

# RUTXR1 Configuration Examples

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This page contains various configuration guides for the RUTXR1 router. Unlike the articles in the [RUTXR1 Manual](#), which provide more general knowledge on all of the router's features and functions, these guides are more in-depth and are usually focused on specific configuration scenarios with extensive explanations. While most of the guides apply to both Windows and Linux Operating Systems, some are exclusive to one OS and others aren't OS specific in any way and apply to any system.

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## VPN

- [DMVPN](#)
- [GRE over IPsec Tunnel](#)
- [Cisco IPsec](#)
- [Cisco GRE Tunnel](#)
- [Mikrotik GRE over IPsec Tunnel](#)
- [Mikrotik SSTP](#)
- [Mikrotik OpenVPN](#)
- [Mikrotik L2TP over IPsec](#)
- [OpenVPN Access Server](#)
- [Overlapping subnets with IPsec solution](#)

# Router control & configuration

- [Blocking Internet Access for LAN Clients](#)
- [Monitoring via Modbus](#)
- [Modbus custom register block](#)
- [Monitoring with ThingsBoard IoT Platform](#)

## Modem control

- [AT Commands](#)
- [RUTOS gsmctl Commands](#)
- [Multi-APN \(Multiple PDN\)](#)

## DDNS

- [noip.com](#)
- [dynu.com](#)

## LAN

- [PPPoE with Mikrotik](#)
- [Setting up WAN as LAN](#)

## Connection backup

- [VRRP configuration](#)

## USB

- [How to set up a USB printer](#)

## Camera

- [Camera access from VPN](#)
- [Camera access from smartphone](#)
- [Remote camera access](#)

## PC

- [OpenVPN client on Windows](#)
- [OpenVPN server on Windows](#)
- [TLS certificates \(Windows\)](#)
- [Static IP address setup \(Windows 10\)](#)
- [Wake on LAN PC setup \(Windows 10\)](#)
- [OpenVPN client on Linux](#)
- [TLS certificates \(Ubuntu 18\)](#)
- [Static IP address setup \(Ubuntu 16\)](#)
- [FTP server \(Ubuntu 16\)](#)

# Third-party services

## IoT platforms

- [Azure IoT Hub](#)
- [Cumulocity](#)
- [da³vid](#)
- [BAG Tower](#)

## VPN

- [ZeroTier](#)

## WiFi

- [IdBlender Secure WiFi Setup](#)
- [Guglielmo LUMEN® AAA WiFi Setup](#)

# Use cases

## I/O Juggler

- [SMS and Email alerts Triggered by BAT120](#)

## VPN

- [Connecting two same subnet office networks using OpenVPN bridge \(TAP\) on RUTX](#)
- [Connecting to the office network remotely from your home via VPN \(L2TP over IPsec\) using RUTX](#)
- [Configuring clients to access internet through office's gateway from home using VPN RUTX](#)
- [Reaching your home network remotely with your Android device](#)
- [Bridged office network with a separate Guest WiFi](#)
- [Anonymous browsing from your home network using NordVPN and RUTX router](#)
- [Anonymous browsing from your home network using ExpressVPN and RUTX router](#)
- [Stunnel configuration example using Telnet](#)

## WiFi

- [How to set up a guest WiFi network on RUTX](#)
- [WiFi roaming setup for home/small office](#)
- [RUTOS relay / Wi-Fi extender / repeater / bridge configuration](#)
- [ironwifi.com \(RutOS firmware\)](#)
- [cobot.me \(RutOS firmware\)](#)

# DHCP Relay

- [DHCP Relay configuration example](#)