Static Route Setup

Introduction

If you have many private subnets behind the router, or you want to access another public subnet via an inside router, you can configure the router to route IP packets to those inside IP networks using 1st IP address/subnet mask fields on the **LAN TCP/IP and DHCP Setup** page.
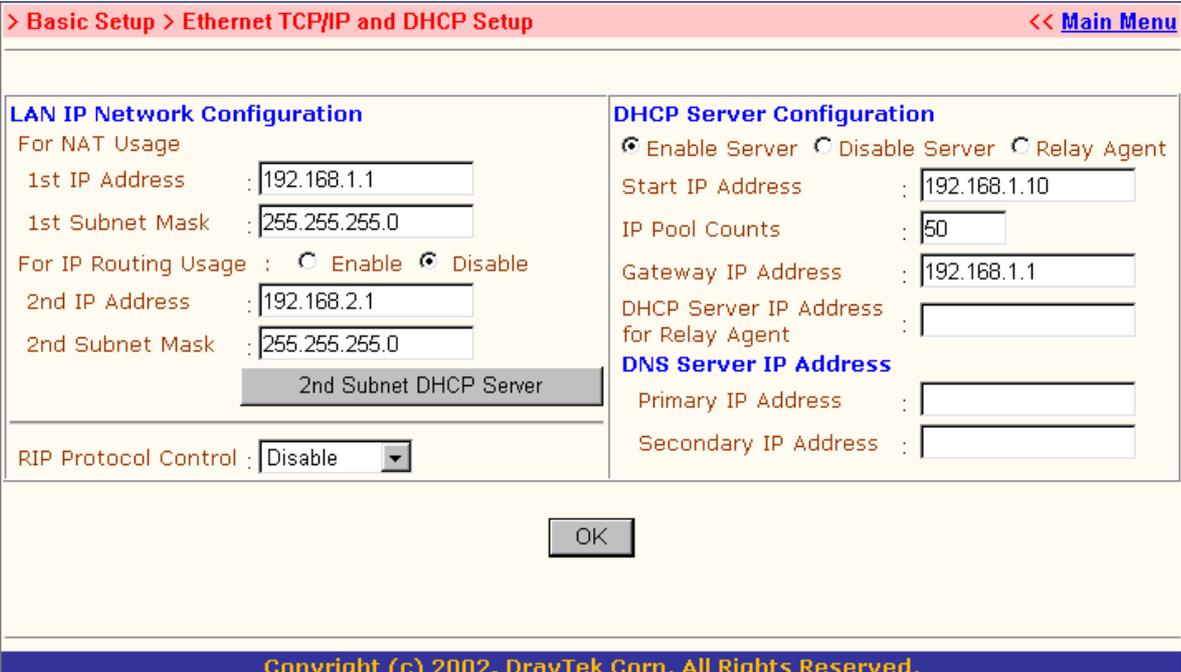
The router also has RIP (Routing Information Protocol) built-in by default. If the neighboring routers have the same protocol, the RIP will be used for exchanging routing information. Here, the **Static Route Setup** just provides a way to guide specified IP packets through specified routers statically.

Configuration

- Add Static Routes to Inside Private and Public Networks

Assume the Internet access setup has been configured and worked properly. You use the 1st subnet address 192.168.1.0/24 to surf the Internet and also an internal private subnet 192.168.10.0/24 via an internal router (192.168.1.2/24) and an internal public subnet 211.100.88.0/28 via an internal router (192.168.1.3/24). Also, the router 192.168.1.1/24 is a default gateway for the router 192.168.1.2/24.

1. Click **LAN TCP/IP and DHCP Setup,** select **RIP Protocol Control** as **1st Subnet**, and then click **OK** button.

Note: To set **RIP Protocol Control** as **1st Subnet** has two different meanings. The first one is that the LAN interface could be exchanged RIP packets with neighbor routers via 1st subnet (192.168.1.0/24). The second one is that those inside private subnets (ex. 192.168.10.0/24) could be NATed by the router to the Internet, but do IP routing for each other as well.

2. Add a static route to the inside private subnet 192.168.10.0/24 via the internal router 192.168.1.2/24. Click **Static Route Setup > Index Number** to add a static route to destination subnet 192.168.10.0/24 as below.

3. Add a static route to the inside public subnet 211.100.88.0/28 via 192.168.1.3/24.

Note: You should also add a static route in the router 192.168.1.3/24 to route IP packets to 192.168.1.0/24 and 192.168.10.0/24 subnets via the router 192.168.1.1/24.

4. Click **Static Route Setup > View Routing Table** to verify the current routing table.

- Delete or Deactivate a Static Route

1. Click **Static Route Setup > Index Number** which you want to delete.

2. Select **Status/Action** to **Empty/Clear**. Click **OK** button to delete the route.