

Configuring a Single Host for 1000 LUs in an EMIF Mainframe

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Introduction

This document provides information on running TCP/IP datagram, TCP/IP offload, Cisco Systems Network Architecture (SNA), and Cisco TN3270 Server concurrently on the same Channel Interface Processor (CIP).

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 Cisco Technical Tips Conventions.

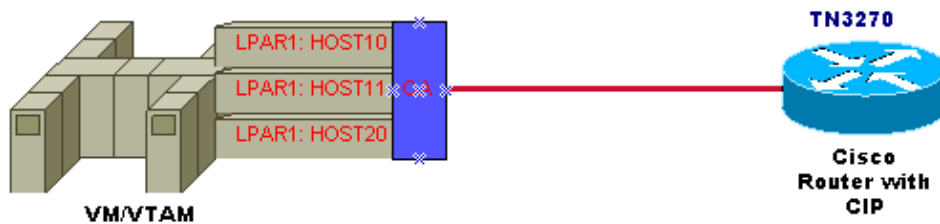
Configure

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.

- Input/Output Configuration Program (IOCP)
- Multiple Virtual Storage (MVS) and Virtual Telecommunications Access Method (VTAM) External Communication Adapter (XCA) Major Node
- MVS and VTAM LUGROUP Major Node
- MVS and VTAM Switched Major Node
- Router Configuration for MVS and VTAM

IOCP
<pre>RESOURCE PARTITION=((HOST10,1),(HOST11,2),(HOST20,3)) CHPID PATH=((0A)),TYPE=CNC,SHARED,PARTITION=((HOST10,HOST11,HOST20)) CNTLUNIT CUNUMBR=0581,PATH=(0A),UNITADD=((10,32)),UNIT=SCTC,CUADD=1 CNTLUNIT CUNUMBR=0582,PATH=(0A),UNITADD=((10,32)),UNIT=SCTC,CUADD=2 CNTLUNIT CUNUMBR=0583,PATH=(0A),UNITADD=((10,32)),UNIT=SCTC,CUADD=3 IODEVICE ADDRESS=(100,32),CUNUMBR=(0581),UNIT=SCTC,PARTITION=HOST10 IODEVICE ADDRESS=(200,32),CUNUMBR=(0582),UNIT=SCTC,PARTITION=HOST11 IODEVICE ADDRESS=(300,32),CUNUMBR=(0583),UNIT=SCTC,PARTITION=HOST20</pre>

MVS and VTAM XCA Major Node
<pre>TSTP5BE VBUILD TYPE=XCA PRTP5BE PORT ADAPNO=1,CUADDR=206,SAPADDR=04,MEDIUM=RING,TIMER=60 * * DIAL=YES on GROUP macro defines PU2.0/PU2.1 devices * GRPP5BE GROUP ANSWER=ON, AUTOGEN=(100,L,P), CALL=INOUT, DIAL=YES, ISTATUS=ACTIVE</pre>

MVS and VTAM LUGROUP Major Node
<pre>VBUILD TYPE=LUGROUP DDDLUGMP LUGROUP 327905E LU DLOGMOD=SNX32705,LOGAPPL=VTPPROD, MODETAB=ISTINCLM,USSTAB=ISTINCDT, SSCPFM=USS3270 327904E LU DLOGMOD=SNX32704,LOGAPPL=VTPPROD, MODETAB=ISTINCLM,USSTAB=ISTINCDT, SSCPFM=USS3270 327903E LU DLOGMOD=SNX32703,LOGAPPL=VTPPROD, MODETAB=ISTINCLM,USSTAB=ISTINCDT, SSCPFM=USS3270 327902E LU DLOGMOD=SNX32702,LOGAPPL=VTPPROD,</pre>

		MODETAB=ISTINCLM,USSTAB=ISTINCDT, SSCPFM=USS3270	X	
327805E	LU	DLOGMOD=SNX32705,LOGAPPL=VTPPROD, MODETAB=ISTINCLM,USSTAB=ISTINCDT, SSCPFM=USS3270	X	
327804E	LU	DLOGMOD=SNX32704,LOGAPPL=VTPPROD, MODETAB=ISTINCLM,USSTAB=ISTINCDT, SSCPFM=USS3270	X	
327803E	LU	DLOGMOD=SNX32703,LOGAPPL=VTPPROD, MODETAB=ISTINCLM,USSTAB=ISTINCDT, SSCPFM=USS3270	X	
327802E	LU	DLOGMOD=SNX32702,LOGAPPL=VTPPROD, MODETAB=ISTINCLM,USSTAB=ISTINCDT, SSCPFM=USS3270	X	
327802	LU	DLOGMOD=D4C32782,LOGAPPL=VTPPROD, MODETAB=ISTINCLM,USSTAB=ISTINCDT, SSCPFM=USS3270	X	
327803	LU	DLOGMOD=D4C32783,LOGAPPL=VTPPROD, MODETAB=ISTINCLM,USSTAB=ISTINCDT, SSCPFM=USS3270	X	
327804	LU	DLOGMOD=D4C32784,LOGAPPL=VTPPROD, MODETAB=ISTINCLM,USSTAB=ISTINCDT, SSCPFM=USS3270	X	
327805	LU	DLOGMOD=D4C32785,LOGAPPL=VTPPROD, MODETAB=ISTINCLM,USSTAB=ISTINCDT, SSCPFM=USS3270	X	
327806	LU	DLOGMOD=D4C32782,LOGAPPL=VTPPROD, MODETAB=ISTINCLM,USSTAB=ISTINCDT, SSCPFM=USS3270	X	X

MVS and VTAM Switched Major Node

VBUILD TYPE=SWNET,MAXNO=15,MAXGRP=5				
* STATOPT='TOKEN RING PUS'				
E194TRV0	PU	IDBLK=05D,	X	
		IDNUM=49974,	X	
		DISCNT=NO,	X	
		DLOGMOD=A3278M2,	X	
		MAXOUT=7,	X	
		ADDR=01,	X	
		MAXPATH=2,	X	
		MAXDATA=521,	X	
		LUGROUP=DDDLUGMP,	X	
		LUSEED=T10V0###,	X	
		PACING=2,	X	
		PUTYPE=2,	X	
		VPACING=0,	X	
		SSCPFM=USS3270,	X	
		ISTATUS=ACTIVE,	X	
		MODETAB=ISTINCLM,	X	
		LOGAPPL=VTPPROD,	X	
		USSTAB=ISTINCDT		
* STATOPT='CISCO CIP 194'				
*				
E194TRV1	PU	IDBLK=05D,	X	
		IDNUM=49975,	X	
		DISCNT=NO,	X	
		DLOGMOD=A3278M2,	X	
		MAXOUT=7,	X	
		ADDR=01,	X	
		MAXPATH=2,	X	
		MAXDATA=521,	X	
		LUGROUP=DDDLUGMP,	X	
		LUSEED=T10V1###,	X	
		PACING=2,	X	

	PUTYPE=2,	X
	VPACING=0,	X
	SSCPFM=USS3270,	X
	ISTATUS=ACTIVE,	X
	MODETAB=ISTINCLM,	X
	LOGAPPL=VTPPROD,	X
	USSTAB=ISTINCDT	
*	STATOPT=' CISCO CIP 194'	
*		
*		
E194TRV2 PU	IDBLK=05D,	X
	IDNUM=49976,	X
	DISCNT=NO,	X
	DLOGMOD=A3278M2,	X
	MAXOUT=7,	X
	ADDR=01,	X
	MAXPATH=2,	X
	MAXDATA=521,	X
	LUGROUP=DDDLUGMP,	X
	LUSEED=T10V2###,	X
	PACING=2,	X
	PUTYPE=2,	X
	VPACING=0,	X
	SSCPFM=USS3270,	X
	ISTATUS=ACTIVE,	X
	MODETAB=ISTINCLM,	X
	LOGAPPL=VTPPROD,	X
	USSTAB=ISTINCDT	
*	STATOPT=' CISCO CIP 194'	
*		
E194TRV3 PU	IDBLK=05D,	X
	IDNUM=49977,	X
	DISCNT=NO,	X
	DLOGMOD=A3278M2,	X
	MAXOUT=7,	X
	ADDR=01,	X
	MAXPATH=2,	X
	MAXDATA=521,	X
	LUGROUP=DDDLUGMP,	X
	LUSEED=T10V3###,	X
	PACING=2,	X
	PUTYPE=2,	X
	VPACING=0,	X
	SSCPFM=USS3270,	X
	ISTATUS=ACTIVE,	X
	MODETAB=ISTINCLM,	X
	LOGAPPL=VTPPROD,	X
	USSTAB=ISTINCDT	
*	STATOPT=' CISCO CIP 194'	
*		
E194TRV4 PU	IDBLK=05D,	X
	IDNUM=49978,	X
	DISCNT=NO,	X
	DLOGMOD=A3278M2,	X
	MAXOUT=7,	X
	ADDR=01,	X
	MAXPATH=2,	X
	MAXDATA=521,	X
	LUGROUP=DDDLUGMP,	X
	LUSEED=T10V4###,	X
	PACING=2,	X
	PUTYPE=2,	X
	VPACING=0,	X
	SSCPFM=USS3270,	X

ISTATUS=ACTIVE,	X
MODETAB=ISTINCLM,	X
LOGAPPL=VTPPROD,	X
USSTAB=ISTINCDT	
* STATOPT=' CISCO CIP 194'	

Router Configuration for MVS and VTAM

```

Router#wr t
Building configuration...
..
..
interface Channel3/0
description CISCO Channel Interface Processor
ip address 163.241.167.6 255.255.255.248
no ip redirects
ip route-cache same-interface
ip route-cache cbus
no keepalive
offload 0133 10 163.241.167.3 Host20 C7000 TCPIP TCPIP TCPIP API broadcast
claw 0111 10 163.241.167.1 Host10 C7000 TCPIP TCPIP broadcast
claw 0122 10 163.241.167.2 Host11 C7000 TCPIP TCPIP broadcast
csna 0133 16 maxpiu 8192

!--- The above is used for a regular Cisco SNA session.

csna 0122 16 maxpiu 8192

!--- The above is used for a TN3270 session in this example.

!
interface Channel3/2
description TN3270 Server
ip address 163.241.167.17 255.255.255.248
no keepalive
max-llc2-sessions 4000
lan TokenRing 1
  adapter 0 4000.6195.9980
  adapter 1 4000.6194.9981
tn3270-server
maximum-lus 1000
pu E194TRV0 05D49974 163.241.167.18 token-adap 1
 70 rmac 4000.6195.9981 rsap 04 lu-seed T10V0###
pu E194TRV1 05D49975 163.241.167.18 token-adap 1
 74 rmac 4000.6195.9981 rsap 04 lu-seed T10V1###
pu E194TRV2 05D49976 163.241.167.18 token-adap 1
 78 rmac 4000.6195.9981 rsap 04 lu-seed T10V2###
pu E194TRV3 05D49977 163.241.167.18 token-adap 1
 82 rmac 4000.6195.9981 rsap 04 lu-seed T10V3###
pu E194TRV4 05D49978 163.241.167.18 token-adap 1
 86 rmac 4000.6195.9981 rsap 04 lu-seed T10V4###
logging buffered 50000

```

In issuing the **maximum-lus 1000** command in the Router Configuration for MVS and VTAM above, the maximum number of TN3270 sessions that are supported on this adapter is limited. Each Physical Unit (PU) supports 255 Logical Units (LUs). In defining 5 PUs, 1275 LUs remain available. However, because of the **maximum-lus 1000** command, no more than 1000 LUs may be used.

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

- **Tools and Utilities**
 - **Technical Support – Cisco Systems**
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