



VPN Tracker 365

VPN Configuration Guide

Linksys LRT214 / LRT224 Gigabit VPN Router

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Contents

[Configuration Checklist](#)

[Task One - Linksys Configuration](#)

[Step One: WAN IP Address](#)

[Step Two: LAN Network](#)

[Step Three: Group VPN Setup](#)

[Task Two - Setting up VPN Tracker](#)

[Step One: Add a connection](#)

[Step Two: Configure the VPN connection for your device](#)

[Task Three - Testing the VPN connection](#)

[Connect to your VPN](#)

[Connected!](#)

[Troubleshooting](#)

[VPN Tracker Manual](#)

[Technical Support](#)

Configuration Checklist

Throughout this guide, there are certain pieces of information that are needed later on for configuring VPN Tracker 365. This information is marked with red numbers to make it easier to reference. You can use this checklist to help keep track of the various settings of your Linksys VPN router.

(1) Linksys WAN IP Address: _____

or host name: _____

(2) Linksys LAN Network IP / Subnet Mask: _____

(3) Linksys LAN Network Address / Subnet Mask: _____

(4) Linksys Remote Client Identifier Type: _____

(5) Linksys Remote Client Identifier: _____ = **Local Identifier** in VPN Tracker 365!

(6) Pre-Shared Key: _____

Task One - Linksys Configuration

Step One: WAN IP Address

- Go to System Status > WAN Status
- Write down the WAN 1 IP Address as **(1)** on your Configuration Checklist

Step Two: LAN Network

- Go to System Status > System Information
- Write down the LAN IPv4/Subnet Mask as **(2)** on your Configuration Checklist

The screenshot displays the Linksys LRT224 Dual WAN Gigabit VPN Router web interface. The top navigation bar includes 'LINKSYS', the router model 'LRT224 Dual WAN Gigabit VPN Router', and user options like 'Page Width: Auto', 'admin', 'Logout', and 'Help'. Below the navigation bar are tabs for 'System Status', 'Quick Start', 'Configuration', 'Maintenance', and 'Support'. The 'System Status' section is active, showing 'SYSTEM INFORMATION' with details like Serial Number, Model Name, Firmware Version, and MD5 Checksum. A red box highlights the LAN IPv4/Subnet mask '192.168.1.1/255.255.255.0' with a '(2)' next to it. Below this is the 'CONFIGURATION' section with a 'Setup Wizard' button. The 'PORT STATISTICS' section shows a table of port statuses. At the bottom, the 'WAN STATUS' section is visible, with a red box highlighting the WAN1 IP Address '203.0.113.1' and a '(1)' next to it.

System Status

SYSTEM INFORMATION

Serial Number : 0 Firmware Version : v1.0.2.06 (Apr 14 2014 11:33:51)
Model Name : LRT224 Firmware MD5 Checksum : c631e5662061178ac0c7cbdf21a0125e

LAN (2)
IPv4/Subnet_mask : 192.168.1.1/255.255.255.0
IPv6/Prefix : fc00::1/7
Working_Mode : Gateway

System Up Time : 0 Days 2 Hours 36 Minutes 34 Seconds (Now : Tue Apr 8 2014 22:15:20)

CONFIGURATION

If you need guideline to re-configure the router, you may launch wizard. [Setup Wizard](#)

PORT STATISTICS

Port ID	1	2	3	4	WAN	DMZ/WAN
Interface	LAN				WAN1	WAN2
Status	Enabled	Enabled	Enabled	Connected	Enabled	Enabled

WAN STATUS

IPv4 IPv6

WAN1
IP Address : 203.0.113.1 (1)
Default Gateway : 203.0.113.254

Step Three: Group VPN Setup

- Go to Configuration > VPN > Client To Gateway

The screenshot shows the Linksys LRT224 Dual WAN Gigabit VPN Router configuration interface. The 'Configuration' tab is active, and the 'Client To Gateway' section is selected. Under 'ADD A NEW GROUP VPN', the 'Group VPN' radio button is selected and highlighted with a red box. The 'Group No.' is set to 1. The 'Tunnel Name' field contains 'VPN Tracker' and is also highlighted with a red box. The 'Interface' is set to 'WAN1' and 'Enable' is checked.

- Select Group VPN
- Choose a Tunnel Name (i.e. VPN Tracker)
- For **Local Group Setup**: The correct settings should already be filled in. The IP address will be similar to the address you wrote down earlier as (2) but it will have zeros in those places where the subnet mask has zeros. Write it down as (3)
- Remote Client Setup**: These values correspond to the Local Identifier in VPN Tracker 365
- For Remote Client, select Domain Name (FQDN) (4)

The screenshot shows two configuration sections. The 'LOCAL GROUP SETUP' section has 'Local Security Group Type' set to 'Subnet'. The 'IP Address' field is '192.168.13.0' (marked with a red (3)) and the 'Subnet Mask' is '255.255.255.0'. The 'REMOTE CLIENT SETUP' section has 'Remote Client' set to 'Domain Name(FQDN)' (marked with a red (4)) and 'Domain Name' set to 'vpntracker.local' (marked with a red (5)).

- For **Domain Name**, enter an arbitrary, non-existent FQDN, e.g. "vpntracker.local" **(5)**

IPSEC SETUP

Keying Mode :	IKE with Preshared key
Phase 1 DH Group :	Group 5 - 1536 bit
Phase 1 Encryption :	AES-256
Phase 1 Authentication :	SHA1
Phase 1 SA Life Time :	28800 seconds (Range: 120-86400, Default: 28800)
Perfect Forward Secrecy :	<input checked="" type="checkbox"/>
Phase 2 DH Group :	Group 5 - 1536 bit
Phase 2 Encryption :	AES-256
Phase 2 Authentication :	SHA1
Phase 2 SA Life Time :	3600 seconds (Range: 120-28800, Default: 3600)

- **IPSec Setup:** We recommend using the values shown above, as they are more secure than the device's default settings (DES/MD5/DH Group 1)
- **Pre-Shared Key:** Choose a long and complex pre-shared key. Write it down as **(6)**

Preshared Key :

Minimum Preshared Key Complexity : Enable

Preshared Key Strength Meter :

- By **Advanced**, check the box **NAT-Traversal**
- Click **Save** to finish your setup

ADVANCED

Aggressive Mode

Compress (Support IP Payload Compression Protocol(IPComp))

Keep-Alive

AH Hash Algorithm MD5

NetBIOS Broadcast

NAT Traversal

Save **Cancel**

Task Two - Setting up VPN Tracker

Step One: Add a connection

- Open VPN Tracker 365
- Click **File > Create a Connection** or click the + in the bottom left corner
- Select **Linksys (Belkin)** from the list and choose your device
- Click **Create** to configure your connection

Step Two: Configure the VPN connection for your device

- Next to **VPN Gateway**, enter your device's **Public IP Address** or **Host Name** **(1)**
- **Remote Network:** Enter your Linksys LAN network address and subnet mask. VPN Tracker will automatically convert the mask (e.g. /255.255.255.0) to CIDR notation (e.g. /24) **(3)**
- **Authentication:** Enter your **Pre-Shared Key** **(6)**
- For **Local Identifier**, select **Fully Qualified Domain Name (FQDN)** **(4)** and enter the domain name that you entered on the Linksys **(5)**
- Click **Done** once you're finished to save the connection or select **Share with Team** to save in TeamCloud

VPN to Linksys (Belkin) LRT224

Send Feedback
Done
Log

Basic Advanced Actions Notes

LINKSYS

Connection Name VPN to Linksys (Belkin) LRT224
Connection based on [Linksys \(Belkin\) LRT224](#)
[Configuration Guide](#)

VPN Gateway 203.0.113.1 (1)

Network Configuration

Protocol IKEv1
Topology Host to Network ?
Local Address IP Address ?
Remote Networks 192.168.13.0 / 24 (3)

Authentication Pre-shared key ? [Stored in keychain \(Shared Secret for Connection VPN to Linksys \(Belkin\) LRT224\)](#) (6)

Identifiers (4)

Local Fully Qualified Domain Name (FQDN) ? vpnt tracker.local ? (5)
Remote Remote Endpoint IP Address ?

DNS Use Remote DNS Server

Task Three - Testing the VPN connection

In order to test your connection, you will need to connect from a different Internet connection than the one the gateway is using. For example, if you are setting up a VPN connection to your office, try it out at home, from an Internet cafe, or use your mobile phone as your own personal hotspot.

Connect to your VPN

- Check first of all that your internet connection is working as it should be. Use this link as a test: <http://www.equinux.com>
- Start the VPN Tracker 365 app.
- Click on the On/Off slider to turn on your connection.

IMPORTANT:

If you are using VPN Tracker for the first time with your current Internet connection, it will test your connection. Wait for the test to complete.

Connected!

Connecting may take a couple of seconds. If the On/Off button turns blue that's great – you're connected! Now is a great time to take a look at the [VPN Tracker Manual](#). It shows you how to use your VPN and how to get the most out of it.

Troubleshooting

In case there's a problem connecting, a yellow warning triangle will show up. Click the yellow warning triangle to be taken to the log. The log will explain exactly what the problem is. Follow the steps listed in the log.

TIP: Press Cmd-L to open the log in a new window. That way, you can have the log side-by-side with your VPN configuration while making changes to troubleshoot a problem.

VPN Tracker Manual

The [VPN Tracker Manual](#) contains detailed troubleshooting advice. Answers to frequently asked questions (FAQs) can be found at: <http://www.vpntracker.com/support>

Technical Support

If you're stuck, the technical support team at equinix is here to help. Contact us via <http://www.vpntracker.com/support>

Please include the following information with any request for support:

- A description of the problem and any troubleshooting steps that you have already taken.
- A VPN Tracker Technical Support Report (Log > Technical Support Report).
- Device vendor, model, and firmware version installed.
- Screenshots of the VPN settings on your VPN gateway as shown by this guide.

IMPORTANT: A Technical Support Report contains the settings and logs necessary for resolving technical problems. Confidential information (e.g. passwords, private keys for certificates) is not included in a Technical Support Report.