

# Setting up the Ringdale Proxy Router and DHCP Server on an IP Network

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## Introduction

This paper is designed to help you set up the Ringdale Proxy Router and DHCP server on an IP network.

## Overview: The Ringdale Proxy Router and DHCP Server

Now you can wire every classroom, computer lab, dormitory, guest and hospital room with network access—without securing a dedicated IP address for each PC. Expanding the Internet access in your building from a limited number of IP addresses is as easy as adding a Ringdale Proxy Router and DHCP server.

Designed specifically for schools, colleges, hotels, hospitals and other large multiroom facilities, a single Proxy Router and DHCP server supplies network access to up to 252 devices through one fixed IP address. Whether you're accessing the local intranet, browsing the World Wide Web, or sending email, the Proxy Router and DHCP server provides full dynamic support of HTTP, FTP, Proxy ARP and TCP/IP.

### Total Network Security

While the Proxy Router lets students, guests, patients and hospital staff reach your network services for access to email and the Internet/intranet, the DHCP server also provides protection from any unauthorized tampering. The DHCP server dynamically assigns IP, gateway and DNS addresses to devices on your LAN, while the Proxy Router automatically hides those same addresses from the outside, creating a firewall against intrusion from Internet hackers. The Proxy Router and DHCP server add security for computers, printers and other devices on your network.



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8305 Highway 71 West , Austin, Texas 78735  
Phone: (512) 288-9080 Fax: (512) 288-7210  
website: <http://www.ringdale.com>

### Network Integrity

The device can also be used as a stand alone DHCP server only. Therefore, you no longer have to rely on a DHCP server running on a file server. This DHCP server device is much more reliable and can keep the rest of the operation up and running even if the servers are down. This device is an absolute must for mission critical installations using the DHCP method of assigning IP addresses.

### Low-Power Technology

The Proxy Router and DHCP server is also designed to be extremely power efficient, with only 3 watts of power needed.

### Easy Network Administration

For easy, centralized administration, the Proxy Router and DHCP server also comes with Ringdale's PeripheralVision™ remote management software, allowing you to monitor and manage network devices with the click of a mouse. What's more, the simple design of the Proxy Router and DHCP server makes it virtually maintenance free—requiring little attention from network administrators.

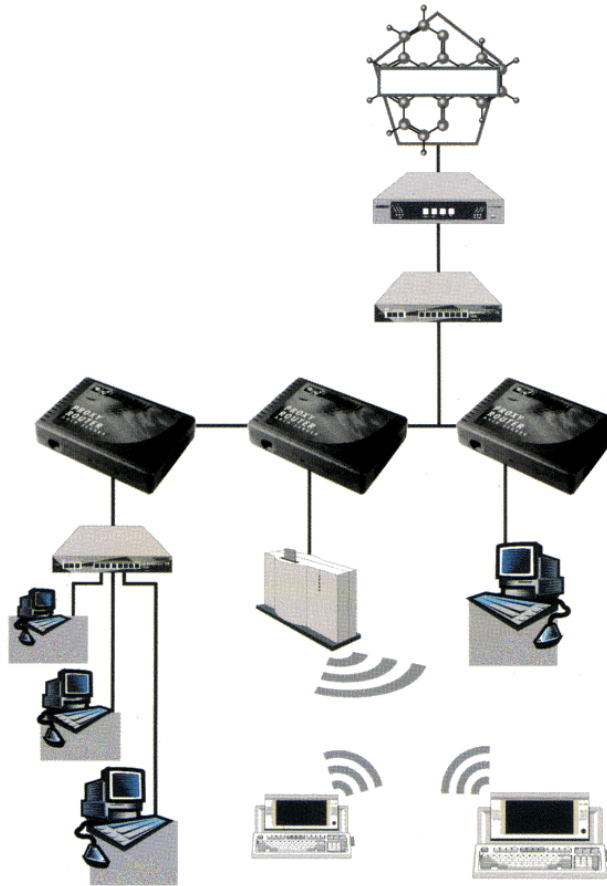
### Internet Access

A low cost Internet installation for a hotel or similar environment can be achieved using a Ringdale OverLAN ISDN to LAN router in combination with a Ringdale Ethernet or Fast Ethernet Hub. One Proxy Router and DHCP server is needed per sixty-four rooms.

The Proxy Router is not an ISDN router but instead provides extended Ethernet connectivity, expanding existing Internet access to additional devices on your local area network.

With the increasing demands on the Internet, it takes a Proxy Router not only to ensure the integrity and security of your network but also to ensure your network keeps pace with the growing needs of your facility.

## Typical Use for the Proxy Router and DHCP Server:



## Instructions for Setting up a Proxy Router and DHCP Server on an IP Network

Follow these steps to set up your Ringdale Proxy Router and DHCP server (Proxy Router) on a IP Network:

- 1 Open PeripheralVision™ by clicking on **Start > Programs > PeripheralVision™**.
- 2 Double-click on the **IP** icon in the PeripheralVision™ window. The icon will have a default address of 11.22.33.44 and a “thumbs down” symbol over the router.
- 3 The **Agent property pages** will appear with a set of five tabs: **Names**, **Addresses**, **Value**, and two **Proxy Router** tabs. Most of the information on these tabs is default data and does not have to be changed. However, some data *must* be changed or added in order to successfully set up the router on your IP network. Follow the instruction for each tab:

### Names Tab

- 1 Select the **Names** tab. The field **Hardware Type** contains “Proxy Router” by default, while the **Icon Title** field contains the default address 11.22.33.44.
- 2 **Optional:** Type in a new **Icon Title** to rename the icon.

- 3 *Optional:* In the **Description** field, type a detailed description of the proxy router's location, for example, "West closet on third floor."
- 4 Click on **Apply** if you want changes made to apply immediately.

### **(First) Proxy Router Tab**

- 1 Select the first **Proxy Router** tab. Change the values in the following fields *only*:
- 2 The **IP Address** field contains the default value 11.22.33.44. Type in the IP address for your current network.
- 3 In the **DNS Name Server Address** field, type the Domain Name Server address for your network.
- 4 *Optional:* In the **Local IP** Address field, you can change the first three digits *only*.
- 5 *Optional:* Click on the **Change password** button. You can change the default password to prevent others from altering the Proxy Router configuration.
- 5 Click on **Apply** if you want changes made to apply immediately.
- 6 Select another tab, or click on **OK** to leave **Agent property pages** and save changes.

*Optional:* You can review the information on the three remaining tabs: the **Second Proxy Router**, **Addresses** and **Value** tabs. Data on these tabs appears by default and does not have to be changed.

### **(Second) Proxy Router Tab**

- 1 Click on the right arrow "▶" at the top of Agent property pages to see the second **Proxy Router** tab.
- 2 Select the second Proxy Router tab. The first field, **Hardware Description**, contains a default value.
- 3 If you have upgraded your Proxy Router, you will see the new version number in the **Firmware Version** field.
- 4 Select another tab, or click on **OK** to exit **Agent property pages**.

### **Addresses Tab**

- 1 Select the **Addresses** tab. The current **Network Card(s) Details**, including **IP Address**, **IP Subnet Mask**, and **Hardware Address** will be shown, by default. You do not need to alter the values in any of these fields when setting up the Proxy Router.
- 2 Select another tab, or click on **OK** to exit **Agent property pages**.

### **Value Tab**

- 1 Select the **Value** tab. Value is a record keeping function built into PeripheralVision™, and is *not* something you need to configure.
- 2 Select another tab, or click on **OK** to exit **Agent property pages**.

*This completes the setup process for the Ringdale Proxy Router and DHCP server on an IP network.*