

# RUT900 Hotspot (legacy WebUI)

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The information in this page is updated in accordance with firmware version [RUT9XX\\_R\\_00.06.09.5](#).

**Note:** this user manual page is for RUT900's old WebUI style available in earlier FW versions. [Click here](#) for information based on the latest FW version.

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## Summary

Wireless **Hotspots** are essentially Wireless Access Points - they provide network and/or internet access to other WiFi devices. The difference is that Hotspots are a lot more versatile when it comes to managing, monitoring and authenticating the wireless network's users. For example, while Wireless APs can be password protected, with Hotspots you can configure different users with different names, passwords, even data limits and data speeds and more.

This chapter of the user manual provides an overview of the Hotspot page for RUT900 devices.

## General

The **General** tab is where most of the Hotspot configurations take place. This section will be divided into six sub-sections - one for each **Authentication mode**, since the chosen **Authentication mode** will define how the Hotspot will be configured in general.

## External Radius

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**External Radius** authentication mode uses an external Radius server, to which you have to provide an address to, instead of using the router's internal Radius server.



Field	Value	Description
Configuration profile	Custom   Cloud4wi   Hotspotsystem; default: <b>Custom</b>	If not set to <b>Custom</b> , Configuration profile selections will automatically fill all the fields in accordance with the chosen profile. It also automatically adds an exception for the chosen service in the <b>Walled Garden</b> section. Used only with <b>External radius</b> Authentication mode.
Enable	yes   no; default: <b>no</b>	Toggles Wi-Fi Hotspot ON or OFF
AP IP	ip; default: <b>192.168.2.254/24</b>	Access Point IP address defines the IP address of your Hotspot's network
Logout address	host   ip; default: <b>1.1.1.1</b>	An address that can be used by users to logout from the Hotspot session
Authentication mode	External radius   Internal radius   Without radius   Advertisement   MAC auth   SMS OTP; default: <b>Without radius</b>	Authentication mode defines how users will connect to the Hotspot
Authentication protocol	PAP   CHAP; default: <b>PAP</b>	Authentication protocol used to authenticate new connections on the Hotspot
Terms of service	yes   no; default: <b>no</b>	If enabled, users have to agree to the Terms of service before logging in. Custom Terms of service can be defined in the <b>Landing Page</b> section
RADIUS server #1   RADIUS server #2	ip; default: <b>none</b>	The IP address of the RADIUS server 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
Radius secret key	string; default: <b>none</b>	The secret key is a password used for authentication with the RADIUS server

UAM port	integer [0..65535]; default: <b>3990</b>	Port to bind for authenticating clients
UAM UI port	integer [0..65535]; default: <b>4990</b>	UAM User Interface port
UAM secret	string; default: <b>none</b>	Shared secret between the UAM server and the Hotspot
NAS identifier	string; default: <b>none</b>	NAS-Identifier is one of the basic RADIUS attributes
Swap octets	yes   no; default: <b>no</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
External landing page	yes   no; default: <b>no</b>	Enables the use of an external landing page
Landing page address	string; default: <b>none</b>	A custom Hotspot's external landing page
Success URL	string; default: <b>none</b>	A custom redirect URL after successful Hotspot login
Protocol	HTTP   HTTPS; default: <b>HTTP</b>	Connection protocol of your Hotspot
HTTPS to landing page redirect	yes   no; default: <b>no</b>	Redirects HTTP pages to landing page
SSL key file	.key file; default: <b>none</b>	SSL key file used for authentication. This field becomes visible only if <b>HTTPS to landing page redirect</b> is enabled
SSL certificate file	.crt file; default: <b>none</b>	SSL certificate file used for authentication. This field becomes visible only if <b>HTTPS to landing page redirect</b> is enabled
Use custom DNS	yes   no; default: <b>no</b>	Enables the use of custom DNS servers instead of your regular DNS
DNS server 1   DNS server 2	ip; default: <b>none</b>	Additional DNS servers that are to be used by the Hotspot. These fields become visible only if <b>Use custom DNS</b> is enabled

## Internal Radius

**Internal Radius** is Authentication mode that uses the router's internal RADIUS server for authentication. Teltonika routers' RADIUS server has RFC 2866 RADIUS Accounting and RFC 2869 RADIUS Extensions implemented.



Field	Value	Description
Configuration profile	Custom   Cloud4wi   Hotspotsystem; default: <b>Custom</b>	If not set to <b>Custom</b> , Configuration profile selections will automatically fill all the fields in accordance with the chosen profile. It also automatically adds an exception for the chosen service in the <b>Walled Garden</b> section. Used only with <b>External radius</b> Authentication mode.
Enable	yes   no; default: <b>no</b>	Toggles Wi-Fi Hotspot ON or OFF

AP IP	ip; default: <b>192.168.2.254/24</b>	Access Point IP address defines the IP address of your Hotspot's network
Logout address	host   ip; default: <b>1.1.1.1</b>	An address that can be used by users to logout from the Hotspot session
Authentication mode	External radius   Internal radius   Without radius   Advertisement   MAC auth   SMS OTP; default: <b>Without radius</b>	Authentication mode defines how users will connect to the Hotspot
Terms of service	yes   no; default: <b>no</b>	If enabled, users have to agree to the Terms of service before logging in. Custom Terms of service can be defined in the <b>Landing Page</b> section
External landing page	yes   no; default: <b>no</b>	Enables the use of an external landing page
Landing page address	string; default: <b>none</b>	A custom Hotspot's external landing page
Success URL	string; default: <b>none</b>	A custom redirect URL after successful Hotspot login
HTTPS to landing page redirect	yes   no; default: <b>no</b>	Redirects HTTP pages to landing page
SSL key file	.key file; default: <b>none</b>	SSL key file used for authentication. This field becomes visible only if <b>HTTPS to landing page redirect</b> is enabled
SSL certificate file	.crt file; default: <b>none</b>	SSL certificate file used for authentication. This field becomes visible only if <b>HTTPS to landing page redirect</b> is enabled
Use custom DNS	yes   no; default: <b>no</b>	Enables the use of custom DNS servers instead of your regular DNS
DNS server 1   DNS server 2	ip; default: <b>none</b>	Additional DNS servers that are to be used by the Hotspot. These fields become visible only if <b>Use custom DNS</b> is enabled

Information on how to configure Internal radius server can be found [here](#).

## Without Radius

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**Without Radius** Authentication doesn't use a Radius server to authenticate users connecting to the Hotspot, instead it gives you the possibility to configure different users with different password and session parameters.



**Field**

**Value**

**Description**

Configuration profile	Custom   Cloud4wi   Hotspotsystem; default: <b>Custom</b>	If not set to <b>Custom</b> , Configuration profile selections will automatically fill all the fields in accordance with the chosen profile. It also automatically adds an exception for the chosen service in the <b>Walled Garden</b> section. Used only with <b>External radius</b> Authentication mode.
Enable	yes   no; default: <b>no</b>	Toggles Wi-Fi Hotspot ON or OFF
AP IP	ip; default: <b>192.168.2.254/24</b>	Access Point IP address defines the IP address of your Hotspot's network
Logout address	host   ip; default: <b>1.1.1.1</b>	An address that can be used by users to logout from the Hotspot session
Authentication mode	External radius   Internal radius   Without radius   Advertisement   MAC auth   SMS OTP; default: <b>Without radius</b>	Authentication mode defines how users will connect to the Hotspot
Terms of service	yes   no; default: <b>no</b>	If enabled, users have to agree to the Terms of service before logging in. Custom Terms of service can be defined in the <b>Landing Page</b> section
External landing page	yes   no; default: <b>no</b>	Enables the use of an external landing page
Landing page address	string; default: <b>none</b>	A custom Hotspot's external landing page
Success URL	string; default: <b>none</b>	A custom redirect URL after successful Hotspot login
Protocol	HTTP   HTTPS; default: <b>HTTP</b>	Connection protocol of your Hotspot
HTTPS to landing page redirect	yes   no; default: <b>no</b>	Redirects HTTP pages to landing page
SSL key file	.key file; default: <b>none</b>	SSL key file used for authentication. This field becomes visible only if <b>HTTPS to landing page redirect</b> is enabled
SSL certificate file	.crt file; default: <b>none</b>	SSL certificate file used for authentication. This field becomes visible only if <b>HTTPS to landing page redirect</b> is enabled
Use custom DNS	yes   no; default: <b>no</b>	Enables the use of custom DNS servers instead of your regular DNS
DNS server 1   DNS server 2	ip; default: <b>none</b>	Additional DNS servers that are to be used by the Hotspot. These fields become visible only if <b>Use custom DNS</b> is enabled

## Users Configuration

The **Users Configuration** tab is used to create new, unique users that can connect to the Hotspot.



**Field**

**Value**

**Description**

Username	string; default: <b>none</b>	A custom user name used to authenticate clients connecting to the Hotspot
Password	string; default: <b>none</b>	A custom password for the specified user name
Session Template	string; default: <b>unlimited</b>	Session templates define session settings for different users. The <b>unlimited</b> Session Template is a default template with no restrictions. More on Session Template in the next section

## Session Templates

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A **Session Template** is a set of rules that can be prescribed to a Hotspot user. A default template named **unlimited** is present in the router, but it has no configured restrictions. You can edit the default template or you can create a custom template and configure it.



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
Session timeout	integer; default: <b>none</b>	A timeout in seconds after users are automatically disconnected from the Hotspot. The timeout countdown begins when a user is authenticated to the Hotspot and, after an amount of time specified in this field, the user gets disconnected from the Hotspot. 0 means 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 Kbit/s, Mbit/s, Gbit/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 Kbit/s, Mbit/s or Gbit/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
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   Start hour	integer [1..31]   Monday..Sunday   integer [1..24]; default: <b>day 1</b>	Specifies which day of the month, week or hour of the day the limits will be reset

## Advertisement

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The **Advertisement** Authentication mode doesn't use any kind of actual authentication. Instead when a user connects to the Hotspot he first gets redirected to a specified advertisement page. After that the user is free to use the Hotspot.



Field	Value	Description
Configuration profile	Custom   Cloud4wi   Hotspotsystem; default: <b>Custom</b>	If not set to <b>Custom</b> , Configuration profile selections will automatically fill all the fields in accordance with the chosen profile. It also automatically adds an exception for the chosen service in the <b>Walled Garden</b> section. Used only with <b>External radius</b> Authentication mode.
Enable	yes   no; default: <b>no</b>	Toggles Wi-Fi Hotspot ON or OFF
AP IP	ip; default: <b>192.168.2.254/24</b>	Access Point IP address defines the IP address of your Hotspot's network
Authentication mode	External radius   Internal radius   Without radius   Advertisement   MAC auth   SMS OTP; default: <b>Without radius</b>	Authentication mode defines how users will connect to the Hotspot
Advertisement address	host   ip; default: <b>none</b>	The address of the advertisement page that newly connected users will be redirected to
HTTPS to landing page redirect	yes   no; default: <b>no</b>	Redirects HTTP pages to landing page
SSL key file	.key file; default: <b>none</b>	SSL key file used for authentication. This field becomes visible only if <b>HTTPS to landing page redirect</b> is enabled
SSL certificate file	.crt file; default: <b>none</b>	SSL certificate file used for authentication. This field becomes visible only if <b>HTTPS to landing page redirect</b> is enabled
Use custom DNS	yes   no; default: <b>no</b>	Enables the use of custom DNS servers instead of your regular DNS
DNS server 1   DNS server 2	ip; default: <b>none</b>	Additional DNS servers that are to be used by the Hotspot. These fields become visible only if <b>Use custom DNS</b> is enabled

## MAC auth

**MAC auth** Authentication mode authenticates users by their MAC address. A list of accepted or unaccepted MAC addresses can be configured in the router's WebUI's Wireless section under Interface Configuration->[MAC Filter](#)



Field	Value	Description
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Configuration profile	Custom   Cloud4wi   Hotspotsystem; default: <b>Custom</b>	If not set to <b>Custom</b> , Configuration profile selections will automatically fill all the fields in accordance with the chosen profile. It also automatically adds an exception for the chosen service in the <b>Walled Garden</b> section. Used only with <b>External radius</b> Authentication mode.
Enable	yes   no; default: <b>no</b>	Toggles Wi-Fi Hotspot ON or OFF
AP IP	ip; default: <b>192.168.2.254/24</b>	Access Point IP address defines the IP address of your Hotspot's network
Logout address	host   ip; default: <b>1.1.1.1</b>	An address that can be used by users to logout from the Hotspot session
Authentication mode	External radius   Internal radius   Without radius   Advertisement   MAC auth   SMS OTP; default: <b>Without radius</b>	Authentication mode defines how users will connect to the Hotspot
Terms of service	yes   no; default: <b>no</b>	If enabled, users have to agree to the Terms of service before logging in. Custom Terms of service can be defined in the <b>Landing Page</b> section
Password protection	yes   no; default: <b>no</b>	Enables Hotspot password protection
Password	string; default: <b>none</b>	A password used to authenticate connecting clients to the Hotspot
Website access link	Link   Auto redirect   Custom address; default: <b>Link</b>	Requested website access mode
Protocol	HTTP   HTTPS; default: <b>HTTP</b>	Connection protocol of your Hotspot
HTTPS to landing page redirect	yes   no; default: <b>no</b>	Redirects HTTP pages to landing page
SSL key file	.key file; default: <b>none</b>	SSL key file used for authentication. This field becomes visible only if <b>HTTPS to landing page redirect</b> is enabled
SSL certificate file	.crt file; default: <b>none</b>	SSL certificate file used for authentication. This field becomes visible only if <b>HTTPS to landing page redirect</b> is enabled
Use custom DNS	yes   no; default: <b>no</b>	Enables the use of custom DNS servers instead of your regular DNS
DNS server 1   DNS server 2	ip; default: <b>none</b>	Additional DNS servers that are to be used by the Hotspot. These fields become visible only if <b>Use custom DNS</b> is enabled

## SMS OTP

With **SMS OTP** Authentication mode connecting users are prompted to enter their phone number. After that, the router sends an SMS message containing a code to the specified number. Users then authenticate themselves to the Hotspot using this code.





Field	Value	Description
Configuration profile	Custom   Cloud4wi   Hotspotsystem; default: <b>Custom</b>	If not set to <b>Custom</b> , Configuration profile selections will automatically fill all the fields in accordance with the chosen profile. It also automatically adds an exception for the chosen service in the <b>Walled Garden</b> section. Used only with <b>External radius</b> Authentication mode.
Enable	yes   no; default: <b>no</b>	Toggles Wi-Fi Hotspot ON or OFF
AP IP	ip; default: <b>192.168.2.254/24</b>	Access Point IP address defines the IP address of your Hotspot's network
Authentication mode	External radius   Internal radius   Without radius   Advertisement   MAC auth   SMS OTP; default: <b>Without radius</b>	Authentication mode defines how users will connect to the Hotspot
Protocol	HTTP   HTTPS; default: <b>HTTP</b>	Connection protocol of your Hotspot
HTTPS to landing page redirect	yes   no; default: <b>no</b>	Redirects HTTP pages to landing page
SSL key file	.key file; default: <b>none</b>	SSL key file used for authentication. This field becomes visible only if <b>HTTPS to landing page redirect</b> is enabled
SSL certificate file	.cert file; default: <b>none</b>	SSL certificate file used for authentication. This field becomes visible only if <b>HTTPS to landing page redirect</b> is enabled
Use custom DNS	yes   no; default: <b>no</b>	Enables the use of custom DNS servers instead of your regular DNS
DNS server 1   DNS server 2	ip; default: <b>none</b>	Additional DNS servers that are to be used by the Hotspot. These fields become visible only if <b>Use custom DNS</b> is enabled

## Walled Garden

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You can configure a list of addresses that users connected to the Hotspot will be able to reach without any authentication. By default this list is empty. Click the **Add** button to add a new address.



Field	Value	Description
Enable	yes   no; default: <b>yes</b>	Enables or disables an entry of the list
Address	host   ip; default: <b>none</b>	An address that users connected to the Hotspot can reach without authentication
Port	integer [0..65535]; default: <b>none</b>	Specifies the port through which the user can connect to the provided address. This field becomes visible only if <b>Allow subdomains</b> is disabled
Allow subdomains	yes   no; default: <b>no</b>	If checked, users can connect to the specified address and all of its subdomains

## Restricted Internet Access

The **Restricted Internet Access** page provides you with the possibility to restrict internet access on Hotspot on specified hours. Blue squares represent restricted access, white squares - allowed access. Bellow is an example of a configuration that restricts internet access outside of working hours.



## Logging

The Hotspot **Logging** section is used to send Hotspot or Wireless information to an FTP or Syslog server.



Field	Value	Description
Enable	yes   no; default: <b>no</b>	Enables or disables whole logging section's functionality.



Field	Value	Description
Enable	yes   no; default: <b>no</b>	Toggles logging to Syslog ON or OFF.
Server address	host   ip; default: <b>none</b>	Syslog server address.
Port	integer [0..65535]; default: <b>none</b>	Syslog server port.
Protocol	UDP   TCP default: <b>TCP</b>	Protocol of the syslog server.
Prefix text	string; default: <b>none</b>	Prefix custom text to streamed messages.
Protocol filter	UDP   TCP   Any; default: <b>Any</b>	Filter log messages depending on protocol.
Port filter	integer [0..65535]; default: <b>none</b>	Filter log messages depending on port of port range.



Field	Value	Description
Enable	yes   no; default: <b>no</b>	Toggles logging to FTP ON or OFF
Server address	host   ip; default: <b>your.ftp.server</b>	FTP server address.
User name	string; default: <b>username</b>	User name used for authentication when logging into an FTP server
Password	string; default: <b>password</b>	Password used for authentication when logging into an FTP server
Port	integer [0..65535]; default: <b>21</b>	FTP server port
File name extras	No extra information   MAC address   Serial number   Custom string; default: <b>No extra information</b>	Extra information to be added to the log filename

## FTP Upload Settings

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Here you can configure your timing settings for the log upload via FTP feature.





Field	Value	Description
Mode	Fixed   Interval; default: <b>Fixed</b>	The scheduling mode to be used for uploading to FTP server
Hours	time; default: <b>8 hours</b>	Time interval when the uploads will take place
Minutes	time; default: <b>15 minutes</b>	Time interval when the uploads will take place
Days	time; default: <b>none</b>	On which day upload will take place

## Log

The **Log** section displays connections to the WiFi Hotspot.

[[File:Networking\_rut\_manual\_hotspot\_logging\_log.png|border|class=tlr-border]]

## Wifi Log/SMS OTP Log

WiFi and SMS OTP logs show information about connections to your WiFi Hotspot. FTP logging has to be enabled.  

## Landing Page

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



## Template

This is a template based on the default landing page. You can edit its HTML code to make it look however you want!



## Radius Server

This section is used to configure your **Radius Server** for use with [Internal radius](#) Authentication mode



Field	Value	Description
Enable	yes   no; default: <b>no</b>	Toggles Radius Server ON or OFF
Remote access	yes   no; default: <b>no</b>	Toggles remote access to the Radius Server ON or OFF.

Accounting port	integer [0..65535]; default: <b>1813</b>	Radius server accounting port
Authentication port	integer [0..65535]; default: <b>1812</b>	Radius server authentication port

## Session Settings

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A **Session Template** is a set of rules that can be prescribed to a Hotspot user. A default template named **unlimited** is present in the router, but it has no configured restriction. You can edit the default template or you can create a custom template and configure it.



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
Session timeout	integer; default: <b>none</b>	A timeout in seconds after users are automatically disconnected from the Hotspot. The timeout countdown begins when a user is authenticated to the Hotspot and, after an amount of time specified in this field, the user gets disconnected from the Hotspot. 0 means 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 Kbit/s, Mbit/s or Gbit/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 Kbit/s, Mbit/s or Gbit/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
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   Start hour	integer [1..31]   Monday..Sunday   integer [1..24]; default: <b>day 1</b>	Specifies which day of the month, week or hour of the day the limits will be reset

## Users Configuration Settings

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The **Users Configuration** tab is used to create new, unique users that can connect to the Hotspot.



Field	Value	Description
Username	string; default: <b>none</b>	A custom user name used to authenticate clients connecting to the Hotspot
Password	string; default: <b>none</b>	A custom password for the specified user name
Session Template	string; default: <b>unlimited</b>	Session templates define session settings for different users. The <b>unlimited</b> Session Template is a default template with no restrictions. More on Session Template in the next section

## Clients Configuration Settings

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Field	Value	Description
Enable	yes   no; default: <b>yes</b>	Toggles Clients Configuration ON or OFF
Client name	string; default: <b>none</b>	A custom user name used to authenticate clients connecting to the Hotspot
IP address	ip; default: <b>none</b>	The IP address of the client
Netmask	integer [0..32]; default: <b>none</b>	The netmask of the client
Radius shared secret	string; default: <b>none</b>	Radius shared secret used for communication between the client/NAS and the radius server

## Statistics

The **Statistics** page shows statistics about connections to the hotspot. **Reminder: Statistics page becomes visible only when device is connected to the hotspot.**



## Manage

With the help of the **Manage** page you manage the users that are connected to your Hotspot. To reach the **Manage** window, go to Services->Hotspot. The **Manage** button will be located next to your Hotspot instance.

