Server	-	2022-12-21	Available	[+]
DDNS	-	2023-02-13-1	Available	[+]

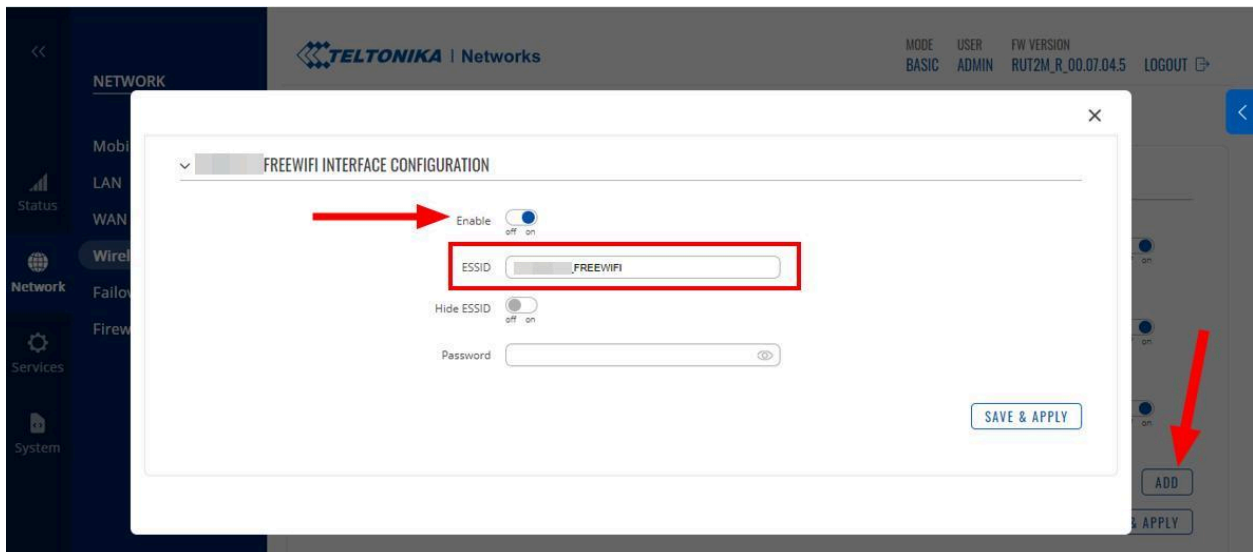


## 2 . Configuring Wireless Interface

2.1 On **NETWORK>WIRELESS>INTERFACE CONFIGURATION**, click on ADD button and follow the image below for configuration



**Enable:** ON  
**ESSID:** Anyone  
**HIDE SSID:** Disabled  
**Password:** Blank

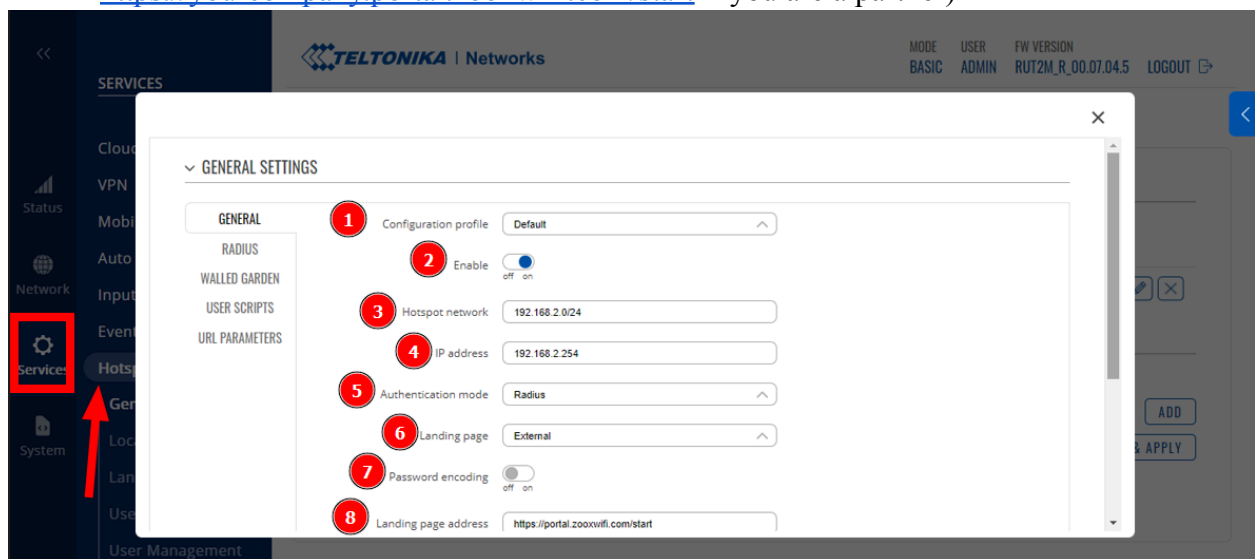




### 3 . Hotspot

3.1 Go to **Services>Hotspot** and select the SSID you created on **step 2.2** and hit ADD button and fill the fields as bellow:

1. Configuration Profile: Default
2. Enable: ON
3. Hotspot network: Any ip you want
4. Ip address: Gateway for the above network
5. Authentication mode: Radius
6. Landing Page: external
7. Password encoding: OFF
8. Landing Page address: <https://portal.zoowifi.com/start> (Or <https://yourcompany.portal.zoowifi.com/start> if you are a partner)





3.2 still on General Settings scroll down and fill the fields with the following information:

1. UAM port: 3990
2. UAM secret: zoox@zoox\*\*
3. Success page: Success page

A screenshot of the Teltonika Networks web interface. A modal dialog box titled "General Settings" is open, showing configuration options for a service. The dialog has a close button (X) in the top right corner. The settings include: "Authentication mode" set to "Radius", "Landing page" set to "External", "Password encoding" with a toggle switch set to "off", and "Landing page address" set to "https://portal.zooxwifi.com/start". Below these, there are three fields with red circular numbers 1, 2, and 3 next to them: "UAM port" with the value "3990", "UAM secret" with a masked value "\*\*\*\*\*", and "Success page" with the value "Success page". A "SAVE & APPLY" button is at the bottom right of the dialog. The background shows the main interface with a sidebar menu and a top header with "MODE BASIC", "USER ADMIN", "FW VERSION RUT2M\_R\_00.07.04.5", and a "LOGOUT" button.

\* The **UAM SECRET** field in the image above, is available on some devices, if you do not see this field on your device, just ignore it.



## 4. Radius

4.1 On the same window, click on Radius and fill the fields as shown below:

1. Radius Server #1: Click on [Radius List](#) to get the IP's list
2. Radius Server #2: Click on [Radius List](#) to get the IP's list
3. Authentication port: 1812
4. Accounting port: 1813
5. NAS identifier: blank
6. Radius Secret Key: Click on [Radius List](#) to get the secret
7. Swap octets: Disable
8. Location: Blank

GENERAL SETTINGS

GENERAL

**RADIUS**

WALLED GARDEN

USER SCRIPTS

URL PARAMETERS

1 RADIUS server #1 52.73.98.38

2 RADIUS server #2 50.16.222.31

3 Authentication port 1812

4 Accounting port 1813

5 NAS identifier

6 Radius secret key \*\*\*\*\*

7 Swap octets off on

8 Location name

4.3 Now go to **Walled Garden** filled with the list provided below:

[Click Here to see the Walled Garden List](#)

GENERAL SETTINGS

GENERAL

**WALLED GARDEN**

USER SCRIPTS

URL PARAMETERS

Address list

content.zoosmart.com  
amazonaws.com  
zoosmart.s3.sa-east-1.amazonaws.com  
portal.zoosmart.com  
auth.zoosmart.com  
cdn.zoosmart.com  
zoosmart.com  
in-portal.zoosmart.com

SAVE & APPLY



4.4 Now go to **URL Parameter**, scroll down and select the **SSID** that you have created on **Step 2.1**. Do it on **Custom 1** and **2** fields

The screenshot displays the Teltonika Networks web interface. The top navigation bar includes the Teltonika logo, the text "TELTONIKA | Networks", and user information: "MODE BASIC", "USER ADMIN", "FW VERSION RUT2M\_R\_00.07.04.5", and a "LOGOUT" button. The left sidebar lists various services: Cloud, VPN, Mobile, Auto, Network, Input, Event, Hotspot, General, Location, Language, User Management, and System. The main content area is titled "GENERAL SETTINGS" and contains several configuration fields: "UAM IP" (uamip), "UAM port" (uamport), "Called" (called), "MAC" (mac), "IP" (ip), "NAS id" (nasid), "Session id" (sessionid), and "User url" (usenurl). A red box highlights the "URL PARAMETERS" tab in the left sidebar. Below the "GENERAL SETTINGS" section, there are two custom fields: "Custom 1" and "Custom 2". Each field has a "Custom name" input and a dropdown menu. The dropdown for "Custom 1" is open, showing "SSID: YOBI\_POC\_FREEWIFI" as the selected option. The dropdown for "Custom 2" is also open, showing "SSID: YOBI\_POC\_FREEWIFI" as the selected option. A red box highlights these two custom fields. At the bottom right of the configuration area, there is a "SAVE & APPLY" button.



## 5. Authentication Protocol

Go to **Services>Hotspot>Landing Pages>General Settings** and, in **Authentication Protocol**, select **PAP**.

The screenshot shows the Teltonika Networks web interface. On the left is a dark blue sidebar with a menu. The 'Services' menu item, represented by a gear icon, is highlighted with a red box. Below it, the 'Hotspot' menu is expanded, and the 'Landing Page' option is highlighted with a red arrow. The main content area has a top header with the Teltonika logo, 'MODE BASIC', 'USER ADMIN', 'FW VERSION RUT2M\_R\_00.07.04.5', and a 'LOGOUT' link. The main content area is titled 'GENERAL SETTINGS' and contains two dropdown menus: 'Authentication protocol' set to 'PAP' (highlighted with a red box and a red annotation 'This is very important!!!') and 'Theme' set to 'Default theme'. Below this is a 'THEMES' section with a table:

NAME	STATUS
Default theme	Active

A 'SAVE & APPLY' button is located at the bottom right of the settings area.



## Configuring ZOOX DASHBOARD

### Adding Plans

go to Menu>Register>Plans>Add

Manage / Plans

Name	Connection time	Access type	Show disabled	Add
Visitors 10MB	8 Hours	Registered visitor		
VISITANTES	5 Minutes	Registered visitor		

Showing 1 to 2 of 2 items.

### Setting Parameters:

- 1- Set a name for your new plan, for example: “**Visitors 10MB**”
- 2- Set a time for your connection, this can be: “**Min, Hours or Days**”
- 3- The Download and Upload Speed option only works on **Mikrotik** routers. If you use a Router, Controller or Firewall for redirection to the captive portal other than Mikrotik, the QOS must be configured directly on it.

Manager / Plans / Edit

1 Name\*  
VISITANTES

2 Connection Time\*  
5

Time unit  
Minutes  
Hours  
Days

3 Download Speed  
0  
In Kbps. 0 = No limits.

Idle Timeout  
0  
In minutes

Please, select a subscribers list, if available  
Please, select a subscribers list

Allows a new connection in an interval of  
0  
In minutes. 0 = No limits.

Upload Speed  
0  
In Kbps. 0 = No limits.

Select the access type  
Registered visitor

Save Back





## Adding Routers

Go to **Menu>Register>Hotspot>Router>Add**

Manage / Hotspot / Router

Filter by router name Filter by MAC Select a router type Filter Clear

Router	Mac Address	Type	Show disabled items	Add Router
Alcatel_Lab-2	dc:08:56:2e:73:30	Alcatel		
ARUBA-MOBILITY	94:b4:0f:c0:17:52	Aruba		
BB-POC	00:00:01:02:03:04	Huawei Cloud		
CAMBIUM	58:C1:7A:C6:AC:DE	Cambium		
EDGECORE	34:EF:B6:1F:46:BB	ZooxOS		
EXTREME	dc:08:56:2e:51:70	Aerohive		
GRANDSTREAM	C0:74:AD:C6:D7:FC	Open Mesh		
Huawei 3	1C:3D:2F:6D:4A:20	Ruckus Standalone		
JEFERSON TPLINK	48:22:54:63:01:A8	Tp Link		
MAXTRACK	44:34:8F:0A:6A:9B	ZooxOS		
MERAKI - HOMOLOGAÇÃO	34:56:1ea0:e5:61	Cisco Meraki		
mobility	00:00:00:00:00:19	Aruba		
ORBE-ALEX	F8:5E:3C:3D:5D:7A	ZooxOS		
ORBE-MII 11AM	78:A3:51:47:7E:D8	ZooxOS		

## Setting Parameters:

1. Give a Router name
2. Select the vendor of your router (In this case, you must select **ZooxOS**)
3. Add the Mac Address of your Router
4. Street Address (The Physical location of your device)

Manage / Hotspot / Router / Add

1 Name\*

2 Type\*

3 Mac Address\*

Observation

4 Address\*

Save Back

Mapa Satélite



## Adding Hotspot

Go to **Menu>Register>Hotspot>Hotspot>Add**

The screenshot shows the ZOOX management interface. On the left, the 'Manage' menu is expanded, and 'Hotspot' is selected. The main area displays a table of existing hotspots. A red arrow points to the 'Add Hotspot' button in the top right corner of the table.

Hotspot	Router	Logo	
#ZOOX-HOMOLOGAÇÃO	UNIFI-ALEX-TESTE		<a href="#">Show disabled items</a> <a href="#">Bulk update</a> <a href="#">Add Hotspot</a>
#ZooxWiFi	TPLINK-CN-TEST2		<a href="#">Show disabled items</a> <a href="#">Bulk update</a> <a href="#">Add Hotspot</a>
Barcelona WiFi	CELLNEX		<a href="#">Show disabled items</a> <a href="#">Bulk update</a> <a href="#">Add Hotspot</a>
cliente_CasasBahia	CB_VIATESTES		<a href="#">Show disabled items</a> <a href="#">Bulk update</a> <a href="#">Add Hotspot</a>
CoelhoVoip	EXTREME		<a href="#">Show disabled items</a> <a href="#">Bulk update</a> <a href="#">Add Hotspot</a>
CoelhoVoip	Alcatel_Lab-2		<a href="#">Show disabled items</a> <a href="#">Bulk update</a> <a href="#">Add Hotspot</a>
hotspot-name	UNIFI_TESTE		<a href="#">Show disabled items</a> <a href="#">Bulk update</a> <a href="#">Add Hotspot</a>
HOTSPOT_S700	CRADLEPOINT		<a href="#">Show disabled items</a> <a href="#">Bulk update</a> <a href="#">Add Hotspot</a>
LAB-ZOOX	INTELBAS		<a href="#">Show disabled items</a> <a href="#">Bulk update</a> <a href="#">Add Hotspot</a>

## Setting Parameters:

- 1- The Name field should be **ZooxWiFi** (In case you got an “Hotspot not found” error, set this field with same name of your SSID’s network)
- 2- Router; Select the router that you created on previous steps
- 3- Select the plan that you created on previous steps

The screenshot shows the 'Add Hotspot' form in the ZOOX management interface. Red circles 1, 2, and 3 highlight the 'Name\*', 'Router\*', and 'Select a default plan for registered visitors\*' fields respectively.

**1** Name\* **2** Router\*  
Please, select the router

Authentication Type\*  
ZooxWiFi

Theme\*  
Default - Version 1

**3** Select a default plan for registered visitors\*  
Select an option

Select a default plan for unregistered visitors  
Select an option

Select a default plan for all visitors, based in the subscribers list  
Select an option

Observation

There it is! Your **Teltonika** is set up and ready to use with ZOOXWIFI!

If you have any questions or difficulties, please contact our support via email [suporte@zooxsmart.com](mailto:suporte@zooxsmart.com).