

# RUT900 LAN (legacy WebUI)

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The information in this page is updated in accordance with the [RUT9XX\\_R\\_00.06.08.3](#) firmware version.

**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

A **local area network (LAN)** is a computer network that interconnects computers within a limited area such as a residence, school, laboratory, university campus or office building. By contrast, a wide area network (WAN) not only covers a larger geographic distance, but also generally involves leased telecommunication circuits or Internet links. An even greater contrast is the Internet, which is a system of globally connected business and personal computers.

This chapter is an overview of the LAN section.

## Configuration

### General Setup

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The General Setup tab provides you with the possibility to set the router's Private IP address, IP netmask and IP broadcast.



field name	value	description
IP address	ip; Default: <b>192.168.1.1</b>	IP address that the device uses on the LAN network
IP netmask	ip; Default: <b>255.255.255.0</b>	A netmask is used to define how "large" the LAN network is
IP broadcast	ip; Default: " "	IP broadcasts are used by BOOTP and DHCP clients to find and send requests to their respective servers

## Advanced Settings

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LAN Configurations Advanced Settings tab contains some less frequently used, more complicated configurations, such as custom MTUs and network interface metric values.



field name	value	description
Accept router advertisements	yes   no; Default: <b>no</b>	Allows accepting router advertisements
Override MTU	integer [0..1500]; Default: <b>1500</b>	MTU (Maximum Transmission Unit) specifies the largest possible size of a data packet
Use gateway metric	integer; Default: <b>0</b>	The LAN configuration generates an entry in the routing table. In this field you can alter the metric of that entry. Higher metric means higher priority
Use WAN port as LAN	yes   no; Default: <b>no</b>	If this is enabled, the router's WAN port will act as if it were a LAN port. <b>Works only if WAN is not set to wired</b>

## DHCP Server

A **DHCP** server is a service that can automatically configure the TCP/IP settings of any device that requests such a service (i.e., connects to the device with the operational DHCP server). If you connect a device that has been configured to obtain an IP address automatically, the DHCP server will lease out an IP address from the available IP pool and the device will be able to communicate within the private network.

### General

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The **General Setup** tab is used to set DHCP server settings. The figure below is an example of the General Setup tab and the table below provides information on the fields contained in that tab:



field name	value	description
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DHCP	Enable   Disable   DHCP Relay; Default: <b>Enable</b>	Enables or disables DHCP Server. If DHCP Relay is selected, you will be prompted to enter an IP address of another DHCP server in your LAN. In this case, Whenever a new device connects to the router, the router will redirect any DHCP requests to the specified DHCP Server
Start	integer [1..253]; Default: <b>100</b>	The starting IP address value. e.g., if your router's LAN IP is 192.168.2.1 and your subnet mask is 255.255.255.0 that means that in your network a valid IP address has to be in the range of [192.168.2.0..192.168.2.254] (192.168.2.255 is a special unavailable address). If the Start value is set to 100 then the DHCP server will only lease out addresses starting from 192.168.2.100
Limit	integer [1..4294967296]; Default: <b>150</b>	How many addresses the DHCP server can lease out. Continuing from the above example: if the start address is 192.168.2.100 and the server can lease out 150 (default limit value), available addresses will be from 192.168.2.100 to 192.168.2.249 (100 + 150 - 1 = 249; this is because the first address is inclusive)
Lease time	time in 'h' (hours) or 'm' (minutes); Default: <b>12h</b>	he duration of an IP lease. Leased out addresses will expire after the amount of time specified in this field and the device that was using the lease will have to request a new DHCP lease. However, if the device stays connected, its lease will be renewed after half of the specified amount of time passes, e.g., if the lease time is 12 hours, then every 6 hours the device will send a request to the DHCP server asking to renew its lease Lease time can be set in <b>hours (h)</b> or <b>minutes (m)</b> . The minimal amount of time that can be specified is <b>2min (2m)</b>

## Advanced Settings

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You may also apply more complicated, less common configurations to your router's DHCP Server in the **Advanced Settings** tab. The figure below is an example of the Advanced Settings tab and the table below provides information on the fields contained in that tab:



field name	value	description
Dynamic DHCP	yes   no; Default: <b>yes</b>	Enables Dynamic allocation of client addresses. If this is disabled, only clients that have static IP leases will be served
Enable DNS rebind protection	yes   no; Default: <b>yes</b>	Enables DNS rebind attack protection by discarding upstream RFC1918 responses (leave default unless necessary otherwise)
Force	yes   no; Default: <b>no</b>	The DHCP force function ensures that the router will always start it's DHCP server, even if there is another DHCP server already running in the router's network. By default the router's DHCP server will not start when it is connected to a network segment that already has a working DHCP server
IP netmask	ip; Default: <b>255.255.255.0</b>	Overrides your LAN netmask, thus making the DHCP server think that it's serving a larger or smaller network than it actually is

DHCP Options DHCP options;  
Default: " "

Additional options to be added to the DHCP server. For example with '26,1470' or 'option:mtu, 1470' you can assign an MTU value per DHCP. You can find more information on DHCP Options [here](#)

You can add more options by clicking the plus symbol (✕) located next to the field

## Static Leases

Static IP leases are used to reserve specific IP addresses for specific devices by binding them to their MAC address. This is useful when you have a stationary device connected to your network that you need to reach frequently, e.g., printer, IP phone, etc.



field name	value	description
Hostname	string; Default: " "	A custom name that will be linked with the device
MAC address	mac; Default: " "	Device's MAC address
IP address	ip; Default: " "	The desirable IP address that will be reserved for the specified device

## IP Aliases

IP Aliases are a way of defining or reaching a subnet that works in the same space as the regular network. This is useful if you need to reach the router that is located in the same network but in a different subnet. If you have a static IP configuration on your computer and don't want to change it every time you need to reach a router in a different subnet, you can configure an IP alias in order to do so.

### General setup

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field name	value	description
IP address	ip; Default: " "	An alternate IP address used to reach the router by a device(s) that resides in the router's LAN but has a different subnet
Netmask	ip; Default: <b>255.255.255.0</b>	Netmask defines how "large" a network is

As you can see, the configuration is very similar to the static protocol; in the example above an IP address with a 99th subnet is defined. In this case, if some device has an IP in the 99th subnet (e.g., 192.168.99.xxx) and the subnet's gateway metric is "higher" and the device is trying to reach the internet it will reroute it's traffic not to the gateway that is defined in common configurations but through the one that is specified in IP aliases.

### Advanced Settings

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You may also define a broadcast address, a custom DNS server and Gateway for your IP Aliases in the Advanced Settings tab.



field name	value	description
IP Broadcast	ip; Default: " "	IP broadcasts are used by BOOTP and DHCP clients to find and send requests to their respective servers
DNS	ip; Default: " "	A separate DNS server to be used by the IP Alias address
Gateway	ip; Default: " "	A gateway is a network node that connects two networks using different protocols together

## Relayd

**Relayd** is a daemon to relay and dynamically redirect incoming connections to a target host. Its main purpose in RUT routers is extending the wireless network. For example, when RUT is in STA (Wireless Station) mode, it can be used to bridge WAN and LAN interfaces to create a larger Wireless network. You can find a detailed example on how to use Relayd [here](#).



field name	value	description
Enable	yes   no; Default: <b>no</b>	Toggles Relayd ON or OFF

## UDP Broadcast Relay

The **UDP Broadcast Relay** will listen for broadcast traffic on the specified port and relay that traffic to the specified interface(s).



Field	Value	Description
Enable	on   off; default: <b>off</b>	Turns UDP Broadcast Relay on or off.
Port	integer [0..65535]; default: <b>none</b>	UDP port to listen for broadcast traffic.