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# Configuring TN3270 Session Switching Via DLUR/DLUS

Document ID: 12315

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## Introduction

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## Introduction

This document provides a sample configuration for configuring TN3270 session switching via Dependent LU Requester/Dependent LU Server (DLUR/DLUS).

## Before You Begin

### Conventions

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

### Prerequisites

There are no specific prerequisites for this document.

### Components Used

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

The information presented in this document was created from devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If you are working in a live network, ensure that you understand the potential impact of any command before using it.

### Design Notes

- There two mainframes: one running Multiple Virtual Storage (MVS), the other one running Virtual Media (VM). Both have channel-attached Cisco routers.
- There is a Data Link Switching Plus (DLSw+) cloud between the routers.
- There is no Advanced Peer-to-Peer Networking (APPN) subsystem on the routers, except for the TN3270 server DLUR on Channel Interface Processor B (CIPB). There is no TN3270 server on

Channel Interface Processor A (CIPA) (which is connected to the MVS mainframe).

- The TN3270 server defines two IP addresses to connect to either MVS or VM:
  - ◆ 10.32.70.1: connect to MVS
  - ◆ 10.32.70.2: connect to VM
- The TN3270 server has a DLUR/DLUS connection to VM Virtual Telecommunications Access Method (VTAM) (which is an APPN network node). MVS VTAM is an APPN end node. All three APPN nodes share a common Virtual Routing Node (VRN), so there is no need to define in the TN3270 server the link station to MVS VTAM. There will be a CP-CP session between MVS and VM and another CP-CP session between TN3270 (end node) and VM VTAM (network node server).

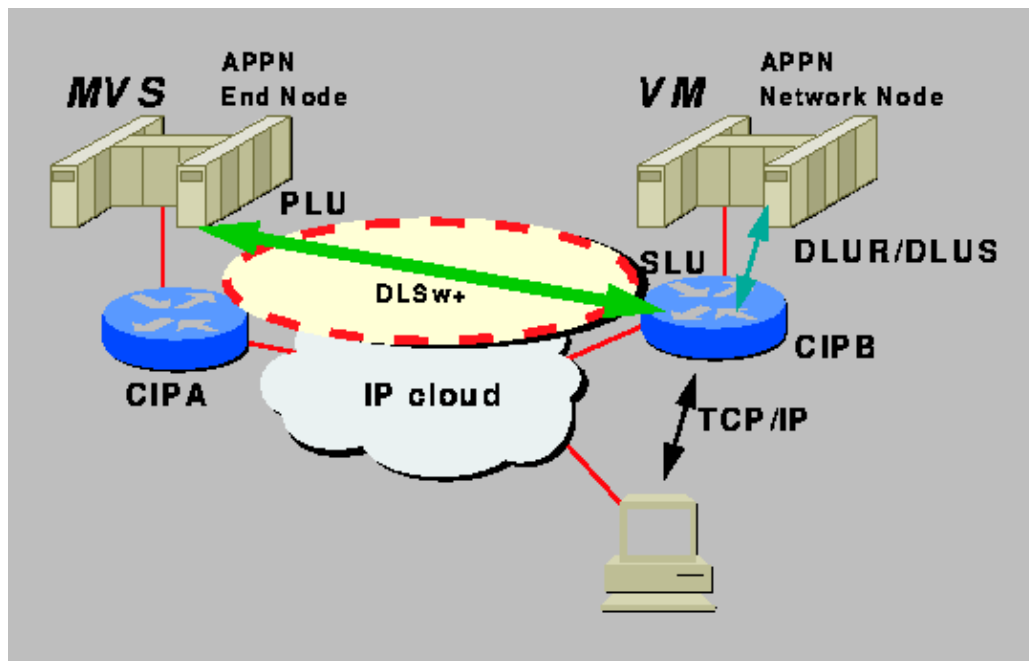
## Configure

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 the diagram below.



## Configurations

This document uses the configurations shown below.

- IOCP
- VTAM XCA Major Nodes
- VTAM Switched Major Node (VM mainframe)
- VTAM LUGROUP Major Node (VM mainframe)
- Router Configuration for CIPA
- Router Configuration for CIPB

IOCP

**CHPID 19 is used to connect to CIPA**

```
*
CHPID PATH=((19)),TYPE=CNC
CNTLUNIT CUNUMBR=0350,PATH=(19),UNITADD=((F0,16)),UNIT=SCTC, SHARED=N
IODEVICE ADDRESS=(8E0,16),CUNUMBR=(0350),UNIT=CTC
*
```

**CHPID 12 is used to connect to CIPB**

```
* * CHPID PATH=((12)),TYPE=CNC CNTLUNIT CUNUMBR=0700,PATH=(12),UNITADD=((00,16)),UNIT=SCTC,
SHARED=N IODEVICE ADDRESS=(700,16),CUNUMBR=(0700),UNIT=SCTC
```

VTAM XCA Major Nodes

```
CIPXCAA VBUILD TYPE=XCA
CIPXCAAP PORT ADAPNO=0,CUADDR=8F0,SAPADDR=04,MEDIUM=RING,TIMER=60, X
VNNNAME=DLSW, X
VNGROUP=CIPXCAAG
CIPXCAAG GROUP ANSWER=ON, X
AUTOGEN=(10,L,P), X
CALL=INOUT, X
DIAL=YES, X
ISTATUS=ACTIVE

*****

CIPXCAB VBUILD TYPE=XCA
CIPXCABP PORT ADAPNO=0,CUADDR=700,SAPADDR=04,MEDIUM=RING,TIMER=60, X
VNNNAME=DLSW, X
VNGROUP=CIPXCABG
CIPXCABG GROUP ANSWER=ON, X
AUTOGEN=(10,L,P), X
CALL=INOUT, X
DIAL=YES, X
ISTATUS=ACTIVE
```

VTAM Switched Major Node (VM mainframe)

```
SWTN3270 VBUILD TYPE=SWNET,MAXGRP=10,MAXNO=10
*
TN3270 PU ADDR=01, X
PUTYPE=2, X
ISTATUS=ACTIVE, X
CPCP=YES, X
TGN=1, X
NETID=NETA, X
CPNAME=DLUR3270
*
VMPU PU ADDR=01, X
PUTYPE=2, X
LUGROUP=DDDLUVM,LUSEED=VMLU##, X
PACING=8,VPACING=8, X
IDBLK=05D, X
IDNUM=01000
*
MVSPU PU ADDR=01, X
PUTYPE=2, X
LUGROUP=DDDLUMVS,LUSEED=MVSLU##, X
PACING=8,VPACING=8, X
```

### VTAM LUGROUP Major Node (VM mainframe)

DDDLUUSX	VBUILD	TYPE=LUGROUP	
DDDLUVM	LUGROUP		
327904E	LU	DLOGMOD=D4C32784,MODETAB=ISTINCLM,USSTAB=ISTINCDT, SSCPFM=USS3270,LOGAPPL=VM	X
327804E	LU	DLOGMOD=D4C32704,MODETAB=ISTINCLM,USSTAB=ISTINCDT, SSCPFM=USS3270,LOGAPPL=VM	X
327804	LU	DLOGMOD=D4C32782,MODETAB=ISTINCLM,USSTAB=ISTINCDT, SSCPFM=USS3270,LOGAPPL=VM	X
@	LU	DLOGMOD=D4C32782,MODETAB=ISTINCLM,USSTAB=ISTINCDT, SSCPFM=USS3270,LOGAPPL=VM	X
*			
DDDLUMVS	LUGROUP		
327904E	LU	DLOGMOD=D4C32784,MODETAB=ISTINCLM,USSTAB=ISTINCDT, SSCPFM=USS3270,LOGAPPL=MVS	X
327804E	LU	DLOGMOD=D4C32704,MODETAB=ISTINCLM,USSTAB=ISTINCDT, SSCPFM=USS3270,LOGAPPL=MVS	X
327804	LU	DLOGMOD=D4C32782,MODETAB=ISTINCLM,USSTAB=ISTINCDT, SSCPFM=USS3270,LOGAPPL=MVS	X
@	LU	DLOGMOD=D4C32782,MODETAB=ISTINCLM,USSTAB=ISTINCDT, SSCPFM=USS3270,LOGAPPL=MVS	X

### Router Configuration for CIPA

```

version 11.0
!
hostname CIPA
!
enable password cisco
!
source-bridge ring-group 100
dlsw local-peer peer-id 192.71.1.20
dlsw remote-peer tcp 0 192.71.1.30
!
interface Ethernet0/0
 ip address 192.71.1.20 255.255.255.0
!
interface Channell/0
 no ip address
 csna 0100 F0
!
interface Channell/2
 no ip address
 lan Tokenring 0
 source-bridge 20 1 100
 adapter 0 4000.aaaa.aaaa
!
logging buffered 50000
!
end

```

### Router Configuration for CIPB

```

version 11.2
!
hostname CIPB
!
enable password cisco
!

```

```
source-bridge ring-group 100
dlsw local-peer peer-id 192.71.1.30
dlsw remote-peer tcp 0 192.71.1.20
!
interface Ethernet0/0
 ip address 192.71.1.30 255.255.255.0
!
interface Channel1/0
 no ip address
 csna 0100 00
!
interface Channel1/2
 ip address 10.32.70.30 255.255.255.0
 no keepalive
 lan Tokenring 0
  source-bridge 30 1 100
  adapter 0 4000.cccc.cccc      (bound for SCA in VTAM)
  adapter 1 4000.bbbb.bbbb     (bound for TN3270 on CIP)
 tn3270-server
 dlur NETA.DLUR3270 NETA.CISCOBXL
 lsap token-adapter 1 C0
  vrn NETA.DLSW
  link CISCOBXL rmac 40000.CCCC.CCCC rsap 04
 pu MVSPU 05D01001 10.32.70.1
 pu VMPU 05D01000 10.32.70.2
!
logging buffered 50000
!
end
```

## 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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## Related Information

- [Technical Support – Cisco Systems](#)

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