

Configuring TN3270 Session Switching Via DLUR/DLUS

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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).

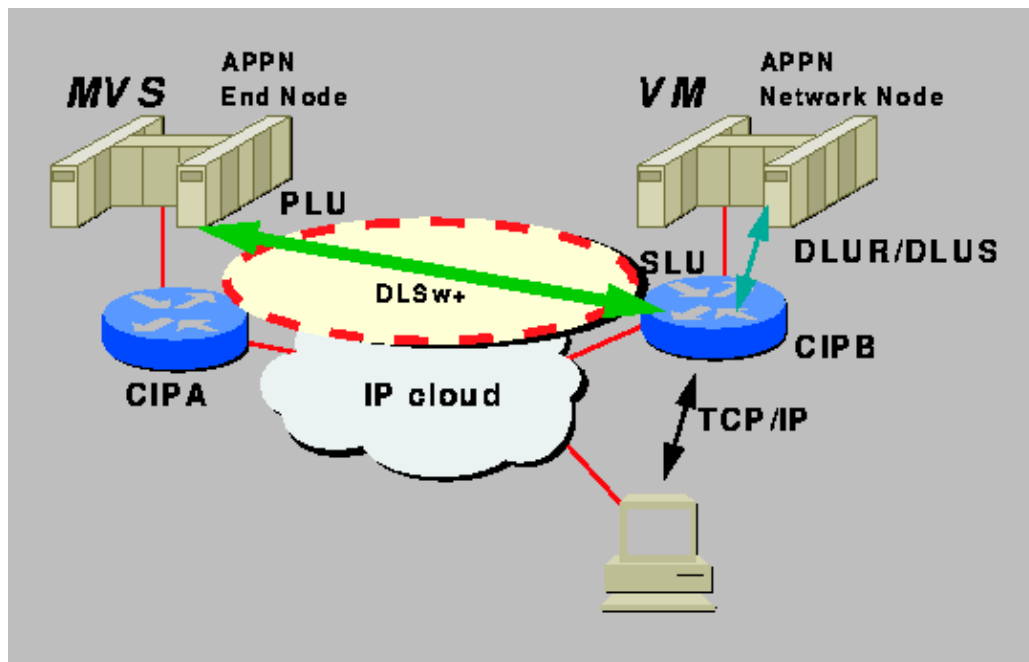
Configure

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	
		VNNAME=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	
		VNNAME=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
		IDBLK=05D,		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 Channell1/0
no ip address
csna 0100 F0
!
interface Channell1/2
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 Channell1/0

```

```
no ip address
csna 0100 00
!
interface Channell1/2
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.

Related Information

- [Technical Support – Cisco Systems](#)

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