

Table of Contents

<u>DLSw+ Local Switching of Ethernet to QLLC</u>	1
<u>Document ID: 12297</u>	1
<u>Introduction</u>	1
<u>Prerequisites</u>	1
<u>Requirements</u>	1
<u>Components Used</u>	1
<u>Conventions</u>	1
<u>Configure</u>	1
<u>Network Diagram</u>	2
<u>Configuration</u>	2
<u>Verify</u>	3
<u>Troubleshoot</u>	3
<u>NetPro Discussion Forums – Featured Conversations</u>	3
<u>Related Information</u>	3

DLSw+ Local Switching of Ethernet to QLLC

Document ID: 12297

Introduction

Prerequisites

- Requirements

- Components Used

- Conventions

Configure

- Network Diagram

- Configuration

Verify

Troubleshoot

[NetPro Discussion Forums – Featured Conversations](#)

Related Information

Introduction

This document provides a sample configuration for data-link switching (DLSW+) local switching of Ethernet to Qualified Logical Link Control (QLLC).

Prerequisites

Requirements

There are no specific requirements for this document.

Components Used

The information in this document is based on Cisco IOS® software version 11.1, or greater.

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, make sure that you understand the potential impact of any command.

Conventions

Refer to Cisco Technical Tips Conventions for more information on document conventions.

Configure

In this section, you are presented with the information to configure the features described in this document.

Note: Use the Command Lookup Tool (registered customers only) to find more information on the commands used in this document.

Network Diagram

This document uses this network setup:



Configuration

This document uses this configuration:

- DLSw+ local switching of Ethernet to QLLC

```
X.25 Network
source-bridge ring-group 999
dlsw local-peer
dlsw bridge-group 10
interface Ethernet0
ip address 195.2.1.222 255.255.255.0
bridge-group 10

interface Serial0
description X.25 QLLC to FEP
no ip address
no ip mroute-cache
encapsulation x25
x25 address 1199015
x25 htc 100
x25 win 7
x25 wout 7
x25 ips 256
x25 ops 256
x25 map qllc 4000.2500.0001 1000621
qllc dlsw vmacaddr 4000.2500.0001

bridge 10 protocol ieee
```

Note: The front-end processor (FEP) is connected to the X.25 network. The X.25 address is 1000621. The MAC address that is assigned to the FEP is 4000.2500.0001. The stations in the Ethernet are configured with a destination MAC address of 0200.A400.0080, which is the bitswapped version of 4000.2500.0001.

If the FEP can also dial out, then the MAC address of the remote device needs to be specified under the X.25 interface using this command:

```
qllc dlsw partner 4000.3174.0001
```

This is the MAC address of the remote device 0200.8C74.0080, which is the bitswapped version of 4000.3174.0001, because the remote device is located in an Ethernet network.

Verify

There is currently no verification procedure available for this configuration.

Troubleshoot

There is currently no specific troubleshooting information available for this configuration.

NetPro Discussion Forums – Featured Conversations

Networking Professionals Connection is a forum for networking professionals to share questions, suggestions, and information about networking solutions, products, and technologies. The featured links are some of the most recent conversations available in this technology.

NetPro Discussion Forums – Featured Conversations for IBM
Network Infrastructure: Enterprise Data Centers

Related Information

- **IBM Technologies**
- **Technical Support & Documentation – Cisco Systems**

All contents are Copyright © 1992–2006 Cisco Systems, Inc. All rights reserved. Important Notices and Privacy Statement.

Updated: Jun 07, 2006

Document ID: 12297
