

# DLSw for SDLC to SDLC Configuration Example

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## **Introduction**

This document provides a sample configuration for configuring Data Link Switching (DLSw) on serial interfaces at either end of the DLSw peer for a Synchronous Data Link Control (SDLC) to SDLC connection.

## **Before You Begin**

### **Requirements**

Before attempting this configuration, please ensure that you meet these requirements:

- The router must be running the IBM feature set.
- The DLSw peers must be configured.
- Both ends of the connection must be serial interfaces supporting SDLC.

### **Components Used**

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

### **Conventions**

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

## **Configure**

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

### **Network Diagram**

This document uses this network setup



## Configurations

This document uses these configurations:

- PU 2.0 Connection
- PU 2.1 Connection

PU 2.0 Connection
<pre> Router A  dlsw local-peer peer-id 1.1.1.1 dlsw remote-peer 0 tcp 1.1.1.2  int s 0 interface Serial2/0   no ip address   encapsulation sdhc   no keepalive   serial restart-delay 0   sdhc role secondary   sdhc vmac 4000.1000.0000   sdhc address C1   sdhc partner 4000.2000.00c1 C1   sdhc dlsw default  Router B  dlsw local-peer peer-id 1.1.1.2 dlsw remote-peer 0 tcp 1.1.1.1  interface Serial2/0   no ip address   encapsulation sdhc   no keepalive   serial restart-delay 0   sdhc role primary   sdhc vmac 4000.2000.0000   sdhc address C1   sdhc partner 4000.1000.00c1 C1   sdhc dlsw default </pre>

PU 2.1 Connection
<pre> Router A  dlsw local-peer peer-id 1.1.1.1 dlsw remote-peer 0 tcp 1.1.1.2  int s 0 interface Serial2/0   no ip address   encapsulation sdhc   no keepalive   serial restart-delay 0   sdhc role secondary   sdhc vmac 4000.1000.0000 </pre>

```
sdhc address C1 xid-passthru
sdhc partner 4000.2000.00c1 C1
sdhc dlsw default
```

Router B

```
dlsw local-peer peer-id 1.1.1.2
dlsw remote-peer 0 tcp 1.1.1.1
```

```
interface Serial2/0
no ip address
encapsulation sdhc
no keepalive
serial restart-delay 0
sdhc role none
sdhc vmac 4000.2000.0000
sdhc address C1
sdhc partner 4000.1000.00c1 C1
sdhc dlsw default
```

## Verify

This section provides information you can use to confirm your configuration is working properly.

- **show dlsw peer** Displays the status of the peer.
- **show dlsw reachability** Displays the status of the local and remote MAC addresses.
- **show dlsw circuit** Displays the status of the circuit.
- **show int serial x/x** Displays the status of the interface.

## Troubleshoot

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

- Refer to [Troubleshooting DLSw](#) for more information.

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## Related Information

- [IBM / SNA and Token Ring Technical Support](#)
- [Technical Support – Cisco Systems](#)

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