

# RUTM51 DNS

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The information in this page is updated in accordance with firmware version [RUTM\\_R\\_00.07.10](#).



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## Summary

The **DNS** page is used to to set up how the device utilizes its own and other DNS servers.

This manual page provides an overview of the DNS windows in RUTM51 devices.

If you're having trouble finding this page or some of the parameters described here on your device's WebUI, you should **turn on "Advanced WebUI" mode**. You can do that by clicking the "Advanced" button, located at the top of the WebUI.



## General Settings

The **General Settings** section is used to set up the main DNS parameters. Refer to the table below for information on each configuration field.



Field	Value	Description
Inherited DNS servers	Inherited server list	DNS Servers that were inherited from WAN interfaces.
DNS servers	IP address (ip); default: <b>none</b>	List of DNS servers to forward requests to. See the dnsmasq -S option man page for syntax details. Specify servers to complement inherited ones.
Static addresses	Hostname (domain name)   IP address (ip); default: <b>none</b>	List of IP addresses for queried domains. See the dnsmasq -A option man page for syntax details.

Rebind protection off | on; default: **on** Discards upstream RFC1918 responses. When enabled, the device will not resolve domain names for internal hosts.

## Advanced Settings

The **Advanced Settings** section is used to set up some of the more specific DNS parameters. Refer to the table below for information on each configuration field.

Field	Value	Description
Custom redirect	Hostname (domain name)   IP address (ip); default: <b>none</b>	Specify server for a domain. This is intended for private nameservers.
Listen Interfaces	network interface(s); default: <b>none</b>	Limit DHCP and DNS requests listening to these interfaces, and loopback. Leave empty to listen on all interfaces.
Exclude Interfaces	network interface(s); default: <b>none</b>	Prevent DHCP and DNS requests listening on these interfaces. Leave empty to listen on all interfaces.
Local Service Only	off   on; default: <b>off</b>	Limit DNS service to subnets interfaces on which we are serving DNS.
Log queries	off   on; default: <b>off</b>	Write received DNS requests to syslog.
Filter private	off   on; default: <b>on</b>	Do not forward reverse lookups for local networks.
Localise queries	off   on; default: <b>on</b>	Localise hostname depending on the requesting subnet if multiple IPs are available.
Additional servers file	text file; default: <b>none</b>	Uploads an additional DNS servers file. This file may contain lines like 'server=/domain/1.2.3.4' or 'server=1.2.3.4' for domain-specific or full upstream DNS servers.
Size of DNS query cache	integer [0..10000]; default: <b>none</b>	Number of cached DNS entries (max is 10000, 0 is no caching).

## HTTPS DNS Proxy

Light-weight DNS-over-HTTPS, non-caching translation proxy for the RFC 8484 DoH standard. It receives regular (UDP) DNS requests and resolves them via DoH resolver.

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

### HTTPS DNS proxy configuration

The **HTTPS DNS proxy configuration** section is used to enable the service. Refer to the table below for information on each configuration field.

Field	Value	Description
Enable	off   on; default: <b>off</b>	Enables HTTPS DNS proxy configuration.

## DNS over HTTPS resolvers

The **DNS over HTTPS resolvers** section is used to set up some of the more specific DNS parameters. Refer to the table below for information on each configuration field.



Field	Value	Description
Preset	Custom   Google   CloudFlare; default: <b>CloudFlare</b>	Presets for popular DNS over HTTPS resolvers. Use "Custom" to set your resolver.
Bootstrap DNS	IPv4/IPv6 address; default: <b>depends on the service provider</b>	This DNS is used for the initial "Resolver URL" resolve.
Resolver URL	url; default: <b>depends on the service provider</b>	Resolver URL.
Port	integer [1..65535]; default: <b>depends on the service provider</b>	Internal port used for this resolver. Change only if it collides with existing ports on this device.
Actions	-interactive button; default: <b>Delete</b>	Deletes the preset.

**Note:** If more than one resolver is specified then the first is used as the main one and others are used as failovers.