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Linksys RVS4000

Linksys Cisco RVS4000 4-Port Gigabit Security Router - VPN User Manual

MODEL: RVS4000

1. Introduction

The Linksys Cisco RVS4000 is a 4-Port Gigabit Security Router designed to provide secure, high-speed network access for small businesses. It integrates advanced security features, including a Stateful Packet Inspection (SPI) Firewall with an Intrusion Prevention System (IPS), and Virtual Private Network (VPN) capabilities. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your RVS4000 router.

2. Package Contents

Verify that your package contains the following items:

- Linksys Cisco RVS4000 4-Port Gigabit Security Router
- Power Adapter
- Ethernet Cable
- Stands (for vertical placement, if applicable)
- Quick Installation Guide (not included in this digital manual)

3. Physical Overview

Familiarize yourself with the front panel indicators of the RVS4000 router.



Figure 1: Front Panel of the RVS4000 Router. This image displays the front of the Linksys Cisco RVS4000 router, showing the Cisco logo on the left, followed by LED indicators for POWER, DIAG, and IPS. To the right are four numbered Ethernet port indicators (1-4) with speed labels (10, 100, 1000 Mbps) and an INTERNET (WAN) indicator. The model number RVS4000 is visible on the far right.

- **POWER LED:** Indicates the power status of the device.
- **DIAG LED:** Indicates diagnostic status. A red light may indicate an issue.
- **IPS LED:** Indicates the status of the Intrusion Prevention System.
- **ETHERNET (1-4) LEDs:** Indicate activity and connection speed (10/100/1000 Mbps) for the four Gigabit LAN ports.
- **INTERNET LED:** Indicates activity on the WAN (Internet) port.

4. Setup

4.1. Physical Connection

1. **Power Off:** Disconnect power from your modem and any existing router.
2. **Connect Modem:** Connect one end of the provided Ethernet cable to your broadband modem (DSL or Cable) and the other end to the **INTERNET (WAN)** port on the RVS4000 router.
3. **Connect Devices:** Connect your computers or network devices to any of the four**ETHERNET (LAN)** ports (1-4) on the RVS4000 using Ethernet cables.
4. **Power On Modem:** Connect the power adapter to your modem and power it on. Wait for the modem to fully initialize (usually indicated by stable status lights).
5. **Power On Router:** Connect the power adapter to the RVS4000 router and plug it into a power outlet. The **POWER** LED should illuminate.
6. **Verify Connection:** Wait for the **INTERNET** LED to become stable, indicating a successful connection to your modem and the internet. The **ETHERNET** LEDs for connected devices should also be active.

4.2. Initial Configuration

To access the router's web-based management interface for initial configuration:

1. Ensure your computer is connected to one of the LAN ports of the RVS4000.
2. Open a web browser (e.g., Chrome, Firefox, Edge).
3. In the address bar, type the default IP address of the router (commonly192.168.1.1 or 192.168.0.1) and press Enter. Refer to the Quick Installation Guide or the label on the router for the exact default IP.
4. Enter the default username and password when prompted. (Common defaults areadmin for both username and password). It is highly recommended to change these default credentials immediately for security.
5. Follow the on-screen setup wizard or navigate through the interface to configure your Internet connection settings (e.g., DHCP, Static IP, PPPoE), Wi-Fi settings (if using an external access point), and security features.

5. Operating the Router

5.1. Security Features

- **Stateful Packet Inspection (SPI) Firewall:** This firewall inspects incoming and outgoing packets to determine if they belong to an active, legitimate connection. It blocks unauthorized access attempts.
- **Intrusion Prevention System (IPS):** The IPS scans network traffic for signatures of known attacks, such as worms, Trojan horses, and denial-of-service (DoS) attacks, and blocks them. Monitor the IPS LED on the front panel for its status.

- **VPN Capabilities (IPsec VPN):** The RVS4000 supports IPsec VPN tunnels, allowing remote users to securely connect to your office network over the Internet. This enables secure access to files and resources as if they were physically in the office. Configuration details for VPN are available within the router's web interface.

5.2. Network Management

- **Gigabit Ethernet Ports:** The four 10/100/1000 Mbps LAN ports provide high-speed connectivity for your local network devices, facilitating fast data transfers and supporting bandwidth-intensive applications.
- **Quality of Service (QoS):** The router includes QoS features to prioritize network traffic, ensuring consistent performance for critical applications like Voice over IP (VoIP) and video conferencing.
- **Virtual LAN (VLAN) Support:** The RVS4000 supports up to four 802.1Q VLAN connections, allowing you to segment your network traffic for improved security and management. This feature is useful for separating guest networks from internal business networks.

6. Maintenance

- **Firmware Updates:** Regularly check the Linksys support website for firmware updates. Firmware updates can improve performance, add new features, and address security vulnerabilities. Follow the instructions provided with the firmware update package carefully.
- **Regular Reboot:** While designed for continuous operation, occasional reboots can resolve minor performance issues. It is recommended to power cycle the router by disconnecting the power adapter from the electrical outlet, waiting 10-15 seconds, and then reconnecting it. *Note: Some users have reported that unplugging the power adapter from the wall outlet, rather than just the barrel plug from the unit, is necessary for a proper reboot.*
- **Physical Cleaning:** Keep the router in a well-ventilated area. Periodically clean the exterior with a soft, dry cloth to prevent dust buildup, which can affect cooling.
- **Backup Configuration:** Regularly back up your router's configuration settings through the web management interface. This allows for quick restoration of your settings in case of a factory reset or device replacement.

7. Troubleshooting

7.1. Common Issues and Solutions

- **No Internet Connection:**
  - Check if the **INTERNET** LED on the front panel is solid green. If not, verify the cable connection to your modem and ensure the modem is working correctly.
  - Power cycle both your modem and the RVS4000 router.
  - Verify your Internet connection settings in the router's web interface.
- **Devices Cannot Connect to Network:**
  - Ensure devices are properly connected to the LAN ports and their respective **ETHERNET** LEDs are active.
  - Check network adapter settings on your computer (e.g., set to obtain IP address automatically).
  - Temporarily disable any firewall or IPS features on the router to see if they are blocking connections (re-enable after testing).
- **Slow Network Performance:**
  - Ensure all connected devices and cables support Gigabit speeds for optimal performance.
  - Check for high network traffic or bandwidth-intensive applications.
  - Consider adjusting QoS settings to prioritize critical traffic.
- **Router Unresponsive/Cannot Access Web Interface:**

- Perform a power cycle by unplugging the router's power adapter from the wall outlet for 10-15 seconds, then plugging it back in.
- If the issue persists, a factory reset may be necessary. Locate the reset button (usually a small pinhole) on the router, press and hold it for 10-15 seconds while the router is powered on. **Warning:** A factory reset will erase all custom settings and revert the router to its default configuration.

8. Specifications

Feature	Description
Model Name	RVS4000
Brand	Linksys
WAN Ports	1 x 10/100/1000 Gigabit Ethernet
LAN Ports	4 x 10/100/1000 Gigabit Ethernet
Connectivity Technology	Wired
Security Features	SPI Firewall, Intrusion Prevention System (IPS), IPsec VPN
Max VPN Connections	5 (IPsec)
QoS	Supported
VLAN Support	Up to four 802.1Q VLANs
Product Dimensions	1.61 x 6.69 x 6.69 inches
Item Weight	11.3 ounces
Manufacturer	CISCO SYSTEMS - ENTERPRISE

9. Warranty and Support

For specific warranty information, please refer to the documentation included with your product at the time of purchase or visit the official Linksys support website. Technical support, updated drivers, and additional resources can typically be found on the Linksys support portal.
Important Note: This product is manufactured by CISCO SYSTEMS - ENTERPRISE and branded as Linksys. For support, always refer to Linksys official channels.

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