

# RUT241 Hotspot

[Main Page](#) > [RUT Routers](#) > [RUT241](#) > [RUT241 Manual](#) > [RUT241 WebUI](#) > [RUT241 Services section](#) > **RUT241 Hotspot**

The information in this page is updated in accordance with firmware version [RUT2M\\_R\\_00.07.04.5](#).

□

## Contents

- [1 Summary](#)
  - [2 General](#)
    - [2.1 Hotspot Instances](#)
      - [2.1.1 General Settings](#)
        - [2.1.1.1 General](#)
        - [2.1.1.2 Advanced](#)
        - [2.1.1.3 Radius](#)
        - [2.1.1.4 Walled Garden](#)
        - [2.1.1.5 URL Parameters](#)
        - [2.1.1.6 User Scripts](#)
- [3 Local Users](#)
- [4 Landing Page](#)
  - [4.1 General Settings](#)
  - [4.2 Themes](#)
    - [4.2.1 Images](#)
    - [4.2.2 Style Settings](#)
    - [4.2.3 View Settings](#)
- [5 User Groups](#)
- [6 User Management](#)

## Summary

On Teltonika Networks devices a **Hotspot** is a service that provides authentication, authorization and accounting for a network. This chapter is an overview of the Hotspot section for RUT241 devices.

**Note:** Hotspot is additional software that can be installed from the **Services** → [Package Manager](#) page.

## General

## Hotspot Instances

---

The **Hotspot Instances** section displays the main parameters of your Hotspot. By default, a Hotspot instance does not exist on the device. To create a new instance and begin configuration:

1. select an 'Interface';
2. click the 'Add' button;

### ^ HOTSPOT INSTANCES

---

AUTH MODE

IP

INTERFACES

This section contains no values yet

### ^ ADD NEW HOTSPOT INSTANCE

---

INTERFACE

1

2

SAVE & APPLY

After this, a new Hotspot configuration window will appear.

## General Settings

---

The **General Settings** window is where most of the Hotspot configuration takes place. Look to the sub-sections below for information on configuration fields found in the General Settings sections.

### General

---

GENERAL SETTINGS

**GENERAL**

ADVANCED

WALLED GARDEN

USER SCRIPTS

Configuration profile Default ^

Enable  off on

Hotspot Network

IP Address

Authentication mode Local users ^

Allow signup  off on

Landing page Internal ^

UAM port

Success page Success page ^

SAVE & APPLY

Field	Value	Description
Configuration profile	Cloud4wi   Default   Hotspotsystems; default: <b>Default</b>	Pre-configures Hotspot settings according to the selected service provider.
Enable	off   on; default: <b>on</b>	Turns the Hotspot instance on or off.
Hotspot Network	ip/netmask; default: <b>192.168.2.0/24</b>	IP address and subnet of the Hotspot network.
IP Address	ip; default: <b>192.168.2.254</b>	Defines the IP address of your Hotspot router in network.
Authentication mode	Radius   Local user   SMS OTP  MAC auth ; default: <b>Local users</b>	Authentication mode defines how users will connect to the Hotspot.
Allow signup	off   <b>on</b> ; default: <b>off</b>	Allows users to sign up to hotspot via landing page.
<a href="#">Expiration time</a>	integer; default: <b>0</b>	User credential expiration time. Applies to users who signed up via landing page.
<a href="#">Users group</a>	user group; default: <b>default</b>	The user group to which users signed up via landing page should be assigned to.
Landing Page	Internal   <b>External</b> ; default: <b>Internal</b>	If external Landing Page is chosen, new section, to enter website address, will appear, e.g., <i>http://www.example.com</i>
UAM Port	integer; default: <b>3990</b>	Port to bind for authenticating clients.
<b>UAM Secret</b>	string; default: <b>none</b>	Shared secret between uamserver and hotspot.
Success page	Success Page   Original URL   Custom; default: <b>Success page</b>	Location to return to after successful authentication.

**Advanced**

GENERAL

**ADVANCED**

WALLED GARDEN

USER SCRIPTS

Additional interfaces

Logout address

Protocol

Enable TOS  off on

Trial access  off on

HTTPS to landing page redirect  off on

Primary DNS server

Secondary DNS server

< BACK

SAVE & APPLY

Field	Value	Description
Additional interfaces	Available interfaces; default: <b>none</b>	Shows additional interfaces that can be attached to hotspot instance.
Logout address	ip; default: <b>1.0.0.0</b>	An address that can be used by users to logout from the Hotspot session.
Protocol	HTTP   HTTPS; default: <b>HTTP</b>	Protocol to be used for landing page.
Enable TOS	off   on; default: <b>off</b>	Enables Terms of Service (ToS) requirement. Client device will be able to access the Internet only after agreeing ToS.
Trial access	off   <b>on</b> ; default: <b>off</b>	Enables trial internet access for a specific group.
<b>Trial access:</b> Group	User group; default: <b>default</b>	Group of trial users.
HTTPS to landing page redirect	off   <b>on</b> ; default: <b>off</b>	Redirect initial pre-landing page HTTPS requests to hotspot landing page.
<b>Certificate files from device</b>	off   on; default: <b>off</b>	Specified whether to upload key & certificate files from computer or to use files generated on this device via the <i>System</i> → <i>Administration</i> → <b>Certificates</b> page.
<b>SSL key file</b>	key file; default: <b>none</b>	Upload/select SSL key.
<b>SSL certificate file</b>	certificate file; default: <b>none</b>	Upload/select SSL certificate.
DNS server 1	ip; default: <b>8.8.8.8</b>	Additional DNS servers that are to be used by the Hotspot.
DNS server 2	ip; default: <b>8.8.4.4</b>	Additional DNS servers that are to be used by the Hotspot.

**Radius**

Radius authentication mode uses an external RADIUS server, to which you have to provide an address to, instead of using the router's Local Authentication. If you are using Local authentication,

this section is not visible.

^ GENERAL SETTINGS

GENERAL	RADIUS server #1	<input type="text"/>
ADVANCED	RADIUS server #2	<input type="text"/>
<b>RADIUS</b>	Authentication port	<input type="text" value="1812"/>
WALLED GARDEN	Accounting port	<input type="text" value="1813"/>
USER SCRIPTS	NAS Identifier	<input type="text"/>
	Radius secret key	<input type="password"/> 
	Swap octets	<input type="checkbox"/> off <input type="checkbox"/> on
	Location name	<input type="text"/>
	Location ID	<input type="text"/>

< BACK

SAVE & APPLY

Field	Value	Description
RADIUS server #1	ip; default: <b>none</b>	The IP address of the RADIUS server #1 that is to be used for Authenticating your wireless clients.
RADIUS server #2	ip; default: <b>none</b>	The IP address of the RADIUS server #2 that is to be used for Authenticating your wireless clients.
Authentication port	integer [0..65535]; default: <b>1812</b>	RADIUS server authentication port.
Accounting port	integer [0..65535]; default: <b>1813</b>	RADIUS server accounting port.
NAS identifier	string; default: <b>none</b>	NAS-Identifier is one of the basic RADIUS attributes.
Radius secret key	string; default: <b>none</b>	The secret key is a password used for authentication with the RADIUS server.
Swap octets	off   on; default: <b>off</b>	Swaps the meaning of input octets and output as it relates to RADIUS attributes.
Location name	string; default: <b>none</b>	Custom location name for your Hotspot.
Location ID	string; default: <b>none</b>	Custom location ID for your Hotspot.

### Walled Garden

You can add a list of addresses that users connected to the Hotspot will be able to reach without any authentication. By default this list is empty. Simply write addresses into the Address List.

Format of address is **website.com** (does not include <https://www>).

## ^ GENERAL SETTINGS

GENERAL  
ADVANCED  
WALLED GARDEN  
USER SCRIPTS

Address list

.example.com

< BACK

SAVE & APPLY

### URL Parameters

The **URL parameters** section becomes visible when **Landing page** is selected as **External** in [General settings](#) section.

## ^ GENERAL SETTINGS

GENERAL  
ADVANCED  
RADIUS  
WALLED GARDEN  
URL PARAMETERS  
USER SCRIPTS

UAM IP

UAM port

Called

MAC

IP

NAS id

Session id

User url

Challenge

Custom 1

Custom 2

Field	Value	Description
UAM IP	string; default: <b>none</b>	The IP Address of the Captive Portal gateway.
UAM port	string; default: <b>none</b>	The port on which the Captive Portal will serve web content.
Called	string; default: <b>none</b>	The MAC address of the IP Address of the Captive Portal gateway.
MAC	string; default: <b>none</b>	The MAC address of the client trying to gain Internet access.

NAS id	string; default: <b>none</b>	An identification for the Captive Portal used in the RADIUS request.
Session id	string; default: <b>none</b>	The unique identifier for session.
User url	string; default: <b>none</b>	The URL which the user tried to access before he were redirected to the Captive Portal's URL's pages.
Challenge	string; default: <b>none</b>	A challenge that should be used together with the user's password to create an encrypted phrase used to log on.
Custom 1	string; default: <b>none</b>	Add custom name and custom value which will be displayed in url parameters.
-	SSID   Hostname   FW version   --Custom--; default: <b>SSID</b>	-
Custom 2	string; default: <b>none</b>	Add custom name and custom value which will be displayed in url parameters.
-	SSID   Hostname   FW version   --Custom--; default: <b>SSID</b>	-

## User Scripts

---

In this section you can add custom **Scripts** that will be executed after a session is authorized in the **Session up** section, after session has moved from authorized state to unauthorized in the **Session down** section and after a new user has been signed up in the **User signup** section.

- GENERAL
- ADVANCED
- WALLED GARDEN
- USER SCRIPTS

Session up	<pre>#!/bin/sh /usr/bin/logger -t "example" "Example user \${USER_NAME} logged on."</pre>
Session down	<pre>#!/bin/sh /usr/bin/logger -t "example" "Example user \${USER_NAME} logged out."</pre>
User signup	<pre>#!/bin/sh /usr/bin/logger -t "example" "New user created \${USER_NAME}."</pre>

< BACK

SAVE & APPLY

## Local Users

The **Local Users** section is used to create and manage users that can connect to the Hotspot. The elements comprising the Local Users page are explained in the list and figure below.

1. Entering a Username, Password and clicking the 'Add' button creates a new user.
2. The 'Group' dropdown menu assigns a user to another group.
3. The 'Edit' button lets you change a user's password or assign the user to another group.
4. The 'Delete[X]' button deletes a user.



^ LOCAL USERS

USERNAME

User1

GROUP

default

3

4



^ ADD NEW USER

USERNAME

User1

PASSWORD

.....

ADD

SAVE & APPLY

## Landing Page

This section is used to define how your Hotspot's **Landing Page** will look like to connecting users.

### General Settings

**General Settings** section lets you choose the authentication protocol and theme that will be used in the Landing Page. You can download more themes using the [Package Manager](#)

^ GENERAL SETTINGS

Authentication protocol

CHAP

Theme

Default theme

## Themes

The **Themes** section displays all available Landing Page themes. In order to edit a theme, click the 'Edit' button next to it.

^ THEMES

NAME

Default theme

STATUS

Active





SAVE & APPLY


## Images

The **Images** section allows you to upload custom images to different objects.

## ^ IMAGES

NAME	FILE	FILE PATH
Spinner	Uploaded File (43.93 KB) 	<%=loading%>
Background	Uploaded File (241.22 KB) 	<%=background%>
Favicon	Uploaded File (16.33 KB) 	<%=favicon%>
Logo	Uploaded File (3.24 KB) 	<%=logo%>

## Style Settings

Pressing edit button  next to style settings lets you edit how your landing page will look visually using CSS syntax.











## ^ STYLE SETTINGS

NAME	DESCRIPTION	
Style	File contains all CSS style rules	

## View Settings

In **View Settings** you can access and modify default templates for various parts of landing page and edit their HTML code.

## ^ VIEW SETTINGS

NAME	DESCRIPTION	
Signup	Signup page template	
TOS	Terms of Service	
Login (SMS OTP)	SMS OTP login page template	
Denied	Access denied page template	
Login (MAC auth)	MAC authentication login page template	
Header	HTML header template	
Connecting	Page to perform redirection	
Success	Success page template	
Signup (SMS OTP)	SMS OTP signup page template	
Login	Login page template	

< BACK



SAVE & APPLY

## User Groups

**User Groups** provides the possibility to set different connection limits for different users. A group called 'default' is already created and does not have any limitations set by default. You can

1. create a new group by entering a custom Name and clicking 'Add'
2. or configure the existing rule by clicking the 'Edit' button next to it.

^ USER GROUPS

NAME	DOWNLOAD BANDWIDTH	UPLOAD BANDWIDTH	DOWNLOAD LIMIT	UPLOAD LIMIT	PERIOD	
default	Unlimited	Unlimited	Unlimited	Unlimited	-	 

^ ADD NEW USER GROUP

NAME

A group's settings page will look similar to this:

^ GROUP 'DEFAULT' SETTINGS

Idle timeout

Time limit

Download bandwidth

Upload bandwidth

Download limit

Upload limit

Warning

Period

Start day

Field	Value	Description
Idle timeout	integer; default: <b>none</b>	A timeout in seconds after which idle users are automatically disconnected from the Hotspot. (0 means unlimited.)
Time limit	integer; default: <b>none</b>	Disables hotspot user after time limit in sec is reached. (0, meaning unlimited)
Download bandwidth	integer; default: <b>none</b>	Maximum download bandwidth that the users assigned to this template can achieve. Bandwidth can be specified in Mbit/s.
Upload bandwidth	integer; default: <b>none</b>	Maximum upload bandwidth that the users assigned to this template can achieve. Bandwidth can be specified in Mbit/s.
Download limit	integer; default: <b>none</b>	A received data limit that the users assigned to this template can reach. After the data limit is reached, the user will lose data connection. Download limit is specified in MB.
Upload limit	integer; default: <b>none</b>	A sent data limit that the users assigned to this template can reach. After the data limit is reached, the user will lose data connection. Upload limit is specified in MB.

Warning	integer; default: <b>none</b>	Send an SMS warning to hotspot user after warning value of download or upload data in MB is reached. Only works with SMS OTP authentication.
Period	Month   Week   Day; default: <b>Month</b>	The beginning of the period during which the restriction specified in this section will apply. After the period is over, all specified limits are reset.
Start day	integer [1..31]   Monday..Sunday   integer [1..24]; default: <b>1</b>	Choices changes depending on what 'Period' was chosen. Specifies which day of the month, week or hour of the day the limits will be reset.

## User Management

The **Current Hotspot Users** tab displays the status and session statistics of currently logged in users. You can also "kick" (deauthenticate) a user by clicking the 'Logout' button next to it.

### ▼ CURRENT HOTSPOT USERS

USERNAME	IP	MAC	DOWNLOAD	UPLOAD	TIME	START TIME	LOGOUT USER
user1	192.168.2.1	██████████	853 KB	137 KB	182 s	04/06/20 07:56:10	<a href="#">LOGOUT</a>

Showing 1 to 1 of 1 entries

The **Registered Hotspot Users** tab displays the data of unique users that have registered to the hotspot before.

### ▼ REGISTERED HOTSPOT USERS

EMAIL	EXPIRATION TIME	PHONE	REGISTRATION DATE	DELETE USER
No users registered				