# Chapter 41: Static Route Configuration



# **Table of Contents**

Chapter 41 Static Route Configuration	2
41.1 Static Route Overview	2
41.2 Configure Static Route	2
41.2.1 Static Route Configuration List	2
41.2.2 Adding/Deleting a Static Route	2
41.2.3 Display Routing Entries	2

# **Chapter 41 Static Route Configuration**

### 41.1 Static Route Overview

The GPON is an ASIC-based Gigabit intelligent GPON, in which a layer-3 forwarding and routing table is maintained to specify the next hops of routes and relevant information. These routes may be learned dynamically through routing protocols or added manually. A static route is a route to an address or a network segment which is configured manually.

# 41.2 Configure Static Route

### 41.2.1 Static Route Configuration List

	Configuration Task	Description	Detailed Configuration
Adds a static routing entry		Required	41.2.2
Deletes a static routing entry		Required	41.2.2
Displays a specified routing entry		Optional	41.2.3
Displays an ECMP routing entry		Optional	41.2.3

## 41.2.2 Adding/Deleting a Static Route

Operation	Command	Remarks
Enters the global configuration mode.	ip route dst-ip mask gate-ip	
Enters the global configuration mode.	undo ip route dst-ip mask [ gate-ip ] undo ip route static all	

#### Notes:

gate-ip: next-hop IP address of a static route, in dotted decimal notation; dst-ip: destination address of a static route to be added, in dotted decimal notation; mask: mask of the destination address, in dotted decimal notation.

# 41.2.3 Display Routing Entries

This command displays the information relevant to the specified routing entry, such as the next-hop address and route type. You can choose to view the routes to a specific destination address, all static routes, and all routes. By default, all routes will be displayed.

Operation	Command	Remarks
Enters the all commands mode.	display ip route [ ip-address [ mask ]   static	
Enters the all commands mode.	rip   ospf ]	

Enters the all commands mode.	display ip route ecmp [ ip-address [ mask ]   static   rip   ospf ]	
-------------------------------	---	--

#### Parameter description:

ip-address: destination address, in dotted decimal notation; mask: accompany an IP address to specify a destination network segment, in dotted decimal notation;

static: to display all static routing entries; rip: to display all RIP routing entries; ospf: to display all OSPF routing entries