

DLSw for Multidrop SDLC with PU 2.1 and PU 2.0

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Introduction

Prerequisites

Requirements

Components Used

Conventions

Configure

Network Diagram

Configurations

Verify

Troubleshoot

Related Information

Introduction

This document provides a sample configuration for Data Link Switching (DLSw) Synchronous Data Link Control (SDLC) Physical Unit (PU) 2.1 and PU 2.0 multidrop.

Prerequisites

Requirements

There are no specific prerequisites for this document.

Components Used

This document is not restricted to specific software and hardware versions.

- Cisco IOS® Software Release 11.0

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

For more information on document conventions, refer to the Cisco Technical Tips Conventions.

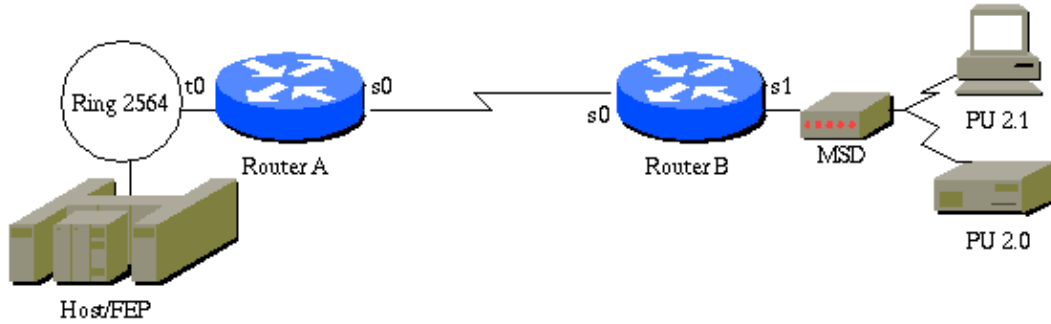
Configure

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

Note: To find additional information on the commands used in this document, use the Command Lookup Tool (registered customers only).

Network Diagram

This document uses the network setup shown in this diagram:



Configurations

This document uses the configurations shown here:

- RouterA
- RouterB

```
RouterA
hostname RouterA
source-bridge ring-group 100
dlsw local-peer peer-id 1.1.1.11
dlsw remote-peer 0 tcp 1.1.1.12

interface TokenRing0
no ip address
ring-speed 16
source-bridge 2564 1 100
source-bridge spanning

interface Serial0
ip address 1.1.1.11 255.0.0.0
```

```
RouterB
hostname RouterB
dlsw local-peer peer-id 1.1.1.12
dlsw remote-peer 0 tcp 1.1.1.11

interface Serial0
ip address 1.1.1.12 255.0.0.0

interface Serial1
mtu 4400
no ip address
encapsulation sdlc
no keepalive
clockrate 19200
sdlc role primary
sdlc vmac 4000.1234.5600
sdlc N1 27200
sdlc address C1
sdlc xid C1 05DCCCC1
sdlc partner 4001.3745.1088 C1
sdlc address C2 xid-poll
```

```
sdlc partner 4001.3745.1088 C2
sdlc dls w C1 C2
```

Note:

- You must use the **sdlc role primary** command for multidrop.
- In the **sdlc address C2 xid-poll** command, **xid-poll** indicates that this PU is a 2.1 device.
- The **sdlc vmac 4000.1234.5600** command specifies the MAC address that represents the SDLC devices as if they are on a Token Ring (Logical Link Control [LLC]) network. The SDLC address of each PU is inserted into the last two bytes of the virtual MAC address.
- The **sdlc partner 4001.3745.1088 C1** command specifies the Host Token Ring MAC address, in this case, the Front End Processor (FEP).
- The **sdlc xid C1 05DCCCC1** command generates the Exchange Identification (XID) Format 0 Type 2 (F0 T2) for PU 2.0 devices.
- The **sdlc dls w C1 C2** command binds these PUs to the DLSw+ feature.

Verify

There is currently no verification procedure available for this configuration.

Troubleshoot

This section provides information you can use to troubleshoot your configuration.

The **sdlc test serial <slot/port> <sdlc pooling address>** command, for example **sdlc test serial 1 C1**, can be used to determine whether the controller has been configured with the correct SDLC polling address and troubleshoot an incorrect configuration.

These debugs can be used to see what traffic is passed between the controller and the router for the purposes of troubleshooting:

- **debug sdlc events**
- **debug sdlc packets**

Related Information

- **Troubleshooting DLSw**
- **DLSw and DLSw+ Technical Support**
- **Technical Support – Cisco Systems**

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