



Cable Modem and Host Subnet Addressing

Feature Overview

This feature enables a Cisco Universal Broadband Router (uBR) to manipulate the giaddr field in client Dynamic Host Control Protocol (DHCP) requests forwarded to DHCP servers in a Data Over Cable Service Interface Specifications (DOCSIS) environment.

Benefits

This feature provides hints to the DHCP server as to where (that is, on which IP subnet) the server should allocate addresses to the requesting client.

Supported Platform

Cisco uBR7200 Series Cable Router

Supported MIBs and RFCs

MIBs

None

RFCs

None

Configuration Tasks

None

Command Reference

This section documents new commands. All other commands used with this feature are documented in the Cisco IOS Release 12.0 command references.

- **cable dhcp-giaddr**

cable dhcp-giaddr

To control giaddr, use the **cable dhcp-giaddr** Interface Configuration command. Use the no form of this command to set dhcp-giaddr control to the default.

```
cable dhcp-giaddr [policy | primary]
no cable dhcp-giaddr
```

Syntax Description

policy	Selects the control policy, so the primary address is used for cable modems and the secondary addresses are used for hosts.
primary	Always selects the primary address to be used for giaddr.

Defaults

No control of giaddr from the cable code.

Command Modes

Interface Configuration

Command History

Release	Modification
12.0(4)T	This command was introduced.

Usage Guidelines

This command allows you to configure the cable modem subnet as the primary address and the host subnet as the secondary address.

Examples

The following example sets the primary address to be used always for giaddr.

```
Router(config-if) #cable dhcp-giaddr primary
```

