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# DLSw+ Local Switching of SDLC to QLLC

Document ID: 12298

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## Introduction

### Prerequisites

- Requirements

- Components Used

- Conventions

### Configure

- Network Diagram

- Configuration

### Verify

### Troubleshoot

[NetPro Discussion Forums – Featured Conversations](#)

### Related Information

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## Introduction

This document provides a sample configuration for data-link switching (DLSw+) local switching of Synchronous Data Link Control (SDLC) 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 SDLC to QLLC

```
X.25 Network
x25 routing
source-bridge ring-group 999
dlsw local-peer
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 qlhc 4000.2500.0001 1000621
qlhc dlsw vmacaddr 4000.2500.0001

interface Serial1
description SDLC Line
no ip address
encapsulation sdhc
no keepalive
sdhc role primary
sdhc vmac 4000.3174.0000
sdhc poll-pause-timer 200
sdhc address C1
sdhc xid C1 017A0909
sdhc partner 4000.2500.0001 C1
sdhc line-speed 19200
sdhc dlsw C1

x25 route 1000621 interface Serial0
bridge 10 protocol ieee
```

**Note:** This configuration works for Physical Unit 2 (PU 2.0) and Physical Unit type 2.1 (PU 2.1) devices. For PU 2.0 devices, you need to configure **qlhc dlsw npsi-poll** on the X.25 line where the front-end processor (FEP) is attached.

The FEP can be on the SDLC interface as well as the X.25 interface. For a sample configuration of the FEP on the SDLC side, refer to [Configuring Local SDLC to QLLC Using DLSw](#).

If calls can be originated on the X.25 interface, you need a partner clause in the **qlc dlsw** statement.

## 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.

<a href="#">NetPro Discussion Forums – Featured Conversations for IBM</a>
<a href="#">Network Infrastructure: Enterprise Data Centers</a>

## Related Information

- [IBM Technologies](#)
- [Technical Support & Documentation – Cisco Systems](#)

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