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SDLLC with RSRB for Ethernet Configuration Example

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Introduction

Prerequisites

- Requirements

- Components Used

- Conventions

Configure

- Network Diagram

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[NetPro Discussion Forums – Featured Conversations](#)

Related Information

Introduction

This document provides a sample configuration for Synchronous Data Logical Link Control (SDLLC) with remote source–route bridging (RSRB) for Ethernet.

Prerequisites

Requirements

There are no specific requirements for this document.

Components Used

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

Conventions

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

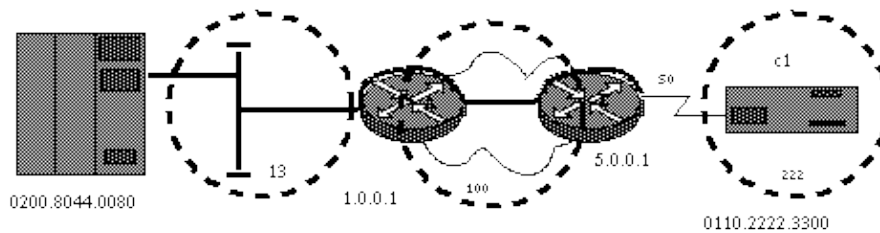
Configure

This section presents you with the information you can use in order to configure the features that this document describes.

Note: In order to find additional information on the commands this document uses, refer to the Command Lookup Tool (registered customers only) .

Network Diagram

This document uses this network setup:



Configurations

This document uses these configurations:

- Router A
- Router B

Router A
<pre>source-bridge ring-group 100 source-bridge remote-peer 100 tcp 1.0.0.1 source-bridge remote-peer 100 tcp 5.0.0.1 source-bridge transparent 100 13 1 4 interface ethernet 0 ip address 7.0.0.1 255.255.255.0 bridge-group 4 interface loopback 0 ip address 1.0.0.1 255.255.255.0</pre>

Router B
<pre>source-bridge ring group 100 source-bridge remote-peer 100 tcp 1.0.0.1 source-bridge remote-peer 100 tcp 5.0.0.1 interface serial 0 encapsulation sdllc-primary sdllc address c1 sdllc traddr 0110.2222.3300 222 1 100 sdllc partner 4000.0122.0001 c1 sdllc xid c1 17200c1 interface loopback 0 ip address 5.0.0.1 255.255.255.0</pre>

The MAC address on the Ethernet (canonical) is in the Least Significant Bit (LSB) first and the Token Ring (non-canonical) is in the Most Significant Bit (MSB) first. This means that the "traddr" address (non-canonical) must be the bitswapped version of the address in the host. Also, the partner address must be the bitswapped version of the Ethernet MAC address of the host.

0200.8044.0080 is the bitswapped form of 4000.0122.0001.

Note:

- This works for Synchronous Data Link Control (SDLC)–attached PU 2.0 devices only. Data–link switching (DLSw) supports both PU2.0 and PU2.1 SDLC–attached devices.
- The IP routing and WAN configuration is not shown in these configurations. But, they are required.
- Clocking is also required by the DCE device (not shown in these configurations).

Verify

There is currently no verification procedure available for this configuration.

Troubleshoot

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

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Network Infrastructure: Enterprise Data Centers

Related Information

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

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