

Data Link Switching Plus (DLSw+)

(Cisco Commands to route SNA and/ or NetBIOS protocols using TCP/IP)

Data Link Switching (DLSw) is the industry-standard technique for transmitting "unroutable" SNA and NetBIOS protocols over router-based networks. DLSw encapsulates these protocols within TCP/IP messages that can be routed by any IP router. DLSw leverages the source route bridged (SRB) LAN infrastructures that are present in most SNA networks. DLSw encapsulates the IEEE 802.2 Logical Link Control 2 (LLC2) frames that are used to carry SNA and NetBIOS over SRB LANs.

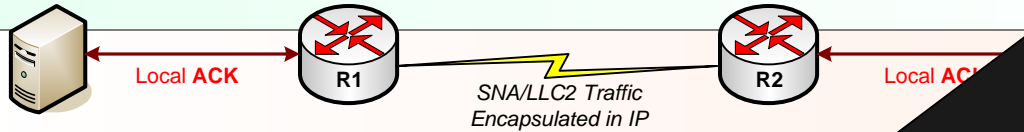
DLSw can translationally bridge onto Ethernet segments.

```
dlsw local-peer peer-id 10.30.1.1
dlsw remote-peer 0 tcp 192.168.10.1 priority
dlsw bridge-group 7
```

```
!
Interface Loopback0
ip address 10.30.1.1 255.255.255.0
!
interface Ethernet0
ip address 172.16.101.4 255.255.255.0
bridge-group 7
```

```
dlsw local-peer peer-id 10.40.1.1
dlsw remote-peer 0 tcp 172.16.101.4 priority
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Interface Loopback0
ip address 10.40.1.1 255.255.255.0
!
interface Ethernet0
ip address 192.168.10.1 255.255.255.0
bridge-group 7
```



```
dlsw remote-peer list-number tcp ip-address [priority] [cost cost] [lfl size] [pa
[keepalive seconds] [tcp-queue-max size] [lsap-output-list list] [host-netbi
[bytes-netbios-out bytes-list-name] [backup-peer ip-address] [timeout
[dynamic] [inactivity minutes] [no-llc minutes] [linger minutes]
```

R2#sh dlsw reachability

If it doesn't show anything, there's a problem!
It shows cached RIF's, whether they're local, and if not, what peer
It also shows the NetBIOS name cache contents.

R2#sh dlsw peers

```
Peers:          state      pkts_rx  pkts_tx
TCP 172.16.101.4 CONNECT  5763570  428322
```

R2#sh dlsw cir detail

```
Index      local addr(Isap)
1493172495 0200.8888.058c(04)
PCEP: 16A228 UCEP: 170
Port:TB7 peer 172.1
Flow-Control-Tx CW:2
Congestion: Low(0)
RIF = --no rif--
83886352 0
PCEP: 1
Port:
Congestion: Low(02), Flow Op: Half: 0/0 Reset 0/0
RIF = --no rif--
```

To enable DLSw+ on certain Ethernet interfaces, perform the following task in *global configuration mode*

Enable DLSw+ on an Ethernet interface.
dlsw bridge-group group-number

The following is a list of v...
used for TCP connecti...
keyword is used with the

high
med

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