

Configuring Complex Router CIP with Example HCD Screens

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Introduction

This document provides an example of a complex Channel Interface Processor (CIP) configuration using an Enterprise System Connection (ESCON) director, ESCON Multiple Image Facility (EMIF), and Hardware Configuration Definition (HCD). Not all the HCD screens are included for every CLAW (Common Link Access to Workstation) connection, however, all the screens for one of the connections have been included.

Before You Begin

Conventions

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

Prerequisites

No specific prerequisites exist 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 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.

Configure

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

Note: In order to find more information on the commands used in this document, use the Command Lookup

HCD Panels

The HCD information for Configuration 1 is provided below.

The first part shows all the panels used in viewing the HCD definition for the CIP card. The second part shows the panels used for changing a CIP control unit as it shows more information.

The lines beginning with ===== indicate a change in panels.

```
=====
                                CHANNEL PATH LIST                                ROW 1

SELECT ONE OR MORE CHANNEL PATHS, THEN SELECT AN ACTION.

PROCESSOR ID . . . : S962#1          A1AA D1DD E1EE F1FF
CONFIGURATION MODE : LPAR

                                DYN +  --ENTRY +--
/ CHPID TYPE + MODE + SWITCH SWITCH PORT CON. DESCRIPTION
_ 34   CNC   SHR   01   ___   ___   CISCO

=====
```

```
----- VIEW CHANNEL PATH DEFINITION -----
|
| PROCESSOR ID . . . : S962#1          A1AA D1DD E1EE F1FF
| CONFIGURATION MODE : LPAR
|
| CHANNEL PATH ID . . . . . : 34
| CHANNEL PATH TYPE . . . . . : CNC
| OPERATION MODE . . . . . : SHR
|
| DESCRIPTION . . . . . : ESCON 3172/CISCO
|
| DYNAMIC SWITCH ID . . . . . : 01
| ENTRY SWITCH ID . . . . . :
| ENTRY PORT . . . . . :
|
| ENTER TO CONTINUE.
|
| F1=HELP   F2=SPLIT   F9=SWAP   F12=CANCEL
|
-----
```

```
----- VIEW ACCESS LIST -----
|
| THE FOLLOWING PARTITIONS ARE IN THE ACCESS LIST.
|
| CHANNEL PATH ID . . : 34          CHANNEL PATH TYPE . . : CNC
| OPERATION MODE . . . : SHR
|
| ENTER TO CONTINUE.
|
| PARTITION NAME   NUMBER USAGE DESCRIPTION
| A1AA             1      OS
| E1EE             3      OS
| F1FF             5      OS
| ***** BOTTOM OF DATA *****
|
```

COMMAND ==> _____ SCROLL ==> PAGE
F1=HELP F2=SPLIT F6=PREVIOUS F7=BACKWARD F8=FORWARD
F9=SWAP F12=CANCEL F22=COMMAND

CONTROL UNIT LIST

SELECT ONE OR MORE CONTROL UNITS, THEN SELECT AN ACTION.

PROCESSOR ID . . . : S962#1 CHANNEL PATH ID . : 34

/ CU	TYPE +	SERIAL NO.	DESCRIPTION
_ 13C0	3172	_____	ESCON 3172
_ 33C0	3172	_____	ESCON 3172
_ 3450	3172	_____	CISCO
_ 3451	3172	_____	CISCO
_ 3452	3172	_____	CISCO

I/O DEVICE LIST ROW 1 OF 2 MOR

SELECT ONE OR MORE DEVICES, THEN SELECT AN ACTION.

CONTROL UNIT NUMBER : 3450 CONTROL UNIT TYPE . : 3172

-----DEVICE-----	-----CONTROL UNIT NUMBERS +-----
/ NUMBER TYPE +	OS 1--- 2--- 3--- 4--- 5--- 6--- 7--- 8---
_ 0052 3172	Y 3450 _____
_ 0053 3172	Y 3450 _____

VIEW DEVICE DEFINITION

DEVICE NUMBER : 0052
DEVICE TYPE : 3172
SERIAL NUMBER :
DESCRIPTION : CISCO
CONNECTED TO CUS : 3450
ENTER TO CONTINUE.

F1=HELP F2=SPLIT F9=SWAP F12=CANCEL

VIEW DEVICE / PROCESSOR DEFINITION

ROW 1 OF 1

SELECT ONE OR MORE PROCESSORS TO VIEW THE DEVICE CANDIDATE LIST, OR
ENTER TO CONTINUE WITHOUT SELECTION.

```

DEVICE NUMBER . : 0052      DEVICE TYPE . : 3172

/ PROCESSOR ID  UA   TIME-OUT  STADET  PREFERRED  EXPLICIT DEVICE
  _ S962#1      50   NO         YES     CHPID      CANDIDATE LIST
*****
***** BOTTOM OF DATA *****

```

```

COMMAND ==> _____ SCROLL ==> PAGE
F1=HELP      F2=SPLIT      F6=PREVIOUS  F7=BACKWARD  F8=FORWARD
F9=SWAP      F12=CANCEL     F22=COMMAND

```

=====

```

----- VIEW DEVICE / OS CONFIGURATION DEFINITIONS -----
VIEW  QUERY  HELP
-----

```

ROW 1 OF 1

SELECT ONE OR MORE OPERATING SYSTEM CONFIGURATIONS, THEN SELECT AN ACTION.

```

DEVICE NUMBER . : 0052      DEVICE TYPE . . : 3172

/ CONFIG. ID  TYPE      DESCRIPTION
_ MVS        MVS      SHARED MVS - 24 JAN 93
*****
***** BOTTOM OF DATA *****

```

```

COMMAND ==> _____ SCROLL ==> PAGE
F1=HELP      F2=SPLIT      F4=PROMPT    F5=RESET     F6=PREVIOUS
F7=BACKWARD  F8=FORWARD    F9=SWAP      F10=ACTIONS  F12=CANCEL
F13=INSTRUCT F22=COMMAND

```

=====

```

----- VIEW DEVICE PARAMETER / FEATURE DEFINITION -----

```

ROW 1

```

CONFIGURATION ID . : MVS          SHARED MVS - 24 JAN 93
DEVICE NUMBER . . : 0052          DEVICE TYPE . . . : 3172
GENERIC / VM DEVICE TYPE . . . . : 3172

```

ENTER TO CONTINUE.

```

PARAMETER/ VALUE  REQ.  DESCRIPTION
FEATURE
OFFLINE          NO      DEVICE CONSIDERED ONLINE OR OFFLINE AT IPL
DYNAMIC          NO      DEVICE HAS BEEN DEFINED TO BE DYNAMIC

```

```

***** BOTTOM OF DATA *****

COMMAND ==> _____ SCROLL ==> PA
F1=HELP      F2=SPLIT      F7=BACKWARD  F8=FORWARD  F9=SWAP
F12=CANCEL   F22=COMMAND

```

These panels go through the sequence of changing a control unit definition. This panel provides more information than just viewing the definition.

```

----- CHANGE CONTROL UNIT DEFINITION -----

SPECIFY OR REVISE THE FOLLOWING VALUES.

CONTROL UNIT NUMBER . . . : 3450
CONTROL UNIT TYPE . . . . . 3172      +
SERIAL NUMBER . . . . . _____
DESCRIPTION . . . . . CISCO

CONNECTED TO SWITCHES . . . _ _ _ _ _ +
PORTS . . . . . _ _ _ _ _ +

F1=HELP      F2=SPLIT      F3=EXIT      F4=PROMPT  F5=RESET  F9=SWAP
F12=CANCEL

```

```

=====

----- SELECT PROCESSOR / CONTROL UNIT -----
MODIFY VIEW QUERY HELP
-----
ROW 1 OF 5 MORE:

SELECT ONE OR MORE PROCESSORS, THEN SELECT AN ACTION.

CONTROL UNIT NUMBER . . : 3450      CONTROL UNIT TYPE . . . : 3172

/ PROC. ID ATT. LOG. ADDR. -----CHANNEL PATH ID . LINK ADDRESS + ----
(CUADD) + 1---- 2---- 3---- 4---- 5---- 6---- 7---- 8
_ S962#1 YES 1 34.EF _____
_ S820#1 - _____
_ S9672#00 - _____
_ S9672#02 - _____
_ S9672#04 - _____
***** BOTTOM OF DATA *****

COMMAND ==> _____ SCROLL ==> PA
F1=HELP      F2=SPLIT      F3=EXIT      F4=PROMPT  F5=RESET
F6=PREVIOUS  F7=BACKWARD  F8=FORWARD  F9=SWAP    F10=ACTION
F12=CANCEL   F13=INSTRUCT F20=RIGHT   F22=COMMAND

```

!--- Previous panel. Scroll right.

```

----- SELECT PROCESSOR / CONTROL UNIT -----

```

```

MODIFY VIEW QUERY HELP
-----
ROW 1 OF 5 MORE: <

SELECT ONE OR MORE PROCESSORS, THEN SELECT AN ACTION.

CONTROL UNIT NUMBER . . : 3450      CONTROL UNIT TYPE . . . : 3172

/ PROC. ID ATT. -----UNIT ADDRESS . UNIT RANGE + -----
  1----- 2----- 3----- 4----- 5----- 6----- 7----- 8-----
_ S962#1   YES  50.002  _____ _____ _____ _____ _____ _____ _____
_ S820#1     _____ _____ _____ _____ _____ _____ _____
_ S9672#00  _____ _____ _____ _____ _____ _____ _____
_ S9672#02  _____ _____ _____ _____ _____ _____ _____
_ S9672#04  _____ _____ _____ _____ _____ _____ _____
***** BOTTOM OF DATA *****

COMMAND ==> _____ SCROLL ==> PA
F1=HELP      F2=SPLIT      F3=EXIT      F4=PROMPT    F5=RESET
F6=PREVIOUS  F7=BACKWARD   F8=FORWARD   F9=SWAP      F10=ACTION
F12=CANCEL   F13=INSTRUCT  F19=LEFT     F20=RIGHT    F22=COMMAN
-----

```

!--- Previous panel. Scroll right.

```

----- SELECT PROCESSOR / CONTROL UNIT -----
MODIFY VIEW QUERY HELP
-----
ROW 1 OF 5 MORE: <

SELECT ONE OR MORE PROCESSORS, THEN SELECT AN ACTION.

CONTROL UNIT NUMBER . . : 3450      CONTROL UNIT TYPE . . . : 3172

/ PROC. ID ATT. PROTOCOL + I/O CONCURRENCY
                        LEVEL +
_ S962#1   YES  S4      2
_ S820#1     _____ _____
_ S9672#00  _____ _____
_ S9672#02  _____ _____
_ S9672#04  _____ _____
***** BOTTOM OF DATA *****

COMMAND ==> _____ SCROLL ==> PA
F1=HELP      F2=SPLIT      F3=EXIT      F4=PROMPT    F5=RESET
F6=PREVIOUS  F7=BACKWARD   F8=FORWARD   F9=SWAP      F10=ACTION
F12=CANCEL   F13=INSTRUCT  F19=LEFT     F22=COMMAND
-----

```

!--- C entered in S962#1 field on panel above.

```

----- CHANGE CONTROL UNIT DEFINITION -----
SPECIFY OR REVISE THE FOLLOWING VALUES.

CONTROL UNIT NUMBER . . : 3450      TYPE . . . . . : 3172
PROCESSOR ID . . . . . : S962#1    A1AA D1DD E1EE F1FF

CHANNEL PATH IDS . . . . 34  _____ _____ _____ _____ _____ _____ +
LINK ADDRESS . . . . . EF  _____ _____ _____ _____ _____ _____ +

UNIT ADDRESS . . . . . 50  _____ _____ _____ _____ _____ _____ +

```

```

NUMBER OF UNITS . . . . 002  _ _ _ _ _
LOGICAL ADDRESS . . . . 1  + (SAME AS CUADD)
PROTOCOL . . . . . S4  + (D, S OR S4)
I/O CONCURRENCY LEVEL . 2  + (1, 2 OR 3)

F1=HELP      F2=SPLIT    F4=PROMPT    F5=RESET    F9=SWAP    F12=CANCEL
-----

```

TCP/IP Profile

These configurations provide the relevant sections of the TCPIP host PROFILE dataset. Two hosts are included in the TCP/IP profiles.

S1SS LPAR						
DEVICE	VICRC007DV	CLAW	05C	BCSCSSG	VICRC007	NONE 20 20 4096 4096
LINK	VICRC007LK	IP	0	VICRC007DV		
HOME						
	131.108.160.47			VICRC007LK		
PRIMARYINTERFACE VICRC007LK						
GATEWAY						
;	Network	First hop	Driver	Packet Size	Subnet Mask	Subnet
	131.108	=	VICRC007LK	4096	0.0.255.0	0.0.160.0
	DEFAULTNET	=	VICRC007LK	4096	0	
START VICRC007DV						

E1EE LPAR						
DEVICE	VICRC007DV	CLAW	05A	BCSC05	VICRC007	NONE 20 20 4096 4096
LINK	VICRC007LK	IP	0	VICRC007DV		
HOME						
	131.108.160.46			VICRC007LK		
PRIMARYINTERFACE VICRC007LK						
GATEWAY						
;	Network	First hop	Driver	Packet Size	Subnet Mask	Subnet
	131.108	=	VICRC007LK	4096	0.0.255.0	0.0.160.0
	DEFAULTNET	=	VICRC007LK	4096	0	
START VICRC007DV						

Router Configuration

CIP definition:

```

interface Channel4/0
ip address 131.108.160.1 255.255.255.0
no ip redirects
ip route-cache same-interface

```

```
no keepalive
claw E920 50 131.108.160.42 BCSC01D VICRC007 TCPIP TCPIP
claw D830 50 131.108.160.46 BCSC05 VICRC007 TCPIP TCPIP
claw D810 50 131.108.160.41 BCSC01A VICRC007 TCPIP TCPIP
claw D850 50 131.108.160.43 BCSC01F VICRC007 TCPIP TCPIP
claw DA10 50 131.108.160.45 BCSC01B VICRC007 TCPIP TCPIP
claw DA20 50 131.108.160.47 BCSCSSG VICRC007 TCPIP TCPIP
claw DE20 50 131.108.160.44 BCSC01G VICRC007 TCPIP TCPIP
```

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

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