IBM

IBM 3746 Nways Multiprotocol Controllers Models 900 and 950

February 12, 1998
**(Revision 5)**
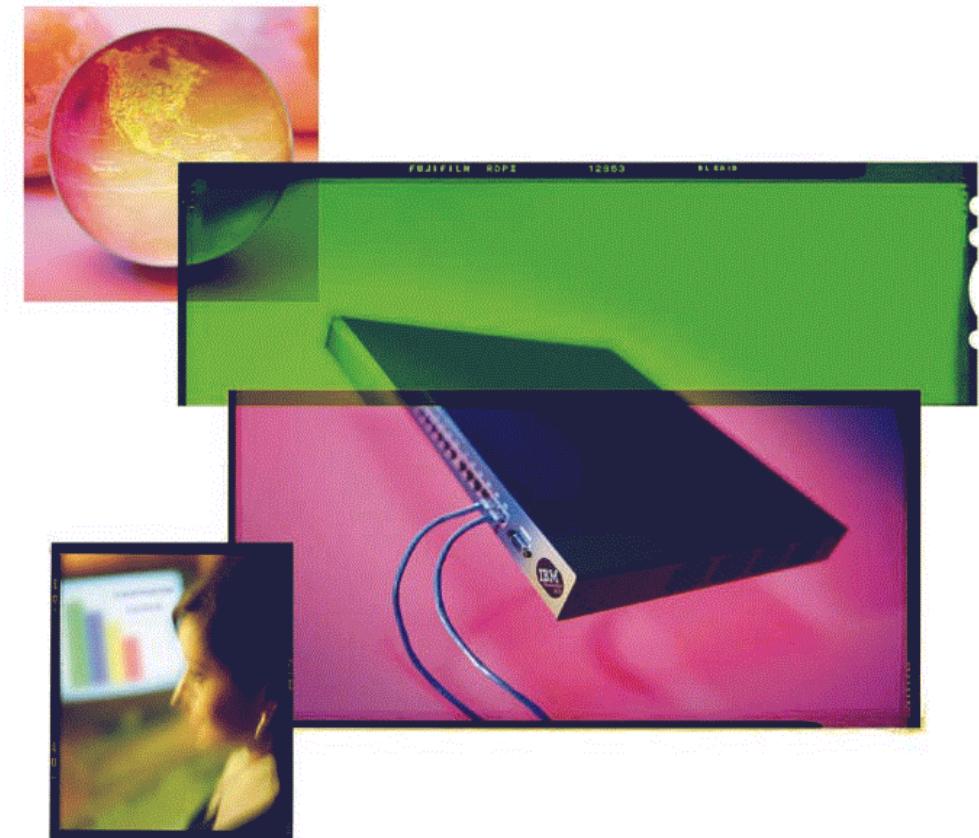
Controller Configuration and Management

# Controller Configuration and Management

IBM
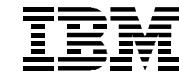
- **Single 3746 management tool**
  - **APPN / HPR / IP**
  - **Display, line/station/session operations**

- **Single configurator tool**
  - **Support of APPN/HPR**
  - **Support of Native IP (RIP, OSPF, ARP, ... DLCs)**
  - **Support of Frame Relay (FRTE, FRSE, BAN, BNN)**
  - **Support of SNMP, NPM**
  - **ESCON (SNA (NCP), APPN/HPR, IP)**
  - **Support of MAE**

- **On-line configuration changes**
  - **ESCON, LAN, WAN resources**
  - **Automatic deactivation/reactivation of impacted resources**

- **Miscellaneous**
  - **Copy function on configuration**
  - **SPAN of control of CCM operators**
  - **Search function enhanced**

Controller Configuration and Management

File Configuration Management Options Help

Opened APPN configuration is :   CUST3746
Active APPN configuration is :   CUST3746

| 2752 TIC3 | 2784 TIC3 | 2816 LIC11 | 2848 LIC11 | 2880 LIC16 | 2912 LIC16 | 2944 | 2976 | 3008 ESCC | 3040 | 3072 ESCC | 3104 |

| 2358 LIC12 | 2400 LIC12 | 2432 LIC11 | 2464 LIC11 | 2496 | 2528 | 2560 | 2592 | 2624 | 2656 | 2688 | 2720 |

| 2048 CBC | 2112 LIC11 | 2144 LIC12 | 2176 TIC3 | 2208 TIC3 | 2240 ESCC | 2272 | 2304 | 2336 ESCC |

Button 1: select - Button 2: display menu

IBM 3745/3746 - Service Processor Applications

IBM

3746-950
APPN/HPR
IP

3746-900
APPN/HPR
IP

3745-xxA

3745-xxA

APPN

IP

 # 6

APPN

IP

MOSS

 # 1

 # 3

MOSS

TIC3

 # 5

Service Ring

3745-xxA

3745-xxA

Services

MOSS

 # 2

 # 4

MOSS

MOSS	CCM APPN, IP
MOSS-E	
RSF	EGA
ALERT	DCAF

Service Processor
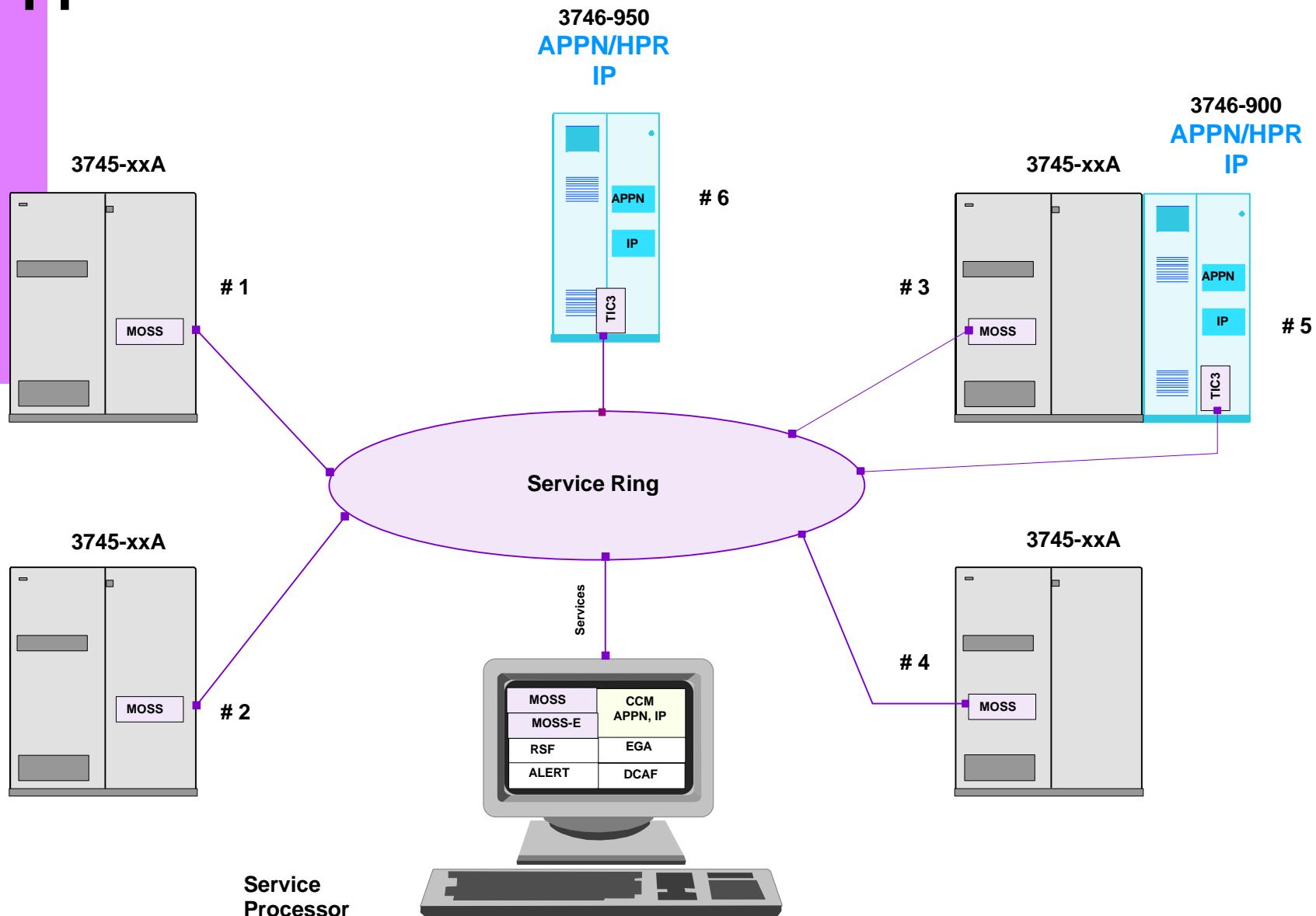
CCM - Functions

SNA

VTAM

NCP GEN

3745-xxA   **3746-9x0**

NCP

MAE

TRP
TIC

CLP
LIC/ARC

ESCP
ESCC

LSS

HSS
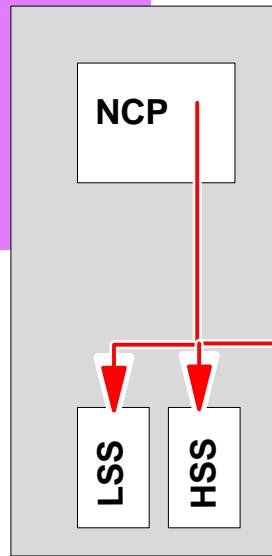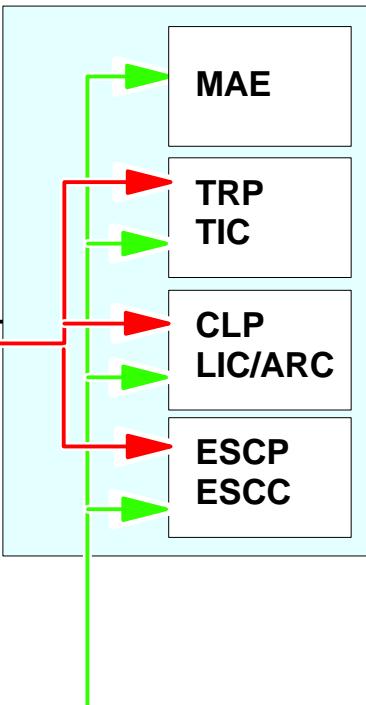
CCM

SNA/APPN/HPR

IP

For SNA/APPN/HPR, IP traffic, CCM allows :

- ▶ **Configuring Adapters (ESCP, TRP, CLP) on 3746-900 and 3746-950 for SNA/Sub-Area (ESCP), APPN/HPR, IP)**
  - ■ **Creation**
  - ■ **Modification (on line modification)**
  - ■ **Deletion**

- ▶ **Configuring MAE adapters (ATM, ESCON, ISDN ...)**

- ▶ **Managing APPN/HPR, IP box resources :**
  - ■ **Activation**
  - ■ **Deactivation**
  - ■ **Dynamic status, EN display**
  - ■ **Displays**

CCM - Configuration

IBM

3746-9x0

TRP
TIC

CLP
LIC/ARC

ESCP
ESCC

(Hardware configuration)

REFERENCE CDF-E

CCM

Configuration
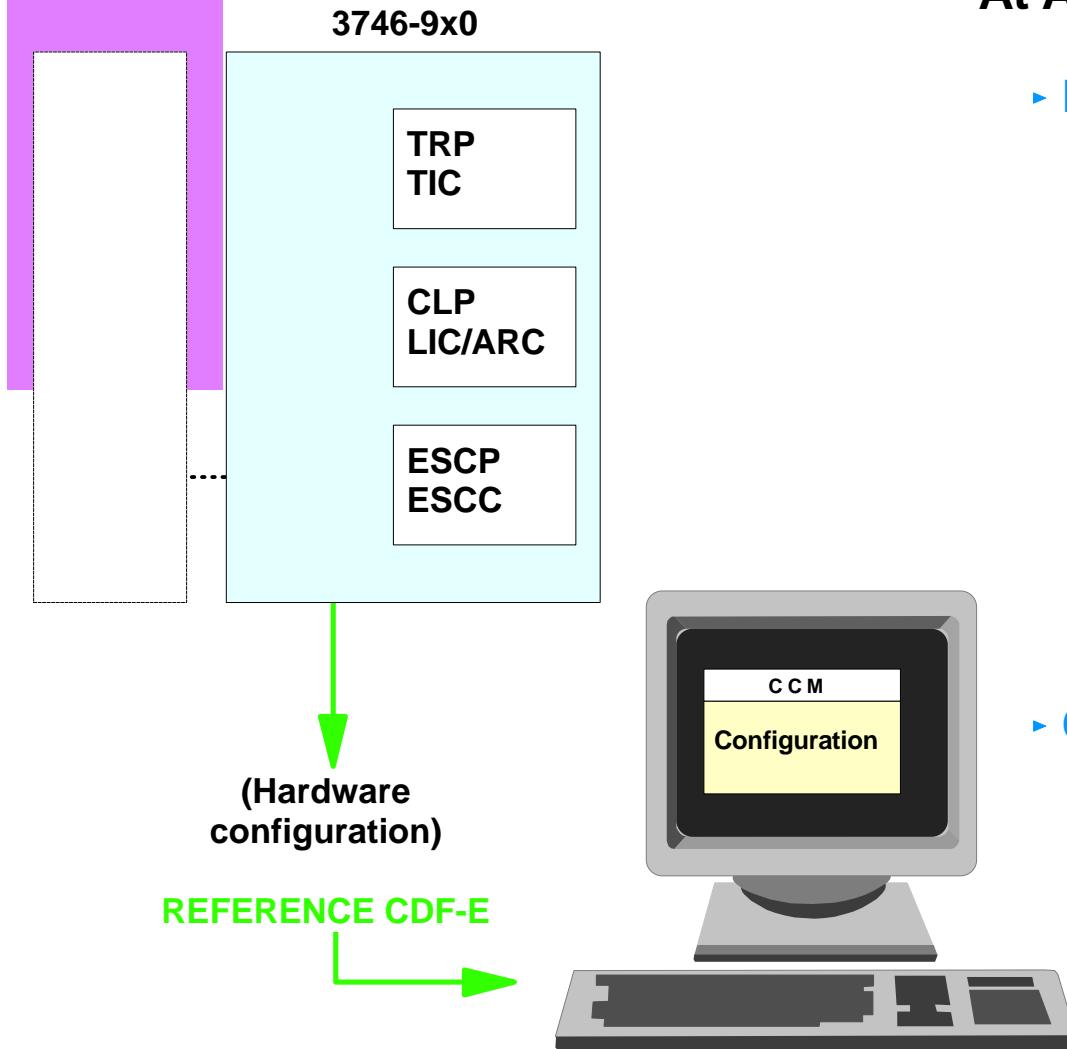
At Adapters level, CCM allows couplers :

▸ **Parameters setting (80 % default value)**
  - **General Network Node APPN**
  - **General IP**
  - **Common to all DLCs**
  - **Specific ESCON**
  - **Common FR/SDLC/X25**
  - **Specific FR**
  - **Specific SDLC**
  - **Specify X25**
  - **Specific TR**

▸ **Configurating from**
  - **Service Processor**
  - **Stand-Alone PS/2**

CCM - Management

IBM

3746-9x0

TRP TIC

CLP LIC/ARC

ESCP ESCC

C C M

Management
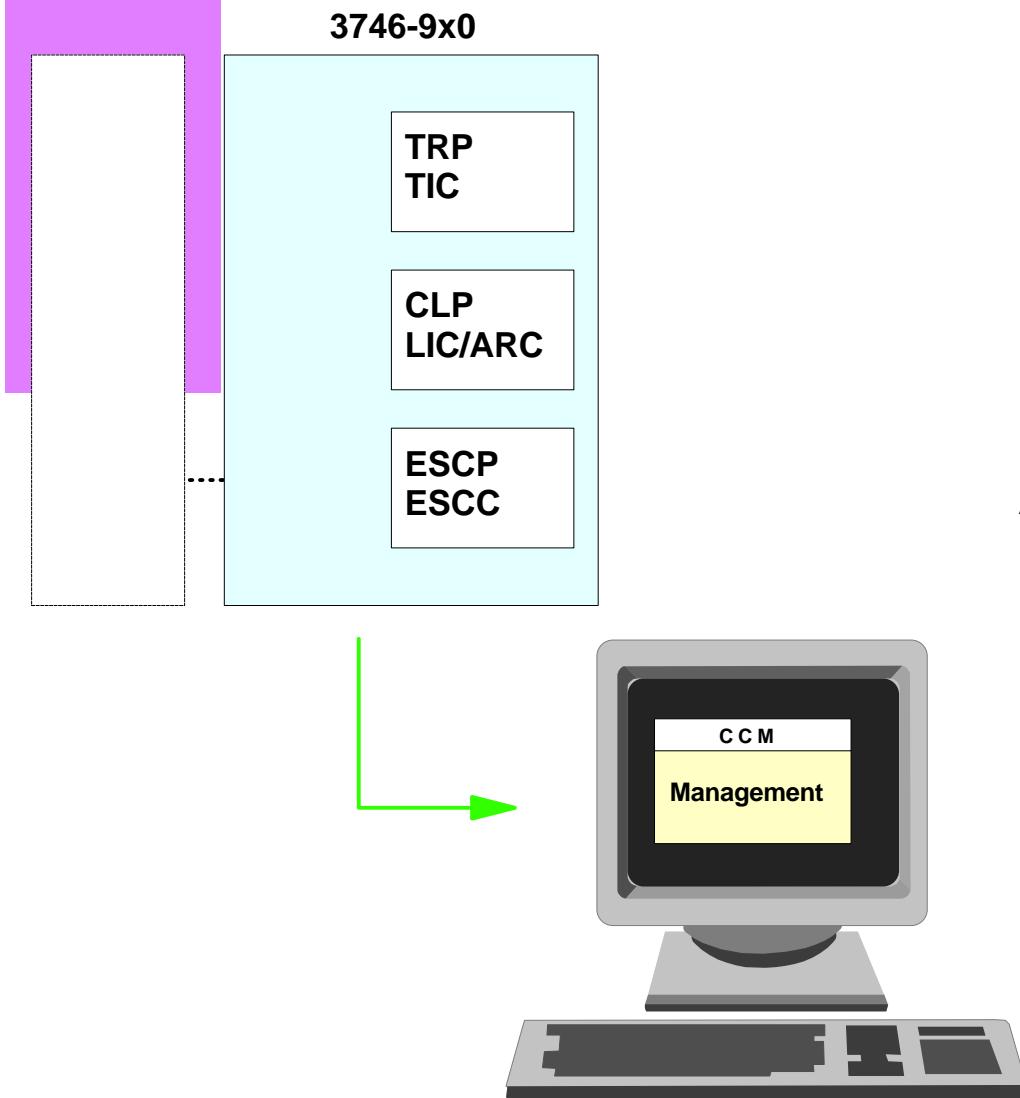
At Network Node level, it allows :

▸ **Activating / deactivating**
- **Network Node**
- **Port**
- **Station**

▸ **Displaying status resources on**
- **Port**
- **EN, LEN, DLU attached to NN**

At Adapter level, it allows :

▸ **Activating / deactivating**
- **Port**
- **Station**

▸ **Displaying status resources on**
- **Port**
- **Station**
- **Session**

CCM - Operations

IBM

Stand-alone PS/2 **(configuration)**

CCM

U O

Diskette

3745

Customer network

3746-9x0

CCM

DCAF Controlling

Remote PS/2

CCM

DCAF Target
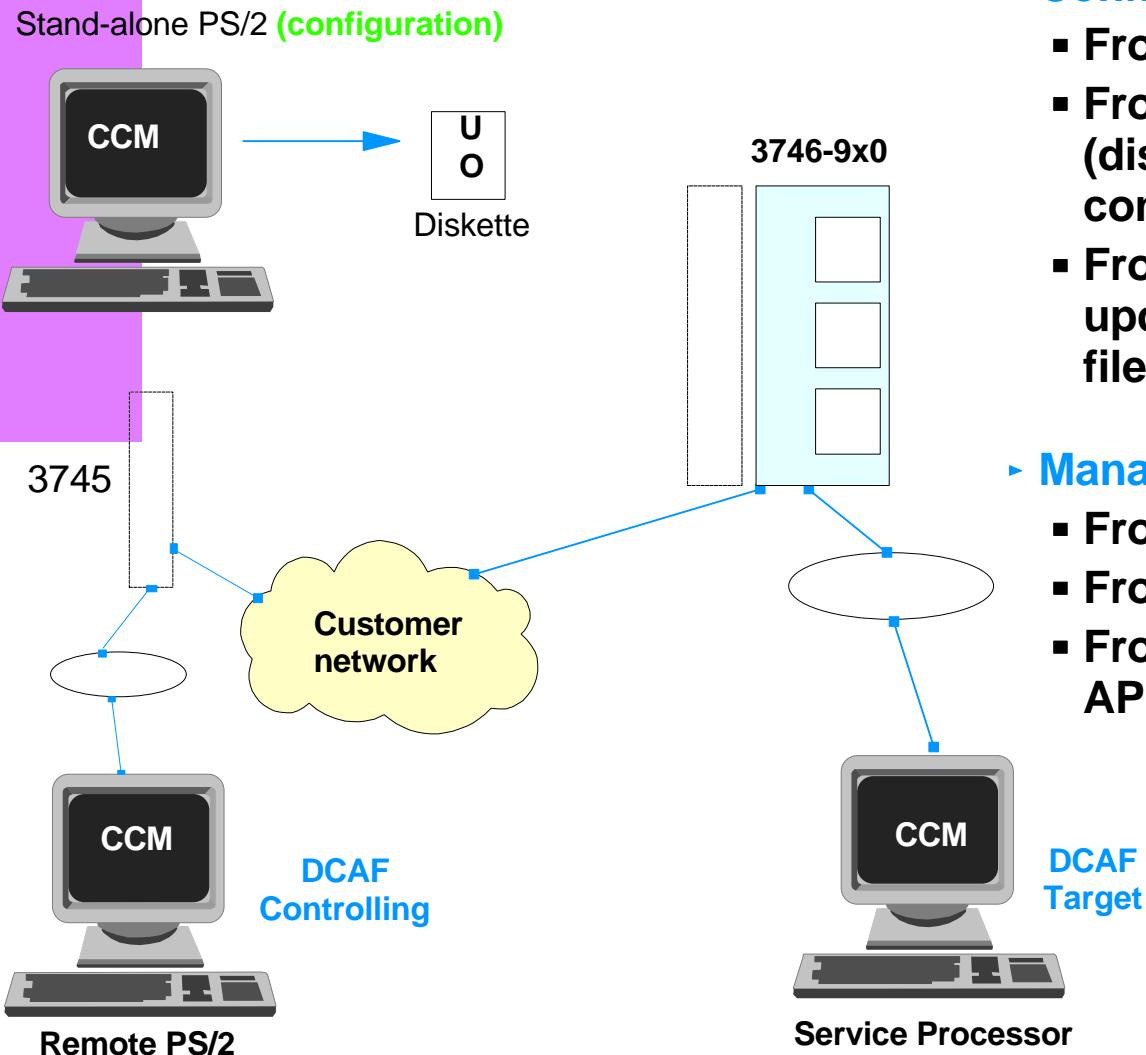
Service Processor

‣ **Configuration :**
- **From the** *Service Processor*
- **From a** *Stand-alone CCM PS/2* **(diskette for transfer of the configuration file)**
- **From a** *Remote PS/2* **with DCAF (for updates on the active configuration file)**

‣ **Management :**
- **From the** *Service Processor*
- **From a** *Remote PS/2* **with DCAF**
- **From** *NetView/MVS* **(Alert, NPM, APPNTAM)**

CCM - Main Menu

IBM

CCM

File   Configuration   Management   Options   Help

Opened configuration is: none

☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
2752	2784	2816	2848	2880	2912	2944	2976	3008	3040	3072	3104
☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
2368	2400	2432	2464	2496	2528	2560	2592	2624	2656	2688	2720
		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
		2048	2080	2112	2144	2176	2208	2240	2272	2304	2336

Product information choice

CCM - Import Configuration

IBM

Import a Configuration

	Date		CCM
Name	MM-DD-YYYY	Time	version
– Config_01	Oct-23-1995	19:24	V1
– Config_02	Oct-23-1995	19:52	V1
– ERS4ST	Dec-19-1995	16:05	V2

Import selected configuration   Cancel   Help

CCM - Open Configuration

CCM - FILE Functions

CCM - CONFIGURATION Functions

IBM

CCM

| File | Configuration | Management | Options | Help |

Coupler...

Open

NN/FP/DLUR...

(Dec-19-1995)

Low-entry networking (LEN)...

Mode/COS...

Stations on coupler/port 2080...

3745/3746...

2752

Frame-relay frame handler set...

IP →
OSPF →

2368

RIP →
BGP →
ARP...

SNMP...

V.25 bis directory...

WRS...

2944 2976 3008 3040 3072 3104

2560 2592 2624 2656 2688 2720

2176 2208 2240 2272 2304 2336
ESCC LIC12 LIC12 LIC12 LIC

Configure selected coupler choice

CCM - MANAGEMENT Functions (APPN)

IBM

CCM

| File | Configuration | Management | Options | Help |

Ports...
Stations...
Non intermediate sessions...

APPN specifics → | Topology...
IP specifics → | Network node...
                       Directory...
Activate all resources... | Connection network
Deactivate all resources (normal mode)... | HPR connections...
Deactivate all resources (forced mode)...

Opened configuration

2752   2784   2816

2368   2400   2432   2464   2496   2528   2560   2592   2624   2656   2688   2720

2048   2080   2112   2144   2176   2208   2240   2272   2304   2336
       TIC3   TIC3   TIC3   ESCC   LIC12 LIC12 LIC12 LIC

Display topology choice

CCM - MANAGEMENT Functions (IP)
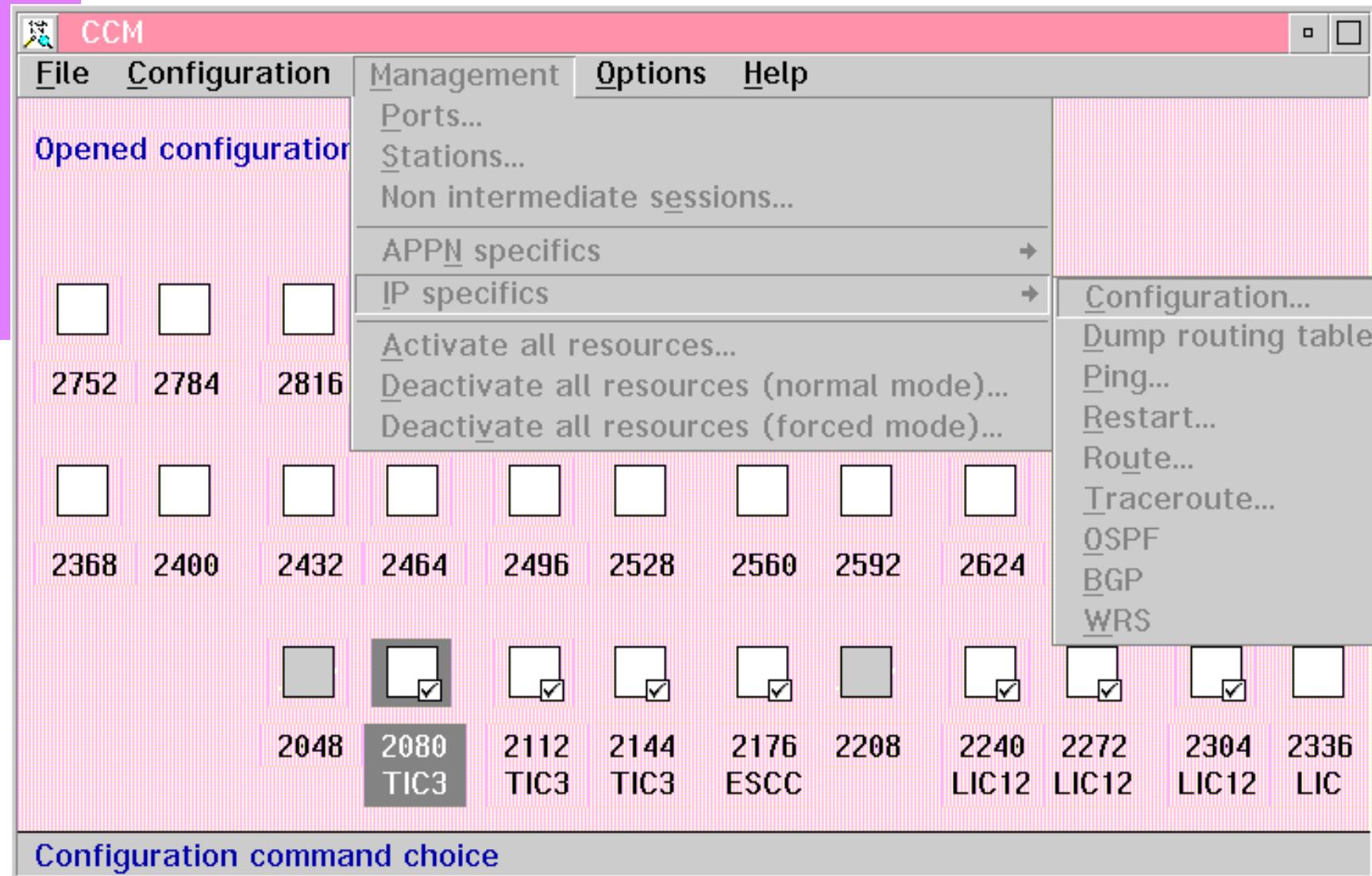
CCM - OPTIONS Functions (1/3)

CCM - OPTIONS Functions (2/3)

IBM Networking Hardware Division - 3746 PLM   © 1997 IBM Corporation   3746CCM - 16
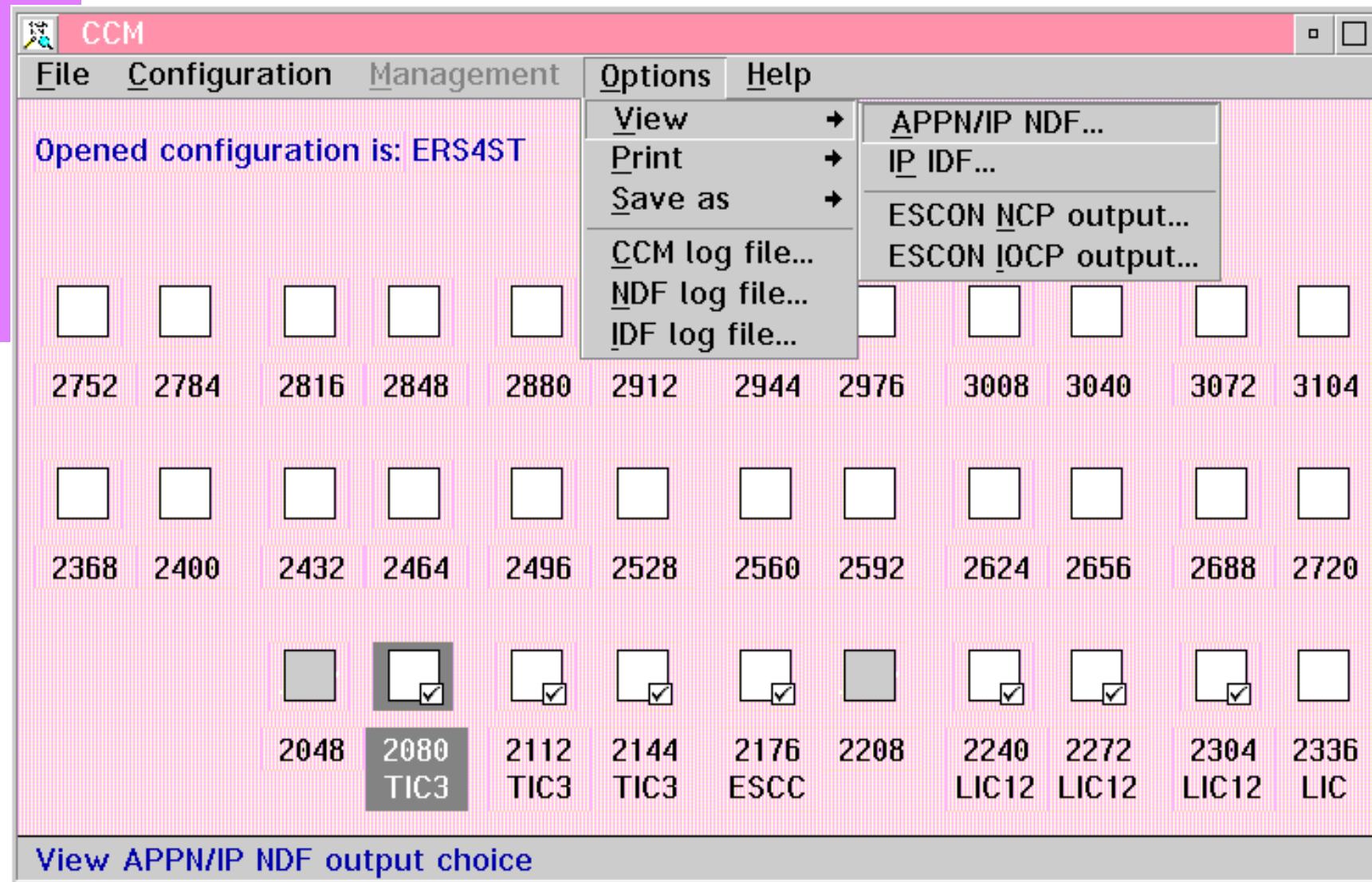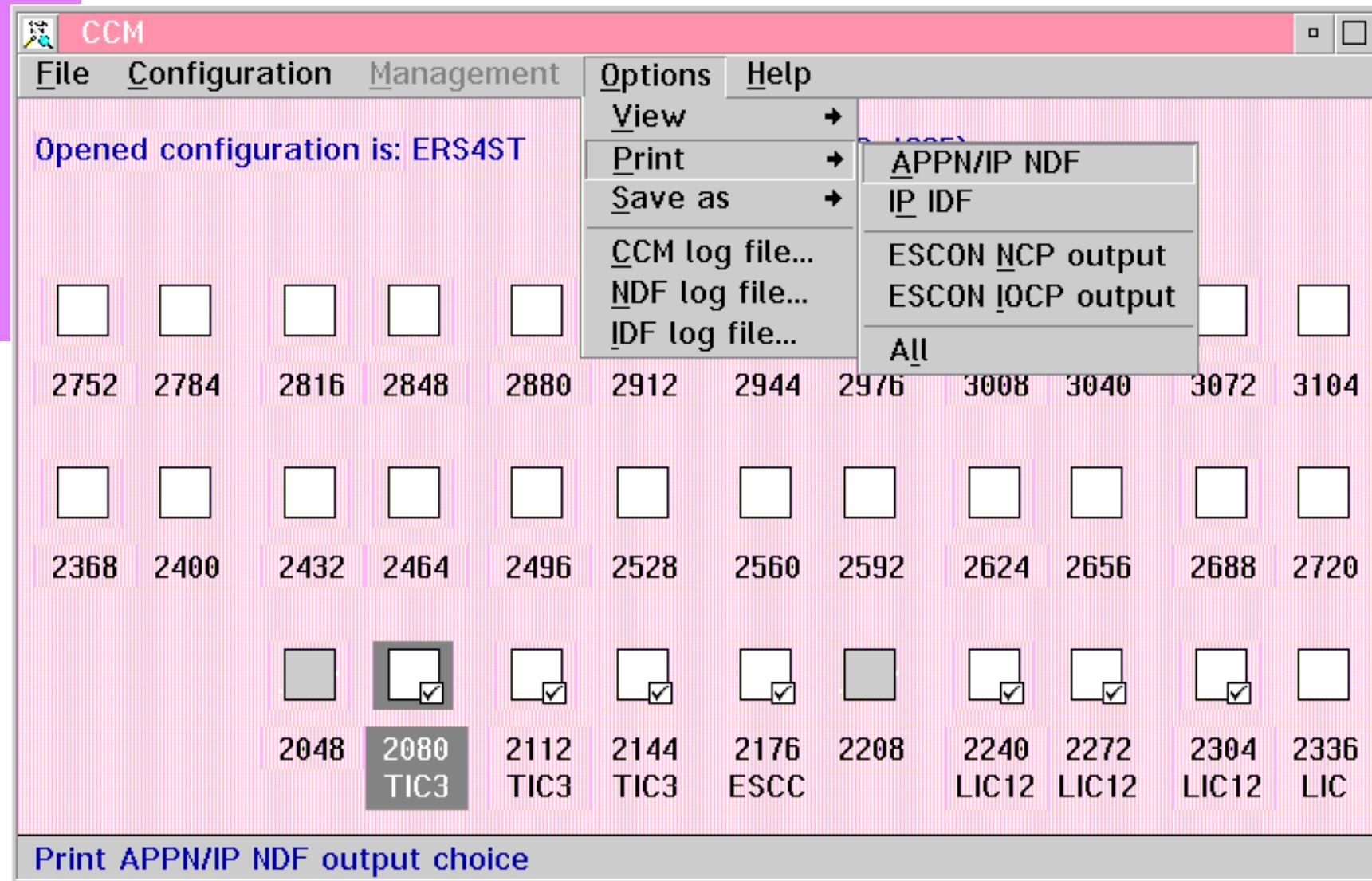
CCM - OPTIONS Functions (3/3)

CCM - HELP Functions

CCM - Network Management (APPN/HPR)

IBM
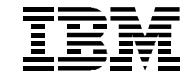
Network Node/Focal Point/Dependent LU Requester Parameters

Network Node and Focal Point Parameters

	Network identifier	Control point name
Network Node (NN):	SYSTSTAP	ERS4
Comments (optional):		

	Network identifier	Control point name
Network management Focal Point:	SYSTSTAP	CNM12

HPR support: `No HPR Support`

[NN characteristics...]   [Backup focal point...]   [RTP parameters...]

Dependent LU Requester (DLUR) Parameters

	Network identifier	Control point name
Primary dependent LU server (DLUS):	SYSTSTAP	ICN01
Backup DLUS? ○ Yes ● No		

Waiting time before short retry: `10` seconds [(-1)-120]

Waiting time before long retry: `30` seconds [30-1200]

[OK]   [Cancel]   [Help]

CCM - Network Management (IP)

IBM

SNMP Configuration

Configure a Set of SNMP Transport Information

Access type: ● Read   ○ Trapdest

Community name: [   ]

Network IP address   Network mask

UDP transport: [   ]   [   ]

[Add]

[Modify]

[Delete]

SNMP Transport Information Sets Already Configured

Access   Community name   Network IP address   Network mask

[OK]   [Cancel]   [Help]

CCM - Summary

Configuration

Local/SP

Box Management

Port level

Network Node level

CCM

SNA/APPN/HPR IP

Adapter level

Station/Session level

Display Activate/Deactivate

PS/2 Stand-alone

Graphical User Interace

Remote PS/2 (DCAF)

IBM 3746 - CCM

IBM

Controller Configuration and Management

File Configuration Management Options Help

Opened APPN configuration is :   CUST3746
Active   APPN configuration is :   CUST3746

| 2752 TIC3 | 2784 TIC3 | 2816 LIC11 | 2848 LIC11 | 2880 LIC16 | 2912 LIC16 | 2944 | 2976 | 3008 ESCC | 3040 | 3072 ESCC | 3104 |

| 2358 LIC12 | 2400 LIC12 | 2432 LIC11 | 2464 LIC11 | 2496 | 2528 | 2560 | 2592 | 2624 | 2656 | 2688 | 2720 |

| 2048 CBC | 2112 LIC11 | 2144 LIC12 | 2176 TIC3 | 2208 TIC3 | 2240 ESCC | 2272 | 2304 | 2336 ESCC |

Button I: select   -   Button 2: display menu