

# Rv042 Intial Setup

Document ID: 108943

---

## Questions

- Introduction**
- Features and Functions**
- Security Supported**
- LEDs**
- Troubleshoot**
- Firmware Updgrade Method**
- Special Features**
- Others and Additional Information**
- Related Information**

---

## Introduction

This article is one in a series to assist in the setup, troubleshooting, and maintenance of Cisco Small Business products.

Refer to Cisco Technical Tips Conventions for more information on document conventions.

## Features and Functions

### Q. What is the RV042?

A. The Router features a built-in, 4-port, full-duplex, 10/100 Ethernet switch to connect four computers directly, or you can connect more switches to expand your network. For remote connections, up to 50 remote office or traveling users can securely connect to your office network through the Virtual Private Network (VPN) capability of your router. It has a built SPI firewall that protects your PCs from most known Internet Attacks.

### Q. What are the IP address, username and password to login to the RV042?

A. The IP address is 192.168.1.1. The username is admin and the password is admin.

### Q. How do I reset a router that is not able to connect to the UI?

A. Reset the router back to the factory default and change the LAN IP address from 192.168.1.1 to 192.168.2.1.

### Q. How can I reset the RV042 to the factory defaults?

A. Hold the **Reset** button for about 30 seconds.

**Q. What is the maximum number of IP addresses that the Router supports?**

A. The Router supports up to 253 IP addresses.

**Q. Is IPSec Pass-through supported by the Router?**

A. Yes, enable or disable IPSec Pass-through on the VPN > VPN Pass Through tab.

**Q. Does the Router support IPX or AppleTalk?**

A. No. TCP/IP is the only protocol standard for the Internet and has become the global standard for communications. IPX, a NetWare communications protocol used only to route messages from one node to another, and AppleTalk, a communications protocol used on Apple and Macintosh networks, can be used for LAN to LAN connections, but those protocols cannot connect from the Internet to the LAN.

**Q. What is a DMZ Host?**

A. A Demilitarized Zone (DMZ ) allows one IP address (computer) to be exposed to the Internet. It is not within firewall protection. Some applications require multiple TCP/IP ports to be open. It is recommended that you set your computer with a static IP if you want to use a DMZ Host.

**Q. Does the WRV210 support PoE or 802.3af?**

A. No, the WRV210 does not support PoE on its own.

**Q. Does the Router pass PPTP packets or actively route PPTP sessions?**

A. The Router allows PPTP packets to pass through.

**Q. What internet connection types does the RV042 support?**

- ◆ Automatic IP Configuration – DHCP
- ◆ PPPoE
- ◆ Static IP
- ◆ PPTP
- ◆ Heart Beat Signal

## **Security Supported**

**Q. How many QVPN clients/IPSec Tunnels does RV042 support at most?**

A. It supports a maximum of 50 QVPN clients/IPSec Tunnels Total.

**Q. How many Access Rules can be established at most?**

A. A maximum of 50 Access Rules can be established.

## LEDs

### Q. What LEDs does the RV042 have?

A. The RV042 has nine LEDs:

- ◆ Dig Internet
- ◆ Internet
- ◆ DMZ/Internet
- ◆ DMZ Mode
- ◆ LAN (1–4)

### Q. What are the LEDs and what do they mean?

- ◆ Diag (Red) The Diag LED lights when the Router is not ready for use. It turns off when the Router is ready for use.
- ◆ System (Green) The System LED lights when the Router is powered on. It flashes when the Router runs a diagnostic test.
- ◆ Internet (Green) The Internet LED lights when the Router is connected to a cable or DSL modem through the Internet (WAN1) port.
- ◆ DMZ/Internet (Green) The DMZ/Internet LED lights when the Router is actively connected through the DMZ/Internet (WAN2) port.
- ◆ DMZ Mode (Green) The DMZ Mode LED lights when the Router uses DMZ mode.
- ◆ 1, 2, 3, 4 (LAN) (Green) These numbered LEDs, correspond to the numbered ports on the back panel of the Router and serve two purposes. The LED solidly lights when the Router is connected to a device through that port. The LED flashes to indicate network activity over that port.

## Troubleshoot

### Q. Why does the DSL telephone line not fit into the Internet port of the Router?

A. The Router does not replace your modem. You still need your DSL modem in order to use the Router. Complete these steps:

1. Connect the telephone line to the DSL modem.
2. Connect the RJ45 (Blue Cable) to the Internet Port on your Router.
3. Insert the setup CD into your computer.
4. Complete the on screen instructions.

### Q. How do I connect a multihomed server with an interface that has a public IP address?

A. If you want to connect your server on the private interface through a VPN tunnel, complete these steps:

1. The default gateway is a public IP, issue the **route -p add 192.168.1.0 mask 255.255.255.0 10.0.1.X** command.
2. Restart the sever. It goes through after server restart.
3. The inside address on the remote gateway must be reset, and the tunnel adjusted

accordingly. VPN tunnel settings at local site must be adjusted as well.

4. Tunnel up: ping from the server to the workstation. Disable trend micro firewall, and make sure you can ping from workstation to server as well as \\10.0.1.X\ and get a challenge for username and password.

## Firmware Updgrade Method

### Q. How do I upgrade the Firmware on the RV042?

A. Complete these steps:

1. Download the **firmware** and useful **utilities tool** from the Cisco Download Center ( registered customers only) .
2. Access the web-based setup page of the Router.
3. When the web-based setup page appears, click **Administration** then **Firmware Upgrade**.
4. When the Upgrade Firmware opens, click **Browse**. At this point, look for the .bin file which contains the files necessary to upgrade the firmware of the router.
5. Browse to the location where the firmware files are extracted and select the .bin file. When the file is selected, click **Open**.
6. Click **Upgrade**.
7. When the upgrade is complete, this message appears: Upgrade is Successful. Rebooting

## Special Features

### Q. What can I do if I do not have the Security Protection Tab option within my RV042 interface?

A. All new firmware versions are available in the Cisco Software Center ( registered customers only) . Cisco recommends that you perform all firmware upgrades on your local network, not remotely.

**Note:** You need a registered account to login. If you do not already have one, visit Cisco.com Registration. We do not share your information, so it is completely confidential

### Q. What is Trend Micro InterScan Messaging Hosted Security?

A. Trend Micro InterScan Messaging Hosted Security is a hosted email security service that can benefit any size organization. We provide the hardware, software, and messaging expertise to cleanse your email of spam, viruses, worms, Trojans, and phishing (identity theft) attacks. The cleaned mail stream is sent directly to your mail server for final delivery to your end users.

### Q. How much does the Trend Micro service cost?

A. Trend Micro InterScan Messaging Hosted Security is sold in five seat and 25 seat increments on an annual payment plan. Contact Sales or a Local/Online Retail for exact pricing.

**Q. How do I begin to use the IMHS service? Do I need to install, configure, or maintain anything?**

A. A simple redirection of your Mail eXchange (MX) record is all that is needed to start the service. Your email is processed by the Trend Micro InterScan Messaging Hosted Security to remove spam, viruses, worms, Trojans, and phishing attacks. The clean messages are then sent directly to your mail server. This process can be activated either through the Initial TrendMicro Registration or contact [imhs\\_support@trendmicro.com](mailto:imhs_support@trendmicro.com) if you have already activated the Web Protection Portion of the service.

**Q. For what is Trend Micro Web Protection used?**

A. Use Web Protection to manage and protect employee Internet use by blocking access to non-work-related and malicious Web sites.

**Q. What level of Web Reputation must I choose?**

A. The higher the security level, the more URLs that are known or suspected to be a Web threat are blocked.

- ◆ High Blocks a greater number of Web threats but increases the risk of false positives.
- ◆ Medium Blocks most Web threats and does not create too many false positives. This is the recommended setting.
- ◆ Low Blocks fewer Web threats but reduces the risk of false positives.

**Others and Additional Information**

**Q. What type of DDNS providers does the RV042 support?**

- ◆ DynDNS
- ◆ 3322
- ◆ PeanutHull

**Q. With what type of Internet Browser can the RV042 be used?**

- ◆ Microsoft Internet Explorer
- ◆ Mozilla Firefox
- ◆ Safari

**Q. What ports need to be opened for QVPN and to troubleshoot the tunnel connection?**

- ◆ Refer to <http://www.grc.com> in order to find the results for port scanning: 500, 4500, 433, 60443.
  - ◆ Change the IP address of the network to **192.168.2.0**, and refresh the network connection.
-

# Related Information

- **Technical Support & Documentation – Cisco Systems**

---

[Contacts & Feedback](#) | [Help](#) | [Site Map](#)

© 2008 – 2009 Cisco Systems, Inc. All rights reserved. [Terms & Conditions](#) | [Privacy Statement](#) | [Cookie Policy](#) | [Trademarks of Cisco Systems, Inc.](#)

---

Updated: Dec 12, 2008

Document ID: 108943

---