

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 neighbor 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.

> Basic Setup > Ethernet TCP/IP and DHCP Setup << Main Menu

LAN IP Network Configuration	DHCP Server Configuration
For NAT Usage	Activate : <input checked="" type="radio"/> Yes <input type="radio"/> No
1st IP Address : 192.168.1.1	Start IP Address : 192.168.1.10
1st Subnet Mask : 255.255.255.0	IP Pool Counts : 50
For IP Routing Usage : <input type="radio"/> Enable <input checked="" type="radio"/> Disable	Gateway IP Address : 192.168.1.1
2nd IP Address : 192.168.2.1	DNS Server IP Address
2nd Subnet Mask : 255.255.255.0	Primary IP Address :
RIP Protocol Control : 1st Subnet	Secondary IP Address :

OK

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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.

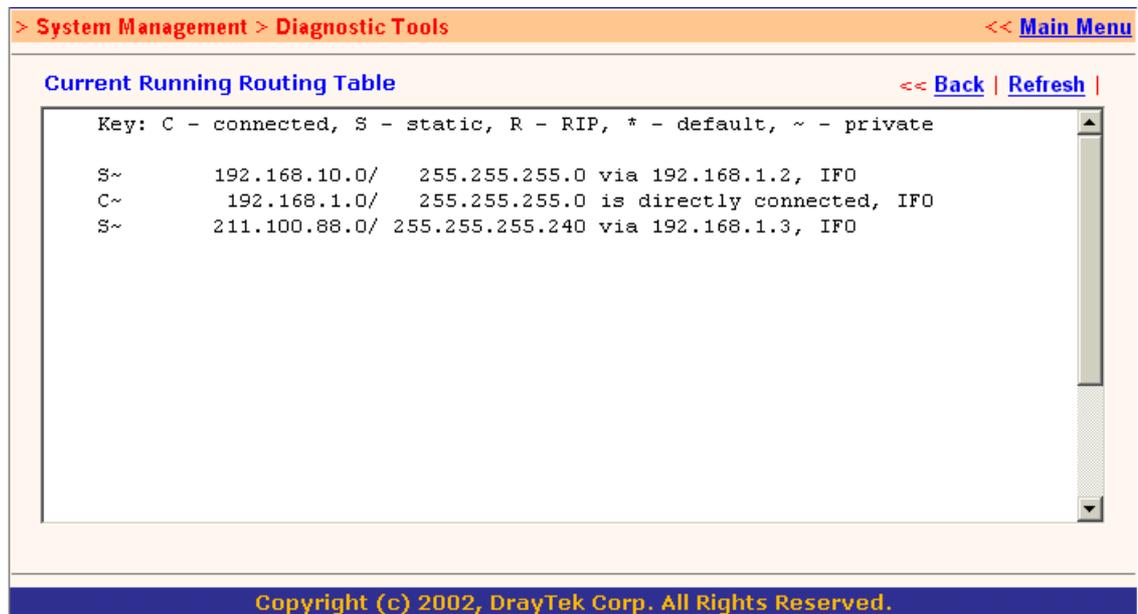
The screenshot shows a web-based configuration interface for a router. The title bar reads "> Advanced Setup> Static Route Setup" and includes a "<<Main Menu" link. The main content area is titled "Index No. 1" and has a "<<Back" link. A form contains the following fields: "Status/Action:" with a dropdown menu set to "Active/Add"; "Destination IP Address:" with a text box containing "192.168.10.0"; "Subnet Mask:" with a text box containing "255.255.255.0"; "Gateway IP Address:" with a text box containing "192.168.1.2"; and "Network Interface:" with a dropdown menu set to "LAN". Below the form is an "OK" button. The footer of the page reads "Copyright (c) 2002, DrayTek Corp. All Rights Reserved."

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

The screenshot shows a web-based configuration interface for a router. The title bar reads "> Advanced Setup> Static Route Setup" and includes a "<<Main Menu" link. The main content area is titled "Index No. 2" and has a "<<Back" link. A form contains the following fields: "Status/Action:" with a dropdown menu set to "Active/Add"; "Destination IP Address:" with a text box containing "211.100.88.0"; "Subnet Mask:" with a text box containing "255.255.255.240"; "Gateway IP Address:" with a text box containing "192.168.1.3"; and "Network Interface:" with a dropdown menu set to "LAN". Below the form is an "OK" button. The footer of the page reads "Copyright (c) 2002, DrayTek Corp. All Rights Reserved."

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.

