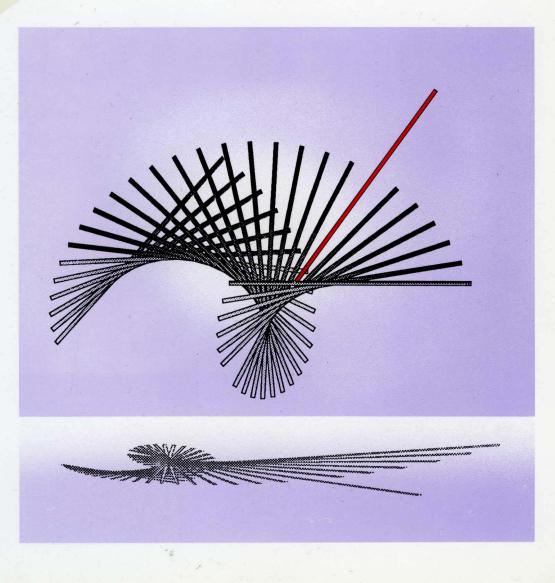
IBM 3745 Communication Controller All Models

Problem Determination Guide



SA33-0096-6

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IBM 3745 Communication Controller All Models

SA33-0096-6

IBM 3746 Expansion Unit Models A11, A12, L13, L14, and L15

Problem Determination Guide

Note!

Before using this information and the product it supports, be sure to read the general information under "Notices" on page v.

Seventh Edition (April 1992)

The information contained in this manual is subject to change from time to time. Any such changes will be reported in subsequent revisions.

Changes or additions to the text and illustrations are indicated by a vertical line to the left of the change.

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Properly shielded and grounded cables and connectors must be used in order to meet FCC emission limits. IBM is not responsible for any radio or television interference caused by using other than recommended cables and connectors or by unauthorized changes or modifications to this equipment. Unauthorized changes or modifications could void the user's authority to operate the equipment.

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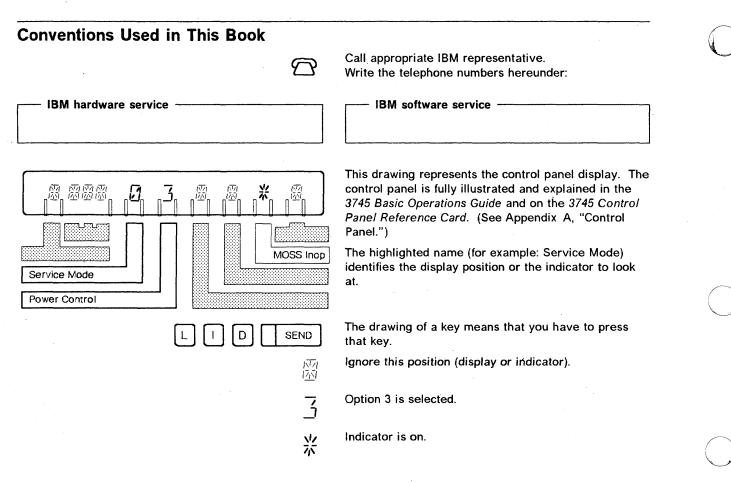
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IBM PS/2 LPDA VTAM NetView

Safety

This product meets IBM Safety standards.

For more information, see the *IBM Telecommunication Products Safety Handbook,* GA33-0126.



The figure below represents the screens that you can see when performing a 3745 function on the operator console. The top part, referred to as the *machine status area (MSA)* is used to display the status of the 3745 and its different components. In all the screens, 3745-xxx denotes the machine and model numbers. For a thorough description of this area, refer to 3745 Advanced Operations Guide. That area will no longer be displayed in this document.

Only the bottom part of the screens will be shown and used in following chapters.

CUSTOMER ID:		3745-xxx	SERIAL NUMBER: XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
	MACHINE S	TATUS AREA (MSA)
FUNCTION ON SC	REEN: TIME S	SERVICES	MM/DD/YY hh:mm
••		VER-ON DATA	FIELDS, THEN PRESS SEND
SUNDAY	(HH:MM) (HH:MM)	==>	
TUESDAY WEDNESDAY	(HH:MM) (HH:MM)	==>	
THURSDAY FRIDAY	(HH:MM) (HH:MM)	==>	
SATURDAY	(HH:MM)	==>	
	ACTIVE (Y=	YES, N = NO)	= = >
= = = >	50: A1 A DM		
F1:END	F3:ALARM		F6:QUIT

Problem Determination Start Page

If this is the first time you use this book, read "About This Book," especially "Conventions Used in This Book" on page viii.

After logging on, select the most appropriate entry.

Entry	Page	Tab
Alarms and Alerts "List of Alarms"	1-1	
"List of NetView* Alerts"	1-51	1-2
	2-1	1
Host Messages "Usage Tier Problems"	2-1	
Hexadecimal Codes on the Control Panel	3-1	
Unable to Power On	4-1	
"Power Control Display = 1 "	4-2	
"Power Control Display $= 2$ "	4-3	
Unable to Power Off	5-1	1
Local or Alternate Operator Console Problems	6-1	3-7
"Channel Adapter State Screen Not Displayed"	6-5	
"No Answer After Correct Password or During Console Session"	6-9	
		4
Remote Operator Console Problems	7-1 7-6	
"Permanent Ringing" "No Password Screen Displayed"	7-6	
"No Password Screen Displayed"		ļ.
IPL Problems (From Host or Disk)	8-1	
"Channel-Attached 3745 Load Problems"	8-1	8
"Link-Attached 3745 Load Problems"	8-5	
"Remote Loading/Activation Problems and Messages"	8-11	
LIC and Line Problems	9-1	
"Line Configuration Problems"	9-1	
"Problems on Multiple Lines Having Common Parameters"	9-1	
"Problems on All Lines of a LIC Type 1, 2, 3, or 4"	9-2	
"Problems on Several Lines of a LIC Type 1, 2, 3, or 4"	9-7	
"Problems on One Line Only of a LIC Type 1, 2, 3, or 4"	9-8	
"CCITT V.24/V.35 Nonswitched - Modem Attachment"		
"CCITT V.24/V.35 Nonswitched - Direct Attachment"		
"CCITT V.24 Switched - Modem Attachment"		9-11
"CCITT V.25"		0.11
"CCITT V.25bis Switched - Modem Attachment"		
"CCITT X.21 Nonswitched - Modem Attachment"		
"CCITT X.21 Nonswitched - Direct Attachment"		
"CCITT X.21 Switched - Modern Attachment"		1.1.1
"Problems on Both Lines of a LIC5"	9-31	1. 344
"Problems on One Line of a LIC5"	9-36	1
"Problems on the Line of a LIC6"	9-44	
Line Problem (HSS)	10-1	
"CCITT V.35 Nonswitched - Modem Attachment"	10-4	
"CCITT V.35 Nonswitched - Direct Attachment"	10-6	
"CCITT X.21 Nonswitched - Modem Attachment"	10-8	9-11
"CCITT X.21 Nonswitched - Direct Attachment"	10-10	
Ethernet-Type Line Problems (ESS)	11-1	1

Entry	Page	Tab
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Disk or Diskette Problems	13-1	12-15
MOSS Inop is On	14-1	12-13
Control Panel Problems	15-1	1
Wrap Test	16-1	
Console Link Test "Hex Display Codes are 1B2, 1B4, or 1B6" "Hex Display Codes are 1A1, 1A4, or 1A7" "Hex Display Codes are 1A0, 1A3, or 1A6"	17-1 17-5 17-6 17-8	16-18
Unexpected Problems with Console Functions	18-1	1

X IBM 3745 Communication Controller: Problem Determination Guide

About This Book

This book applies to the IBM 3745 Communication Controller Models 130, 150, 160, 170, 210, 310, 410, and 610, and the IBM 3746 Expansion Unit Models A11, A12, L13, L14, and L15.

Who Should Use This Book

This book is intended for experienced 3745 operators and teleprocessing specialists supporting the 3745.

It helps determining whether a problem is in the IBM 3745 Communication Controller or in another component of the network. It gives procedures for solving the problem, and tells the specialist when to contact the service representative. The guide contains:

- Alarms and hexadecimal codes
- NetView* alerts and Systems Network Architecture (SNA) code points
- Problem determination procedures
- Some 3745 functions that you may need in order to identify the problems.

How to Use This Book

Before starting your problem determination:

- 1. If this is the first time you use this book, read carefully "Conventions Used in This Book" on page viii.
- Select from "Problem Determination Start Page" the most appropriate entry to help you solving your problem.

There is a reduced table of contents to force the reader to enter the book at the "Start" page.

- 3. Select the additional publication that could help you for your problem determination from:
 - "Where to Find More Information"
 - "Customer Publications for 3745 (Models 130, 150, 160, and 170)" on page xiii
 - "Customer Publications for 3745 (Models 210, 310, 410, and 610)" on page xv.

What Is New in This Book

This edition reflects the following enhancements:

- Addition of model 160 when indicating features or problems specific to models 130, 150, and 170.
- Addition in chapter 1 of timed IPL Alarms and Alert

• Addition in chapter 11 to check for possible faulty connections on Ethernet-type lines.

Where to Find More Information

This book should be used in conjunction with the publications shown on page xiii.

- Abend codes are explained in the NCP, SSP, and EP Messages and Codes SC30-3169.
- Transferring a dump to the host is described in:
 - IBM Advanced Communications Function for Network Control Program Versions 3, 4, and 5; Advanced Communications Function for System Support Programs, Version 3; Emulation Program for IBM Communication Controllers Release 5: Diagnosis Guide, LY30-5591.

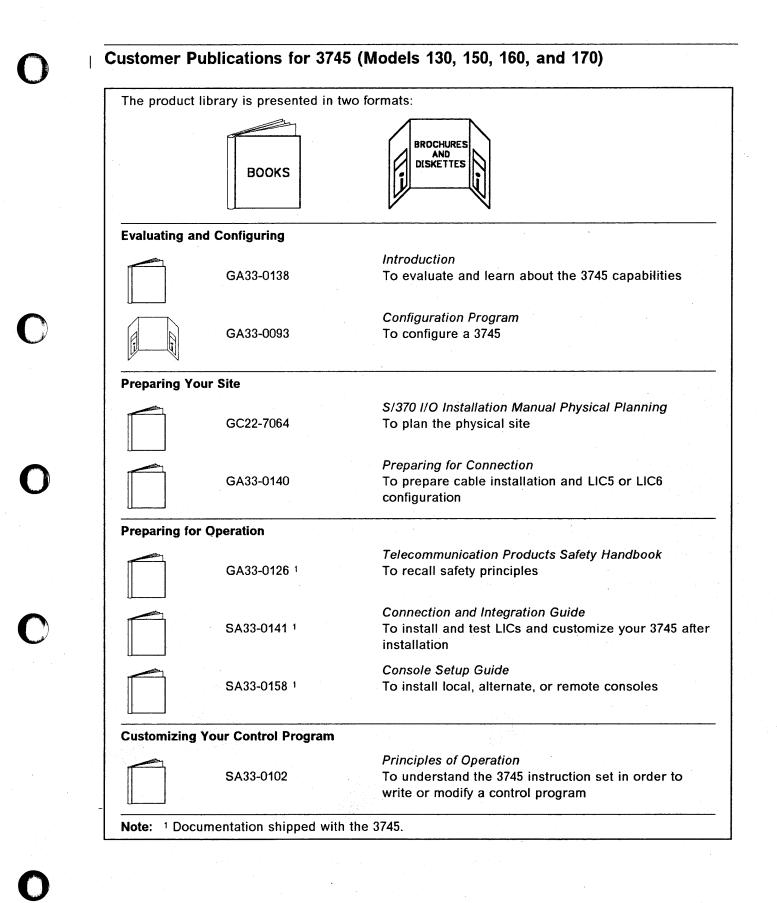
This manual will be referred to as the NCP, SSP, and EP Diagnosis Guide.

- Problem determination for the IBM token-ring network is described in:
 - IBM Token-Ring Network Problem Determination Guide SX27-3710.
- Transferring the BER file to the host, and printing it, are described in:
 - IBM Advanced Communication Function for Network Control Program, System Support Programs and Emulation Program: Diagnosis Guide, LY30-5591.

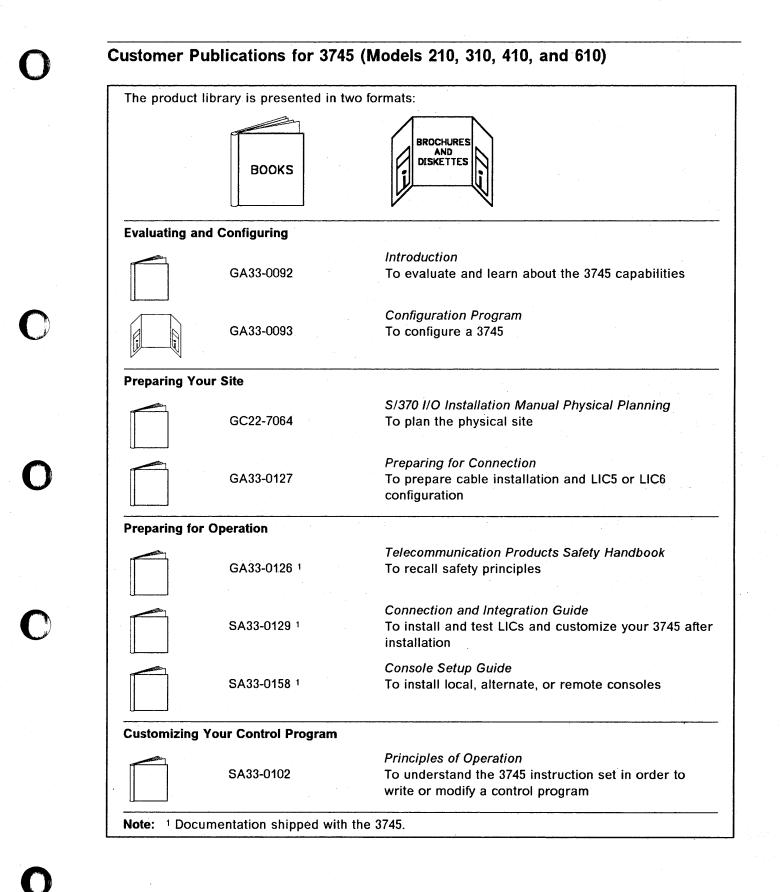
This manual will be referred to as the NCP, SSP and EP Diagnosis Guide.

- The console and keyboard of the 3101-like terminal are fully described in:
 - IBM 3101 Display Terminal Description, GA18-2033.
- You may also refer to the following manuals for more detailed information on:
 - The code point values defined by SNA:
 - SNA Formats, GA27-3136.
 - The use of code points by the NetView program:
 - NetView Command Lists, SC30-3423
 - Automated Operations Planning Guide, SC30-3474
 - Automated Operations Using NetView Command Lists, SC30-3477
 - The code points relation with the NMVT architecture:
 - NCP and EP Reference Summary and Data Areas, LY30-5603 (NCP Version 5).

About This Book



erating a	and Testing	
	SA33-0098 ¹	Basic Operations Guide To carry out routine daily operations
	SA33-0097 1	Advanced Operations Guide To carry out advanced operations and testing from the 3745 operator console
	SA33-0161	Remote Loading/Activation Guide To customize VTAM, NCP, and NPSI generations to support a remote controller
		<i>Guide to Timed IPL and Rename Load Module</i> VTAM procedures:
	SA33-0178	 To schedule an automatic reload of 3745 communication controllers To keep 3745 load module changes transparent to the operations staff.
naging F	Problems	· ·
	SA33-0096 1	Problem Determination Guide To perform problem determination
ding Info	ormation	
	SA33-0142 ¹	<i>Master Index</i> To find information in the customer library



perating a	nd Testing	
	SA33-0098 1	Basic Operations Guide To carry out routine daily operations
	SA33-0097 1	Advanced Operations Guide To carry out advanced operations and testing from the 3745 operator console
	SA33-0161	<i>Remote Loading/Activation Guide</i> To customize VTAM, NCP, and NPSI generations to support a remote controller
		Guide to Timed IPL and Rename Load Module VTAM procedures:
	SA33-0178	 To schedule an automatic reload of 3745 communication controllers To keep 3745 load module changes transparent to the operations staff.
anaging P	roblems	
	SA33-0096 1	Problem Determination Guide To perform problem determination
inding Info	ormation	
	SA33-0172 1	Master Index To find information in the customer library

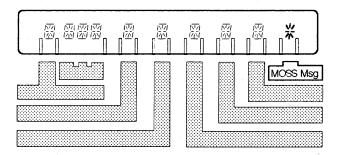
Chapter 1. Alarms and Alerts

Alarms

Alarms provide an automatic first level of problem determination. Most alarms have a reference code which appears at the right-most position of the alarm. This reference code helps service personnel identify your problem.

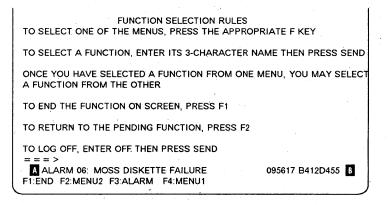
Note this reference code before contacting service personnel.

When an alarm is generated, the MOSS Msg indicator is lit on the control panel.



- If the console operator is logged on, the alarm is displayed and an audible signal is emitted.
- If the console operator is not logged on, log it on (refer to the 3745 Advanced Operations Guide, SA33-0097).
- The alarm **A** and the reference code **B** are automatically displayed, as shown on the following screen.

Note: The reference code **B** (8 digits) is preceded by the time (hhmmss).



If an alarm is displayed and another one is waiting for display, the word "ALARM" blinks. Up to 10 alarms may be waiting for display. If another alarm is generated, it is stacked and the oldest of the waiting alarms is erased.

When an alarm is displayed, note the alarm number and reference code.

Then press [F3] to

- Display the next alarm, if any, or
- Clear the displayed alarm, if there is no other alarm pending.

Look up the cause and action on pages 1-4 through 1-46:

Alerts

Most alarms have a corresponding alert issued by the NetView* program. The first NetView* screen is the NetView* Alert Dynamic screen. It displays the alert description with the first probable cause.

For example: "Disk failure: Adapter" is displayed for the alert of the alarm 04.

The NetView* recommended action appears as shown on the following screen (which is the second NetView* screen). A recommended action is given for each possible cause (user cause, install cause, and failure cause), on pages 1-51 through 1-166.

NETVIEW mm/dd/yy hh:mmi	
NPDA-45A * RECOMMENDED ACTION FOR SELECTED EVENTS * PAGE 1 OF 1	
I61ZO IFDNCP5	
10120 II DACI 5	
DOMAIN COMC	
tt	
USER CAUSED - NONE	
INSTALLED CAUSED - INCORRECT CUSTOMIZATION PARAMETERS	
ACTIONS - 1082 - CORRECT GENERATION PARAMETERS	
1000 - PERFORM PROBLEM DETERMINATION PROCEDURES	
1000 - PERFORM PROBLEM DETERMINATION PROCEDORES	
1163 - RESUME OPERATION	
1105 - REJONE OFERALION	
FAILURE CAUSED - COMMUNICATION CONTROLLER CONTROL PROGRAM	
PROCESSOR	
MAIN STORAGE	
ADAPTER	
ACTIONS - 1000 - PERFORM PROBLEM DETERMINATION PROCEDURES	
1163 - RESUME OPERATION	
1142 - REPORT THE FOLLOWING	
IBM 3745 REFERENCE CODE XXXXXXXX A.	
IBM 3745 PRODUCT ALERT REFERENCE CODE xx B	
***>	

Most alerts have a reference code, which appears on the screen as indicated by above. This reference code helps service personnel identify your problem.

Note this reference code before contacting service personnel.

The product alert reference code given for each alert, corresponds to the alarm number. Its position on the screen is indicated by **B** above.

NetView* alerts plus the associated Systems Network Architecture (SNA) code points are described from page 1-49 through page 1-166.

– NetView* Alert and MOSS Alarm Actions –

For the same NetView^{*} alert and MOSS alarm number, the recommended action can be slightly different. This is because the actions are performed at different places. The NetView^{*} alert action is performed at the host console while the MOSS alarm action is performed at the 3745.

ALARM 01: MOSS TRANSIENT ERROR. hhmmss ref cod ote: The corresponding alert is not displayed on the NetView* console if the control proloaded. ause: MOSS hardware ction: • Refer to the NCP, SSP, and EP Diagnosis Guide. • If the problem recurs: If the problem recurs:	
loaded. ause: MOSS hardware ction: • Refer to the NCP, SSP, and EP Diagnosis Guide.	ogram is not
 ction: Refer to the NCP, SSP, and EP Diagnosis Guide. 	
• Refer to the NCP, SSP, and EP Diagnosis Guide.	
• If the problem recurs: \bigcirc and give reference code.	
ALARM 02: MOSS TRANSIENT ERROR. DUMP hhmmss ref cod	le
ote: The corresponding alert is not displayed on the NetView* console if the control pro loaded.	ogram is not
ause: MOSS hardware MOSS microcode	
ction:	
• Transfer the MOSS dump to the host and print it. Refer to the NCP, SSP, a Diagnosis Guide.	and EP
• If the problem recurs: \bigodot and give reference code.	
ALARM 04: MOSS DISK ADAPTER ERROR hhmmss ref cod	le
ote: The corresponding alert is not displayed on the NetView* console if the control pro loaded.	ogram is not
ause: Disk adapter	
Disk drive Internal power unit	
ction:	
Re-IML MOSS from disk at the control panel.	
 If unsuccessful:	code.
	code.

Notes:

- 1. Even if you clear this alarm successfully, record the number, time, and reference code. (This is needed to track any transient errors on the disk).

Note: The corresponding alert is not displayed on the NetView* console if the control program is not loaded.

Cause: Disk adapter Disk drive Internal power unit

Action:

- Re-IML MOSS from disk at the control panel.
 - If unsuccessful: ${\ensuremath{\widehat{C}}}$ and give reference code and control panel hex code.
- · Perform disk file error recovery procedures:
 - Re-IML in diskette mode (the next IPL will be performed from the diskette).
 - If the problem persists: \square and give reference code and control panel hex code.

Notes:

- 1. Even if you clear this alarm successfully, record the number, time, and reference code. (This is needed to track any transient errors on the disk).
- 2. If this alarm recurs: 2 and give the particulars that you have recorded concerning this alarm.

ALARM 06: MOSS DISKETTE FAILURE

hhmmss ref code

Note: The corresponding alert is not displayed on the NetView* console if the control program is not loaded.

Cause: Diskette Diskette drive

> Diskette adapter Internal power unit

Action:

- Check that the diskette is the correct one.
- Check that the diskette is correctly mounted.
- · Check that the diskette latch is correctly set.
- If all the above are correct, re-IML MOSS in diskette mode.
 - If unsuccessful: \square and give reference code and control panel hex code.

- Re-IML in diskette mode from the backup diskette.
 - If the problem persists: \mathfrak{D} and give reference code and control panel hex code.

Notes:

- 1. Even if you clear this alarm successfully, record the number, time, and reference code. (This is needed to track any transient errors on the disk).
- 2. If this alarm recurs, 2 and give the particulars that you have recorded concerning this alarm.

ALARM 07: MOSS DISKETTE ADAPTER ERROR hhmmss ref code

Note: The corresponding alert is not displayed on the NetView* console if the control program is not loaded.

Cause: Diskette adapter Diskette drive Diskette

Action: Re-IML MOSS in diskette mode. If unsuccessful:

· Re-IML in diskette mode from back-up diskette.

Notes:

- 1. Even if you clear this alarm successfully, record the number, time, and reference code. (This is needed to track any transient errors on the disk).
- 2. If this alarm recurs, \bigtriangleup and give the particulars that you have recorded concerning this alarm.

ALARM 08: MOSS CONTROL PANEL ERROR

hhmmss ref code

Note: The corresponding alert is not displayed on the NetView* console if the control program is not loaded.

Cause: Control panel Internal power control unit

Action: and give reference code.

	09: MOSS IML COMPLETE	hhmmss ref code
	ne corresponding alert is not displayed on the NetView* co aded.	nsole if the control program is no
Cause:	MOSS hardware MOSS microcode	
Action:		
	• Perform the action required by the hex code.	
	• If the problem recurs: $igoplus \bigodot \bigodot\bigodot\bigodot \bigodot \bigodot\bigod$	de and control panel hex code.
ALARM	0A: MOSS-TO-LOCAL CONSOLE TRANSMISSION ERROR	hhmmss ref code
Cause:	Console adapter	1
	Console cable Console	
Action:	Perform a console link test (see Chapter 17):	
	• If unsuccessful, ${oldsymbol{ ilde{O}}}$ and provide reference code.	
	• If successful, go to Chapter 6, "Local or Alternate O	perator Console Problems."
ALARM	0B: LOCAL CONSOLE ERROR	hhmmss ref code
Cause:	Local console	
	Console cable	
	Console adapter	
Action:	Perform a console link test (see Chapter 17):	
	- If unsuccessful, $\widehat{}$ and provide reference code.	
	If successful, go to Chapter 6, "Local or Alternate Optimized for the successful of the second	perator Console Problems."
ALARM	0C: MOSS-TO-REMOTE CONSOLE TRANSMISSION ERROR	hhmmss ref code
ALARM Cause:	Console adapter	hhmmss ref code
	Console adapter Local DCE interface cable	hhmmss ref code
	Console adapter Local DCE interface cable Communication line	hhmmss ref code
	Console adapter Local DCE interface cable	hhmmss ref code
	Console adapter Local DCE interface cable Communication line Console or modem	hhmmss ref code
Cause:	Console adapter Local DCE interface cable Communication line Console or modem Incorrect hardware configuration	hhmmss ref code
Cause:	Console adapter Local DCE interface cable Communication line Console or modem Incorrect hardware configuration Perform a console link test (see Chapter 17):	

- Check cable. Reconnect correctly, if necessary.
- If both the above are correct, perform modem tests. These tests are described in the modem documentation.

ALARM 0D: REMOTE CONSOLE ERROR hhmmss ref code Cause: Remote modem Remote console Cable loose or defective Remote DCE interface cable Local DCE interface cable Local modem Console adapter Action: Perform a console link test (see Chapter 17): • If unsuccessful, $\textcircled{\basis}$ and provide reference code. • If successful, go to Chapter 7, "Remote Operator Console Problems." - Check if modem is powered on and operational. - Check cable. Reconnect correctly, if necessary. - If both the above are correct, perform modem tests. These tests are described in the modem

ALARM 0E: MOSS-TO-RSF CONSOLE TRANSMISSION ERROR

hhmmss ref code

Cause: A local or a remote console has been logged on after a normal log off of the RSF console. Communications error Console adapter Local DCE interface cable Cable loose or defective Local modem

Action:

- Do not consider this alarm if it happened on the local or the remote console after a normal RSF console log off.
- Check if modem is powered on and operational.
- Check cable. Reconnect correctly, if necessary.
- If above statements are correct:
 - Perform modem tests. These tests are described in the modem documentation.
 - Perform console link test (see Chapter 17).

	he corresponding alert is not displayed on the NetView* cor baded.	sole if the control program is no
Cause:	Non-disruptive errors occurred during the MOSS IML. MOSS hardware MOSS microcode	
Action:	If the problem continues to occur repeatedly: $igoplus$	give reference code.
ALARM	10: REMOTE CONSOLE PASSWORD VIOLATION	hhmmss ref code
Cause:	Too many unsuccessful attempts to log on at remote con	sole.
Action:	Reset the logon attempts counter using the PSW function <i>Operations Guide.</i>	. Refer to the 3745 Advanced
ALARM	20: TRANSIENT HARD ERROR: CCU-x RE-IPLED. NO DUMP	hhmmss ref code
Cause:	CCU Main storage	
Action:	Resume operations and perform problem determination r	
Action:		eceding alarms related to this o
Action:	Resume operations and perform problem determination properties $\widehat{\mathbf{C}}$ and give the reference codes of the properties of the problem display the alarms, use the Event Log Display (ELD) fu	eceding alarms related to this o
	Resume operations and perform problem determination properties $\widehat{\mathbf{C}}$ and give the reference codes of the properties of the problem display the alarms, use the Event Log Display (ELD) fu	eceding alarms related to this o inction. Refer to the 3745
ALARM	Resume operations and perform problem determination properties of the properties of the problem display the alarms, use the Event Log Display (ELD) for Advanced Operations Guide.	eceding alarms related to this o inction. Refer to the 3745
ALARM	Resume operations and perform problem determination properties (P, P) and give the reference codes of the properties of the alarms, use the Event Log Display (ELD) for <i>Advanced Operations Guide.</i>	eceding alarms related to this o inction. Refer to the 3745
ALARM Models	Resume operations and perform problem determination properties of the properties of the problem display the alarms, use the Event Log Display (ELD) for Advanced Operations Guide.	eceding alarms related to this o inction. Refer to the 3745
ALARM Models Cause:	Resume operations and perform problem determination prepeatedly, and give the reference codes of the provide to display the alarms, use the Event Log Display (ELD) for Advanced Operations Guide.	eceding alarms related to this o inction. Refer to the 3745 J-x hhmmss ref code
ALARM	Resume operations and perform problem determination prepeatedly, and give the reference codes of the prepeatedly in a larms, use the Event Log Display (ELD) for <i>Advanced Operations Guide.</i> 21: HARDWARE ERROR: FALLBACK AND IPL COMPLETE ON CCU 410, 610 CCU Main storage Processor switch A problem occurred on one CCU in a twin-standby config	eceding alarms related to this o inction. Refer to the 3745 J-x hhmmss ref code uration. Fallback was successfu
ALARM Models Cause:	Resume operations and perform problem determination prepeatedly, and give the reference codes of the prepeatedly in a larms, use the Event Log Display (ELD) for <i>Advanced Operations Guide.</i> 21: HARDWARE ERROR: FALLBACK AND IPL COMPLETE ON CCU 410, 610 CCU Main storage Processor switch A problem occurred on one CCU in a twin-standby config on the other CCU.	eceding alarms related to this o inction. Refer to the 3745 J-x hhmmss ref code uration. Fallback was successfu perform problem determination e codes of the preceding alarms
ALARM Models Cause:	 Resume operations and perform problem determination prepeatedly, and give the reference codes of the print of display the alarms, use the Event Log Display (ELD) for Advanced Operations Guide. 21: HARDWARE ERROR: FALLBACK AND IPL COMPLETE ON CCI 410, 610 CCU Main storage Processor switch A problem occurred on one CCU in a twin-standby config on the other CCU. Resume operations on backup physical unit (PU) and procedures. Main give the reference code and the reference related to this one. To display the alarms, use the Event Code and the reference code and the reference code and the reference code and the reference code and the code code code code code code code cod	eceding alarms related to this o inction. Refer to the 3745 J-x hhmmss ref code uration. Fallback was successfu perform problem determination e codes of the preceding alarms

ALARM 22: HARDWARE ERROR: CCU-x FALLBACK OR IPL FAILED

hhmmss ref code

Models 410, 610

Cause: CCU Processor switches Main storage

Action: Action and give the reference code and the reference codes of the preceding alarms related to this one. To display the alarms, use the Event Log Display (ELD) function. Refer to the 3745 Advanced Operations Guide.

ALARM 23: HARDWARE ERROR: FALLBACK COMPLETE ON CCU-x hhmmss ref code

Models 410, 610

- Cause: CCU Main storage
- Action: A problem occurred on one CCU in a twin-backup configuration. Fallback was successful on the other CCU.
 - Resume operations on backup physical unit (PU) and perform problem determination procedures.
 - 🗇 and give the reference code and the reference codes of the preceding alarms related to this one. To display the alarms, use the Event Log Display (ELD) function. Refer to the 3745 Advanced Operations Guide.

ALARM	24: HARDWARE ERROR: CCU-x RE-IPL IN PROGRESS	hhmmss ref code
Cause:	ССИ	
	Main storage	
Action:	If the problem persists or occurs repeatedly, \bigcirc an	d give reference code
[
ALARM	25: HARDWARE ERROR: CCU-x RE-IPL FAILED	hhmmss ref code
Cause:	ССИ	
·,	Main storage	
Action		
Action:	Δ and give reference code along with the reference alarm.	ice code of the previous related

Models 410, 610

Cause: CCU

Main storage

Non-disruptive errors occurred during the fallback or during the IPL following the fallback. The 3745 is running, but with some restrictions.

Action:

- Resume operation on back-up physical unit (PU).
- \bigtriangleup and give the reference code and the reference codes of the preceding alarms related to this one. To display the alarms, use the Event Log Display (ELD) function. Refer to the 3745 Advanced Operations Guide.

ALARM 27: HARDWARE ERROR: C	CU-x RE-IPL COMPLETE. DUMP	hhmmss ref code	

Cause: CCU Control program Main storage

Action:

- Transfer the control program dump to the host and print it. Refer to the NCP, SSP, and EP Diagnosis Guide.
- Resume operations and perform problem determination procedures. If the problem

occurs repeatedly, 22° and give the reference code of the preceding alarms related to this one. To display the alarms, use the Event Log Display (ELD) function. Refer to the 3745 Advanced Operations Guide.

ALARM 28: HARDWARE ERROR: CCU-x STANDBY RE-IPL COMPLETE. DUMP hhmmss ref code

Models 410, 610

CCU

Cause:

Control program Main storage Processor switch

Action:

- Transfer the control program dump to the host and print it. Refer to the NCP, SSP, and EP Diagnosis Guide.
- · Resume operations and perform problem determination procedures. If the problem

occurs repeatedly, \checkmark and give the reference code of the preceding alarms related to this one. To display the alarms, use the Event Log Display (ELD) function. Refer to the 3745 Advanced Operations Guide.

ALARM 29: CP ERROR: xxxx CCU-x STANDBY RE-IPL COMPLETE. DUMP

hhmmss ref code

Models 410, 610

Cause: CCU

Control program Line adapter microcode Main storage Processor switch

Action:

- Transfer the control program dump to the host and print it. Refer to the NCP, SSP, and EP Diagnosis Guide.
- Resume operations and perform problem determination procedures. If the problem occurs repeatedly:
 - Look for the control program abend code displayed in the previous BER (Event Log Display function in the 3745 Advanced Operations Guide.).
 - Refer to the appropriate control program documentation (NCP or else) for the abend code xxxx description.
 - Check and, if necessary, correct generation parameters. There may be a mismatch between hardware configuration and software generation parameters.

Advanced Operations Guide.

ALARM 2F: HARDWARE ERROR: ELAyy (PORT 1-2) IML FAILED

Cause: Local CSMA/CD adapter (hardware) Mismatch between hardware and microcode levels Internal power unit

Action:

- Use the Event Log Display (ELD) function to display the previous alarm D1. Refer to the 3745 Advanced Operations Guide.
- \sim \square the hardware support and give reference code of the alarm D1 and of the previous BER's 0105 (type=01, ID=05).

ALARM	30: CCU-x ERROR: ELAyy NOT ATTACHED	hhmmss ref code
Cause:	Control program (Adapter addressing error)	
Action:	True impacted resource is not identified yet.	
	If the problem reoccurs, take a dump of the control progrand give the reference code.	ram. 🎦 the software suppo
ALARM	31: CP COMMAND REJECTED: PORTx ELAyy DOWN	hhmmss ref code
Cause:	Control program Local CSMA/CD adapter (microcode)	
Action:		$\sum_{i=1}^{n} \frac{1}{i} \sum_{i=1}^{n} \frac{1}{i} \sum_{i$
	 Check if NCP is at the right level. Check for correct software fix. Reactivate the resources attached to the ELA. If the problem persists: Take a communication line trace. Take a NCP dump. 	
	$ \widehat{ extsf{D}}$ the software support and give the reference	ce code.
ALARM	32: CP ERROR: ELAyy (PORT 1-2) RE-IML IN PROGRESS	hhmmss ref code
Cause:	Control program Local CSMA/CD adapter (microcode)	
Action:	Wait for additional message before taking action.	
	 If the problem reoccurs: Check if NCP is at the right level. Check for correct software fix. If the problem persists: Take a communication line trace. Take a NCP dump. 	
		ce code.

, and

 \square

ALARM 33: CP ERROR: ELAyy (PORT 1-2) RE-IML COMPLETE

hhmmss ref code

Cause:	Control program Local CSMA/CD adapter (microcode)
Action:	Reactivate resources attached to the adapter.
	 If the problem reoccurs: Check if NCP is at the right level. Check for correct software fix. If the problem persists: Take a communication line trace. Take a NCP dump.
	- \widehat{C} the software support and give the reference code of the previous alarm 32.
ALARM	34: HARDWARE ERROR: ELAyy (PORT 1-2) RE-IML IN PROGRESS hhmmss ref code
Cause:	Local CSMA/CD adapter (hardware)
Action:	Wait for additional message before taking action.
	If the problem persists or occurs repeatedly, $$ the hardware support and give the reference code.
ALARM	35: TRANSIENT HDW ERROR: ELAyy (PORT 1-2) RE-IML COMPLETE hhmmss ref code
Cause:	Local CSMA/CD adapter (hardware)
Action:	
	Reactivate the resources attached to the ELA.
	 If the problem reoccurs,
ALARM	36: PERMANENT HDW ERROR: ELAyy (PORT 1-2) RE-IML FAILED hhmmss ref code
Cause:	Local CSMA/CD adapter (hardware)
Action:	

Cause:	Control program	
	System programmer error	
	Local CSMA/CD adapter (microcode)	
Action:	·	
	If the problem occurs at installation time:	
	 Check and, if necessary, correct generation param 	eters. There may be
	between hardware configuration and software gen	
	 If the problem occurs during current operations: 	$(\mathbf{r}_{i})_{i\in I} \in [0,\infty)$
	 Check if NCP is at the right level. 	
	 Check for correct software fix. 	
	 Reactivate the resources attached to the ELA. 	
	 If the problem persists: 	
	- Take a communication line trace.	
	- Take a NCP dump.	
	- 🗇 the software support and give the refere	ance code
	- ine soliware support and give the relete	
Cause:	38: MICROCODE ERROR: ELAyy (PORT 1-2) RE-IML IN PROGRESS Local CSMA/CD adapter (microcode)	hhmmss ref code
Cause:		hhmmss ref code
Cause:	Local CSMA/CD adapter (microcode)	hhmmss ref code
Cause:	Local CSMA/CD adapter (microcode)Wait for additional message before taking action.	
Cause: Action:	 Local CSMA/CD adapter (microcode) Wait for additional message before taking action. Check for an associated alarm 3B (dump taken). If the problem persists or occurs repeatedly, the reference code. 	
Cause: Action:	 Local CSMA/CD adapter (microcode) Wait for additional message before taking action. Check for an associated alarm 3B (dump taken). If the problem persists or occurs repeatedly, The reference code. 39: MICROCODE ERROR: ELAyy (PORT 1-2) RE-IML COMPLETE 	e hardware support a
Cause: Action: ALARM	 Local CSMA/CD adapter (microcode) Wait for additional message before taking action. Check for an associated alarm 3B (dump taken). If the problem persists or occurs repeatedly, the reference code. 	e hardware support a
Cause: Action: ALARM Cause:	 Local CSMA/CD adapter (microcode) Wait for additional message before taking action. Check for an associated alarm 3B (dump taken). If the problem persists or occurs repeatedly, The reference code. 39: MICROCODE ERROR: ELAyy (PORT 1-2) RE-IML COMPLETE 	e hardware support a
Cause: Action: ALARM Cause:	 Local CSMA/CD adapter (microcode) Wait for additional message before taking action. Check for an associated alarm 3B (dump taken). If the problem persists or occurs repeatedly, 2 the reference code. 39: MICROCODE ERROR: ELAyy (PORT 1-2) RE-IML COMPLETE Local CSMA/CD adapter (microcode) 	e hardware support a
Cause: Action: ALARM Cause:	 Local CSMA/CD adapter (microcode) Wait for additional message before taking action. Check for an associated alarm 3B (dump taken). If the problem persists or occurs repeatedly, The reference code. 39: MICROCODE ERROR: ELAyy (PORT 1-2) RE-IML COMPLETE 	e hardware support a
Cause: Action: ALARM Cause:	 Local CSMA/CD adapter (microcode) Wait for additional message before taking action. Check for an associated alarm 3B (dump taken). If the problem persists or occurs repeatedly, 2 the reference code. 39: MICROCODE ERROR: ELAyy (PORT 1-2) RE-IML COMPLETE Local CSMA/CD adapter (microcode) 	e hardware support a hhmmss ref code
Cause: Action:	 Local CSMA/CD adapter (microcode) Wait for additional message before taking action. Check for an associated alarm 3B (dump taken). If the problem persists or occurs repeatedly, and the reference code. 39: MICROCODE ERROR: ELAyy (PORT 1-2) RE-IML COMPLETE Local CSMA/CD adapter (microcode) Reactivate the resources attached to the ELA. If the problem reoccurs, and the hardware support adapter (microcode) 	e hardware support a hhmmss ref code
Cause: Action: ALARM Cause:	 Local CSMA/CD adapter (microcode) Wait for additional message before taking action. Check for an associated alarm 3B (dump taken). If the problem persists or occurs repeatedly, and the reference code. 39: MICROCODE ERROR: ELAyy (PORT 1-2) RE-IML COMPLETE Local CSMA/CD adapter (microcode) Reactivate the resources attached to the ELA. If the problem reoccurs, and the hardware support adapter (microcode) 	e hardware support a hhmmss ref code

ause:	Local CSMA/CD adapter (hardware)	· · · · · · · · · · · · · · · · · · ·
ction:	$igoplus_{\mathbf{C}}$ the hardware support and give the reference co	de.
ALARM	3B: MICROCODE ERROR: ELAyy DUMP TAKEN	hhmmss ref code
ause: ction:	Local CSMA/CD adapter (microcode)	
	 Transfer the line adapter dump to the host and prin Diagnosis Guide. 	nt it. Refer to the NCP, SSP, and EF
,	 If the problem persists or occurs repeatedly, Preference code of the previous alarm 38. 	the hardware support and give the
ALARM	3C: HARDWARE ERROR: PORTx ELAyy DOWN	hhmmss ref code
ause:	Local CSMA/CD adapter (hardware)	
ction:		
ction:	Reactivate the resource.	
ction:	 Reactivate the resource. If the problem persists, the hardware support 	rt and give the reference code.
	_	rt and give the reference code. hhmmss ref code
ALARM	• If the problem persists, $ igoplus $ the hardware suppo	
	 If the problem persists, The hardware support 3D: ELAyy DISCONNECTED ON OPERATOR'S REQUEST Disconnected by the local system operator 	
ALARM ause: ction:	 If the problem persists, The hardware support of the hardware support of the hardware support of the support of the hardware support of t	
ALARM ause: ction: ALARM ause:	 If the problem persists, The hardware support 3D: ELAyy DISCONNECTED ON OPERATOR'S REQUEST Disconnected by the local system operator Disconnected by the remote system operator No action required. 	hhmmss ref code
ALARM ause: ction:	 If the problem persists, The hardware support of the problem persists, The hardware support of the problem persists, The hardware support of the problem persists. 3D: ELAyy DISCONNECTED ON OPERATOR'S REQUEST Disconnected by the local system operator Disconnected by the remote system operator Disconnected by the remote system operator. No action required. 3E: MICROCODE ERROR: PORTx ELAyy DOWN 	hhmmss ref code

ALARM	I 3F: CSMA/CD BUS ERROR: PORTx ELAyy INOPERATIVE	
Cause:	CSMA/CD adapter cable	
	CSMA/CD LAN component	
	CSMA/CD LAN interface	
	Local CSMA/CD adapter cable	
	SQE test function disabled on a MAU (transceiver).	
Action:		
Action:		
	 Contact the administration responsible for this LAN. 	
	 Check and correct CSMA/CD installation or cable co 	
	Check that the SQE test switch on MAUs (transceive	ers) is enabled.
	Reactivate the resource.	
	- If the problem persists, $igoplus$ the hardware support	t and give the referen
ALARM	40: SOFTWARE ERROR: CCU-x RE-IPL IN PROGRESS	hhmmss ref co
Cause:	Control program abend. The problem may be caused b specifying parameters. The abend code will appear on	•
	Abend codes are explained in the NCP, SSP, and EP Me	essages and Codes.
Action:	Take action as appropriate for the detailed explanations and EP Messages and Codes manual. If the problem persists or occurs repeatedly, O the	
Action:	and EP Messages and Codes manual.	
	and EP Messages and Codes manual.	
ALARM	and EP Messages and Codes manual. If the problem persists or occurs repeatedly, The code and abend code. 41: CP ERROR: xxxx RE-IPL COMPLETE CCU-x. DUMP	software support and
	and EP Messages and Codes manual. If the problem persists or occurs repeatedly, The code and abend code. 41: CP ERROR: xxxx RE-IPL COMPLETE CCU-x. DUMP CCU	software support and
ALARM	and EP Messages and Codes manual. If the problem persists or occurs repeatedly, the code and abend code. 41: CP ERROR: xxxx RE-IPL COMPLETE CCU-x. DUMP CCU Control program	software support and
ALARM	 and EP Messages and Codes manual. If the problem persists or occurs repeatedly, the code and abend code. 41: CP ERROR: xxxx RE-IPL COMPLETE CCU-x. DUMP CCU Control program Line adapter microcode 	software support and
ALARM Cause:	and EP Messages and Codes manual. If the problem persists or occurs repeatedly, the code and abend code. 41: CP ERROR: xxxx RE-IPL COMPLETE CCU-x. DUMP CCU Control program	software support and
ALARM Cause:	and EP Messages and Codes manual. If the problem persists or occurs repeatedly, the code and abend code. 41: CP ERROR: xxxx RE-IPL COMPLETE CCU-x. DUMP CCU Control program Line adapter microcode Main storage	software support and hhmmss ref co
ALARM Cause:	 and EP Messages and Codes manual. If the problem persists or occurs repeatedly, and the code and abend code. 41: CP ERROR: xxxx RE-IPL COMPLETE CCU-x. DUMP CCU Control program Line adapter microcode Main storage Transfer the control program dump to the host and program 	software support and hhmmss ref co
ALARM Cause:	 and EP Messages and Codes manual. If the problem persists or occurs repeatedly, and the code and abend code. 41: CP ERROR: xxxx RE-IPL COMPLETE CCU-x. DUMP CCU Control program Line adapter microcode Main storage Transfer the control program dump to the host and per Diagnosis Guide. 	software support and hhmmss ref co print it. Refer to the Λ
ALARM Cause:	 and EP Messages and Codes manual. If the problem persists or occurs repeatedly, and the code and abend code. 41: CP ERROR: xxxx RE-IPL COMPLETE CCU-x. DUMP CCU Control program Line adapter microcode Main storage Transfer the control program dump to the host and perform problem determination. 	software support and hhmmss ref co
ALARM Cause:	 and EP Messages and Codes manual. If the problem persists or occurs repeatedly, and the code and abend code. 41: CP ERROR: xxxx RE-IPL COMPLETE CCU-x. DUMP CCU Control program Line adapter microcode Main storage Transfer the control program dump to the host and per Diagnosis Guide. 	software support and hhmmss ref co
ALARM Cause:	 and EP Messages and Codes manual. If the problem persists or occurs repeatedly, and the code and abend code. 41: CP ERROR: xxxx RE-IPL COMPLETE CCU-x. DUMP CCU Control program Line adapter microcode Main storage Transfer the control program dump to the host and perform problem determina Resume operations and perform problem determina 	software support and hhmmss ref com print it. Refer to the A
ALARM Cause:	 and EP Messages and Codes manual. If the problem persists or occurs repeatedly, The code and abend code. 41: CP ERROR: xxxx RE-IPL COMPLETE CCU-x. DUMP CCU Control program Line adapter microcode Main storage Transfer the control program dump to the host and perform problem determina occurs repeatedly: 	software support and hhmmss ref con print it. Refer to the A tion procedures. If th yed in the previous BE
ALARM	 and EP Messages and Codes manual. If the problem persists or occurs repeatedly, The code and abend code. 41: CP ERROR: xxxx RE-IPL COMPLETE CCU-x. DUMP CCU Control program Line adapter microcode Main storage Transfer the control program dump to the host and perform problem determina occurs repeatedly: Resume operations and perform problem determina occurs repeatedly: Look for the control program abend code display Display function in the 3745 Advanced Operation 	software support and hhmmss ref con print it. Refer to the A ition procedures. If th yed in the previous BE is Guide).
ALARM Cause:	 and EP Messages and Codes manual. If the problem persists or occurs repeatedly, The code and abend code. 41: CP ERROR: xxxx RE-IPL COMPLETE CCU-x. DUMP CCU Control program Line adapter microcode Main storage Transfer the control program dump to the host and perform problem determina occurs repeatedly: Resume operations and perform problem determina occurs repeatedly: Look for the control program abend code display 	software support and hhmmss ref con print it. Refer to the A ition procedures. If th yed in the previous BE is Guide).
ALARM Cause:	 and EP Messages and Codes manual. If the problem persists or occurs repeatedly, If the problem persists or occurs repeatedly, If the code and abend code. 41: CP ERROR: xxxx RE-IPL COMPLETE CCU-x. DUMP CCU Control program Line adapter microcode Main storage Transfer the control program dump to the host and perform problem determina occurs repeatedly: Look for the control program abend code display Display function in the 3745 Advanced Operation Refer to the appropriate control program docum 	software support and hhmmss ref con print it. Refer to the A tion procedures. If th yed in the previous BE is <i>Guide</i>). entation (NCP or else

 \bigtriangleup and give the reference code of the preceding alarms related to this one. To display the alarms, use the Event Log Display (ELD) function. Refer to the 3745 Advanced Operations Guide.

ALARM 42: SYSGEN ERROR: xxxx RE-IPL COMPLETE CCU-x. DUMP hhmmss ref code Cause: Communication controller control program Processor Main storage Adapter Action: Transfer the control program dump to the host and print it. Refer to the NCP, SSP, and EP Diagnosis Guide. Resume operations and perform problem determination procedures. If the problem occurs repeatedly: Check and, if necessary, correct generation parameters. There may be a mismatch between hardware configuration and software generation parameters. Refer to the appropriate control program documentation (NCP or else) for the abend code xxxx description. ALARM 43: CONTROL PROGRAM REPORTED ERROR: LINE XXXX DOWN hhmmss ref code Cause: LIC or line adapter hardware Adapter microcode Control program Mismatch between hardware and software. Action: 1. If it is a HPTSS line, \bigtriangleup and give reference code. 2. If it is a low or medium speed TSS, check whether the LIC or its lines have just been installed or modified. • If yes: Verify if the NCP and CDF are matching the LIC configuration. (For a LIC5 or a LIC6 check the configuration sheet values with a PKD.) If no, correct them. Reload the scanner if other lines are down. Restart the lines. - If yes, replace the LIC (refer to the 3745 Connection and Integration Guide) and if the problem persists. \square If no: verify if any other lines driven by this scanner are down. If no, replace the LIC. Refer to the 3745 Connection and Integration Guide. - If yes and all the down lines are on the same LIC, then replace the LIC. Refer to the 3745 Connection and Integration Guide.

 If yes and all the down lines are not on the same LIC, then reload the scanner (Refer to the 3745 Advanced Operations Guide).

Restart the lines individually, checking if the alarm recurs. If it does, $\,\,m{\Omega}^{\prime}$

ALARM 44: CP ERROR: xxxx RE-IPL FAILED CCU-x. DUMP

hhmmss ref code

Cause: Control program CCU Main storage

Action:

- Transfer the control program dump to the host and print it. Refer to the NCP, SSP, and EP Diagnosis Guide.
- Resume operations and perform problem determination procedures. If the problem occurs repeatedly:
 - Check and, if necessary, correct generation parameters. There may be a mismatch between hardware configuration and software generation parameters.
 - Refer to the appropriate control program documentation (NCP or else) for the abend code description.
 - \square and give reference code.

 ALARM 46: CP ERROR: xxxx RE-IPL COMPLETE CCU-x. NO DUMP
 hhmmss ref code

 Cause:
 Communication controller control program Processor Main storage Adapter Mismatch between hardware and software or microcode.

 Action:
 • Resume operations and perform problem determination procedures. If the problem occurs repeatedly:

 • Look for the control program abend code displayed in the previous BER (Event Log Display function in the 3745 Advanced Operations Guide).

 • Refer to the appropriate control program documentation (NCP or else) for the abend code xxxx description.

> Check and, if necessary, correct control program generation parameters and software generation parameters.

 \square and give the reference code of the preceding alarms related to this one. To display the alarms, use the Event Log Display (ELD) function. Refer to the 3745 Advanced Operations Guide.

ALARM 47: CP ERROR: xxxx RE-IPL COMPLETE CCU-x. DUMP.

hhmmss ref code

Cause: Control program abend Line adapter

Action:

- Transfer the control program dump to the host and print it. Refer to the NCP, SSP, and EP Diagnosis Guide.
- Resume operations and perform problem determination procedures. If the problem occurs repeatedly:
 - Look for the control program abend code displayed in the previous BER (Event Log Display function in the 3745 Advanced Operations Guide).
 - Refer to the appropriate control program documentation (NCP or else) for the abend code xxxx description.
 - Check and, if necessary, correct generation parameters. There may be a mismatch between hardware configuration and software generation parameters.
 - ^O and give the reference code of the preceding alarms related to this one. To display the alarms, use the Event Log Display (ELD) function. Refer to the 3745
 Advanced Operations Guide.

ALARM 48: RE-IPL COMPLETE CCU-x. FORCED DUMP TAKEN

hhmmss ref code

Cause: A VTAM* command from the host forced a control program abend X'7FFF'. The abend caused a static dump to disk and a reloading of the NCP load module to the communication controller.

Action:

- Transfer the control program dump to the host and print it. Refer to the NCP, SSP, and EP Diagnosis Guide.
- Reactivate lines from the host.

ALARM 4A: CONTROL PROGRAM ERROR: FALLBACK COMPLETE ON CCU-x hhmmss ref code

Models 410, 610

Cause: Control program Line adapter

Action: Resume operations on backup physical unit (PU).

- When the IPL of the failing CCU completes (the hex code FF4 appears at the 3745 control panel) and before loading the control program, transfer and print the control program dump at host level. Refer to the NCP, SSP, and EP Diagnosis Guide.
- \bigtriangleup and give the reference code and the references codes of the preceding alarms related to this one. To display the alarms, use the Event Log Display (ELD) function. Refer to the 3745 Advanced Operations Guide.

ALARM 4B: CP ERROR: FALLBACK COMPLETE WITH ERRORS ON CCU-x hh

hhmmss ref code

Models 410, 610

Cause: Control program Line adapter

Action: Resume operations on backup physical unit (PU).

- When the IPL of the failing CCU completes (the hex code FF4 appears at the 3745 control panel) and before loading the control program, transfer and print the control program dump at host level. Refer to the NCP, SSP, and EP Diagnosis Guide.
- \square and give the reference code and the reference codes of the preceding alarms related to this one. To display the alarms, use the Event Log Display (ELD) function. Refer to the 3745 Advanced Operations Guide.

ALARM 4C: CP ERROR: CCU-x FALLBACK FAILED

hhmmss ref code

Models 410, 610

Cause: Control program Processor switches Main storage

Action:

 \square and give the reference code and the reference codes of the preceding alarms related to this one. To display the alarms, use the Event Log Display (ELD) function. Refer to the 3745 Advanced Operations Guide.

		hhmmss ref code
Cause:	Channel adapter hardware Channel interface cable Invalid ESC address	
Action:		
	Check and, if necessary, correct generation parameter	rs or CDF customized data.
	• If the problem persists: $\widehat{oldsymbol{C}}$ and give reference co	de.
ALARM	51: MICROCODE ERROR: CHANNEL ADAPTER xx DOWN	hhmmss ref code
Cause:	Adapter microcode Channel adapter hardware	
Action:		
	 Check and, if necessary, correct generation parameter 	rs and CDF parameters.
	If the problem persists:	
	$ \bigcirc$ and give reference code.	
	 Dump channel adapter microcode. 	
ALARM	52: CHANNEL ADAPTER xx ERROR. DUMP	hhmmss ref code
Cause:	52: CHANNEL ADAPTER xx ERROR. DUMP Channel adapter microcode	hhmmss ref code
Cause:		
ALARM Cause: Action:	Channel adapter microcode Transfer the channel adapter dump to the host and pr 	int it. Refer to the NCP, SSP, and
Cause:	 Channel adapter microcode Transfer the channel adapter dump to the host and pr EP Diagnosis Guide. 	int it. Refer to the NCP, SSP, and
Cause: Action:	 Channel adapter microcode Transfer the channel adapter dump to the host and pr EP Diagnosis Guide. 	int it. Refer to the NCP, SSP, and
Cause: Action:	 Channel adapter microcode Transfer the channel adapter dump to the host and pr<i>EP Diagnosis Guide.</i> If the problem persists: and give reference content. 	int it. Refer to the <i>NCP, SSP, and</i> de.

Cause:	Line adapter microcode Control program	
Action:	If the problem recurs: $$ and give reference co	de.
ALARM	61: LA nn (LINES xxxx-yyyy) RE-IML COMPLETE. DUMP	hhmmss ref code
Cause:	Line adapter microcode	4 · ·
	Control program Line adapter	
Action:		
	• Transfer the line adapter dump to the host and Diagnosis Guide.	print it. Refer to the NCP, SS
	Transfer and print control program dump.	
	• transier and print control program dump.	
	Reactivate lines from the host and retry.	erence code of the preceding
	 Reactivate lines from the host and retry. If the problem persists: and give the reference related to this one. To display the alarms, use the Refer to the 3745 Advanced Operations Guide. 	the Event Log Display (ELD) f
ALARM	 Reactivate lines from the host and retry. If the problem persists: and give the reference related to this one. To display the alarms, use the second se	
ALARM Cause:	 Reactivate lines from the host and retry. If the problem persists: and give the reference related to this one. To display the alarms, use the Refer to the 3745 Advanced Operations Guide. 	the Event Log Display (ELD) f
Cause:	 Reactivate lines from the host and retry. If the problem persists: and give the reference related to this one. To display the alarms, use the Refer to the 3745 Advanced Operations Guide. 62: LA nn (LINES xxxx-yyyy) DOWN. DUMP Control program Line adapter 	the Event Log Display (ELD) f
L	 Reactivate lines from the host and retry. If the problem persists: and give the reference related to this one. To display the alarms, use the Refer to the 3745 Advanced Operations Guide. 62: LA nn (LINES xxxx-yyyy) DOWN. DUMP Control program Line adapter 	he Event Log Display (ELD) f

ALARM	63: LA nn (LINES xxxx-yyyy) RE-IML IN PROGRESS hhmmss ref code
Cause:	Line adapter hardware
	Line adapter microcode
Action:	If the problem recurs: 🗇 and give reference code.
ALARM	65: LA nn (LINES xxxx-yyyy) RE-IML COMPLETE. NO DUMP hhmmss ref code
Cause:	Control program
	Line adapter hardware
	Line adapter microcode
ction:	
	Reactivate lines from the host and retry.
ALARM	66: LA nn (LINES xxxx-yyyy) RE-IML FAILED. NO DUMP hhmmss ref code
ause.	
Action:	And give the reference code of the preceding alarms related to this one. To displa the alarms, use the Event Log Display (ELD) function. Refer to the 3745 Advanced Operations Guide.
ALARM	67: LA nn (LINES xxxx-yyyy) RE-IML COMPLETE. DUMP hhmmss ref code
Cause:	Line adapter microcode Control program
Action:	
	• Transfer the line adapter dump to the host and print it. Refer to the NCP, SSP, and EP Diagnosis Guide.
	Reactivate lines from the host and retry.
	• If the problem recurs: \square and give the reference code of the preceding alarms

related to this one. To display the alarms, use the Event Log Display (ELD) function. Refer to the 3745 Advanced Operations Guide.

Cause:	Line adapter hardware	
Action:	Description to the second the second sectors	
	 Reactivate lines from the host and retry. 	
	 If the problem recurs: and give the reference related to this one. To display the alarms, use the Ev Refer to the 3745 Advanced Operations Guide. 	• •
		· · · · · · · · · · · · · · · · · · ·
ALARM	6A: LA nn (LINES xxxx-yyyy) IML FAILED. NO DUMP	hhmmss ref code
Cause:	Line Adapter	
Action:	igoplus and give reference code along with the reference	code of the related alarm D
	- -	
	6B: LA nn (LINES xxxx-yyyy) RE-IML FAILED. DUMP	hhmmss ref code
	6B: LA nn (LINES xxxx-yyyy) RE-IML FAILED. DUMP Line adapter microcode MOSS microcode	hhmmss ref code
Cause:	Line adapter microcode	hhmmss ref code
Cause:	Line adapter microcode	
ALARM Cause: Action:	Line adapter microcode MOSS microcode • Transfer the line adapter dump to the host and print i	. Refer to the NCP, SSP, and to the 3745 Basic Operations
Cause:	 Line adapter microcode MOSS microcode Transfer the line adapter dump to the host and print in <i>Diagnosis Guide.</i> Re-IML the line adapter using the IMS function. Reference Guide. If the re-IML is successful, re-activate the line 	. Refer to the NCP, SSP, and to the 3745 Basic Operations
Cause:	 Line adapter microcode MOSS microcode Transfer the line adapter dump to the host and print in <i>Diagnosis Guide.</i> Re-IML the line adapter using the IMS function. Reference Guide. If the re-IML is successful, re-activate the line If the problem persists: and give reference content. 	t. Refer to the NCP, SSP, and to the 3745 Basic Operations s from the host and retry.
Cause: Action:	 Line adapter microcode MOSS microcode Transfer the line adapter dump to the host and print in <i>Diagnosis Guide.</i> Re-IML the line adapter using the IMS function. Reference Guide. If the re-IML is successful, re-activate the line If the problem persists: and give reference content. 	t. Refer to the NCP, SSP, and to the 3745 Basic Operations s from the host and retry.

 \square

use:	HPTSS adapter
	Control program
tion:	\frown and give reference code.
ARM	30: TRSS HARDWARE INITIALIZATION ERROR ON TRA xx hhmmss ref code
ise:	Local token-ring adapter (TRA) Local token-ring adapter interface
ion:	and give reference code.
ARM	31: TIME-OUT ERROR: TRA xx DOWN hhmmss ref code
se:	Local token-ring adapter (TRA) Control program
on:	
	 Dump the control program. Transfer it to the host and print it. Refer to the NCP, SSP, and EP Diagnosis Guide.
	Reactivate the link from the host and retry.
	• If the problem recurs: $ onumber in on$
LARM	32: TRSS HARDWARE ERROR: TRA xx DISCONNECTED hhmmss ref code
use:	Token-ring adapter interface
tion:	
	Reactivate the link from the host and retry.
	• If the problem recurs: \bigcirc and give reference code.

Cause:	Local token-ring adapter (TRA) Local token-ring adapter interface	
Action:		
	• Reactivate the link from the host and retry.	e de la companya de l
	• If the problem recurs: $\widehat{\mbox{\ }}$ and give reference code.	
ALARM	84: TIC INITIALIZATION ERROR: TIC x DOWN (TRA yy)	hhmmss ref code
Cause:	Token-ring adapter interface	
Action:		
·	• Reactivate the link from the host and retry.	an ang taon na tina ang taon na tina. Taon ang taon na tina ang
	• If the problem recurs: ${oldsymbol{ ilde{D}}}$ and give reference code.	
ALARM	85: OPEN-TIME ERROR: TIC x DOWN (TRA yy)	hhmmss ref code
Cause:	Token-ring adapter interface	<u>.</u>
Action:		
	Reactivate the link from the host and retry.	
	• If the problem recurs: \bigcirc and give reference code.	
ALARM	86: TIC x (TRA yy) DUMP COMPLETE	hhmmss ref code
Cause:	Token-ring adapter interface	
Action:		
	 Transfer the dump to the host and print it. Refer to the A Guide. 	ICP, SSP, and EP Diagno
	Reactivate the link from the host and retry.	
	• If the problem recurs: $oldsymbol{ ilde{D}}$ and give reference code.	and the second

.

ALARM	87: TIME-OUT ERROR: TIC x DOWN (TRA yy) hhmmss ref code
ause:	Token-ring adapter interface Control program
ction:	
	 Reactivate the link from the host and retry.
	• If the problem recurs: $ onumber \ensuremath{\widehat{C}} $ and give reference code.
ALARM	88: TIC x (TRA yy) DUMP FAILED hhmmss ref code
ause:	Token-ring adapter interface
ction:	Reactivate the physical link and retry. If unsuccessful: $igoplus$ and give reference code.
ALARM	89: TOKEN-RING ADAPTER NOT INSTALLED hhmmss ref code
ause:	Control program CDF data parameters
ction:	
	 Check and, if necessary, correct generation parameters. There may be a mismatch between hardware configuration and software generation parameters.
	Reactivate the link from the host and retry.
	• If the problem persists: \square and give reference code.
ALARM	8B: TOKEN-RING TIME-OUT hhmmss ref code
ause:	Control program Token-ring adapter interface
ction:	
	 Reactivate the link from the host and retry.
	• If the problem recurs: \frown and give reference code.

ALARM 8C: TOKEN-RING FRAME TIME-OUT

Cause: Token-ring adapter interface Control program Incorrect software generation

Action:

- Check and, if necessary, correct generation parameters. There may be a mismatch between hardware configuration and software generation parameters.
- · Reactivate the link from the host and retry.
- If the problem recurs: \square and give reference code.

ALARM 8D: TRSS HARDWARE INITIALIZATION ERROR ON TRA xx

hhmmss ref code

hhmmss ref code

Cause: Local token-ring adapter (TRA)

Action:

- · Re-activate the link from the host and retry.
- If the problem recurs: \square and give reference code.

ALARM 8E: TIC x (TRA yy) EXTERNAL ERROR zz. REFER TO PD GUIDE

hhmmss

Cause: External error to the 3745.

Action: Refer to the following table which describes the actions to perform according to the external error codes (zz).

Table 1-1	(Page 1 of 5). Token-Ring External Err	or Codes	
External Error Codes	Error Description	Probable Cause	User Action
02	Physical link activation failure The parameters that NTRI passed to the TIC at TIC initialization time are invalid.	User or NTRI	First verify that there is not a TIC type 1 in the 3745 with a TIC Type 2 definition statement for it in the NCP SYSGEN. If this is not the case, then it is likely that a NTRI internal problem exists, so contact an IBM* software service representative.
07	Physical link activation failure The TIC detected another device on the ring it is attached to with the same token ring MAC address as the TIC.	User	Determine the MAC addresses of the devices in the token ring network, and ensure that no two devices with the same address are on the same ring. Two devices may have the same MAC address as long as they are on separate rings.

External Error Codes	Error Description	Probable Cause	User Action
08	Physical link activation failure The parameters that NTRI passed to the TIC at TIC open time are invalid.	NTRI	Try to re-activate the physical link and if the problem persists, contact an IBM* software service representative
09	Physical link activation failure When the TIC attempted to insert onto the ring during TIC open time, it detected a non-specific ring failure.	Token Ring LAN or TIC	Try to re-activate the physical link and if the problem persists, contact an IBM service representative.
0A	Physical link activation failure When the TIC attempted to insert onto the ring during TIC open time, it detected a loss of signal from the ring which is known as a lobe media error. This indicates a loose or disconnected cable between the TIC and the Multistation Access Unit (MAU). It may also be a defective cable or a defective MAU.	Loose cable connection	Check all connections. Try to re-activate the physical link after checking the connections. If it still fails, connect the cable to another plug on the MAU. If that does not work, replace the cable. If the problem persists, contact the local token ring LAN administrator.
0B	Physical link activation failure When the TIC attempted to insert onto the ring during TIC open time, it detected a token ring failure, such as a loss of signal or frame time out.	Token ring LAN	This may not be a persistent problem, so try to re-activate the physical link and if the problem persists, contact the local token rin LAN administrator.
0C	Physical link activation failure When the TIC attempted to insert onto the ring during TIC open time, it received a signal to remove itself from the ring from a device on the ring. This device is known as the parameters server.	Parameters server error	This may not be a persistent problem, so try to re-activate the physical link and if the problem persists, contact the local token rin LAN administrator.
0D	Physical link activation failure When the TIC attempted to insert onto the ring during TIC open time, it detected an abnormal signal on the ring. This may be due to ring beaconing or that the adapter is attempting to insert onto the ring at a different ring speed.	Token Ring LAN or user	Ring beaconing may be a temporary condition, so try to re-activate the physical link after waiting 30 seconds. If the problem persists, verify that the speed of th ring matches the speed specified by the TRSPEED keyword on the physical link definition statement. I the problem continues to persist, contact your local token ring LAN administrator.
0E, 1	Physical link INOP due to receiving a remove command A device on the token ring sent a Remove command to this TIC, which causes the TIC to disconnect from the ring. The physical link as well as all of its associated logical links are INOPed.	Other Token Ring LAN device	Contact the token ring operator or administrator to determine what device sent the REMOVE command and why it was sent.

0F transmission to the token ring has been suspended and all logical links associated with this physical link have been INOPed. The physical link will remain active and inserted in the ring and report beaconing recovery when that occurs Token ring LAN administrator to determine the cause of the permanent beaconing condition. 10 Physical link INOP due to loss of connection Physical link INOP due to loss of connection Check all connections. Try to re-activate the physical link after checking the connections. If it still fails, connect the cable to another ling atom as a lobe media error. The physical link as well as all of its associated logical links are INOPed. Loose cable connection Check all connections. Try to re-activate the physical link after checking the connections. If it still fails, connect the cable to another plug on the MAU. If that does not work, replace the cable. If the problem persists, contact the loca token ring LAN administrator. 11 Physical link INOP due to auto-removal process The TIC removed itself from the ring after it detected an error during a self-test. The self-test was performed as part of the beaconing process. The physical link as well as all of its associated logical links are INOPed. TIC	External Error Codes	Error Description	Probable Cause	User Action
0Fring which has not been recovered by the beaconing process. Data transmission to the token ring has been suspended and all logical links associated with this physical link have been INOPed. The physical link will remain active and inserted 				
connectionWhen the TIC attempted to insert onto the ring during TIC open time, the TIC detected a loss of signal from the ring known as a lobe media error. The physical link as well as all of its associated logical links are INOPed. This indicates a loose or disconnected cable between the TIC and the Multistation Access Unit (MAU). It may also be a defective cable or a defective MAU.Loose cable connectionCheck all connections. Try to re-activate the physical link after checking the connections. If it still fails, connect the cable to another plug on the MAU. If that does not work, replace the cable. If the problem persists, contact the loca token ring LAN administrator.11Physical link INOP due to auto-removal process The TIC removed itself from the ring after it detected an error during a self-test. The self-test was performed as part of the beaconing process. The physical link as well as all of its associated logical links are INOPed.TIC12First station inserted on the ring (ring status: 'SINGLE STATION'). There are no other stations connected on the ring.NoneIf other station are known to be or the ring. See the Token-Ring Multie. Otherwise, no action.13Physical link recovery - beacon process ended The token ring has recovered after a beacon process.NoneNone	0F	ring which has not been recovered by the beaconing process. Data transmission to the token ring has been suspended and all logical links associated with this physical link have been INOPed. The physical link will remain active and inserted in the ring and report beaconing	Token ring LAN	cause of the permanent beaconing
10When the TIC attempted to insert onto the ring during TIC open time, the TIC detected a loss of signal from the ring known as a lobe media error. The physical link as well as all of its associated logical links are INOPed. This indicates a loose or disconnected cable between the TIC and the Multistation Access Unit (MAU). It may also be a defective cable or a defective MAU.Loose cable connectionCheck all connections. Try to re-activate the physical link after checking the connections. If it still fails, connect the cable. If the problem persists, contact the loca token ring LAN administrator.11Physical link INOP due to auto-removal processThe TIC removed itself from the ring after it detected an error during a self-test. The self-test was performed as part of the beaconing 				
auto-removal processThe TIC removed itself from the ring after it detected an error during a self-test. The self-test was performed as part of the beaconing process. The physical link as well as all of its associated logical links are INOPed.TICThis may not be a persistent problem, so try to re-activate the physical link and if the problem persists, contact an IBM service representative.12First station inserted on the ring (ring status: 'SINGLE STATION'). There are no other stations connected on the ring.NoneIf other station are known to be or the ring, see the Token-Ring Network Problem Determination Guide. Otherwise, no action.13Physical link recovery - beacon process.NoneNone	10	When the TIC attempted to insert onto the ring during TIC open time, the TIC detected a loss of signal from the ring known as a lobe media error. The physical link as well as all of its associated logical links are INOPed. This indicates a loose or disconnected cable between the TIC and the Multistation Access Unit (MAU). It may also be a defective cable or a		re-activate the physical link after checking the connections. If it stil fails, connect the cable to another plug on the MAU. If that does not work, replace the cable. If the problem persists, contact the loca
12(ring status: 'SINGLE STATION'). There are no other stations connected on the ring.Nonethe ring, see the Token-Ring Network Problem Determination Guide. Otherwise, no action.13Physical link recovery - beacon process ended The token ring has recovered after a beacon process.NoneNone	11	auto-removal process The TIC removed itself from the ring after it detected an error during a self-test. The self-test was performed as part of the beaconing process. The physical link as well as all of its associated logical links	TIC	problem, so try to re-activate the physical link and if the problem persists, contact an IBM service
13 process ended None None 13 The token ring has recovered after a beacon process. None None	12	(ring status: 'SINGLE STATION'). There are no other stations	None	Network Problem Determination
14 Unused	13	process ended The token ring has recovered after	None	None
	14	Unused		

External Error Codes	Error Description	Probable Cause	User Action
	Physical link INOP due to unknown cause		This should not be a persistent
1A (1997) 19 19 19 19 19	Something caused a physical link INOP, but the cause could not be reported by NTRI due to a buffer depletion condition in the CCU. The physical link as well as all of its associated logical links are INOPed.	Unknown	This should not be a persistent problem, so try to re-activate the physical link. If the problem persists, contact an IBM service representative.
	Logical link activation failure - time out		
18	NTRI timed out trying to establish a connection with another device on the ring. The problem may be that the other device is powered off or uninitialized. Or the dial digits on the PATH macro of the VTAM definition statement are incorrect. Or there may be a failure in NTRI or the other device.	User error, other device, NTRI	Investigate and correct any of the previously mentioned suspected causes and then attempt to re-activate the logical link. If the problem persists, run a line trace and contact an appropriate IBM service representative.
1C	Logical link INOP due to physical link failure A physical link failure caused this logical link to be INOPed,	Physical link	Investigate the cause of the physical link failure.
• 10	Logical link activation failure - invalid dial digits NTRI received invalid dial digits in the connect-out command from VTAM. The problem is probably due either to the VTAM definition statement for DIALNO on the PATH statement being incorrect or that the NTRI is not processing valid digits correctly	User or NTRI	Check the VTAM generation statements and make sure that the are coded correctly, then attempt to re-activate the logical link. If the problem persists, contact an IBM service representative.
1E	digits correctly. Logical link activation failure - physical link not active NTRI receives on logical link outgoing call request via a connect-out from VTAM and then detects that physical link is not operational.	User or NTRI	Check if the physical link is active and activate it if necessary, then attempt to re-activate the logical link. If the problem persists, contact an IBM service representative.

1-32 IBM 3745 Communication Controller: Problem Determination Guide

External Error Codes	Error Description	Probable Cause	User Action
	Logical link activation failure - incoming call refused		
1F	NTRI receives an incoming call from another device, but cannot accept it because no logical links are available to accept an incoming call. The problem may be that no logical links associated with the physical line are active or that too many logical connections are requested on the same physical link. The problem may also be that the logical links are not defined with CALL=IN or CALL=INOUT on the line macro.	User	Investigate the possible causes mentioned above and correct if necessary, then attempt to re-activate the logical link. If the problem persists, contact an IBM service representative.
20	Outgoing call refused, the link is specified as incoming.	User	
21	Logical link activation failure - contention While NTRI is attempting an outgoing call, the device it is calling is attempting to call in. This alert indicates that NTRI has chosen to cancel its outgoing call and process the incoming call.	None	This situation should not be a problem, but if the problem persi and the connections fail, contact IBM service representative.
23	Physical link activation failure following TIC dump The user is attempting to activate the physical link while MOSS is in the process of dumping the TIC.	User	Wait 30 seconds and re-activate physical link. If the problem persists, use the MOSS operator function to reset the Activate Lin Inhibit bit and try to re-activate the link again. If the problem persist contact an IBM service representative.
24	Unused		

•

ALARM 90: CCU-x POWER SUPPLY DOWN

hhmmss ref code

			•
Models	210, 310, 410, 610		
Cause:	Power supply		
Action:		· · · · · · · · ·	
	• Restore power supplies u Refer to the 3745 Advanc		unction (POS).
	• If the problem persists,	$\widehat{igside{D}}$ and give reference co	ode.
ALARM	95: FIRST TEMPERATURE THRESH	IOLD REACHED ON CCU-x	hhmmss ref code
	······	in an fi fir fi tha state a state and a	
Models	210, 310, 410, 610		
Cause:	Air filter		
ause.	Thermal detector		
	Cooling fan		
	Power supply		
	Power control		
	Power control		
Action:			
	 Check that air vents are i Check for dirty filter. 	not obstructed and that the	room temperature is correct.
			- -
	 If the problem persists, 	and give reference co	bae.
· · · · · · · · · · · · · · · · · · ·			
ALARM	96: POWER SUBSYSTEM: CCU PO	WER SUPPLY OVERHEATING	hhmmss ref code
Models	210, 310, 410, 610		
		· · ·	
Cause:	Power supply		
	Power control		
		•	
Action:	\square and give reference c	ode.	
	.		
			•.

ALARM 98:	TEMPERATURE	RETURNED	TO NORMAL	ON CCU-x
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hhmmss ref code

Models 210, 310, 410, 610

Cause: The CCU temperature returned to normal: The cause of alarm 95 disappeared.Action: No action required.

	JJ. POWER JUBSTSTEIN: PERI	MANENT OVERHEATING ON CCU-x	hhmmss ref code
Models	210, 310, 410, 610		
ause:	Air filter		
ause:	Cooling fan		
	Power supply		
	Power control		
ction:			
	Check that air vents a	are not obstructed and that the roo	om temperature is correct.
	• \square and give refer	ence code.	
	······································		
ALARM	9B: THERMAL DETECTOR REP	ORTING ERROR ON CCU-x	hhmmss ref code
••••••			
Models	210, 310, 410, 610		
ause:	Thermal detector		
	Power control		
ction:	4. C		
cuon:			
	• \bigcirc and give refer	conco codo	
	· · · · · · · · · · · · · · · · · · ·		
ALARM	9C: POWER SUPPLY DOWN		hhmmss ref code
	9C: POWER SUPPLY DOWN dels 130, 150, 160, and 170.)		hhmmss ref code
(For mo		WER SUPPLY DOWN	hhmmss ref code
(For mo ALARM	dels 130, 150, 160, and 170.)	WER SUPPLY DOWN	
(For mo ALARM	dels 130, 150, 160, and 170.) 9C: UNDEFINED ADAPTER PO\	WER SUPPLY DOWN	
(For mo ALARM	dels 130, 150, 160, and 170.) 9C: UNDEFINED ADAPTER PO\	WER SUPPLY DOWN	
(For mo ALARM (For mo	dels 130, 150, 160, and 170.) 9C: UNDEFINED ADAPTER PO\	WER SUPPLY DOWN	
(For mo ALARM (For mo	dels 130, 150, 160, and 170.) 9C: UNDEFINED ADAPTER PO dels 210, 310, 410, and 610.)	WER SUPPLY DOWN	

Action:

- Power off
- Wait 10 seconds
- Select function 1 (MOSS IML)
- Power on
- If the problem persists: \square and give reference code.

Models 210, 310, 410, 610

Cause: Power supply Power control cable Power unit

Action:

- Restore power supplies using the Power Services function (POS). Refer to the 3745 Advanced Operations Guide.
- If the problem persists, \square and give reference code.

ALARM 9D: CHANNEL ADAPTER xx POWER SUPPLY DOWN

hhmmss ref code

Models 210, 310, 410, 610

Cause: Power supply Power control cable Power unit MOSS POS function was used to power down a particular power supply.

Action:

- Restore power supplies using the Power Services function (POS). Refer to the 3745 Advanced Operations Guide.
- If the problem persists, \square and give reference code.

ALARM 9F: LINE ADAPTER xx POWER SUPPLY DOWN

hhmmss ref code

Models 210, 310, 410, 610

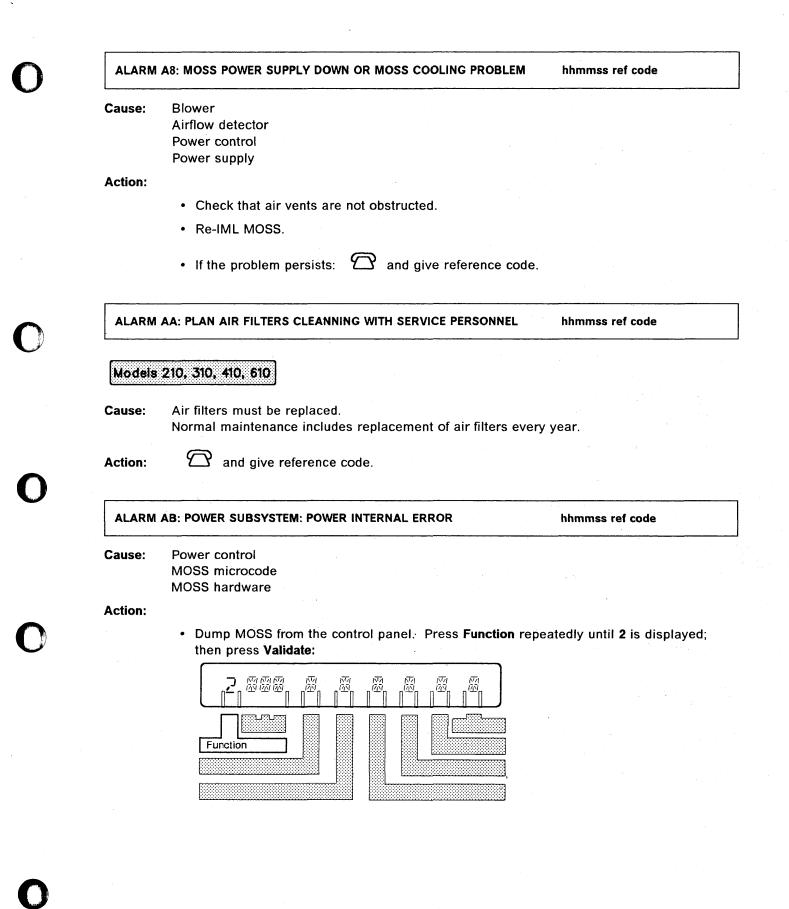
Cause: Power supply Power control cable Power unit

Action:

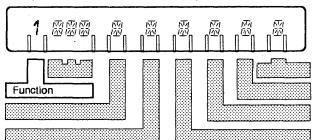
· Restore power supplies using the Power Services function (POS). Refer to the 3745 Advanced Operations Guide.

	A1: POWER SUBSYSTEM: LIC UNIT xx POWER SUPPLY DOWN	hhmmss ref code
Models	210, 310, 410, 610	
Cause:	Power supply Power control cable Power unit	
Action:		
	• Restore power supplies using the Power Services function Refer to the 3745 Advanced Operations Guide.	on (POS).
	- If the problem persists, $$ and give reference code.	
ALARM	A2: POWER SUPPLY-TO-POWER CONTROL ERROR	hhmmss ref code
Models	210, 310, 410, 610	
Cause:	Power supply Power control cable Power unit	an an an an an taon An an taong an taon ang ang ang ang Ang ang ang ang ang ang ang ang ang ang a
Action:	and give reference code.	
ALARM	A3: POWER SUBSYSTEM: TEMPORARY AC FAILURE	hhmmss ref code
	e corresponding alert is not displayed on the NetView* consol ded.	
Cause:	Disturbance in ac power supply Power control Power cord A circuit breaker has been set OFF then ON	
Action:		ou set OFF and ON a circuit
Action:	 Do not take into account this alarm if it occurred after yo breaker. 	
Action:		

Cause:		
	Power control	•
Action:	If the problem recurs: $ onumber \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	
ALARM	A5: ASK SERVICE PERSONNEL TO REPLACE BATTERY hhmmss ref code	*
Cause:	Battery Power control	
Action:	and give reference code.	
ALARM	A6: POWER SUBSYSTEM: INTERNAL CLOCK DOWN hhmmss ref code	
Cause:	Internal clock	
Action:	Power control	20
Action:	Power control If it is the first installation, set the time and the date with the TIM function of the MOS Otherwise, \square and give reference code.	SS.
	If it is the first installation, set the time and the date with the TIM function of the MOS	SS.
Action: ALARM Cause:	If it is the first installation, set the time and the date with the TIM function of the MOS Otherwise, \bigcirc and give reference code.	SS.
ALARM	If it is the first installation, set the time and the date with the TIM function of the MOS Otherwise, and give reference code. A7: COOLING PROBLEM hhmmss ref code Blower Airflow detector	SS.
ALARM	If it is the first installation, set the time and the date with the TIM function of the MOS Otherwise, and give reference code. A7: COOLING PROBLEM hhmmss ref code Blower Airflow detector	SS.
ALARM	If it is the first installation, set the time and the date with the TIM function of the MOS Otherwise, and give reference code. A7: COOLING PROBLEM hhmmss ref code Blower Airflow detector Power control	SS.
ALARM	If it is the first installation, set the time and the date with the TIM function of the MOS Otherwise, and give reference code. A7: COOLING PROBLEM hhmmss ref code Blower Airflow detector Power control • Check that air vents are not obstructed.	



 Re-IML MOSS from the control panel. Press Function repeatedly until 1 is displayed; then press Validate:



- Transfer the MOSS dump to the host and print it. Refer to the NCP, SSP, and EP Diagnosis Guide.
- If the problem persists: \bigcirc and give reference code.

ALARM B0: HOST OPERATOR NOTIFIED: FALLBACK TO BE PERFORMED hhmmss ref code

Models 410, 610

- **Cause:** The host operator has been notified that a fallback is to be performed by the operator on a twin-standby 3745.
- Action: No local action required.

ALARM B1: MANUAL FALLBACK OR IPL COMPLETE CCU-x

hhmmss ref code

Models 410, 610

Cause: Manual fallback on a twin-standby 3745 or resulting IPL has been completed successfully.Action: No action required.

ALARM	B3: MANUAL FALLBACK OR IPL FAILED CCU-x	hhmmss ref code			
Models	Models 410, 610				
Cause:	Manual fallback or resulting IPL failed because CCU	of a hardware error.			
	Main storage Processor switch				
Action:	\frown and give reference code.				
ALARM	B4: HOST OPERATOR NOTIFIED: SWITCHBACK TO BE	PERFORMED hhmmss ref code			
Models	410, 610				
Cause:	The host operator has been notified that a switc	hback is to be performed by the operator.			
Action:	No local action required.				
ALARM	B5: SWITCHBACK AND IPL COMPLETE CCU-x	hhmmss ref code			

Models 410, 610

Cause: Switchback has been completed successfully.

Action: No local action required.

ALARM B7: MOSS OFFLINE ON OPERATOR'S REQUEST

hhmmss ref code

Cause: The operator set MOSS offline. This alarm may also be displayed when the operator started to set MOSS offline and cancelled the operation by pressing the break key. Actual MOSS status is shown in the MSA.

Action: No action required.

ALARM B8: LA xx DISCONNECTED ON OPERATOR'S REQUEST hhmmss ref code

Cause: Service personnel disconnected line adapter (scanner) xx.

Action: No local action required.

ALARM B9: TRA xx DISCONNECTED ON OPERATOR'S REQUEST

hhmmss ref code

Cause: Service personnel disconnected a token-ring adapter.

Action: No local action required.

ALARM BA: HSS xx DISCONNECTED ON OPERATOR'S REQUEST hhmmss ref code

Cause: Service personnel disconnected a high-speed scanner.

Action: No local action required.

ALARM BB: MANUAL FALLBACK OR IPL COMPLETE WITH ERROR(S) CCU-x hhmmss ref code

Models 410, 610

Cause:

Main storage

CCU

Non-disruptive errors occurred during the fallback or during the IPL following the fallback. The 3745 is running, but with some restrictions.

Action:

 \bigcirc and give reference code.

MODEIS	410, 610	
Cause:	CCU Main storage Non-disruptive errors occurred during the switchback or du switchback. The 3745 is running, but with some restrictions	
Action:	and give reference code.	
ALARM	BD: SWITCHBACK OR IPL FAILED CCU-x	hhmmss ref code
Models	410, 610	
Cause:	CCU Main storage Processor switch	
Action:		
	• 🗇 and give reference code.	
	• Re-IPL the other CCU.	
ALARM	C0: CONCURRENT MAINTENANCE ON CA xx: IN PROGRESS	hhmmss ref code
Cause:	Service personnel entered concurrent maintenance.	
Action:	No action required.	
Action.		

ALARM C2: CONCURRENT MAINTENANCE ON CA xx: CANCELED

hhmmss ref code

Cause: Concurrent maintenance on channel adapter xx is canceled. (Refer to alarm C7.)Action: No action required.

ALARM C3: CONCURRENT MAINTENANCE ON CA xx: REJECTED

hhmmss ref code

Cause: The control program rejected the concurrent maintenance request because of traffic.

Action: Ask the host operator to vary off line the CA.

ALARM C4: CONCURRENT MAINTENANCE: CA xx IS DELETED

hhmmss ref code

Models 210, 310, 410, 610

- Cause: Channel adapter is deleted.
- Action: No action required.

ALARM C5: CONCURRENT MAINTENANCE: CA xx IS INSTALLED

hhmmss ref code

Models 210, 310, 410, 610

Cause: Channel adapter is now installed.

Action: No action required.

ALARM C6: CONCURRENT MAINTENANCE: CA xx IS REPLACED

hhmmss ref code

Models 210, 310, 410, 610

Cause: Channel adapter is replaced.

Cause: No action required.

ALARM C7: CA xx I/O ERROR ALERT: STOP CONCURRENT MAINTENANCE

hhmmss ref code

Models 210, 310, 410, 610

Action: Service representative is requested to cancel concurrent maintenance.

ALARM D0: 3745 IPL COMPLETE CCU-x hhmmss ref code

Action: Reactivate resources if necessary.

ALARM D1: 3745 IPL COMPLETE WITH NON-BLOCKING ERRORS CCU-x hhm

hhmmss ref code

Cause: Non-disruptive errors occurred during the 3745 IPL. The 3745 is running with some restrictions on the channel adapters, the line adapters, the consoles, or the disk.

Action:

Models 130, 150, 160, 170

- A port swap may have been done, use the MOSS PSF function to verify that the addressed lines and ports are still valid.
- · Check the cables and modems.

Models 210, 310, 410, 610

- Check the resources attached to the CCU. A change of those resources may happened for any reason and causes this type of error.
- A port swap followed by a CCU mode change may have been done, use the MOSS PSF function to verify that the addressed lines and ports are still valid.
- Check the cables and modems.
- Look at the power block status (CA, LA, LIC), using the Power Services function (POS). Refer to the 3745 Advanced Operations Guide.
 - If you set a power block down intentionally, do not \square
 - If a power block is not in "up" status (or is not down intentionally), and give the reference code of the related alarm (9D, 9F, or A1) or the reference code of alarm D1 if there is no related alarm.
- If all power blocks are in "up" status, \mathfrak{L} and give reference code.
- If it recurs.

ALARM D2: 3745 IPL FAILED CCU-x

Cause:

- Main storage
- CCU
- MOSS hardware
- Channel adapter
- Controller load/dump program errors.
- A link IPL port was not defined properly. Refer to the MOSS LKP function in the 3745 Advanced Operations Guide.
- A cable may not be attached to the port you defined as link IPL port.
- An IPL performed on a remote controller linked to a local controller by a switched X.21 link, an X.25 (SVC/PVC) link, or a token-ring (a link IPL port is only valid for SDLC or nonswitched X.21 links).

Action:

- In case of a loading problem on channel attached controller:
 Perform IPL again.
- If the problem persists, \mathfrak{D} and give reference code.
- In case of a loading problem on link attached controller:
 - 1. Through a switched/nonswitched SDLC or a nonswitched X.21 link:
 - Check the link IPL port definition. Refer to the MOSS LKP function in the 3745 Advanced Operations Guide.
 - \bigtriangleup and give reference code if not corrected.
 - 2. Through a switched X.21 link, an X.25 (SVC/PVC) link, or a token-ring:
 - An initial loading of the remote controller is required. Refer to 3720/3745 Remote Loading/Activation Guide SA33-0161 for the procedure.

 \mathfrak{O} and give reference code if not corrected.

ALARM D3: ERROR DETECTED ON STANDBY CCU-x

hhmmss ref code

Models 410, 610

Cause: During the 3745 IPL, a blocking error has been detected on the standby CCU. The current IPL is not affected.

Action:

 $oldsymbol{ imes}$ and give reference code.

Models	410, 610	
Cause:	Non-disruptive errors occurred during the IPL of the sta if a fallback occurs, there will be some restrictions on t	-
Action:	and give reference code.	al de la construcción de la constru La construcción de la construcción d
ALARM	E1: CP ERROR: CCU-x CP ABEND xxxx RE-IPL REQUEST	hhmmss ref code
Cause:	Control program	
Action:		
	 Refer to the appropriate control program document code xxxx description. 	ation (NCP or else) for the a
	• Transfer the control program dump to the host and <i>EP Diagnosis Guide.</i>	print it. Refer to the NCP, S
	 Apply the correct software level. 	
	Check for the correct software fix.	
	 If unsuccessful, the software support for NCF the reference code. 	and report the CP abend o
ALARM	E2: MICROCODE ERROR: CCU-x CP ABEND xxxx RE-IPL REQU	EST hhmmss ref code
Cause: Action:	Adapter microcode	
Acaon.		
	 If the problem reoccurs, apply the last microcode and 	id MCF's levels.
	 If the problem reoccurs, apply the last microcode at If the problem persists, the hardware suppor number and the reference code. 	

ALARM E3: HARDWARE ERROR: CCU-x CP ABEND xxxx RE-IPL REQUEST

hhmmss ref code

Cause: Adapter hardware Communications control unit (CCU)

Action:

• If the problem reoccurs, the hardware support for the 3745 and report the alarm number and the reference code.

NetView* Alerts and Systems Network Architecture (SNA) Code Points

This section will help you to understand alert descriptions and recommended actions that apply to the 3745.

Code Points

The description of the code points listed in this section applies to NetView* Release 2 (at the latest service level) or later releases.

If the actual code points are not in the latest service level, some of the code points defined in this section are replaced by default values with a different text. The code point default values used can be determined by referring to the *SNA Formats* manual.

Alert Dynamic - Messages

The alert dynamic information is made up of the alert description and first (or most) probable cause issued via the NMVT.

The alert dynamic message given in this section corresponds to the code points available in NetView* Release 2 (at the latest service level) or later release.

Recommended Actions

Resources Require Activation: A situation has occurred where an adapter has re-IMLed or a controller has re-IPLed (due to backup or recovery) and the attached resources must be re-activated.

Perform Problem Determination Procedure at reporting location for product alert reference code nn: Perform additional actions given under the corresponding alarm number nn, refer to "List of Alarms" on page 1-4

Review Supporting Data at Alert Sender: Use the MOSS ELD function (refer to the 3745 Advanced Operations Guide) to display the different alarms related to a given problem and to report the associated reference code to service representative, when necessary.

Correct Configuration: A mismatch may exist between the hardware and the microcode. This mismatch would be reflected in the configuration data file (CDF). Before new resources are put in operation, a CDF upgrade or update must be done (refer to the *3745 Advanced Operations Guide*).

Subvectors

The subvectors and their code points are hexadecimal values:

- Subvectors X'10', product set ID and X'11', product identifier. Contain:
 - Machine type (always 3745).
 - Machine model (130, 150, 160, 170, 210, 310, 410, or 610).
 - Plant number (two characters).
 - Serial number (seven characters).

- Subvector key X'91', basic alert. Contains the alert type code. This code has three possible values:
 - X'FC', a permanent loss of availability
 - X'FD', an impending loss of availability
 - X'FE', a temporary loss of availability.
- Subvector key X'92', alert description.

Contains the alert ID number. This is a composite code computed from certain of the code point values. It does **not** provides a value by which the entire NMVT can be recognized.

Notes:

- 1. Any change, addition, or deletion of the applicable code point values alters the alert identification number.
- 2. Each NMVT can be uniquely identified only by the product alert reference code (alarm number).
- Subvector key X'93', probable causes.
- Subvector key X'94', user causes. Contains:
 - The cause code points, subfield X'01'.
 - The action code points, subfield X'81'
- Subvector key X'95', installation causes. Contains:
 - The cause code points, subfield X'01'
 - The action code points, subfield X'81'
- Subvector key X'96', failure causes. Contains:
 - The cause code points, subfield X'01'
 - The action code points, subfield X'81'

Each NMVT has at least one subfield X'82' that contains the product alert reference code (alarm number). **Each NMVT can only be uniquely identified by this code.**

Other X'82' subfields contain values, such as reference code, adapter number, and line address range.

These subvectors are listed, by product alert reference code sequence (also known as alarm ID number) on the following pages.

Related NCP and NetView* Publications

You may refer to the manuals listed on page xii for more detailed information.

List of NetView* Alerts

3745 Alert Reference Code 01

Alert Condition: 3745 MOSS has detected a transient error and has recovered.

— MOSS Console Alarm Message –

ALARM 01 : MOSS TRANSIENT ERROR

– NetView* Alert - Dynamic -

Service Subsystem Failure: MOSS

Subvector and Subfield Keys	Code Points	Causes and Actions	
Alert ID Number SV X'92'		X'8F193FC2'	
Alert Type SV X'92'	X'02'	Temporary	
Alert Description	X'1608'	Service Subsystem Failure	
Probable Causes SV X'93'	X'0001'	MOSS	· ·
User Causes SV X'94' SF X'01'	(none)		
Install Causes SV X'95' SF X'01'	(none)		
Failure Causes SV X'96' SF X'01'	X'0001'	MOSS Hardware	
Actions SV X'96' SF X'81'	X'2203' X'3302' X'3000' X'32C0' X'82' SF X'82' SF	Review Supporting data at Alert Sender If problem continues to occur repeatedly then do the following Contact Appropriate Service Representative Report the following: (Reference Code (x'30')) (Product Alert Reference Code (x'F0'))	

Alerts

3745 Alert Reference Code 02

Alert Condition: MOSS has detected a transient error and has recovered. A MOSS dump is available on the disk.

– MOSS Console Alarm Message –

ALARM 02 : MOSS TRANSIENT ERROR - DUMP

– NetView* Alert - Dynamic –

Service Subsystem Failure: MOSS

Subvector and Subfield Keys	Code Points	Causes and Actions
Alert ID Number SV X'92'		X'97F1BD73'
Alert Type SV X'92'	X'02'	Temporary
Alert Description	X'1608'	Service Subsystem Failure
Probable Causes SV X'93'	X'0001'	MOSS
User Causes SV X'94' SF X'01'	(none)	
Install Causes SV X'95' SF X'01'	(none)	
Failure Causes SV X'96' SF X'01'	X'0002' X'0001'	MOSS Microcode MOSS Hardware
Actions SV X'96' SF X'81'	X'0601' X'3302' X'3000' X'32C0'	Transfer and Print MOSS Dump If problem continues to occur repeatedly then do the following Contact Appropriate Service Representative Report the following:
	X'82' SF X'82' SF	(Reference Code (x'30')) (Product Alert Reference Code (x'F0'))

3745 Alert Reference Code 04

Alert Condition: An unrecoverable error has been detected when using the disk drive. The disk adapter is suspected as the cause of the problem.

— MOSS Console Alarm Message —

ALARM 04 : MOSS DISK ADAPTER ERROR

— NetView* Alert - Dynamic —

Disk Failure: Adapter

		<u></u>	
Subvector and Subfield Keys	Code Points	Causes and Actions	
Alert ID Number SV X'92'		X'C0267A27'	
Alert Type SV X'92'	X'01'	Permanent	
Alert Description	X'1311'	Disk Failure	
Probable Causes SV X'93'	X'3300'	Adapter	en e
User Causes SV X'94' SF X'01'	(none)		
Install Causes SV X'95' SF X'01'	(none)		
Failure Causes SV X'96' SF X'01'	X'3303' X'6310' X'0201'	DASD Adapter Disk Drive Internal Power Unit	
Actions SV X'96' SF X'81'	X'F050' X'3000' X'32A0' X'82' SF X'00B1' X'82' SF X'1000'	IPL capabilities limited Contact Appropriate Service Representative Report the following: (Reference Code (x'30')) Perform Problem Determination Procedures at reporting location for (Product Alert Reference Code (x'F0')) Perform Problem Recovery Procedures	

3745 Alert Reference Code 05

Alert Condition: An unrecoverable error has been detected when using the disk drive.

— MOSS Console Alarm Message –

ALARM 05 : MOSS DISK FAILURE

– NetView* Alert - Dynamic -

Disk Failure: DASD Device

Subvector and Subfield Keys	Code Points	Causes and Actions
Alert ID Number SV X'92'		X'A853A927'
Alert Type SV X'92'	X'01'	Permanent
Alert Description SV X'92'	X'1311'	Disk Failure
Probable Causes SV X'93'	X'6310'	DASD Device
User Causes SV X'94' SF X'01'	(none)	
Install Causes SV X'95' SF X'01'	(none)	
Failure Causes SV X'96' SF X'01'	X'6310' X'3303' X'0201'	Disk Drive DASD Adapter Internal Power Unit
Actions SV X'96' SF X'81'	X'F050' X'3000' X'32A0' X'82'SF X'00B1' X'82'SF X'1000'	IPL capabilities limited Contact Appropriaté Service Representative Report the following: (Reference Code (x'30')) Perform Problem Determination Procedures at reporting location for (Product Alert Reference Code (x'F0')) Perform Problem Recovery Procedures

3745 Alert Reference Code 06

Alert Condition: An unrecoverable error has been detected when using the diskette drive.

---- MOSS Console Alarm Message -

ALARM 06 : MOSS DISKETTE FAILURE

– NetView* Alert - Dynamic -

Diskette Device Failure: Diskette

Subvector and Subfield Keys	Code Points	Causes and Actions	· · · · · · · · · · · · · · · · · · ·
Alert ID Number SV X'92'	-	X'BDAD5681'	
Alert Type SV X'92'	X'01'	Permanent	-
Alert Description SV X'92'	X'1321'	Diskette Device Failure	
Probable Causes SV X'93'	X'5002' X'6311'	Diskette Diskette Device	
User Causes SV X'94' SF X'01'	X'5102' X'5101'	No Diskette or Defective Diskette Inserted Improper Diskette Inserted	
Actions SV X'94' SF X'81'	X'1603' X'1602' X'1001'	Change Diskette and Retry Place Backup Diskette in Drive Refer to Operator's Guide for corrective action	
Install Causes SV X'95' SF X'01'	(none)		
Failure Causes SV X'96' SF X'01'	X'5002' X'6311' X'0201' X'3306'	Diskette Diskette Drive Internal Power Unit Diskette Adapter	
Actions SV X'96' SF X'81'	X'F051' X'3000' X'32C0' X'82' SF X'82' SF	No IPL capabilities Contact Appropriate Service Representative Report the following: (Reference Code (x'30')) (Product Alert Reference Code (x'F0'))	

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Alert Condition: An unrecoverable error has been detected when using the diskette drive. The diskette drive adapter is suspected as the cause of the problem.

- MOSS Console Alarm Message -

ALARM 07 : MOSS DISKETTE ADAPTER ERROR

— NetView* Alert - Dynamic -

Diskette Device Failure: Adapter

Subvector and Subfield Keys	Code Points	Causes and Actions
Alert ID Number SV X'92'		X'7334D285'
Alert Type SV X'92'	X'01'	Permanent
Alert Description SV X'92'	X'1321'	Diskette Device Failure
Probable Causes SV X'93'	X'3300'	Adapter
User Causes SV X'94' SF X'01'	(none)	
Install Causes SV X'95' SF X'01'	(none)	
Failure Causes SV X'96' SF X'01'	X'3306' X'6311' X'5002'	Diskette Adapter Diskette Drive Diskette
Actions SV X'96' SF X'81'	X'F051' X'1602' X'1001' X'3301' X'3000' X'32C0' X'82' SF X'82' SF	No IPL capabilities Place Backup Diskette in Drive Refer to Operator's Guide for corrective action If problem persists then do the following : Contact Appropriate Service Representative Report the following: (Reference Code (x'30')) (Product Alert Reference Code (x'F0'))

Alert Condition: A permanent error has been detected by the power subsystem during operation with the 3745 control panel.

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– MOSS Console Alarm Message –

ALARM 08 : MOSS CONTROL PANEL ERROR

— NetView* Alert - Dynamic —

Device Error: Control Panel

Subvector and Subfield Keys	Code Points	Causes and Actions
Alert ID Number SV X'92'		X'BDD88DEA'
Alert Type SV X'92'	X'01'	Permanent
Alert Description SV X'92'	X'1002'	Device Error
Probable Causes SV X'93'	X'0004'	Control Panel
User Causes SV X'94′ SF X'01′	(none)	
Install Causes SV X'95' SF X'01'	(none)	
Failure Causes SV X'96' SF X'01'	X'0004' X'0202' X'3451'	Control Panel Internal Power Control Unit Device Cable
Actions SV X′96′ SF X′81′	X'3000' X'32C0' X'82' SF X'82' SF	Contact Appropriate Service Representative Report the following: (Reference Code (x'30')) (Product Alert Reference Code (x'F0'))

3745 Alert Reference Code 09

Alert Condition: A MOSS IML has been completed successfully. The IML may have been initiated manually or as the result of an automatic error recovery. During this IML, the NCP may have determined that the MOSS was inoperative and sent an alert to the network operator.

MOSS Console Alarm Message -

ALARM 09 : MOSS IML COMPLETE

– NetView* Alert - Dynamic -

Problem Resolved: MOSS

Subvector and Subfield Keys	Code Points	Causes and Actions
Alert ID Number SV X'92'		X'68A3D7C4'
Alert Type SV X'92'	X'02'	Temporary
Alert Description SV X'92'	X'A000'	Problem Resolved
Probable Causes SV X'93'	X'0001'	MOSS
User Causes SV X'94' SF X'01'	X'7000'	Operator
Actions SV X'94' SF X'81'	X'0700'	No Action Necessary
Install Causes SV X'95' SF X'01'	(none)	
Failure Causes SV X'96' SF X'01'	X'0001' X'0002'	MOSS Hardware MOSS Microcode
Actions SV X'96' SF X'81'	X'3302' X'00B1' X'82' SF	If problem continues to occur repeatedly then do the following Perform Problem Determination Procedure at reporting location for (Product Alert Reference Code (x'F0'))

Alert Condition: An unrecoverable error was detected by MOSS microcode when in use with the local console. The MOSS is suspected as the cause of the problem.

– MOSS Console Alarm Message –

ALARM 0A : MOSS-TO-LOCAL CONSOLE TRANSMISSION ERROR

– NetView* Alert - Dynamic -

Local Console Error: MOSS

Subvector and Subfield Keys	Code Points	Causes and Actions		
Alert ID Number SV X'92'		X'BD7C213F'		
Alert Type SV X'92'	X'01'	Permanent	e	
Alert Description	X'1301'	Local Console Error	tin y e	
Probable Causes SV X'93'	X'0001' X'6315'	MOSS Console		
User Causes SV X'94' SF X'01'	(none)			
Install Causes SV X'95' SF X'01'	(none)			
Failure Causes SV X'96' SF X'01'	X'330E' X'3400' X'6350'	Console Adapter Cable Loose or Defective Local Console		
Actions SV X'96' SF X'81'	X'0301' X'0401' X'0402' X'3303' X'3000' X'32C0' X'82' SF X'82' SF	Check Cable and its connections Run Console Test Run Console Link Test If unsuccessful then do the following Contact Appropriate Service Representativ Report the following: (Reference Code (x'30')) (Product Alert Reference Code (x'F0'))	/e	

3745 Alert Reference Code 0B

Alert Condition: An unrecoverable error was detected by MOSS microcode when in use with the local console. The console is suspected as the cause of the problem.

— MOSS Console Alarm Message ——

ALARM 0B : LOCAL CONSOLE ERROR

— NetView* Alert - Dynamic -

Local Console Error: Console

Subvector and Subfield Keys	Code Points	Causes and Actions
Alert ID Number SV X'92'		X'CB7B9688'
Alert Type SV X'92'	X'01'	Permanent
Alert Description SV X'92'	X'1301'	Local Console Error
Probable Causes SV X'93'	X'6315' X'0001'	Console MOSS
User Causes SV X'94' SF X'01'	(none)	
Install Causes SV X'95' SF X'01'	(none)	
Failure Causes SV X'96' SF X'01'	X'6350' X'3400' X'330E'	Local Console Cable Loose or Defective Console Adapter
Actions SV X'96' SF X'81'	X'0301' X'0401' X'0402' X'3303' X'3000' X'32C0' X'82' SF X'82' SF	Check Cable and its connections Run Console Test Run Console Link Test If unsuccessful then do the following Contact Appropriate Service Representative Report the following: (Reference Code (x'30')) (Product Alert Reference Code (x'F0'))

Alert Condition: An unrecoverable error was detected by MOSS microcode when in use with the remote console. The cause of the problem is probably the 3745 transmission, but may be the remote console, modem, or line.

— MOSS Console Alarm Message –

ALARM 0C : MOSS-TO-REMOTE CONSOLE TRANSMISSION ERROR

– NetView* Alert - Dynamic -

Remote Console Error: MOSS

Subvector and Subfield Keys	Code Points	Causes and Actions
Alert ID Number SV X'92'		X'FAF7B218'
Alert Type SV X'92'	X'01'	Permanent
Alert Description SV X'92'	X'1302'	Remote Console Error
Probable Causes SV X'93'	X'0001' X'3601'	MOSS Local Modem
User Causes SV X'94' SF X'01'	(none)	
Install Causes SV X'95' SF X'01'	X'1202' X'3401' X'1200'	Local Modem Local DCE Interface Cable Installed Incorrectly Incorrect Hardware Configuration
Actions SV X'95' SF X'81'	X'0301' X'3100' X'1503'	Check Cable and its Connections Contact Administrative Personnel Correct Configuration
Failure Causes SV X'96' SF X'01'	X'330E' X'3401' X'3601'	Console Adapter Local DCE interface Cable Local Modem
Actions SV X′96′ SF X′81′	X'0301' X'0403' X'0402' X'3303' X'3000' X'32C0' X'82' SF X'82' SF	Check Cable and its connections Run Modem Tests Run Console Link Test If unsuccessful then do the following Contact Appropriate Service Representative Report the following: (Reference Code (x'30')) (Product Alert Reference Code (x'F0'))

3745 Alert Reference Code 0D

Alert Condition: An unrecoverable error was detected by MOSS microcode when in use with the remote console. The line, remote modem, and console are suspected as the cause of the problem.

-- MOSS Console Alarm Message -

ALARM 0D : REMOTE CONSOLE ERROR

– NetView* Alert - Dynamic

Remote Console Error: Communications Interface

Subvector and Subfield Keys	Code Points	Causes and Actions
Alert ID Number SV X'92'		X'32B2CB83'
Alert Type SV X'92'	X'01'	Permanent
Alert Description SV X'92'	X'1302'	Remote Console Error
Probable Causes SV X'93'	X'3200'	Communications Interface
User Causes SV X'94' SF X'01'	(none)	
Install Causes SV X'95' SF X'01'	X'1203' X'3403' X'1202' X'3401' X'1200'	Remote Modem Remote DCE Interface Cable Installed Incorrectly Local Modem Local DCE Interface Cable Installed Incorrectly Incorrect Hardware Configuration
Actions SV X'95' SF X'81'	X'0302' X'3100' X'1503'	Check Cables and their Connections Contact Administrative Personnel Correct Configuration
Failure Causes SV X'96' SF X'01'	X'3603' X'6351' X'3403' X'3401' X'3601' X'330E'	Remote Modem Remote Console Remote DCE interface Cable Local DCE interface Cable Local Modem Čonsole Adapter

Subvector and Subfield Keys	Code Points	Causes and Actions
Actions SV X'96' SF X'81'	X'0302' X'0401' X'0403' X'0402' X'3303' X'3000' X'32C0' X'82' SF X'82' SF	Check Cables and their connections Run Console Tests Run Modem Tests Run Console Link Test If unsuccessful then do the following Contact Appropriate Service Representative Report the following: (Reference Code (x'30')) (Product Alert Reference Code (x'F0'))

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Alert Condition: An unrecoverable error was detected by MOSS microcode when in use with the remote support facility (RSF). Do not consider this alert if it is detected after a normal RSF console log off.

– MOSS Console Alarm Message –

ALARM 0E : MOSS-TO-RSF CONSOLE TRANSMISSION ERROR

– NetView* Alert - Dynamic –

Rem Support Facility Link Error: Communications Intf

(Remote Support Facility Link Error: Communications Interface)

Subvector and Subfield Keys	Code Points	Causes and Actions
Alert ID Number SV X'92'		X'DB50005C'
Alert Type SV X'92'	X'01'	Permanent
Alert Description SV X'92'	X'3301'	Remote Support Facility Link Error
Probable Causes SV X'93'	X'3200'	Communications Interface
User Causes SV X'94' SF X'01'	(none)	
Install Causes SV X'95' SF X'01'	X'1202' X'3401' X'1200'	Local Modem Local DCE Interface Cable Installed Incorrectly Incorrect Hardware Configuration
Actions SV X'95' SF X'81'	X'0301' X'3100' X'1503'	Check Cable and its Connections Contact Administrative Personnel Correct Configuration
Failure Causes SV X'96' SF X'01'	X'2000' X'330E' X'3401' X'3601'	Communications Error Console Adapter Local DCE interface Cable Local Modem
Actions SV X'96' SF X'81'	X'0301' X'0403' X'0402' X'3303' X'3000' X'32C0' X'82' SF X'82' SF	Check Cable and its connections Run Modem Tests Run Console Link Test If unsuccessful then do the following Contact Appropriate Service Representative Report the following: (Reference Code (x'30')) (Product Alert Reference Code (x'F0'))

3745 Alert Reference Code 0F

Alert Condition: A MOSS IML has been completed, and minor errors were detected during the IML. The errors detected do not disrupt the operation of the 3745. During this IML, the NCP may have determined that the MOSS was inoperative and sent an alert to the network operator.

- MOSS Console Alarm Message -

ALARM OF : MOSS IML COMPLETE WITH NON-BLOCKING ERRORS

NetView* Alert - Dynamic -

Problem Resolved: MOSS

Subvector and Subfield Keys	Code Points	Causes and Actions
Alert ID Number SV X'92'		X'68A3D7C4'
Alert Type SV X'92'	X'02'	Temporary
Alert Description	X'A000'	Problem Resolved
Probable Causes SV X'93'	X'0001'	MOSS
User Causes SV X'94' SF X'01'	X'7000'	Operator
Actions SV X'94' SF X'81'	X'0700'	No Action Necessary
Install Causes SV X'95' SF X'01'	(none)	
Failure Causes SV X'96' SF X'01'	X'0001' X'0002'	MOSS Hardware MOSS Microcode
Actions SV X'96' SF X'81'	X'3302' X'3000' X'32C0' X'82' SF X'82' SF	If problem continues to occur repeatedly then do the following Contact Appropriate Service Representative Report the following: (Reference Code (x'30')) (Product Alert Reference Code (x'F0'))

Alert Condition: MOSS microcode has detected too many unsuccessful attempts to log on at the remote console. New attempts to access the MOSS through the remote console port are ignored until the counter for logon attempts from the remote console is reset from the local console.

- MOSS Console Alarm Message -

ALARM 10 : REMOTE CONSOLE PASSWORD VIOLATION

- NetView* Alert - Dynamic

Invalid Password: Remote System Operator

Subvector and Subfield Keys	Code Points	Causes and Actions
Alert ID Number SV X'92'		X'6F59C966'
Alert Type SV X'92'	X'01'	Permanent
Alert Description SV X'92'	X'C006'	Invalid Password
Probable Causes SV X'93'	X'7002'	Remote System Operator
User Causes SV X'94' SF X'01'	X'7108'	Operator entered incorrect password
Actions SV X′94′ SF X′81′	X'3100' X'00B1' X'82' SF X'1001'	Contact Administrative Personnel Perform Problem Determination Procedures at reporting location for : (Product Alert Reference Code (x'F0')) Refer to 3745 Advanced Operations Guide for Corrective Action
Install Causes SV X'95' SF X'01'	(none)	
Failure Causes SV X'96' SF X'01'	(none)	

Alert Condition: The CCU was automatically re-IPLed after the detection of a transient CCU hardware error. The IPL was successful and the related resources can be re-activated. No dump of the failure is available on the disk.

– MOSS Console Alarm Message –

ALARM 20 : TRANSIENT HARD ERROR: CCU-x RE-IPLED - NO DUMP

– NetView* Alert - Dynamic -

Resources Req Activation: Communication Ctrl

(Resources Require Activation: Communication Controller)

Subvector and Subfield Keys	Code Points	Causes and Actions
Alert ID Number SV X'92'		X'562B3A60'
Alert Type SV X'92'	X'01'	Permanent
Alert Description SV X'92'	X'B004'	Resources Require Activation
Probable Causes SV X'93'	X'3111'	Communication Controller
User Causes SV X'94' SF X'01'	(none)	
Install Causes SV X'95' SF X'01'	(none)	
Failure Causes SV X'96' SF X'01'	X'0000' X'0101'	Processor Main Storage
Actions SV X′96′ SF X′81′	X'13A1' X'82' SF X'00B1' X'82' SF X'2203'	Reactivate resources attached to (Communication Control Unit (x'34')) Perform Problem Determination Procedure at reporting location for (Product Alert Reference Code (x'F0')) Review supporting data at Alert sender

MOSS Console Alarm message

Alert Condition: A CCU failure occurred in twin-standby mode. All resources of the failed CCU have been switched to the standby CCU. Fallback to the standby CCU and IPL of the standby CCU have been completed successfully. The resources are ready for activation.

			•				
ALARM 21 :	HARDWARE	ERROR :	FALLBACK	AND IPL	COMPLETE	ON	CCU-x

Models 410, 610

NetView* Alert - Dynamic -

Resources REQ Activation: COMM Controller BKUP

Subvector and Subfield Keys	Code Points	Causes and Actions
Alert ID Number SV X'92'		X'23D786C9'
Alert Type SV X'92'	X'01'	Permanent
Alert Description SV X'92'	X'B004'	Resources Require Activation
Probable Causes SV X'93'	X'3110'	Communication Controller Back-up
User Causes SV X'94' SF X'01'	(none)	
Install Causes SV X'95' SF X'01'	(none)	
Failure Causes SV X'96' SF X'01'	X'3110'	Communication Controller Back-Up
Actions SV X′96′ SF X′81′	X'13A1' X'82' SF X'00B1' X'82' SF X'2203'	Reactivate resources attached to (Communication Control Unit (x'34')) Perform Problem Determination Procedure at reporting location for (Product Alert Reference Code (x'F0')) Review supporting data at Alert Sender

Alert Condition: A CCU failure resulted in an attempted fallback. In twin-backup mode, the fallback operation failed.

— MOSS Console Alarm message —

ALARM 22 : HARDWARE ERROR : CCU-x FALLBACK OR IPL FAILED

Models 410, 610

— NetView* Alert - Dynamic –

Device Error: COMM Controller BKUP

Subvector and Subfield Keys	Code Points	Causes and Actions
Alert ID Number SV X'92'		X'7E55493A'
Alert Type SV X'92'	X'01'	Permanent
Alert Description SV X'92'	X'1002'	Device Error
Probable Causes SV X'93'	X'3110' X'0003'	Communication Controller Back-up Processor Switch
User Causes SV X'94' SF X'01'	(none)	
Install Causes SV X'95' SF X'01'	(none)	
Failure Causes SV X'96' SF X'01'	X'0003' X'3300'	Processor Switch Adapter
Actions SV X′96′ SF X′81′	X'3000' X'32C0' X'82' SF X'82' SF X'00B1' X'82' SF	Contact appropriate Service Representative Report the following: (Communication Control Unit (x'34')) (Reference Code (x'30')) Perform Problem Determination Procedure at reporting location for (Product Alert Reference Code (x'F0')) Review supporting data at-Alert Sender

Alert Condition: A CCU failure occurred in twin-backup mode. All resources of the failed CCU have been switched to the backup CCU. Fallback to the backup CCU has been completed successfully. The resources are ready for activation.

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— MOSS Console Alarm message —

ALARM 23 : HARDWARE ERROR : FALLBACK COMPLETE ON CCU-x

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Models 410, 610

NetView* Alert - Dynamic —

Resources REQ Activation: COMM Controller BKUP

Subvector and Subfield Keys	Code Points	Causes and Actions
Alert ID Number SV X'92'	· .	X'23D786C9'
Alert Type SV X'92'	X'01'	Permanent
Alert Description	X'B004'	Resources Require Activation
Probable Causes SV X'93'	X'3110'	Communication Controller Back-up
User Causes SV X'94' SF X'01'	(none)	
Install Causes SV X'95' SF X'01'	(none)	
Failure Causes SV X'96' SF X'01'	X'3110'	Communication Controller Back-Up
Actions SV X′96′ SF X′81′	X'13A1' X'82' SF X'00B1' X'82' SF X'2203'	Reactivate resources attached to (Communication Control Unit (x'34')) Perform Problem Determination Procedure at reporting location for (Product Alert Reference Code (x'F0')) Review supporting data at Alert Sender

Alert Condition: After a CCU failure, all resources of the failed CCU have been switched to the second CCU. During the fallback operation, either a minor error was detected in the bus switch or a line or channel adapter could not be put into operational mode.

 MOSS	Console	Alarm message	 	<u> </u>

ALARM 26 : HARD ERROR: CCU-x FBK OR IPL COMPLETE WITH ERROR(S)

Models 410, 610

- NetView* Alert - Dynamic

Resources REQ Activation: COMM Controller BKUP

Subvector and Subfield Keys	Code Points	Causes and Actions
Alert ID Number SV X'92'		X'68F03B79'
Alert Type SV X'92'	X'01'	Permanent
Alert Description	X'B004'	Resources Require Activation
Probable Causes SV X'93'	X'3110'	Communication Controller Back-up
User Causes SV X'94' SF X'01'	(none)	
Install Causes SV X'95' SF X'01'	(none)	
Failure Causes SV X'96' SF X'01'	X'3110' X'0003' X'3300'	Communication Controller Back-Up Processor Switch Adapter
Actions SV X'96' SF X'81'	X'13A1' X'82' SF X'3000' X'32A0' X'82' SF X'00B1' X'82' SF X'2203'	Reactivate resources attached to (Communication Control Unit (x'34')) Contact appropriate Service Representative Report the following: (Reference Code (x'30')) Perform Problem Determination Procedure at the reporting location for (Product Alert Reference Code (x'F0')) Review supporting data at Alert Sender

3745 Alert Reference Code 27

Alert Condition: A CCU hardware error was detected, causing an automatic control program dump and re-IPL of the failing CCU. The CCU re-IPL has been successful and the related resources can be re-activated. The control program dump is available on the disk.

— MOSS Console Alarm Message -

ALARM 27 : HARDWARE ERROR : CCU-x RE-IPL COMPLETE - DUMP

- NetView* Alert - Dynamic -

Resources Req Activation: Communication Ctrl

(Resources Require Activation: Communication Controller)

Subvector and Subfield Keys	Code Points	Causes and Actions
Alert ID Number SV X'92'	<u>.</u>	X'D7DB2CFD'
Alert Type SV X'92'	X'01'	Permanent
Alert Description SV X'92'	X'B004'	Resources Require Activation
Probable Causes SV X'93'	X'3111'	Communication Controller
User Causes SV X'94' SF X'01'	(none)	
Install Causes SV X'95' SF X'01'	(none)	
Failure Causes SV X'96' SF X'01'	X'0000' X'0101' X'1021'	Processor Main Storage Communication Controller Control Program
Actions SV X'96′ SF X'81′	X'13A1' X'82' SF X'0602' X'3300' X'00B1' X'82' SF X'2203' X'3000'	Reactivate resources attached to (Communication Control Unit (x'34')) Transfer and Print Control Program Dump If problem re-occurs then do the following Perform Problem Determination Procedure at reporting location for (Product Alert Reference Code (x'F0')) Review supporting data at Alert Sender Contact Appropriate Service Representative

1-72 IBM 3745 Communication Controller: Problem Determination Guide

Alert Condition: A CCU hardware error was detected, causing an automatic control program dump and re-IPL of the standby CCU. The CCU re-IPL has been successful and the related resources can be re-activated. The control program dump is available on the disk.

- MOSS Console Alarm Message –

ALARM 28 : HARDWARE ERROR : CCU-x STANDBY RE-IPL COMPLETE - DUMP

Models 410, 610

NetView* Alert - Dynamic -

Resources Req Activation: Communication Ctrl

(Resources Require Activation: Communication Controller)

Subvector and Subfield Keys	Code Points	Causes and Actions
Alert ID Number SV X'92'		X'06AC0B95'
Alert Type SV X'92'	X'01'	Permanent
Alert Description SV X'92'	X'B000'	Operator Notification
Probable Causes SV X'93'	X'3110'	Communication Controller Back-up
User Causes SV X'94' SF X'01'	(none)	
Install Causes SV X'95' SF X'01'	(none)	
Failure Causes SV X'96' SF X'01'	X'3111' X'1021'	Communication Controller Communication Controller Control Program
Actions SV X'96' SF X'81'	X'0602' X'3302' X'3000' X'F0A0' X'82' SF X'00B1' X'82' SF X'2203'	Transfer and Print Control Program Dump If problem continues to occur repeatedly then do the following Contact Appropriate Service Representative For: (Communication Control Unit (x'34')) Perform Problem Determination Procedure at reporting location for (Product Alert Reference Code (x'F0')) '28' Review supporting data at Alert Sender

3745 Alert Reference Code 29

Alert Condition: An error was detected by the control program, causing an automatic control program dump and re-IPL of the standby CCU. The CCU re-IPL has been successful and the related resources can be re-activated. The control program dump is available on the disk.

— MOSS Console Alarm Message —

ALARM 29 : CP ERROR XXXX CCU-X STANDBY RE-IPL COMPLETE - DUMP

Models 410, 610

— NetView* Alert - Dynamic -

Resources Req Activation: Communication Ctrl

(Resources Require Activation: Communication Controller)

Subvector and Subfield Keys	Code Points	Causes and Actions
Alert ID Number SV X'92'		X'74F7147C'
Alert Type SV X'92'	X'01'	Permanent
Alert Description SV X'92'	X'B000'	Operator Notification
Probable Causes SV X'93'	X'3110'	Communication Controller Back-up
User Causes SV X'94' SF X'01'	(none)	
Install Causes SV X'95' SF X'01'	(none)	
Failure Causes SV X'96' SF X'01'	X'1021' X'3111' X'3300'	Communication Control Program Communication Controller Adapter
Actions SV X'96' SF X'81'	X'0602' X'3302' X'32C0' X'82' SF X'82' SF X'00B1' X'82' SF X'2203'	Transfer and Print Control Program Dump If problem continues to occur repeatedly then do the following Contact Appropriate Service Representative Report the following: (Abend Code (x'01')) (Communication Control Unit (x'34')) Perform Problem Determination Procedure at reporting location for (Product Alert Reference Code (x'F0')) '29' Review supporting data at Alert Sender

Alert Condition: An error was detected at IPL time which prevented the adapter from being operational after IPL completion.

— MOSS Console Alarm Message —

ALARM 2F : HARDWARE ERROR: ELAyy (PORT 1-2) IML FAILED

- NetView* Alert - Dynamic -

Adapter Error: Local CSMA/CD Adapter

Subvector and Subfield Keys	Code Points	Causes and Actions	
Alert ID Number SV X'92'		X'FDA9DED9'	
Alert Type SV X'92'	X'01'	Permanent	
Alert Description	X'1010'	Adapter error	· · · · · · · · · · · · · · · · · · ·
Probable Causes SV X'93'	X'3322'	Local CSMA/CD adapter	
User Causes SV X'94' SF X'01'	(none)		
Install Causes SV X'95' SF X'01'	X'1500'	Mismatch between hardware and microcode	
Actions SV X'95' SF X'81'	X'1503'	Correct configuration	
Failure Causes SV X'96' SF X'01'	X'3322' X'0201'	Local CSMA/CD adapter Internal power unit	
Actions SV X'96' SF X'81'	X'0200' X'3000' X'F0A0' X'82' SF X'32C0' X'82' SF X'82' SF X'00B1' X'82' SF X'2203'	Check power Contact Appropriate Service Representative for (Controller ID (x'69')) '3745' Report the following: (Adapter number (x'61')) 'yy' (Reference Code (x'30')) Perform Problem Determination Procedure at reporting location for (Product Alert Reference Code (x'F0')) '2F' Review supporting data at Alert Sender	

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3745 Alert Reference Code 30

Alert Condition: The control program tried to address an adapter which is not attached or connected through the I/O swich mechanism based on the current CCU operating mode (for example: dual or fallback mode).

- MOSS Console Alarm Message -

ALARM 30 : CCU-x CP ERROR: ELAyy NOT ATTACHED

- NetView* Alert - Dynamic -

Prog parameter is invalid: Comm ctrl cntl pgm

(Program parameter is incorrect: Communication controller control program)

Subvector and Subfield Keys	Code Points	Causes and Actions
Alert ID Number SV X'92'		X'72C201B3'
Alert Type SV.X'92'	X'01'	Permanent
Alert Description	X'2105'	Program parameter is incorrect
Probable Causes SV X'93'	X'1021'	Communication controller control program
User Causes SV X'94' SF X'01'	(none)	
Install Causes SV X'95' SF X'01'	(none)	
Failure Causes SV X'96' SF X'01'	X'1021'	Communication controller control program
Actions SV X'96' SF X'81'	X'3302' X'0610' X'F0A0' X'82'SF X'3000' X'F0A0' X'82'SF X'32C0' X'82'SF	If problem continues to occur repeatedly then do the following: Dump control program For: (Communication Control Unit (x'34')) Contact appropriate service representative For: (Control program (X'AF')) 'NCP' Report the following: (Reference code (X'30'))
· · · · · ·	X'82' SF	(Product alert reference code (X'F0')) '30'

Alert Condition: The control program has sent a command which violates the defined exchanged protocol with adapter microcode.

The affected line/port is put in down state but can be reactivated to try to recover.

— MOSS Console Alarm Message —

ALARM 31 : CP COMMAND REJECTED: PORTx ELAyy DOWN

– NetView* Alert - Dynamic ——

Program procedure is invalid: Local CSMA/CD adapter

Subvector and Subfield Keys	Code Points	Causes and Actions	
Alert ID Number SV X'92'		X'42E13F06'	· · · · · · · · · · · · · · · · · · ·
Alert Type SV X'92'	X'01'	Permanent	
Alert Description SV X'92'	X'2101'	Program procedure is incorrect	
Probable Causes SV X'93'	X'3322' X'1021'	Local CSMA/CD adapter Communication controller control program	
User Causes SV X'94' SF X'01'	(none)		
Install Causes SV X'95' SF X'01'	(none)		
Failure Causes SV X'96' SF X'01'	X'1021'	Communication controller control program	
Actions SV X'96' SF X'81'	X'1504' X'14A2' X'82' SF X'F0A0' X'82' SF X'3300' X'0501' X'0610' X'3000' X'F0A0' X'F0A0' X'82' SF X'32C0' X'82' SF X'82' SF	Apply correct software level Activate (Port number (x'60')) For (Adapter number (x'61')) If problem reoccurs then do the following: Run communication line data trace Dump control program Contact appropriate service representative For: (Control program (x'AF')) 'NCP' Report the following: (Reference code (x'30')) (Product alert reference code (x'F0')) '31'	

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Alert Condition: The control program sent to the adapter either an invalid I/O instruction or a new command when previous one was still in progress.

The control program was not fast enough to service adapter interrupt requests (overrun).

Automatic adapter re-IML and restart is attempted.

– MOSS Console Alarm Message –

ALARM 32 : CP ERROR: ELAyy (PORT 1-2) RE-IML IN PROGRESS

— NetView* Alert - Dynamic –

Software program error: Local CSMA/CD adapter

Subvector and	Code	Causes and Actions
Subfield Keys	Points	
Alert ID Number SV X'92'		X 'AA456903 '
Alert Type SV X'92'	X'01'	Permanent
Alert Description	X'2100'	Software program error
Probable Causes	X'3322' X'1021'	Local CSMA/CD adapter Communication controller control program
User Causes SV X'94' SF X'01'	(none)	
Install Causes SV X'95' SF X'01'	(none)	
Failure Causes SV X'96' SF X'01'	X'1021'	Communication controller control program
Actions SV X'96' SF X'81'	X'3400' X'3300' X'1504' X'3301' X'F0A0' X'82' SF X'0501' X'0610' X'3000' X'F0A0' X'82' SF X'32C0' X'82' SF X'82' SF	Wait for additional message before taking action If problem reoccurs then do the following: Apply correct software level If problem persists then do the following: For: (Adapter number (x'61')) 'yy' Run communication line data trace Dump control program Contact appropriate service representative For: (Control program (x'AF')) 'NCP' Report the following: (Reference code (x'30')) (Product alert reference code (x'F0')) '32'

Alert Condition: The adapter re-IML is successfully completed after a detected control program error requiring complete adapter resource re-initialization

Resources associated to the adapter can be re-activated.

— MOSS Console Alarm Message –

ALARM 33 : CP ERROR: ELAyy (PORT 1-2) RE-IML COMPLETE

--- NetView* Alert - Dynamic -

Resources req activation: Local CSMA/CD adapter

(Resources require activation: Local CSMA/CD adapter)

Subvector and Subfield Keys	Code Points	Causes and Actions
Alert ID Number SV X'92'		X'409FB37A'
Alert Type SV X'92'	X'01'	Permanent
Alert Description SV X'92'	X'B004'	Resources require activation
Probable Causes SV X'93'	X'3322' X'1021'	Local CSMA/CD adapter Communication controller control program
User Causes SV X′94′ SF X′01′	(none)	
Install Causes SV X'95' SF X'01'	(none)	
Failure Causes SV X'96' SF X'01'	X'1021'	Communication controller control program
Actions SV X'96' SF X'81'	X'13A1' X'82' SF X'3300' X'1504' X'3301' X'0501' X'0610' X'3000' X'F0A0' X'82' SF X'00B1' X'82' SF	Activate resources attached to: (Adapter number (x'61')) 'yy' If problem reoccurs then do the following: Apply correct software level If problem persists then do the following: Run communication line data trace Dump control program Contact appropriate service representative For: (Control program (x'AF')) 'NCP' Perform problem determination procedure at the reporting location for: (Product alert reference code (x'F0')) '33'

Alert Condition: An automatic adapter re-IML is attempted after a detected hardware malfunction requiring complete adapter re-initialization to try to recover.

– MOSS Console Alarm Message -

ALARM 34 : HARDWARE ERROR: ELAyy (PORT 1-2) RE-IML IN PROGRESS

- NetView* Alert - Dynamic -

Adapter error: Local CSMA/CD adapter

Subvector and Subfield Keys	Code Points	Causes and Actions
Alert ID Number SV X'92'		X ' D2E24978 '
Alert Type SV X'92'	X'01'	Permanent
Alert Description SV X'92'	X'1010'	Adapter error
Probable Causes SV X'93'	X'3322'	Local CSMA/CD adapter
User Causes SV X'94' SF X'01'	(none)	
Install Causes SV X'95' SF X'01'	(none)	
Failure Causes SV X'96' SF X'01'	X'3322'	Local CSMA/CD adapter
Actions SV X'96' SF X'81'	X'3400' X'3301' X'3000' X'F0A0' X'82' SF X'32D0' X'82' SF X'82' SF X'82' SF	Wait for additional message before taking action If problem persists then do the following: Contact appropriate service representative For: (Controller ID (x'69')) '3745' Report the following: (Adapter number (x'61')) 'yy' (Reference code (x'30')) (Product alert reference code (x'F0')) '34'

Alert Condition: The adapter re-IML is successfully completed after a detected hardware malfunction requiring complete adapter re-initialization as an attempt to recover.

The hardware error was intermittent and resources associated to the adapter can be re-activated.

— MOSS Console Alarm Message –

ALARM 35 : TRANSIENT HDW ERROR: ELAyy (PORT 1-2) RE-IML COMPLETE

NetView* Alert - Dynamic -

Resources req activation: Local CSMA/CD adapter

(Resources require activation: Local CSMA/CD adapter)

Subvector and Subfield Keys	Code Points	Causes and Actions
Alert ID Number SV X'92'		X '937A765D '
Alert Type SV X'92'	X'01'	Permanent
Alert Description SV X'92'	X'B004'	Resources require activation
Probable Causes SV X'93'	X'3322'	Local CSMA/CD adapter
User Causes SV X'94' SF X'01'	(none)	
Install Causes SV X'95' SF X'01'	(none)	
Failure Causes SV X'96' SF X'01'	X'3322'	Local CSMA/CD adapter
Actions SV X'96' SF X'81'	X'13A1' X'82' SF X'3302' X'3000' X'F0A0' X'82' SF X'32C0' X'82' SF X'82' SF	Activate resources attached to: (Adapter number (x'61')) 'yy' If problem continues to occur repeatedly then do the following: Contact appropriate service representative For: (Controller ID (x'69')) '3745' Report the following: (Reference code (X'30')) 'B1058505' (Product alert reference code (x'F0')) '35'

Alert Condition: The adapter re-IML is successful after a detected hardware malfunction requiring complete adapter re-initialization as an attempt to recover.

The hardware error is permanent and resources associated to the adapter cannot be re-activated.

– MOSS Console Alarm Message –

ALARM 36 : PERMANENT HDW ERROR: ELAyy (PORT 1-2) RE-IML FAILED

NetView* Alert - Dynamic ------

Adapter error: Local CSMA/CD adapter

Subvector and Subfield Keys	Code Points	Causes and Actions
Alert ID Number SV X'92'		X'81CB1CD5'
Alert Type SV X'92'	X'01'	Permanent
Alert Description SV X'92'	X'1010'	Adapter error
Probable Causes SV X'93'	X'3322' X'3330'	Local CSMA/CD adapter Adapter hardware
User Causes SV X'94' SF X'01'	(none)	
Install Causes SV X'95' SF X'01'	(none)	
Failure Causes SV X'96' SF X'01'	X'3322'	Local CSMA/CD adapter
Actions SV X'96' SF X'81'	X'3000' X'F0A0' X'82' SF X'32D0' X'82' SF X'82' SF X'82' SF	Contact appropriate service representative for: (Controller ID (x'69')) '3745' Report the following: (Adapter number (x'61')) 'yy' (Reference code (X'30')) 'B1058506' (Product alert reference code (x'F0')) '36'

Alert Condition: A storage protect or an address exception error occurred during a direct memory access (DMA) operation with the CCU.

The control program is highly suspected to have provided an incorrect address to the adapter at the initialization time. It can be due to either a CP design error or a bad CP SYSDEF/SYSGEN (for example: a bad usage tier key).

The affected port/line is put in down state.

— MOSS Console Alarm Message —

ALARM 37 : CP OR SYSGEN ERROR: PORTX ELAyy DOWN

— NetView* Alert - Dynamic -

Software program error: Local CSMA/CD adapter

	· · · · · · · · · · · · · · · · · · ·	
Subvector and Subfield Keys	Code Points	Causes and Actions
Alert ID Number SV X'92'		X'47649CDD'
Alert Type SV X'92'	X'01'	Permanent
Alert Description	X'2100'	Software program error
Probable Causes SV X'93'	X'3322' X'1021' X'7005'	Local CSMA/CD adapter Communication controller control program System programmer
User Causes SV X'94' SF X'01'	(none)	
Install Causes SV X'95' SF X'01'	X'1300' X'8000'	Incorrect software generation Configuration error
Actions SV X'95' SF X'81'	X'3110' X'1501'	Contact communications systems programmer Correct generation problem
Failure Causes SV X'96' SF X'01'	X'1021'	Communication controller control program
Actions SV X'96' SF X'81'	X'1504' X'14A2' X'82' SF X'F0A0' X'82' SF X'3300' X'0501' X'0501' X'0610' X'3000' X'F0A0' X'82' SF X'32C0' X'82' SF X'82' SF	Apply correct software level Activate (Port number (x'60')) 'x' For: (Adapter number (x'61')) 'yy' If problem reoccurs then do the following: Run communication line data trace Dump control program Contact appropriate service representative For: (Control program (X'AF')) 'NCP' Report the following: (Reference code (X'30')) (Product alert reference code (x'F0')) '37'

Alert Condition: An unrecoverable error, potentially due to its microcode has been encountered by the adapter.

Due to a low probability of error re-occurrence, an automatic adapter re-IML and restart recovery is attempted.

- MOSS Console Alarm Message —

ALARM 38 : MICROCODE ERROR: ELAyy (PORT 1-2) RE-IML IN PROGRESS

— NetView* Alert - Dynamic —

Microcode pgr abnorm term: Local CSMA/CD adapter

(Microcode program abnormally terminated: Local CSMA/CD adapter)

Subvector and Subfield Keys	Code Points	Causes and Actions
Alert ID Number SV X'92'		X'08AE06B2'
Alert Type SV X'92'	X'01'	Permanent
Alert Description	X'6000'	Microcode program abnormally terminated
Probable Causes SV X'93'	X'3322'	Local CSMA/CD adapter
User Causes SV X'94' SF X'01'	(none)	
Install Causes SV X'95' SF X'01'	(none)	
Failure Causes SV X'96' SF X'01'	X'3322'	Local CSMA/CD adapter
Actions SV X'96' SF X'81'	X'3400' X'3301' X'3000' X'F0A0' X'82' SF X'32D0' X'82' SF X'82' SF X'82' SF	Wait for additional message before taking action If problem persists then do the following: Contact appropriate service representative For: (Controller ID (x'69')) '3745' Report the following: (Adapter number (x'61')) 'yy' (Reference code (X'30')) (Product alert reference code (x'F0')) '38'

Alert Condition: Following a microcode program error which required a complete adapter re-initialization for recovery, the adapter re-IML is successful.

Resources associated to the adapter can be re-activated.

— MOSS Console Alarm Message —

ALARM 39 : MICROCODE ERROR: ELAyy (PORT 1-2) RE-IML COMPLETE

— NetView* Alert - Dynamic -

Resources req activation: Local CSMA/CD adapter

(Resources require activation: Local CSMA/CD adapter)

Subvector and Subfield Keys	Code Points	Causes and Actions
Alert ID Number SV X'92'		X'937A765D'
Alert Type SV X'92'	X'01'	Permanent
Alert Description SV X'92'	X'B004'	Resources require activation
Probable Causes SV X'93'	X'3322'	Local CSMA/CD adapter
User Causes SV X′94′ SF X′01′	(none)	
Install Causes SV X'95' SF X'01'	(none)	
Failure Causes SV X'96' SF X'01'	X'3322'	Local CSMA/CD adapter
Actions SV X′96′ SF X′81′	X'13A1' X'82' SF X'3302' X'3000' X'F0A0' X'82' SF X'32C0' X'82' SF X'82' SF	Activate resources attached to: (Adapter number (x'61')) 'yy' If problem continues to occur repeatedly then do the following: Contact appropriate service representative For: (Controller ID (x'69')) '3745' Report the following: (Reference code (X'30')) 'B1058509' (Product alert reference code (x'F0')) '39'

Alert Condition: The adapter re-IML is unsuccessful after a detected program or microcode error requiring complete adapter re-initialization to try to recover.

Resources associated to the adapter cannot be re-activated.

- MOSS Console Alarm Message -

ALARM 3A : AFTER CODE ERROR: ELAyy (PORT 1-2) RE-IML FAILED

-- NetView* Alert - Dynamic -

Adapter error: Local CSMA/CD adapter

Subvector and Subfield Keys	Code Points	Causes and Actions
Alert ID Number SV X'92'		X'81CB1CD5'
Alert Type SV X'92'	X'01'	Permanent
Alert Description SV X'92'	X'1010'	Adapter error
Probable Causes SV X'93'	X'3322' X'3330'	Local CSMA/CD adapter Adapter hardware
User Causes SV X'94' SF X'01'	(none)	
Install Causes SV X'95' SF X'01'	(none)	
Failure Causes SV X'96' SF X'01'	X'3322'	Local CSMA/CD adapter
Actions SV X′96′ SF X′81′	X'3000' X'F0A0' X'82' SF X'32D0' X'82' SF X'82' SF X'82' SF	Contact appropriate service representative For: (Controller ID (x'69')) '3745' Report the following: (Adapter number (x'61')) 'yy' (Reference code (X'30')) 'B105850A' (Product alert reference code (x'F0')) '3A'

Alert Condition: The adapter microcode dump has been successfully completed before a re-IML due to a detected microcode error (or provisionally after a CP protocol error with the adapter).

The dump file on MOSS disk needs to be transferred and printed at host, on the same way as for line adapter/scanner at VTAM console.

– MOSS Console Alarm Message —

ALARM 3B : MICROCODE ERROR: ELAyy DUMP TAKEN

— NetView* Alert - Dynamic -

Microcode pgr abnorm term: Local CSMA/CD adapter

(Microcode program abnormally terminated: Local CSMA/CD adapter)

Subvector and Subfield Keys	Code Points	Causes and Actions	
Alert ID Number SV X'92'		X'C4AAAF3A'	
Alert Type SV X′92′	X'01'	Permanent	
Alert Description	X'6000'	Microcode program abnormally terminated	
Probable Causes SV X'93'	X'3322'	Local CSMA/CD adapter	
User Causes SV X'94' SF X'01'	(none)		
Install Causes SV X'95' SF X'01'	(none)		
Failure Causes SV X'96' SF X'01'	X'3322' X'3331'	Local CSMA/CD adapter Adapter microcode	
Actions SV X'96' SF X'81'	X'0603' X'F0A0' X'82' SF X'F0A0' X'82' SF	Transfer and print line adapter dump For: (Adapter number (x'61')) 'yy' For: (Product alert reference code (x'F0')) '3B'	

Alert Condition: On one of its lines/ports the adapter has experienced an unrecoverable hardware error, either on the CCU interface at initialization time or in the adapter attachment during operations.

The affected line/port is put in down state but reactivation can be attempted to try to recover.

MOSS Console Alarm Message

ALARM 3C : HARDWARE ERROR: PORTx ELAyy DOWN

- NetView* Alert - Dynamic -

Adapter error: CSMA/CD adapter interface

Subvector and Subfield Keys	Code Points	Causes and Actions
Alert ID Number SV X'92'		X'E7B03127'
Alert Type SV X'92'	X'01'	Permanent
Alert Description SV X'92'	X'1010'	Adapter error
Probable Causes SV X'93'	X'3221' X'3322'	CSMA/CD adapter interface Local CSMA/CD adapter
User Causes SV X'94' SF X'01'	(none)	
Install Causes SV X'95' SF X'01'	(none)	
Failure Causes SV X'96' SF X'01'	X'3221' X'3322'	CSMA/CD adapter interface Local CSMA/CD adapter
Actions SV X′96′ SF X′81′	X'F060' X'14A2' X'82'SF X'F0A0' X'82'SF X'3301' X'3000' X'F0A0' X'F0A0' X'82'SF X'32C0' X'82'SF X'82'SF	To recover lost resource Activate (Port number (x'60')) 'x' For: (Adapter number (x'61')) 'yy' If problem persists then do the following: Contact appropriate service representative For: (Controller ID (x'69')) '3745' Report the following: (Reference code (X'30')) (Product alert reference code (x'F0')) '3C'

Alert Condition: The operator put the adapter in disconnect state for the control program. It has been done either from the local or from the remote console.

— MOSS Console Alarm Message -

ALARM 3D : ELAyy DISCONNECTED ON OPERATOR'S REQUEST

— NetView* Alert - Dynamic —

CSMA/CD adapter interface disconnected: Local system operator

Subvector and Subfield Keys	Code Points	Causes and Actions
Alert ID Number SV X'92'		X'88929091'
Alert Type SV X'92'	X'01'	Permanent
Alert Description	X'B00B'	CSMA/CD adapter interface disconnected
Probable Causes SV X'93'	X'7001' X'7002'	Local system operator Remote system operator
User Causes SV X'94' SF X'01'	X'7000'	Operator
Actions SV X'96' SF X'81'	X'0700' X'F0A0' X'82' SF X'F0A0' X'82' SF	No action necessary For: (Adapter number (x'61')) 'yy' For: (Product alert reference code (x'F0')) '3D'
Install Causes SV X'95' SF X'01'	(none)	
Failure Causes SV X'96' SF X'01'	(none)	

Alert Condition: The adapter microcode does not respond any more to the control program. The microcode problem may only be intermittent so resource re-activation can be attempted to recover.

– MOSS Console Alarm Message

ALARM 3E : MICROCODE ERROR: PORTX ELAyy DOWN

NetView* Alert - Dynamic

Microcode program error: local CSMA/CD adapter

Subvector and Subfield Keys	Code Points	Causes and Actions
Alert ID Number SV X'92'		X'0F58E5B4'
Alert Type SV X'92'	X'01'	Permanent
Alert Description SV X'92'	X'6100'	Microcode program error
Probable Causes SV X'93'	X'3322'	Local CSMA/CD adapter
User Causes SV X'94' SF X'01'	(none)	
Install Causes SV X'95' SF X'01'	(none)	
Failure Causes SV X'96' SF X'01'	X'3322'	Local CSMA/CD adapter
Actions SV X'96' SF X'81'	X'F060' X'14A2' X'82' SF X'F0A0' X'82' SF X'3300' X'50A0' X'F0A0' X'82' SF X'32C0' X'82' SF X'82' SF	To recover lost resource Activate (Port number (x'60')) 'x' For: (Adapter number (x'61')) 'yy' If problem reoccurs then do the following: Contact appropriate service representative For: (Controller ID (x'69')) '3745' Report the following: (Reference code (X'30')) (Product alert reference code (x'F0')) '3E'

Alert Condition: Most of the time the main cause of the error is due to a bad connection of the adapter to the CSMA/CD bus. This connection must be checked before attempting to get this resource operative.

- MOSS Console Alarm Message -----

ALARM 3F : CSMA/CD BUS ERROR: PORTx ELAyy INOPERATIVE

NetView* Alert - Dynamic —

CSMA/CD bus inoperative: CSMA/CD lan component

Subvector and Subfield Keys	Code Points	Causes and Actions
Alert ID Number SV X'92'		X'C6A25E9F'
Alert Type SV X'92'	X'01'	Permanent
Alert Description SV X'92'	X'3220'	CSMA/CD bus inoperative
Probable Causes SV X'93'	X'3721' X'3426' X'3436' X'3221'	CSMA/CD Ian component CSMA/CD Ian cables Local CSMA/CD adapter cable CSMA/CD adapter interface
User Causes SV X'94' SF X'01'	X'3401' X'3451'	Cabling installed incorrectly Device cable not connected
Actions SV X'96' SF X'81'	X'14A2' X'82'SF X'F0A0' X'82'SF X'3300' X'3102' X'0302' X'1300'	Activate (Port number (x'60')) 'x' For: (Adapter number (x'61')) 'yy' If problem reoccurs then do the following: Contact CSMA/CD administrator responsible for this LAN Check cables and their connections Correct then retry
Install Causes SV X'95' SF X'01'	(none)	
Failure Causes SV X'96' SF X'01'	X'3436' X'3221'	Local CSMA/CD adapter cable CSMA/CD adapter interface
Actions SV X'96' SF X'81'	X'3000' X'F0A0' X'82' SF X'32C0' X'82' SF X'82' SF	Contact appropriate service representative For: (Controller ID (x'69')) '3745' Report the following: (Reference code (X'30')) (Product alert reference code (x'F0')) '3F'

Alert Condition: An error was detected by the control program, causing an automatic dump and re-IPL of the failing CCU. The CCU re-IPL has been successful and the related resources can be re-activated. The control program dump is available on the disk.

- MOSS Console Alarm Message -

ALARM 41 : CP ERROR : xxxx RE-IPL COMPLETE - CCU-x DUMP

- NetView* Alert - Dynamic -

Resources Req Activation: Comm Ctrl Cntl Pgm

(Resources Require Activation: Communication Controller Control Program)

Subvector and Subfield Keys	Code Points	Causes and Actions
Alert ID Number SV X'92'		X'9B6C23D7'
Alert Type SV X'92'	X'01'	Permanent
Alert Description	X'B004'	Resources Require Activation
Probable Causes SV X'93'	X'1021'	Communication Controller Control Program
User Causes SV X'94' SF X'01'	(none)	
Install Causes SV X'95' SF X'01'	X'1300' X'1501' X'1400' X'1600'	Incorrect Software Generation Incorrect Customization Parameters Mismatch between Hardware and Software Mismatch between Software and Microcode
Actions SV X'95' SF X'81'	X'0602' X'00B1' X'82'SF X'2203' X'1501' X'1504' X'3303' X'3000'	Transfer and Print Control Program Dump Perform Problem Determination Procedure at reporting location for (Abend Code (x'01')) Review supporting data at Alert Sender Correct Generation Problem Apply correct Software Level If unsuccessful then do the following Contact Appropriate Service Representative
Failure Causes SV X'96' SF X'01'	X'1021' X'0000' X'0101' X'3300'	Communication Controller Control Program Processor Main Storage Adapter

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Subvector and Subfield Keys	Code Points	Causes and Actions	
Actions SV X'96' SF X'81'	X'13A1' X'82' SF X'0602' X'2203' X'3300' X'00B1' X'82' SF X'3000'	Reactivate resources attached to (Communication Control Unit (x'34')) Transfer and Print Control Program Dump Review supporting data at Alert Sender If problem re-occurs then do the following Perform Problem Determination Procedure at reporting location for (Product Alert Reference Code (x'F0')) Contact Appropriate Service Representative	

Alert Condition: An error was detected by the control program, causing an automatic dump and re-IPL of the failing CCU. The CCU re-IPL has been successful and the related resources can be re-activated. The control program dump is available on the disk.

- MOSS Console Alarm Message

ALARM 42 : SYSGEN ERROR : xxxx RE-IPL COMPLETE - CCU-x DUMP

NetView* Alert - Dynamic

Resources Req Activation: Comm Ctrl Cntl Pgm

(Resources Require Activation: Communication Controller Control Program)

Subvector and Subfield Keys	Code Points	Causes and Actions
Alert ID Number SV X'92'		X'7F7BF84D'
Alert Type SV X'92'	X'01'	Permanent
Alert Description SV X'92'	X'B004'	Resources Require Activation
Probable Causes SV X'93'	X'1021'	Communication Controller Control Program
User Causes SV X'94' SF X'01'	(none)	
Install Causes SV X'95' SF X'01'	X'1501' X'1401'	Incorrect Customization Parameters Mismatch between Hardware Configuration and Software Generation
Actions SV X'95' SF X'81'	X'0602' X'00B1' X'82' SF X'2203' X'1501' X'1504' X'3303' X'3000'	Transfer and Print Control Program Dump Perform Problem Determination Procedure at reporting location for (Abend Code (x'01')) Review supporting data at Alert Sender Correct Generation Problem Apply correct Software Level If unsuccessful then do the following Contact Appropriate Service Representative
Failure Causes SV X'96' SF X'01'	X'1021' X'0000' X'0101' X'3300'	Communication Controller Control Program Processor Main Storage Adapter

Subvector and Subfield Keys	Code Points	Causes and Actions	
Actions SV X'96' SF X'81'	X'13A1' X'82' SF X'0602' X'2203' X'3300' X'00B1' X'82' SF X'3000'	Reactivate resources attached to (Communication Control Unit (x'34')) Transfer and Print Control Program Dump Review supporting data at Alert Sender If problem re-occurs then do the following Perform Problem Determination Procedure at reporting location for (Product Alert Reference Code (x'F0')) Contact Appropriate Service Representative	

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3745 Alert Reference Code 43

Alert Condition: A scanner has detected a permanent error on a line and has reported the error to the control program. The control program has notified MOSS of the error via a BER, and MOSS has generated the corresponding alarm and alert.

MOSS Console Alarm Message –

ALARM 43 : CONTROL PROGRAM REPORTED ERROR : LINE xxxx DOWN

– NetView* Alert - Dynamic -

Link Connection Error: Line Intf Coupler

(Link Connection Error: Line Interface Coupler)

Subvector and Subfield Keys	Code Points	Causes and Actions
Alert ID Number SV X'92'		X'4179B9D4'
Alert Type SV X'92'	X'01'	Permanent
Alert Description SV X'92'	X'3600'	Link Connection Error
Probable Causes SV X'93'	X'33C3' X'3309'	Line Interface Coupler Line Adapter
User Causes SV X'94' SF X'01'	(none)	
Install Causes SV X'95' SF X'01'	X'3401' X'1400' X'1500'	Local DCE Interface Cable Installed Incorrectly Mismatch between Hardware and Software Mismatch between Hardware and Microcode
Actions SV X'95' SF X'81'	X'1320' X'1503' X'1501' X'3303' X'3000'	Check Cable Connection and Retry Correct Configuration Correct Generation Problem If unsuccessful then do the following Contact Appropriate Service Representative
Failure Causes SV X'96' SF X'01'	X'33C3' X'82' SF X'82' SF	Line Interface Coupler (LIC) (Line Address (x'52')) (Empty)
Actions SV X′96′ SF X′81′	X'1332' X'3301' X'1906' X'3000' X'32C0' X'82' SF X'82' SF	Reactivate line If problem persists then do the following Use alternate port or line Contact Appropriate Service Representative Report the following: (Reference Code (x'30')) (Product Alert Reference Code (x'F0'))

Alert Condition: An error was detected by the control program, causing an automatic re-IPL of the failing CCU. The CCU re-IPL has been successful and the related resources can be re-activated. No control program dump is available on the disk.

– MOSS Console Alarm Message —

ALARM 46 : CP ERROR: xxxx RE-IPL COMPLETE - CCU-x NO DUMP

NetView* Alert - Dynamic --

Resources Req Activation: Comm Ctrl Cntl Pgm

(Resources Require Activation: Communication Controller Control Program)

Subvector and Subfield Keys	Code Points	Causes and Actions	
Alert ID Number SV X'92'		X'9B6C23D7'	
Alert Type SV X'92'	X'01'	Permanent	
Alert Description SV X'92'	X'B004'	Resources Require Activation	
Probable Causes SV X'93'	X'1021'	Communication Controller Control Program	
User Causes SV X'94' SF X'01'	(none)		
Install Causes SV X'95' SF X'01'	X'1300' X'1501' X'1400' X'1600'	Incorrect Software Generation Incorrect Customization Parameters Mismatch between Hardware and Software Mismatch between Software and Microcode	
Actions SV X'95' SF X'81'	X'00B1' X'82' SF X'2203' X'1501' X'1504' X'3303' X'3000'	Perform Problem Determination Procedure at reporting location for (Abend Code (x'01')) Review supporting data at Alert Sender Correct Generation Problem Apply correct Software Level If unsuccessful then do the following Contact Appropriate Service Representative	
Failure Causes SV X'96' SF X'01'	X'1021' X'0000' X'0101' X'3300'	Communication Controller Control Program Processor Main Storage Adapter	

Subvector and Subfield Keys	Code Points	Causes and Actions
Actions SV X'96' SF X'81'	X'13A1' X'82' SF X'2203' X'3300' X'00B1' X'82' SF X'3000'	Reactivate resources attached to (Communication Control Unit (x'34')) Review supporting data at Alert Sender If problem re-occurs then do the following Perform Problem Determination Procedure at reporting location for (Product Alert Reference Code (x'F0')) Contact Appropriate Service Representative

Alert Condition: An error was detected by the control program, causing an automatic dump and re-IPL of the failing CCU. The CCU re-IPL has been successful and the related resources can be re-activated.

The control program dump is available on the disk.

– MOSS Console Alarm Message –

ALARM 47 : CP ERROR: xxxx RE-IPL COMPLETE - CCU-x DUMP

– NetView* Alert - Dynamic –

Resources Req Activation: Comm Ctrl Cntl Pgm

(Resources Require Activation: Communication Controller Control Program)

Subvector and Subfield Keys	Code Points	Causes and Actions
Alert ID Number SV X'92'		X'9B6C23D7'
Alert Type SV X'92'	X'01'	Permanent
Alert Description SV X'92'	X'B004'	Resources Require Activation
Probable Causes SV X'93'	X'1021'	Communication Controller Control Program
User Causes SV X'94' SF X'01'	(none)	
Install Causes SV X'95' SF X'01'	X'1300' X'1501' X'1400' X'1600'	Incorrect Software Generation Incorrect Customization Parameters Mismatch between Hardware and Software Mismatch between Software and Microcode
Actions SV X'96' SF X'81'	X'0602' X'00B1' X'82' SF X'2203' X'1501' X'1504' X'3303' X'3000'	Transfer and Print Control Program Dump Perform problem determination procedure at reporting location for (Product alert reference code (x'F0')) '47' Review supporting data at Alert Sender Correct Generation Problem Apply correct software level If unsuccessful then do the following Contact appropriate service representative
Failure Causes SV X'96' SF X'01'	X'1021' X'0000' X'0101' X'3309'	Communication Controller Control Program Processor Main Storage Line Adapter

Subvector and Subfield Keys	Code Points	Causes and Actions
Actions SV X'96' SF X'81'	X'13A1' X'82' SF X'0602' X'2203' X'3300' X'00B1' X'82' SF X'3000'	Reactivate resources attached to (Communication Control Unit (x'34')) Transfer and Print Control Program Dump Review supporting data at Alert Sender If problem re-occurs then do the following Perform Problem Determination Procedure at reporting location for (Product Alert Reference Code (x'F0')) Contact Appropriate Service Representative

Alert Condition: The CCU re-IPL has been successful and the related resources can be re-activated.

The forced control program dump is available on the disk.

— MOSS Console Alarm Message –

ALARM 48 : RE-IPL COMPLETE CCU-x. FORCED DUMP TAKEN

– NetView* Alert - Dynamic -

Resources Req Activation: Comm Ctrl Cntl Pgm

(Resources Require Activation: Communication Controller Control Program)

Subvector and Subfield Keys	Code Points	Causes and Actions	
Alert ID Number SV X'92'		X'7A8FF1F3'	
Alert Type SV X'92'	X'01'	Permanent	
Alert Description SV X'92'	X'B004'	Resources Require Activation	
Probable Causes SV X'93'	X'1021'	Communication Controller Control Program	
User Causes SV X'94' SF X'01'	X'7000'	Operator	
Actions SV X'96' SF X'81'	X'13A1' X'82' SF X'0602' X'F0A0' X'82' SF	Reactivate resources attached to (Communication Control Unit (x'34')) Transfer and Print Control Program Dump For (Product Alert Reference Code (x'F0')) '48'	

3745 Product Alert Reference Code 4A

Alert Condition: A CCU failure occurred in twin-standby mode. All resources of the failed CCU have been switched to the backup CCU. The fallback operation is completed successfully. The resources are ready for activation.

- MOSS Console Alarm message -

ALARM 4A : CONTROL PROGRAM ERROR : FALLBACK COMPLETE

Models 410, 610

NetView* Alert - Dynamic —

Resources REQ Activation: COMM Controller BKUP

Subvector and Subfield Keys	Code Points	Causes and Actions
Alert ID Number SV X'92'		X'23D786C9'
Alert Type SV X'92'	X'01'	Permanent
Alert Description SV X'92'	X'B004'	Resources Require Activation
Probable Causes SV X'93'	X'3110'	Communication Controller Back-up
User Causes SV X'94' SF X'01'	(none)	
Install Causes SV X'95' SF X'01'	(none)	
Failure Causes SV X'96' SF X'01'	X'3110'	Communication Controller Back-Up
Actions SV X′96′ SF X′81′	X'13A1' X'82' SF X'00B1' X'82' SF X'2203' X'3300' X'3000'	Reactivate resources attached to (Communication Control Unit (x'34')) Perform Problem Determination Procedure at reporting location for (Product Alert Reference Code (x'F0')) Review supporting data at Alert Sender If problem reoccurs then do the following Contact Appropriate Service Representative

3745 Product Alert Reference Code 4B

Alert Condition: A CCU failure occurred in twin-standby mode. All resources of the failed CCU have been switched to the backup CCU. The fallback operation has been completed with minor errors. The resources are ready for activation.

MOSS Console Alarm message — -

ALARM 4B : CONTROL PROGRAM ERROR : FALLBACK COMPLETE WITH ERRORS



– NetView* Alert - Dynamic -

Resources REQ Activation: COMM Controller BKUP

Subvector and Subfield Keys	Code Points	Causes and Actions	
Alert ID Number SV X'92'	-	X'660C1B7D'	
Alert Type SV X'92'	X'01'	Permanent	
Alert Description SV X'92'	X'B004'	Resources Require Activation	
Probable Causes SV X'93'	X'3110'	Communication Controller Back-up	
User Causes SV X'94' SF X'01'	(none)		
Install Causes SV X'95' SF X'01'	(none)		
Failure Causes SV X'96' SF X'01'	X'3110' X'3300'	Communication Controller Back-Up Adapter	
Actions SV X'96' SF X'81'	X'13A1' X'82' SF X'3000' X'32A0' X'82' SF X'00B1' X'82' SF X'2203'	Reactivate resources attached to (Communication Control Unit (x'34')) Contact Appropriate Service Representative Report the following: (Reference Code (x'30')) Perform Problem Determination Procedure at reporting location for (Product Alert Reference Code (x'F0')) Review supporting data at Alert Sender	

3745 Alert Reference Code 50

Alert Condition: A permanent and unrecoverable error occurred on a channel adapter, for example:

- · An error on channel adapter selection through the IOC bus
- An internal logic error in a channel adapter
- A parity error on the host channel bus
- An invalid ESC address.

- MOSS Console Alarm Message -

ALARM 50 : HARDWARE ERROR : CHANNEL ADAPTER xx DOWN

– NetView* Alert - Dynamic

Adapter Error: Channel Adapter

Subvector and Subfield Keys	Code Points	Causes and Actions
Alert ID Number SV X'92'		X'E07DEFA4'
Alert Type SV X'92'	X'01'	Permanent
Alert Description SV X'92'	X'1010'	Adapter Error
Probable Causes SV X'93'	X'3301'	Channel Adapter
User Causes SV X'94' SF X'01'	(none)	
Install Causes SV X'95' SF X'01'	X'1501'	Incorrect Customization Parameters
Actions SV X'95' SF X'81'	X'1502'	Correct Customization Parameters
Failure Causes SV X'96' SF X'01'	X'3301' X'3411'	Channel Adapter Channel Interface Cable
Actions SV X'96' SF X'81'	X'3000' X'32D0' X'82' SF X'82' SF X'82' SF	Contact Appropriate Service Representative Report the following: (Channel Adapter Number (x'62')) (Reference Code (x'30')) (Product Alert Reference Code (x'F0'))

Alert Condition: A permanent and unrecoverable error was detected by the channel adapter microcode. The error prevents it from continuing normal operations.

- MOSS Console Alarm Message

ALARM 51 : MICROCODE ERROR : CHANNEL ADAPTER xx DOWN

— NetView* Alert - Dynamic -

Adapter Error: Channel Adapter

Subvector and Subfield Keys	Code Points	Causes and Actions
Alert ID Number SV X'92'		X'F5DB52D3'
Alert Type sv X'92'	X'01'	Permanent
Alert Description	X'1010'	Adapter Error
Probable Causes SV X'93'	X'3301' X'3331' X'3330'	Channel Adapter Adapter Microcode Adapter Hardware
User Causes SV X'94' SF X'01'	(none)	
Install Causes SV X'95' SF X'01'	X'1501' X'1502'	Incorrect Customization Parameters Incorrect Microcode Fix
Actions SV X'95' SF X'81'	X'1502' X'0104'	Correct Customization Parameters Check for correct Microcode Fix
Failure Causes SV X'96' SF X'01'	X'3301'	Channel Adapter
Actions SV X'96' SF X'81'	X'3000' X'32D0' X'82' SF X'82' SF X'82' SF	Contact Appropriate Service Representative Report the following: (Channel Adapter Number (x'62')) (Reference Code (x'30')) (Product Alert Reference Code (x'F0'))

Alert Condition: The line adapter microcode has detected a protocol error in the high-level exchange of commands with the control program, thus causing the line adapter to be disconnected from the control program. A line adapter dump can be taken by MOSS for problem investigation, if necessary. Then, the MOSS will re-IML the line adapter.

- MOSS Console Alarm Message

ALARM 60 : LA nn (LINES xxxx-yyyy) RE-IML IN PROGRESS

NetView* Alert - Dynamic

Communication Protocol Error: Line Adapter

Subvector and Subfield Keys	Code Points	Causes and Actions	
Alert ID Number SV X'92'		X'F9DC070E'	•
Alert Type SV X'92'	X'01'	Permanent	· · ·
Alert Description	X'3000'	Communication Protocol Error	
Probable Causes SV X'93'	X'3309' X'1021'	Line Adapter Communication Controller Control Program	
User Causes SV X'94' SF X'01'	(none)		
Install Causes SV X'95' SF X'01'	(none)		
Failure Causes SV X'96' SF X'01'	X'1021' X'33C2' X'82' SF X'82' SF	Communication Controller Control Program Line Adapter Microcode (Line Adapter Number (x'63')) (Line Address Range (x'53'))	
Actions SV X'96' SF X'81'	X'3400' X'3302' X'3000'	Wait for additional message before taking action If problem continues to occur repeatedly then do the following Contact Appropriate Service Representative	
	X'32C0' X'82' SF X'82' SF	Report the following: (Reference Code (x'30')) (Product Alert Reference Code (x'F0'))	

Alert Condition: This alert follows the alert 60 when the line adapter re-IML has been successful.

– MOSS Console Alarm Message –

ALARM 61 : LA nn (LINES xxxx-yyyy) RE-IML COMPLETE - DUMP

– NetView* Alert - Dynamic -

Resources Require Activation: Line Adapter

Subvector and Subfield Keys	Code Points	Causes and Actions
Alert ID Number SV X'92'		X'FADB87B6'
Alert Type SV X'92'	X'01'	Permanent
Alert Description SV X'92'	X'B004'	Resources Require Activation
Probable Causes SV X'93'	X'3309'	Line Adapter
User Causes SV X'94' SF X'01'	(none)	
Install Causes SV X'95' SF X'01'	(none)	
Failure Causes SV X'96' SF X'01'	X'33C2' X'82' SF X'82' SF	Line Adapter Microcode (Line Adapter Number (x'63')) (Empty)
Actions SV X'96' SF X'81'	X'13A1' X'82' SF X'0603' X'3302' X'00B1' X'82' SF X'2203' X'3000'	Reactivate resources attached to (Line Address Range (x'53')) Transfer and Print Line Adapter Dump If problem continues to occur repeatedly then do the following Perform Problem Determination Procedures at reporting location for (Product Alert Reference Code (x'F0')) Review supporting data at Alert Sender Contact Appropriate Service Representative

Alert Condition: This alert follows the alert 60 when the line adapter re-IML has been unsuccessful.

- MOSS Console Alarm Message -

ALARM 62 : LA nn (LINES xxxx-yyyy) DOWN - DUMP

- NetView* Alert - Dynamic -

Adapter Error: Line Adapter

Subvector and Subfield Keys	Code Points	Causes and Actions
Alert ID Number SV X'92'		X'3EF0C660'
Alert Type SV X'92'	X'01'	Permanent
Alert Description SV X'92'	X'1010'	Adapter Error
Probable Causes SV X'93'	X'3309'	Line Adapter
User Causes SV X'94' SF X'01'	(none)	
Install Causes SV X'95' SF X'01'	(none)	
Failure Causes SV X'96' SF X'01'	X'33C0' X'82' SF X'82' SF X'0002'	Line Adapter (Line Adapter Number (x'63')) (Line Address Range (x'53')) MOSS Microcode
Actions SV X'96' SF X'81'	X'0603' X'00B1' X'82' SF X'2203'	Transfer and Print Line Adapter Dump Perform Problem Determination Procedure at reporting location for (Product Alert Reference Code (x'F0')) Review supporting data at Alert Sender
	X'3000'	Contact Appropriate Service Representative

Alert Condition: An IOC bus error or an internal error has been detected for a line adapter which requires a re-IML.

– MOSS Console Alarm Message –

ALARM 63 : LA nn (LINES xxxx-yyyy) RE-IML IN PROGRESS

– NetView* Alert - Dynamic –

Adapter Error: Line Adapter

Subvector and Subfield Keys	Code Points	Causes and Actions
Alert ID Number SV X'92'		X'B2C183FD'
Alert Type SV X'92'	X'01'	Permanent
Alert Description	X'1010'	Adapter Error
Probable Causes SV X'93'	X'3309'	Line Adapter
User Causes SV X'94' SF X'01'	(none)	
Install Causes SV X'95' SF X'01'	(none)	
Failure Causes SV X'96' SF X'01'	X'33C0' X'82' SF X'82' SF	Line Adapter (Line Adapter Number (x'63')) (Line Address Range (x'53'))
Actions SV X'96' SF X'81'	X'3400' X'3301' X'3000' X'32C0' X'82' SF X'82' SF	Wait for additional message before taking action If problem persists then do the following Contact Appropriate Service Representative Report the following: (Reference Code (x'30')) (Product Alert Reference Code (x'F0'))

Alert Condition: This alert follows the alert 63 when the line adapter re-IML has been successful.

- MOSS Console Alarm Message -

ALARM 65 : LA nn (LINES xxxx-yyyy) RE-IML COMPLETE - NO DUMP

NetView* Alert - Dynamic -

Resources Require Activation: Line Adapter

Subvector and Subfield Keys	Code Points	Causes and Actions		
Alert ID Number SV X'92'		X'F359BCD8'		
Alert Type SV X'92'	X'01'	Permanent		
Alert Description SV X'92'	X'B004'	Resources Require Activation		
Probable Causes SV X'93'	X'3309'	Line Adapter	······································	
User Causes SV X'94' SF X'01'	(none)			
Install Causes SV X'95' SF X'01'	(none)			
Failure Causes SV X'96' SF X'01'	X'33C0' X'82' SF X'82' SF	Line Adapter (Line Adapter Number (x'63')) (Empty)		
Actions SV X'96' SF X'81'	X'13A1' X'82' SF X'3302' X'00B1' X'82' SF X'2203' X'3000'	Reactivate resources attached to (Line Address Range (x'53')) If problem continues to occur repeatedly then do the following Perform Problem Determination Procedures at reporting location for (Product Alert Reference Code (x'F0')) Review supporting data at Alert Sender Contact Appropriate Service Representative		· · · ·

Alert Condition: This alert follows the alert 63 when the line adapter re-IML has been unsuccessful.

- MOSS Console Alarm Message -

ALARM 66 : LA nn (LINES xxxx-yyyy) RE-IML FAILED - NO DUMP

– NetView* Alert - Dynamic -

Adapter Error: Line Adapter

Subvector and Subfield Keys	Code Points	Causes and Actions	
Alert ID Number SV X'92'		X'B2C183FD'	
Alert Type SV X'92'	X'01'	Permanent	
Alert Description	X'1010'	Adapter Error	
Probable Causes SV X'93'	X'3309'	Line Adapter	
User Causes SV X'94' SF X'01'	(none)		
Install Causes SV X'95' SF X'01'	(none)		
Failure Causes SV X'96' SF X'01'	X'33C0' X'82' SF X'82' SF	Line Adapter (Line Adapter Number (x'63')) (Line Address Range (x'53'))	
Actions SV X'96' SF X'81'	X'00B1' X'82' SF X'2203' X'3000'	Perform Problem Determination Procedure at reporting location for (Product Alert Reference Code (x'F0')) Review supporting data at Alert Sender Contact Appropriate Service Representative	n an an an Arrange

Alert Condition: After an error was detected on a low-speed scanner (LSS) or high-speed scanner (HSS). A dump was taken for further problem investigation and the scanner re-IML was successful.

– MOSS Console Alarm Message –

ALARM 67 : LA nn (LINES xxxx-yyyy) RE-IML COMPLETE - DUMP

NetView* Alert - Dynamic —

Resources Require Activation: Line Adapter

Subvector and Subfield Keys	Code Points	Causes and Actions
Alert ID Number SV X'92'		X'14AEB6FC'
Alert Type SV X'92'	X'01'	Permanent
Alert Description SV X'92'	X'B004'	Resources Require Activation
Probable Causes SV X'93'	X'3309'	Line Adapter
User Causes SV X'94' SF X'01'	(none)	
Install Causes SV X'95' SF X'01'	(none)	
Failure Causes SV X'96' SF X'01'	X'33C0' X'82' SF X'82' SF X'82' SF X'1021'	Line Adapter (Line Adapter Number (x'63')) (Empty) Communication Controller Control Program
Actions SV X'96' SF X'81'	X'13A1' X'82'SF X'0603' X'3300' X'00B1' X'82'SF X'2203' X'3000'	Reactivate resources attached to (Line Address Range (x'53')) Transfer and Print Line Adapter Dump If problem re-occurs then do the following Perform Problem Determination Procedure at reporting location for (Product Alert Reference Code (x'F0')) Review supporting data at Alert Sender Contact Appropriate Service Representative

Alert Condition: This alert follows the alert 63 when the line adapter re-IML has been successful.

– MOSS Console Alarm Message –

ALARM 68 : LA nn (LINES xxxx-yyyy) RE-IML COMPLETE - NO DUMP

– NetView* Alert - Dynamic –

Resources Require Activation: Line Adapter

Subvector and Subfield Keys	Code Points	Causes and Actions
Alert ID Number SV X'92'		X ' F359BCD8 '
Alert Type SV X'92'	X'01'	Permanent
Alert Description SV X'92'	X'B004'	Resources Require Activation
Probable Causes SV X'93'	X'3309'	Line Adapter
User Causes SV X'94' SF X'01'	(none)	
Install Causes SV X'95' SF X'01'	(none)	
Failure Causes SV X'96' SF X'01'	X'33C0' X'82' SF X'82' SF	Line Adapter (Line Adapter Number (x'63')) (Empty)
Actions SV X′96′ SF X′81′	X'13A1' X'82' SF X'3302' X'00B1'	Reactivate resources attached to (Line Address Range (x'53')) If problem continues to occur repeatedly then do the following Perform Problem Determination Procedures
	X'82' SF X'2203' X'3000'	at reporting location for (Product Alert Reference Code (x'F0')) Review supporting data at Alert Sender Contact Appropriate Service Representative

Alert Condition: An error was detected on a line adapter during the IPL process. The error prevents the line adapter from becoming operational. The error could be due to mismatch between the configuration data file (CDF) and the hardware (LSS multiplex cable connection). This alarm 6A and its associated alert are presented with the alarm D1 and its alert, together with the message: IPL COMPLETE WITH NON-BLOCKING ERROR(S).

--- MOSS Console Alarm Message

ALARM 6A : LA nn (LINES xxxx-yyyy) IML FAILED - NO DUMP

— NetView* Alert - Dynamic -

Adapter Error: Line Adapter

Subvector and Subfield Keys	Code Points	Causes and Actions
Alert ID Number SV X'92'		X'066B9DB8'
Alert Type SV X'92'	X'01'	Permanent
Alert Description	X'1010'	Adapter Error
Probable Causes SV X'93'	X'3309'	Line Adapter
User Causes SV X'94' SF X'01'	(none)	
Install Causes SV X'95' SF X'01'	X'1500' X'3402'	Mismatch between Hardware and Microcode Line Adapter Multiplexer Cable installed incorrectly
Actions SV X'95' SF X'81'	X'1503' X'3000' X'2203'	Correct Configuration Contact Appropriate Service Representative Review supporting data at Alert Sender
Failure Causes SV X'96' SF X'01'	X'33C0' X'82' SF X'82' SF X'0201'	Line Adapter (Line Adapter Number (x'63')) (Line Address Range (x'53')) Internal Power Unit
Actions SV X′96′ SF X′81′	X'0200' X'3000' X'32C0' X'82' SF X'82' SF	Check power Contact Appropriate Service Representative Report the following: (Reference Code (x'30')) (Product Alert Reference Code (x'F0'))

Alert Condition: An unsuccessful re-IML occurred for a line adapter.

– MOSS Console Alarm Message –

ALARM 6B : LA nn (LINES xxxx-yyyy) RE-IML FAILED - DUMP

– NetView* Alert - Dynamic -

Adapter Error: Line Adapter

Subvector and Subfield Keys	Code Points	Causes and Actions	
Alert ID Number SV X'92'		X '3EF0C660 '	
Alert Type SV X'92'	X'01'	Permanent	
Alert Description	X'1010'	Adapter Error	
Probable Causes SV X'93'	X'3309'	Line Adapter	
User Causes SV X'94' SF X'01'	(none)		
Install Causes SV X'95' SF X'01'	(none)		
Failure Causes SV X′96′ SF X′01′	X'33C0' X'82' SF X'82' SF X'0002'	Line Adapter (Line Adapter Number (x'63')) (Line Address Range (x'53')) MOSS Microcode	
Actions SV X′96′ SF X′81′	X'0603' X'00B1' X'82' SF X'2203' X'3000'	Transfer and Print Line Adapter Dump Perform Problem Determination Procedure at reporting location for (Product Alert Reference Code (x'F0')) Review supporting Data at Alert Sender Contact Appropriate Service Representative	

Alert Condition: A permanent HSS hardware error was detected by the control program.

— MOSS Console Alarm Message -

ALARM 72 : HPTSS (HSS xx) HARDWARE FAILURE

– NetView* Alert - Dynamic -

Adapter Error: HPTSS Adapter

Subvector and Subfield Keys	Code Points	Causes and Actions
Alert ID Number SV X'92'		X'BB2367E1'
Alert Type SV X'92'	X'01'	Permanent
Alert Description	X'1010'	Adapter Error
Probable Causes SV X'93'	X'330F'	HPTSS Adapter
User Causes SV X'94' SF X'01'	(none)	
Install Causes SV X'95' SF X'01'	(none)	
Failure Causes SV X'96' SF X'01'	X'330F' X'0110' X'0003'	HPTSS Adapter Storage Control Processor Switch (Models 210, 310, 410, and 610)
Actions SV X'96' SF X'81'	X'3000' X'32A0' X'82' SF X'00B1' X'82' SF X'2203'	Contact Appropriate Service Representative Report the following: (Line Adapter Number (x'63')) Perform Problem Determination Procedure at reporting location for (Product Alert Reference Code (x'F0')) Review supporting data at Alert Sender

3745 Alert Reference Code 73

Alert Condition: A permanent error related to the direct memory access (DMA) function was detected by the HPTSS and reported to the control program.

MOSS Console Alarm Message ——

ALARM 73 : HPTSS-TO-STORAGE CONTROL COMMUNICATION ERROR

– NetView* Alert - Dynamic –

Adapter Error: HPTSS Adapter

Subvector and Subfield Keys	Code Points	Causes and Actions
Alert ID Number SV X'92'		X'0584ACAE'
Alert Type SV X'92'	X'01'	Permanent
Alert Description SV X'92'	X'1010'	Adapter Error
Probable Causes SV X'93'	X'330F'	HPTSS Adapter
User Causes SV X'94' SF X'01'	(none)	
Install Causes SV X'95' SF X'01'	(none)	
Failure Causes SV X′96′ SF X′01′	X'330F' X'0110' X'0003' X'1021'	HPTSS Adapter Storage Control Processor Switch (Models 210, 310, 410, and 610) Communication Controller Control Program
Actions SV X'96' SF X'81'	X'3000' X'32C0' X'82' SF X'82' SF	Contact Appropriate Service Representative Report the following: (Reference Code (x'30')) (Prøduct Alert Reference Code (x'F0'))

3745 Alert Reference Code 80

Alert Condition: An input/output error occurred at the local token-ring-adapter level at initialization time. All TICs connected to this adapter are affected.

— MOSS Console Alarm Message -

ALARM 80 : TRSS HARDWARE INITIALIZATION ERROR TRA xx

– NetView* Alert - Dynamic –

Initialization Failure: Loc Token Ring Adpt

(Initialization Failure: Local Token Ring Adapter)

Subvector and Subfield Keys	Code Points	Causes and Actions
Alert ID Number SV X'92'		X'A26651F8'
Alert Type SV X'92'	X'01'	Permanent
Alert Description SV X'92'	X'3210'	Initialization Failure
Probable Causes SV X'93'	X'3320'	Local Token-Ring Adapter
User Causes SV X'94' SF X'01'	(none)	
Install Causes SV X'95' SF X'01'	(none)	
Failure Causes SV X'96' SF X'01'	X'3320' X'3220'	Local Token Ring Adapter Local Token Ring Adapter Interface
Actions SV X'96' SF X'81'	X'3000' X'32D0' X'82' SF X'82' SF X'82' SF X'82' SF	Contact Appropriate Service Representative Report the following: (Line Adapter Number (x'63')) (Reference Code (x'30')) (Product Alert Reference Code (x'F0')) Review supporting data at Alert Sender

Alert Condition The last TIC backup time out occurred and a 'not completed' level-2 interrupt has been received. All TICs connected to this adapter are affected.

– MOSS Console Alarm Message –

ALARM 81 : TIME-OUT ERROR : TRA xx DOWN

— NetView* Alert - Dynamic ——

Adapter Error: Local Token Ring Adapter

Subvector and Subfield Keys	Code Points	Causes and Actions	
Alert ID Number SV X'92'		X'32AE00B0'	
Alert Type SV X'92'	X'01'	Permanent	· · · · ·
Alert Description SV X'92'	X'1010'	Adapter Error	
Probable Causes SV X'93'	X'3320' X'1021'	Local Token-Ring Adapter Communication Controller Control Program	
User Causes SV X'94' SF X'01'	(none)		
Install Causes SV X'95' SF X'01'	(none)		
Failure Causes SV X'96' SF X'01'	X'3320' X'1021'	Local Token Ring Adapter Communication Controller Control Program	
Actions SV X′96′ SF X′81′	X'13A1' X'82' SF X'3300' X'0610' X'0602' X'3000' X'32C0' X'82' SF X'82' SF X'82' SF	Reactivate resources attached to (Line Adapter Number (x'63')) If problem re-occurs then do the following Dump Control Program Transfer and Print Control Program Dump Contact Appropriate Service Representative Report the following: (Reference Code (x'30')) (Product Alert Reference Code (x'F0')) Review supporting data at Alert Sender	

3745 Alert Reference Code 82

Alert Condition: A permanent token-ring input/output error (CCU I/O bus) has been detected by the CCU/control program or there has been an adapter error.

--- MOSS Console Alarm Message -

ALARM 82 : TRSS HARDWARE ERROR : TRA xx DISCONNECTED

--- NetView* Alert - Dynamic -

Adapter Error: Local Token Ring Adapter

Subvector and Subfield Keys	Code Points	Causes and Actions
Alert ID Number SV X'92'		X'34AB3171'
Alert Type SV X'92'	X'01'	Permanent
Alert Description SV X'92'	X'1010'	Adapter Error
Probable Causes SV X'93'	X'3320'	Local Token-Ring Adapter
User Causes SV X'94' SF X'01'	(none)	
Install Causes SV X'95' SF X'01'	(none)	
Failure Causes SV X'96' SF X'01'	X'3320' X'3220' X'0003'	Local Token Ring Adapter Local Token Ring Adapter Interface Processor Switch (Models 210, 310, 410, and 610)
Actions SV X'96' SF X'81'	X'13A1' X'82' SF X'3300' X'3000' X'32C0' X'82' SF X'82' SF X'82' SF X'2203'	Reactivate resources attached to (Line Adapter Number (x'63')) If problem re-occurs then do the following Contact Appropriate Service Representative Report the following: (Reference Code (x'30')) (Product Alert Reference Code (x'F0')) Review supporting data at Alert Sender

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3745 Alert Reference Code 83

Alert Condition: The token-ring multiplex card caused an error at the direct-memory-access level or interrrupt level.

— MOSS Console Alarm Message –

ALARM 83 : TRSS HARDWARE ERROR : TRA xx DOWN (TIC 1-2)

— NetView* Alert - Dynamic —

Adapter Error: Local Token Ring Adapter

Subvector and Subfield Keys	Code Points	Causes and Actions
Alert ID Number SV X'92'		X'34AB3171'
Alert Type SV X'92'	X'01'	Permanent
Alert Description	X'1010'	Adapter Error
Probable Causes SV X'93'	X'3320'	Local Token-Ring Adapter
User Causes SV X'94' SF X'01'	(none)	
Install Causes SV X'95' SF X'01'	(none)	
Failure Causes SV X'96' SF X'01'	X'3320' X'3220' X'0003'	Local Token Ring Adapter Local Token Ring Adapter Interface Processor Switch (Models 210, 310, 410, and 610)
Actions SV X′96′ SF X′81′	X'13A1' X'82' SF X'3300' X'3000' X'32C0' X'82' SF X'82' SF X'82' SF	Reactivate resources attached to (Line Adapter Number (x'63')) If problem re-occurs then do the following Contact Appropriate Service Representative Report the following: (Reference Code (x'30')) (Product Alert Reference Code (x'F0')) Review supporting data at Alert Sender

Alert Condition: There has been an input/output error at the local token-ring-adapter level at initialization time. Only this TIC is affected.

• MOSS Console Alarm Message -

ALARM 84 : TIC INITIALIZATION ERROR : TIC x DOWN (TRA yy)

- NetView* Alert - Dynamic -

Initialization Failure: Token Ring Adpt Intf

(Initialization Failure: Local Token Ring Adapter Interface)

Subvector and Subfield Keys	Code Points	Causes and Actions	
Alert ID Number SV X'92'		X'9818FC1A'	
Alert Type SV X'92'	X'01'	Permanent	-
Alert Description SV X'92'	X'3210'	Initialization Failure	
Probable Causes SV X'93'	X'3220'	Token-Ring Adapter Interface	
User Causes SV X'94' SF X'01'	(none)		
Install Causes SV X'95' SF X'01'	(none)		
Failure Causes SV X'96' SF X'01'	X'3220'	Local Token Ring Adapter Interface	
Actions SV X'96' SF X'81'	X'13A1' X'82' SF X'3300' X'3000' X'32D0' X'82' SF X'82' SF X'82' SF X'82' SF	Reactivate resources attached to (Line Adapter Number (x'63')) If problem re-occurs then do the following Contact Appropriate Service Representative Report the following: (Token Ring Interface Coupler Number (x'66')) (Reference Code (x'30')) (Product Alert Reference Code (x'F0')) Review supporting data at Alert Sender	

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3745 Alert Reference Code 85

Alert Condition: The TIC failed at open time.

— MOSS Console Alarm Message -

ALARM 85 : OPEN-TIME ERROR : TIC x DOWN (TRA yy)

- NetView* Alert - Dynamic -

Open Failure: Token Ring Adpt Intf

(Open Failure: Local Token Ring Adapter Interface)

Subvector and Subfield Keys	Code Points	Causes and Actions
Alert ID Number SV X'92'		X'61B47BF4'
Alert Type SV X'92'	X'01'	Permanent
Alert Description	X'3211'	Open Failure
Probable Causes SV X'93'	X'3220'	Token-Ring Adapter Interface
User Causes SV X'94' SF X'01'	(none)	
Install Causes SV X'95' SF X'01'	(none)	
Failure Causes SV X'96' SF X'01'	X'3220'	Local Token Ring Adapter Interface
Actions SV X'96' SF X'81'	X'13A1' X'82' SF X'3300' X'3000' X'32D0' X'82' SF X'82' SF X'82' SF X'82' SF	Reactivate resources attached to (Line Adapter Number (x'63')) If problem re-occurs then do the following Contact Appropriate Service Representative Report the following: (Token Ring Interface Coupler Number (x'66')) (Reference Code (x'30')) (Product Alert Reference Code (x'F0')) Review supporting data at Alert Sender

3745 Alert Reference Code 86

Alert Condition: MOSS microcode has performed a TIC dump and saved it on the controller disk for further problem investigation. The TIC can resume normal operation.

- MOSS Console Alarm Message

ALARM 86 : TIC x (TRA yy) DUMP COMPLETE

- NetView* Alert - Dynamic -

Resources Req Activation: Token Ring Adpt Intf

(Resources Require Activation: Local Token Ring Adapter Interface)

Subvector and Subfield Keys	Code Points	Causes and Actions	
Alert ID Number SV X'92'		X'28B165F3'	
Alert Type SV X'92'	X'01'	Permanent	
Alert Description	X'B004'	Resources Require Activation	
Probable Causes SV X'93'	X'3220'	Token-Ring Adapter Interface	
User Causes SV X'94' SF X'01'	(none)		
Install Causes SV X'95' SF X'01'	(none)		
Failure Causes SV X'96' SF X'01'	X'3220'	Local Token Ring Adapter Interface	
Actions SV X'96' SF X'81'	X'13A1' X'82' SF X'0605' X'3300' X'32D0' X'32D0' X'82' SF X'82' SF X'82' SF X'82' SF	Reactivate resources attached to (Line Adapter Number (x'63')) Transfer and Print Token Ring Coupler Dump If problem re-occurs then do the following Contact Appropriate Service Representative Report the following: (Token Ring Interface Coupler Number (x'66')) (Reference Code (x'30')) (Product Alert Reference Code (x'F0')) Review supporting data at Alert Sender	

3745 Alert Reference Code 87

Alert Condition: The last TIC backup time out occurred and a 'not completed' level-2 interrupt has been received. Only this TIC is affected. No backup time out.

- MOSS Console Alarm Message

ALARM 87 : TIME-OUT ERROR : TIC x DOWN (TRA yy)

— NetView* Alert - Dynamic –

Adapter Error: Token Ring Adpt Intf

(Adapter Error: Local Token Ring Adapter Interface)

Subvector and Subfield Keys	Code Points	Causes and Actions	· · · · · · · · · · · · · · · · · · ·
Alert ID Number SV X'92'		X'A93454C6'	
Alert Type SV X'92'	X'01'	Permanent	
Alert Description	X'1010'	Adapter Error	-
Probable Causes SV X'93'	X'3220' X'1021'	Token-Ring Adapter Interface Communication Controller Control Program	
User Causes SV X'94' SF X'01'	(none)		
Install Causes SV X'95' SF X'01'	(none)		
Failure Causes SV X'96' SF X'01'	X'3220' X'1021'	Local Token Ring Adapter Interface Communication Controller Control Program	
Actions SV X'96' SF X'81'	X'13A1' X'82' SF X'3300' X'0610' X'0602' X'3000' X'32D0' X'82' SF X'82' SF X'82' SF X'82' SF X'82' SF	Reactivate resources attached to (Line Adapter Number (x'63')) If problem re-occurs then do the following Dump Control Program Transfer and Print Control Program Dump Contact Appropriate Service Representative Report the following: (Token Ring Interface Coupler Number (x'66')) (Reference Code (x'30')) (Product Alert Reference Code (x'F0')) Review supporting data at Alert Sender	

Alert Condition: MOSS microcode failed when trying to take a TIC dump.

— MOSS Console Alarm Message -

ALARM 88 : TIC x (TRA yy) DUMP FAILED

NetView* Alert - Dynamic

Adapter Error: Token Ring Adpt Intf

(Adapter Error: Local Token Ring Adapter Interface)

Subvector and Subfield Keys	Code Points	Causes and Actions
Alert ID Number SV X'92'		X'69295AD6'
Alert Type SV X'92'	X'01'	Permanent
Alert Description	X'1010'	Adapter Error
Probable Causes SV X'93'	X'3220'	Token-Ring Adapter Interface
User Causes SV X'94' SF X'01'	(none)	
Install Causes SV X'95' SF X'01'	(none)	
Failure Causes SV X'96' SF X'01'	X'3220'	Local Token Ring Adapter Interface
Actions SV X'96' SF X'81'	X'3000' X'F0A0' X'82' SF X'32D0' X'82' SF X'82' SF X'82' SF X'82' SF X'2203'	Contact Appropriate Service Representative For (Line Adapter Number (x'63')) Report the following: (Token Ring Interface Coupler Number (x'66')) (Reference Code (x'30')) (Product Alert Reference Code (x'F0')) Review supporting data at Alert Sender

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3745 Alert Reference Code 89

Alert Condition: The control program sent an input/output command to a token-ring adapter that is not installed.

— MOSS Console Alarm Message -

ALARM 89 : TOKEN RING ADAPTER NOT INSTALLED

— NetView* Alert - Dynamic -

Software Program Error: Loc Token Ring Adpt

(Software Program Error: Local Token Ring Adapter)

Subvector and Subfield Keys	Code Points	Causes and Actions		· · ·	
Alert ID Number SV X'92'		X'172FA558'			
Alert Type SV X'92'	X'01'	Permanent			
Alert Description SV X'92'	X'2100'	Software Program Error			a'
Probable Causes SV X'93'	X'3320'	Local Token-Ring Adapter	1		
User Causes SV X'94' SF X'01'	(none)			· · · ·	
Install Causes SV X'95' SF X'01'	X'1200' X'1500'	Incorrect hardware configuration Mismatch between hardware and microcode	,		
Actions SV X'95' SF X'81'	X'1503' X'1500' X'3301' X'3000' X'32A0' X'82' SF	Correct Configuration Correct Installation Problem If problem persists then do the following Contact Appropriate Service Representative Report the following: (Reference Code (x'30'))			
Failure Causes SV X'96' SF X'01'	X'1021'	Communication Controller Control Program	,		
Actions SV X'95' SF X'81'	X'3000' X'F0A0' X'82' SF	Contact Appropriate Service Representative For (Product Alert Reference Code (x'F0'))	1.		

Alert Condition: No reply from the component.

- MOSS Console Alarm Message

ALARM 8B : TOKEN RING TIME OUT

– NetView* Alert - Dynamic -

Adapter Error: Token Ring Adpt Intf

(Adapter Error: Local Token Ring Adapter Interface)

Subvector and Subfield Keys	Code Points	Causes and Actions
Alert ID Number SV X'92'		X'A93454C6'
Alert Type SV X'92'	X'01'	Permanent
Alert Description SV X'92'	X'1010'	Adapter Error
Probable Causes SV X'93'	X'3220' X'1021'	Token-Ring Adapter Interface Communication Controller Control Program
User Causes SV X'94' SF X'01'	(none)	
Install Causes SV X'95' SF X'01'	(none)	
Failure Causes SV X'96' SF X'01'	X'3220' X'1021'	Local Token Ring Adapter Interface Communication Controller Control Program
Actions SV X'96' SF X'81'	X'3300' X'0610' X'0602' X'3000' X'32C0' X'82' SF X'82' SF X'82' SF	If problem re-occurs then do the following Dump Control Program Transfer and Print Control Program Dump Contact Appropriate Service Representative Report the following: (Reference Code (x'30')) (Product Alert Reference Code (x'F0')) Review supporting data at Alert Sender

Alert Condition: There has been an incomplete frame time out. No interrupt has been received during the incomplete frame timer period.

— MOSS Console Alarm Message —

ALARM 8C : TOKEN RING FRAME TIME OUT

— NetView* Alert - Dynamic —

Adapter Error: Token Ring Adpt Intf

(Adapter Error: Local Token Ring Adapter Interface)

Subvector and Subfield Keys	Code Points	Causes and Actions	juženski s Poslavni stali Poslavni stali stali
Alert ID Number SV X'92'		X'4FB9512E'	
Alert Type SV X'92'	X'01'	Permanent	
Alert Description SV X'92'	X'1010'	Adapter Error	
Probable Causes SV X'93'	X'3220' X'1021'	Token-Ring Adapter Interface Communication Controller Control Program	
User Causes SV X'94' SF X'01'	(none)		
Install Causes SV X'95' SF X'01'	(none)		
Failure Causes SV X'96' SF X'01'	X'3220' X'1021'	Local Token Ring Adapter Interface Communication Controller Control Program	
Actions SV X′96′ SF X′81′	X'3301' X'0610' X'0602' X'3000' X'32C0' X'82' SF X'82' SF X'82' SF	If problem persists then do the following Dump Control Program Transfer and Print Control Program Dump Contact Appropriate Service Representative Report the following: (Reference Code (x'30')) (Product Alert Reference Code (x'F0')) Review supporting data at Alert Sender	

Alert Condition: There has been an input/output error at the local token-ring-adapter level at initialization time. All TICs connected to this adapter are affected.

- MOSS Console Alarm Message -

ALARM 8D : TRSS HARDWARE INITIALIZATION ERROR ON TRA xx

- NetView* Alert - Dynamic -

Initialization Failure: Loc Token Ring Adpt

(Initialization Failure: Local Token Ring Adapter)

Subvector and Subfield Keys	Code Points	Causes and Actions
Alert ID Number SV X'92'		X'CA919DA1'
Alert Type SV X'92'	X'01'	Permanent
Alert Description SV X'92'	X'3210'	Initialization Failure
Probable Causes SV X'93'	X'3320'	Local Token-Ring Adapter
User Causes SV X'94' SF X'01'	(none)	
Install Causes SV X'95' SF X'01'	(none)	
Failure Causes SV X'96' SF X'01'	X'3320'	Local Token Ring Adapter
Actions SV X'96' SF X'81'	X'13A1' X'82' SF X'3300' X'3000' X'32C0' X'82' SF X'82' SF X'82' SF	Reactivate resources attached to (Line Adapter Number (x'63')) If problem re-occurs then do the following Contact Appropriate Service Representative Report the following: (Reference Code (x'30')) (Product Alert Reference Code (x'F0')) Review supporting data at Alert Sender

Alerts

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3745 Product Alert Reference Code 95

Alert Condition: This is a warning that the cooling is inadequate or the room temperature is too high. When the second threshold is reached, the CCU power supply is automatically shut down.

Alarm 98 and its associated alert indicated when the temperature returns to normal.

— MOSS Console Alarm message ————				· · · · · · · · · · · · · · · · · · ·
ALARM 95 : FIRST TEMPERATURE THRESHOLD REA	CHED ON CCU-X			an an an an Taonachta an Anna Taonachta
	· · · ·			
NetView* Alert - Dynamic	na na sana na s			
Loss of Equipment Cooling: Cool/Heat Subsystem		-	• • •	

Subvector and Subfield Keys	Code Points	Causes and Actions
Alert ID Number SV X'92'		X '99366924 '
Alert Type SV X'92'	X'11'	Impending
Alert Description SV X'92'	X'1501'	Loss of Equipment Cooling
Probable Causes SV X'93'	X'0300'	Cooling or Heating Subsystem
User Causes SV X'94' SF X'01'	X'74A1'	Blocked Air Filter
Actions SV X'94' SF X'81'	X'1310' X'1311'	Verify that Air Vents are not covered Check for dirty Filter
Install Causes SV X'95' SF X'01'	(none)	
Failure Causes SV X'96' SF X'01'	X'0301' X'0311' X'0201' X'0205'	Cooling Fan Thermal Detector Internal Power Unit Power SubSystem Processor
Actions SV X'96' SF X'81'	X'3301' X'3000' X'32D0' X'82' SF X'82' SF X'82' SF	If problem persists then do the following Contact Appropriate Service Representative Report the following: (Communication Control Unit (x'34')) (Reference Code (x'30')) (Product Alert Reference Code (x'F0'))

Alert Condition: The cause for alarm 95 and its associated alert has disappeared.

CCU temperature has returned to normal.

– MOSS Console Alarm message –

ALARM 98 : TEMPERATURE RETURNED TO NORMAL ON CCU-x

Models 210, 310, 410, 610

– NetView* Alert - Dynamic –

Cooling Problem Resolved: Cool/Heat Subsystem

Subvector and Subfield Keys	Code Points	Causes and Actions
Alert ID Number SV X'92'		X'C37A7D28'
Alert Type SV X'92'	X'02'	Temporary
Alert Description	X'A001'	Cooling Problem Resolved
Probable Causes SV X'93'	X'0300'	Cooling or Heating Subsystem
User Causes SV X'94' SF X'01'	(none).	
Install Causes SV X'95' SF X'01'	(none)	
Failure Causes SV X'96' SF X'01'	X'0300'	Cooling or Heating Subsystem
Actions SV X'96' SF X'81'	X'0700' X'F0A0' X'82'SF	No Action Necessary For (Product Alert Reference Code (x'F0'))

Alerts

3745 Product Alert Reference Code 9B

Alert Condition: The thermal detector on the CCU and TCM or related hardware logic has failed and there is no further TCM temperature checking. A failure is about to occur.

— MOSS Console Alarm message –

ALARM 9B : THERMAL DETECTOR REPORTING ERROR ON CCU-x

Models 210, 310, 410, 610

– NetView* Alert - Dynamic –

Device Error: Cooling or Heating Subsystem

Subvector and Subfield Keys	Code Points	Causes and Actions	ntan ang ang ang ang ang ang ang ang ang a
Alert ID Number SV X'92'		X ' D86D6F48 '	
Alert Type SV X'92'	X'11'	Impending	
Alert Description	X'1002'	Device Error	
Probable Causes SV X'93'	X'0300'	Cooling or Heating Subsystem	
User Causes SV X′94′ SF X′01′	(none)		
Install Causes SV X'95' SF X'01'	(none)		
Failure Causes SV X'96' SF X'01'	X'0311' X'0201' X'0205'	Thermal Detector Internal Power Unit Power SubSystem Processor	
Actions SV X'96' SF X'81'	X'3000' X'32D0' X'82' SF X'82' SF X'82' SF	Contact Appropriate Service Representative Report the following: (Communication Control Unit (x'34')) (Reference Code (x'30')) (Product Alert Reference Code (x'F0'))	и 1

Chapter 1. Alarms and Alerts 1-133

Alert Condition: The related power supply is malfunctioning, for example: the current is too high or the voltage too low.

- MOSS Console Alarm message -

ALARM 9D : CHANNEL ADAPTER xx POWER SUPPLY DOWN

Models 210, 310, 410, 610

NetView* Alert - Dynamic -

Loss of CHAN ADPT Power: Internal Power Unit

Subvector and Subfield Keys	Code Points	Causes and Actions	
Alert ID Number SV X'92'		X ' 582974A6 '	
Alert Type SV X'92'	X'01'	Permanent	
Alert Description	X'1401'	Loss of Channel Adapter Electrical Power	-
Probable Causes SV X'93'	X'0201'	Internal Power Unit	
User Causes SV X'94' SF X'01'	(none).		
Install Causes SV X'95' SF X'01'	(none)		
Failure Causes SV X'96' SF X'01'	X'02C0' X'82' SF X'82' SF X'0203' X'0202' X'0205'	Internal Power Unit for (Channel Adapter Number (x'62')) (Empty) Power Cable Internal Power Control Unit Power SubSystem Processor	,
Actions SV X'96′ SF X′81′	X'1001' X'3301' X'3000' X'32C0' X'82' SF X'82' SF	Refer to the Operator's Guide for corrective action If problem persists then do the following Contact Appropriate Service Representative Report the following: (Reference Code (x'30')) (Product Alert Reference Code (x'F0'))	-

Alert Condition: The related power supply is malfunctioning, for example: the current is too high or the voltage too low.

— MOSS Console Alarm message -

ALARM 9F : LINE ADAPTER xx POWER SUPPLY DOWN

Models 210, 310, 410, 610

- NetView* Alert - Dynamic -

Loss of Line ADPT Power: Internal Power Unit

Subvector and Subfield Keys	Code Points	Causes and Actions	1
Alert ID Number SV X'92'		X'605C2741'	
Alert Type SV X'92'	X'01'	Permanent	
Alert Description	X'1402'	Loss of Line Adapter Electrical Power	
Probable Causes SV X'93'	X'0201'	Internal Power Unit	
User Causes SV X'94' SF X'01'	(none).		1
Install Causes SV X'95' SF X'01'	(none)		
Failure Causes SV X'96' SF X'01'	X'02C0' X'82' SF X'82' SF X'0203' X'0202' X'0205'	Internal Power Unit for (Line Adapter Number (x'63')) (Empty) Power Cable Internal Power Control Unit Power SubSystem Processor	
Actions SV X'96' SF X'81'	X'1001' X'3301' X'3000' X'32C0' X'82' SF X'82' SF	Refer to the Operator's Guide for corrective action If problem persists then do the following Contact Appropriate Service Representative Report the following: (Reference Code (x'30')) (Product Alert Reference Code (x'F0'))	

Alert Condition: The related power supply is malfunctioning, for example: the current is too high or the voltage too low.

- MOSS Console Alarm message -

ALARM A1 : POWER SUBSYSTEM : LIC UNIT xx POWER SUPPLY DOWN

Models 210, 310, 410, 610

— NetView* Alert - Dynamic -

Loss of LIC Unit Power: Internal Power Unit

Subvector and Subfield Keys	Code Points	Causes and Actions
Alert ID Number SV X'92'		X'778F161C'
Alert Type SV X'92'	X'01'	Permanent
Alert Description	X'1403'	Loss of LIC Unit Electrical Power
Probable Causes SV X'93'	X'0201'	Internal Power Unit
User Causes SV X'94' SF X'01'	(none).	
Install Causes SV X'95' SF X'01'	(none)	
Failure Causes SV X'96' SF X'01'	X'02C0' X'82' SF X'82' SF X'0203' X'0202' X'0205'	Internal Power Unit for (1st LIC Position (x'64')) (Empty) Power Cable Internal Power Control Unit Power SubSystem Processor
Actions SV X'96' SF X'81'	X'1001' X'3301' X'3000' X'32C0' X'82' SF X'82' SF	Refer to the Operator's Guide for corrective action If problem persists then do the following Contact Appropriate Service Representative Report the following: (Reference Code (x'30')) (Product Alert Reference Code (x'F0'))

Alert Condition: The power control unit can no longer monitor the power supplies on a power bus.

— MOSS Console Alarm message ——

ALARM A2 : POWER SUPPLY-TO-POWER CONTROL ERROR

Models 210, 310, 410, 610

– NetView* Alert - Dynamic -----

Device Error: Internal Power Control Unit

Subvector and Subfield Keys	Code Points	Causes and Actions
Alert ID Number SV X'92'		X'2A0F49FD'
Alert Type SV X'92'	X'01'	Permanent
Alert Description SV X'92'	X'1002'	Device Error
Probable Causes SV X'93'	X'0202'	Internal Power Control Unit
User Causes SV X'94' SF X'01'	(none).	
Install Causes SV X'95' SF X'01'	(none)	
Failure Causes SV X′96′ SF X′01′	X'0202' X'0203' X'0201' X'0205'	Internal Power Control Unit Power Cable Internal Power Unit Power SubSystem Processor
Actions SV X′96′ SF X′81′	X'3000' X'32C0' X'82' SF X'82' SF	Contact Appropriate Service Representative Report the following: (Reference Code (x'30')) (Product Alert Reference Code (x'F0'))

Alert Condition: The power control unit has detected a disturbance in the ac main power source. The fact that the alert has been received means that the ac disturbance was not long enough to drop power on MOSS and CCU. Some power supplies may, however, have dropped. In this case, they have to be put up again by using the MOSS Power Services (POS) function from the operator console. Refer to the 3745 Advanced Operations Guide.

– MOSS Console Alarm Message -

ALARM A3 : POWER SUBSYSTEM : TEMPORARY ac FAILURE

— NetView* Alert - Dynamic -

Loss of External Power: Main ac Power Supply

Subvector and Subfield Keys	Code Points	Causes and Actions
Alert ID Number SV X'92'		X'7CDF9453'
Alert Type SV X'92'	X'01'	Permanent
Alert Description	X'1410'	Loss of External Power
Probable Causes SV X'93'	X'0220' X'0204'	Main ac Power Supply Power Cord
User Causes SV X'94' SF X'01'	(none).	
Install Causes SV X'95' SF X'01'	(none)	
Failure Causes SV X'96' SF X'01'	X'0220' X'0204' X'0202' X'0205'	Main ac Power Supply Power Cord Internal Power Control Unit Power SubSystem Processor
Actions SV X'96' SF X'81'	X'0200' X'1001' X'3300' X'3000' X'32C0' X'82' SF X'82' SF	Check Power Refer to Operator's Guide for corrective action If problem re-occurs then do the following Contact Appropriate Service Representative Report the following: (Reference Code (x'30')) (Product Alert Reference Code (x'F0'))

Alert Condition: The power control unit has detected a false disturbance in the ac main power source (invalid ac failure).

– MOSS Console Alarm Message —

ALARM A4 : POWER SUBSYSTEM : AC CONTROL REPORTING ERROR

- NetView* Alert - Dynamic

Device Error: Internal Power Control Unit

Subvector and Subfield Keys	Code Points	Causes and Actions		
Alert ID Number SV X'92'		X'83D9C451'		
Alert Type SV X'92'	X'02'	Temporary	· · ·	
Alert Description SV X'92'	X'1002'	Device Error		
Probable Causes SV X'93'	X'0202'	Internal Power Control Unit		an a
User Causes SV X'94' SF X'01'	(none).		: 14 1	
Install Causes SV X'95' SF X'01'	(none)			an an an an an Arrange. The annual an an Arrange
Failure Causes SV X'96' SF X'01'	X'0202' X'0205'	Internal Power Control Unit Power SubSystem Processor		
Actions SV X'96' SF X'81'	X'3300' X'3000' X'32C0' X'82' SF X'82' SF	If problem re-occurs then do the follow Contact Appropriate Service Represer Report the following: (Reference Code (x'30')) (Product Alert Reference Code (x'F0'	ntative	

Alert Condition: The power control unit has detected that the battery voltage (feeding the time-of-day logic) was below a defined threshold.

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- MOSS Console Alarm Message -

ALARM A5 : ASK SERVICE PERSONNEL TO REPLACE BATTERY

– NetView* Alert - Dynamic –

Loss of Electrical Power: MOSS Battery

Subvector and Subfield Keys	Code Points	Causes and Actions
Alert ID Number SV X'92'	-	X'62BBC7A9'
Alert Type SV X'92'	X'11'	Impending
Alert Description	X'1400'	Loss of Electrical Power
Probable Causes SV X'93'	X'0211'	MOSS Battery
User Causes SV X'94' SF X'01'	(none).	
Install Causes SV X'95' SF X'01'	(none)	
Failure Causes SV X'96' SF X'01'	X'0211' X'0202'	MOSS Battery Internal Power Control Unit
Actions SV X'96' SF X'81'	X'3000' X'32C0' X'82' SF X'82' SF	Contact Appropriate Service Representative Report the following: (Reference Code (x'30')) (Product Alert Reference Code (x'F0'))

Alert Condition: An error has occurred in the hardware logic (in the power control) which gives the date and time to the MOSS.

- MOSS Console Alarm Message -----

ALARM A6 : POWER SUBSYSTEM : INTERNAL CLOCK DOWN

---- NetView* Alert - Dynamic ------

Time of Day Clock Failure: Internal Clock

Subvector and Subfield Keys	Code Points	Causes and Actions	
Alert ID Number SV X'92'		X'26337D84'	
Alert Type SV X'92'	X'01'	Permanent	
Alert Description SV X'92'	X'1004'	Time of Day Clock Failure	
Probable Causes SV X'93'	X'0240'	Internal Clock	
User Causes SV X'94' SF X'01'	(none).		
Install Causes SV X'95' SF X'01'	(none)		
Failure Causes SV X'96' SF X'01'	X'0240' X'0202' X'0205'	Internal Clock Internal Power Control Unit Power Subsystem Processor	
Actions SV X'96' SF X'81'	X'3000' X'32C0' X'82' SF X'82' SF	Contact Appropriate Service Representative Report the following: (Reference Code (x'30')) (Product Alert Reference Code (x'F0'))	

Alert Condition: An airflow detector is experiencing a fault condition with a cooling fan of a 3745 power supply (line adapter, channel adapter, LIB1 or LIB2, but not MOSS). A return to normal will be indicated by alert AD.

- MOSS Console Alarm Message -

ALARM A7 : COOLING PROBLEM

- NetView* Alert - Dynamic -

Loss of Equipment Cooling: Cooling Fan

Subvector and Subfield Keys	Code Points	Causes and Actions
Alert ID Number SV X'92'		X'E93DBDA9'
Alert Type SV X'92'	X'01'	Permanent
Alert Description SV X'92'	X'1501'	Loss of Equipment Cooling
Probable Causes SV X'93'	X'0301'	Cooling Fan
User Causes SV X'94' SF X'01'	X'74A1'	Blocked Air Filter
Actions SV X'94' SF X'81'	X'1310' X'1311'	Verify that Air Vents are not covered Check for dirty Filter
Install Causes SV X'95' SF X'01'	(none)	
Failure Causes SV X'96' SF X'01'	X'0301' X'0310' X'0202'	Cooling Fan Air Flow Detector Internal Power Control Unit
Actions SV X'96' SF X'81'	X'3000' X'32C0' X'82' SF X'82' SF	Contact Appropriate Service Representative Report the following: (Reference Code (x'30')) (Product Alert Reference Code (x'F0'))

Alert Condition: The power control shut the MOSS power off due to a fault detection of the MOSS power supply or related fan(s). If a manual attempt to power on the MOSS is successful (intermittent error), then at the end of MOSS IML, a BER is logged and an alarm A8 and its associated alert are generated.

– MOSS Console Alarm Message -

ALARM A8 : MOSS POWER SUPPLY DOWN OR MOSS COOLING PROBLEM

- NetView* Alert - Dynamic -

MOSS Equipment Cool Loos: Cool/Heat Subsystem

(Loss of MOSS Equipment Cooling: Cooling or Heating Subsystem)

Subvector and Subfield Keys	Code Points	Causes and Actions
Alert ID Number SV X'92'		X'519B7E68'
Alert Type SV X'92'	X'01'	Permanent
Alert Description SV X'92'	X'1502'	MOSS Equipment Cooling Loss
Probable Causes SV X'93'	X'0300' X'0200'	Cooling or Heating Subsystem Power Subsystem
User Causes SV X'94' SF X'01'	X'74A1'	Blocked Air Filter
Actions SV X'94' SF X'81'	X'1310' X'1311'	Verify that Air Vents are not covered Check for dirty Filter
Install Causes SV X'95' SF X'01'	(none)	
Failure Causes SV X′96′ SF X′01′	X'0301' X'0310' X'0201' X'0202'	Cooling Fan Air Flow Detector Internal Power Unit Internal Power Control Unit
Actions SV X'96' SF X'81'	X'3000' X'32C0' X'82' SF X'82' SF	Contact Appropriate Service Representative Report the following: (Reference Code (x'30')) (Product Alert Reference Code (x'F0'))

Alert Condition: The pre-defined period for replacing the air filters has expired. Hardware failure due to overheating may occur.

– MOSS Console Alarm message –

ALARM AA : PLAN AIR FILTERS CLEANING WITH SERVICE PERSONNEL

Models 210, 310, 410, 610

– NetView* Alert - Dynamic -

Operator Notification: Air Filter

Subvector and Subfield Keys	Code Points	Causes and Actions
Alert ID Number SV X'92'		X'271C9F51'
Alert Type SV X'92'	X'11'	Impending
Alert Description	X'B000'	Operator Notification
Probable Causes SV X'93'	X'0302'	Air Filter
User Causes SV X'94' SF X'01'	(none).	
Install Causes SV X'95' SF X'01'	(none)	
Failure Causes SV X'96' SF X'01'	X'0302'	Air Filter
Actions SV X'96' SF X'81'	X'3000' X'32C0' X'82' SF X'82' SF	Contact Appropriate Service Representative Report the following: (Reference Code (x'30')) (Product Alert Reference Code (x'F0'))

Alert Condition: An error has been detected during data exchange between MOSS and the power services microcode.

- MOSS Console Alarm Message -----

ALARM AB : POWER SUBSYSTEM : POWER INTERNAL ERROR

— NetView* Alert - Dynamic —

Microcode Program Error: Power Subsyst Procsr

(Microcode Program Error: Power Subsystem Processor)

Subvector and Subfield Keys	Code Points	Causes and Actions			· · ·
Alert ID Number SV X'92'		X'81BF14F6'			
Alert Type SV X'92'	X'01'	Permanent		•	
Alert Description	X'6100'	Microcode Program Error			
Probable Causes SV X'93'	X'0205' X'0001'	Power Subsystem Processor MOSS			
User Causes SV X'94' SF X'01'	(none).				1.
Install Causes SV X'95' SF X'01'	(none)		- -		· · · · · ·
Failure Causes SV X´96´ SF X´01´	X'0002' X'0205' X'0001'	MOSS Microcode Power Subsystem Processor MOSS Hardware			
Actions SV X'96' SF X'81'	X'0613' X'1401' X'0601' X'3300' X'3000' X'32C0' X'82' SF X'82' SF	Dump MOSS Microcode Re-IML MOSS Transfer and Print MOSS Dump If problem re-occurs then do the following Contact Appropriate Service Representative Report the following: (Reference Code (x'30')) (Product Alert Reference Code (x'F0'))			

Alert Condition: An unrecoverable error has been detected by the power subsystem microcode.

— MOSS Console Alarm Message –

ALARM AC : POWER SUBSYSTEM INTERNAL ERROR

– NetView* Alert - Dynamic -

Subsystem Failure: Power Subsystem

Subvector and Subfield Keys	Code Points	Causes and Actions
Alert ID Number SV X'92'		X '56E8E297 '
Alert Type SV X'92'	X'01'	Permanent
Alert Description SV X'92'	X'1600'	Subsystem Failure
Probable Causes SV X'93'	X'0200'	Power Subsystem
User Causes SV X'94' SF X'01'	(none).	
Install Causes SV X'95' SF X'01'	(none)	
Failure Causes SV X'96' SF X'01'	X'0202' X'0205'	Internal Power Control Unit Power Subsystem Processor
Actions SV X'96' SF X'81'	X'3000' X'32C0' X'82' SF X'82' SF	Contact Appropriate Service Representative Report the following: (Reference Code (x'30')) (Product Alert Reference Code (x'F0'))

Alert Condition: The cause of alert A7 or A8 has disappeared.

— MOSS Console Alarm Message —

ALARM AD : COOLING PROBLEM CORRECTED

– NetView* Alert - Dynamic -

Cooling Problem Resolved: Cool/Heat Subsystem

(Impending Cooling Problem Resolved: Cooling or Heating Subsystem)

Subvector and Subfield Keys	Code Points	Causes and Actions
Alert ID Number SV X'92'		X'FE579A90'
Alert Type SV X'92'	X'01'	Permanent
Alert Description SV X'92'	X'A001'	Cooling Problem resolved
Probable Causes SV X'93'	X'0300'	Cooling or Heating Subsystem
User Causes SV X'94' SF X'01'	(none)	
Install Causes SV X'95' SF X'01'	(none)	
Failure Causes SV X'96' SF X'01'	X'0300'	Cooling or Heating Subsystem
Actions SV X'96' SF X'81'	X'0700'	No Action Necessary

Alerts

3745 Product Alert Reference Code B0

Alert Condition: A manual fallback is to be initiated from the 3745 MOSS console. The network operator is notified before switching all resources from one CCU to the other.

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– MOSS Console Alarm messagę –

ALARM B0 : HOST OPERATOR NOTIFIED : FALLBACK TO BE PERFORMED

Models 410, 610

– NetView* Alert - Dynamic -

Operator Notification: COMM Controller BKUP

Subvector and Subfield Keys	Code Points	Causes and Actions	
Alert ID Number SV X'92'		X'23EFF93E'	
Alert Type SV X'92'	X'11'	Impending	
Alert Description	X'B000'	Operator Notification	
Probable Causes SV X'93'	X'3110'	Communication Controller Back-up	
User Causes SV X'94' SF X'01'	X'7000'	Operator	
Actions SV X'94' SF X'81'	X'13A2' X'82' SF X'F0A0' X'82' SF	Deactivate resources attached to (Communication Control Unit (x'34')) For (Product Alert Reference Code (x'F0'))	
Install Causes SV X'95' SF X'01'	(none)		
Failure Causes SV X'96' SF X'01'	(none)		

Alert Condition: A manual fallback on a twin-CCU 3745 has been performed and completed successfully.

– MOSS Console Alarm message –

ALARM B1 : MANUAL FALLBACK OR IPL COMPLETE CCU-x

Models 410, 610

NetView* Alert - Dynamic —

Resources REQ Activation: COMM Controller BKUP

Subvector and Subfield Keys	Code Points	Causes and Actions
Alert ID Number SV X'92'		X'7ED50005'
Alert Type SV X'92'	X'01'	Permanent
Alert Description	X'B004'	Resources Require Activation
Probable Causes SV X'93'	X'3110'	Communication Controller Back-up
User Causes SV X'94' SF X'01'	X'7000'	Operator
Actions SV X'94' SF X'81'	X'13A1' X'82' SF X'F0A0' X'82' SF	Reactivate resources attached to (Communication Control Unit (x'34')) For (Product Alert Reference Code (x'F0'))
Install Causes SV X'95' SF X'01'	(none)	
Failure Causes SV X'96' SF X'01'	(none)	

Alert Condition: A manual fallback has been initiated in twin-backup or standby mode. The fallback operation failed in twin-backup mode.

– MOSS Console Alarm message –

ALARM B3 : MANUAL FALLBACK OR IPL FAILED CCU-x

Models 410, 610

— NetView* Alert - Dynamic —

Device Error: Communication Controller Back-up

Subvector and Subfield Keys	Code Points	Causes and Actions
Alert ID Number SV X'92'		X'633CF68C' -
Alert Type SV X'92'	X'01'	Permanent
Alert Description	X'1002'	Device Error
Probable Causes SV X'93'	X'3110'	Communication Controller Back-up
User Causes SV X'94' SF X'01'	(none)	
Install Causes SV X'95' SF X'01'	(none)	
Failure Causes SV X'96' SF X'01'	X'0003' X'3300' X'0001'	Processor Switch Adapter MOSS Hardware
Actions SV X′96′ SF X′81′	X'3000' X'32C0' X'82' SF X'82' SF X'00B1' X'82' SF	Contact Appropriate Service Representative Report the following: (Communication Control Unit (x'34')) (Reference Code (x'30')) Perform Problem Determination Procedure at reporting location for (Product Alert Reference Code (x'F0')) Review supporting data at Alert Sender

Alert Condition: A switchback is going to be initiated from the 3745 MOSS console. The network operator is notified before switching resources from one CCU to the other.

- MOSS Console Alarm message -

ALARM B4 : HOST OPERATOR NOTIFIED : SWITCHBACK TO BE PERFORMED

Models 410, 610

— NetView* Alert - Dynamic —

Operator Notification: COMM CTRL Recovery

Subvector and Subfield Keys	Code Points	Causes and Actions		
Alert ID Number SV X'92'		X'62698D8A'		
Alert Type SV X'92'	X'11'	Impending	- <u> </u>	
Alert Description	X'B000'	Operator Notification		
Probable Causes SV X'93'	X'310F'	Communication Controller recovery		
User Causes SV X'94' SF X'01'	X'7000'	Operator	· · · · · · · · · · · · · · · · · · ·	
Actions SV X'94' SF X'81'	X'13A2' X'82' SF X'F0A0' X'82' SF	Deactivate resources attached to (Communication Control Unit (x'34')) For (Product Alert Reference Code (x'F0'))		
Install Causes SV X'95' SF X'01'	(none)		· · ·	· · · · · · · · · · · · · · · · · · ·
Failure Causes SV X'96' SF X'01'	(none)			· · · · · · · · · · · · · · · · · · ·

Alert Condition: A switchback has been performed and completed successfully.

--- MOSS Console Alarm message --

ALARM B5 : SWITCHBACK AND IPL COMPLETE CCU-x

Models 410, 610

– NetView* Alert - Dynamic –

Resources REQ Activation: COMM CTRL Recovery

Subvector and Subfield Keys	Code Points	Causes and Actions	
Alert ID Number SV X'92'		X'3F5374B1'	
Alert Type SV X'92'	X'01'	Permanent	
Alert Description	X'B004'	Resources Require Activation	-
Probable Causes SV X'93'	X'310F'	Communication Controller Recovery	
User Causes SV X'94' SF X'01'	X'7000'	Operator	
Actions SV X'94' SF X'81'	X'13A1' X'82' SF X'F0A0' X'82' SF	Reactivate resources attached to (Communication Control Unit (x'34')) For (Product Alert Reference Code (x'F0'))	
Install Causes SV X'95' SF X'01'	(none)		
Failure Causes SV X'96' SF X'01'	(none)		

Alert Condition: Use of some MOSS functions requires that MOSS be set offline via the MOSS Offline (MOF) function.

1. 1.

This alert may also be displayed when the operator started to set MOSS offline and cancelled the operation by pressing the break key. Actual MOSS status is shown in the MSA. Refer to the 3745 *Advanced Operations Guide*.

- MOSS Console Alarm Message -

ALARM B7 : MOSS OFFLINE ON OPERATOR'S REQUEST

NetView* Alert - Dynamic —

Service Subsys Off-Line: Local System Operator

(Service Subsystem Taken Off-Line: Local System Operator)

Subvector and Subfield Keys	Code Points	Causes and Actions
Alert ID Number SV X'92'		X'A9ACBFCC'
Alert Type SV X'92'	X'01'	Permanent
Alert Description	X'B005'	Service Subsystem OFF-Line
Probable Causes SV X'93'	X'7001' X'7002'	Local System Operator Remote System Operator
User Causes SV X'94' SF X'01'	X'7000'	Operator
Actions SV X'94' SF X'81'	X'0700' X'F0A0' X'82' SF	No Action Necessary For (Product Alert Reference Code (x'F0'))
Install Causes SV X'95' SF X'01'	(none)	
Failure Causes SV X'96' SF X'01'	(none)	

Alert Condition: Using the MOSS services, the operator has selected a line adapter (in this case a low-speed scanner) and put it in a disconnected state for the control program.

— MOSS Console Alarm Message -

ALARM B8 : LA nn DISCONNECTED ON OPERATOR'S REQUEST

- NetView* Alert - Dynamic -

Line Adapter Disconnected: Loc System Operator

(Line Adapter Disconnected: Local System Operator)

Subvector and Subfield Keys	Code Points	Causes and Actions
Alert ID Number SV X'92'		X'AE3EA011'
Alert Type SV X'92'	X'01'	Permanent
Alert Description SV X'92'	X'B006'	Line Adapter Disconnected
Probable Causes SV X'93'	X'7001' X'7002'	Local System Operator Remote System Operator
User Causes SV X'94' SF X'01'	X'7000'	Operator
Actions SV X'94' SF X'81'	X'0700'	No Action Necessary
Install Causes SV X'95' SF X'01'	(none)	
Failure Causes SV X'96' SF X'01'	X'33A0' X'82' SF	Line Adapter Multiplexer (Line Adapter Number (x'63'))
Actions SV X'96' SF X'81'	X'1406' X'3300' X'0612' X'0603' X'3000' X'32A0' X'82' SF	Follow Alert Senders Procedures for Resource Activation If problem re-occurs, then do the following Dump Line Adapter Microcode Transfer and Print Line Adapter Dump Contact Appropriate Service Representative Report the following: (Product Alert Reference Code (x'F0'))

Alert Condition: Using the MOSS services, the operator has selected a token-ring adapter and put it in a disconnected state for the control program.

- MOSS Console Alarm Message -

ALARM B9 : TRA xx DISCONNECTED ON OPERATOR'S REQUEST

NetView* Alert - Dynamic -

Token Ring Adapt Disconn: Local System Operator

(Token Ring Adapter Disconnected: Local System Operator)

Subvector and Subfield Keys	Code Points	Causes and Actions	
Alert ID Number SV X'92'		X'7C250E71'	
Alert Type SV X'92'	X'01'	Permanent	
Alert Description SV X'92'	X'B007'	Token-Ring Adapter Disconnected	
Probable Causes SV X'93'	X'7001' X'7002'	Local System Operator Remote System Operator	
User Causes SV X'94' SF X'01'	X'7000'	Operator	
Actions SV X'94' SF X'81'	X'0700' X'F0A0' X'82' SF X'F0A0' X'82' SF	No Action Necessary For (Line Adapter Number (x'63')) For (Product Alert Reference Code (x'F0'))	
Install Causes SV X'95' SF X'01'	(none)		
Failure Causes SV X'96' SF X'01'	(none)		

Alert Condition: Using the MOSS services, the operator has selected a line adapter (in this case a high-speed scanner) and put it in a disconnected state for the control program.

- MOSS Console Alarm Message -

ALARM BA : HSS x DISCONNECTED ON OPERATOR'S REQUEST

– NetView* Alert - Dynamic -

Hgh Speed Line Adapt Disc: Loc System Operator

(High Speed Line Adapter Disconnected: Local System Operator)

Subvector and Subfield Keys	Code Points	Causes and Actions
Alert ID Number SV X'92'		X'9B659A71'
Alert Type SV X'92'	X'01'	Permanent
Alert Description SV X'92'	X'B008'	High Speed Line Adapter Disconnected
Probable Causes SV X'93'	X'7001' X'7002'	Local System Operator Remote System Operator
User Causes SV X'94' SF X'01'	X'7000'	Operator
Actions SV X'94' SF X'81'	X'0700'	No Action Necessary
Install Causes SV X'95' SF X'01'	(none)	
Failure Causes SV X'96' SF X'01'	X'33A0' X'82' SF	Line Adapter Multiplexer (Line Adapter Number (x'63'))
Actions SV X'96' SF X'81'	X'1406' X'3300' X'0612' X'0603' X'3000' X'32A0' X'82' SF	Follow Alert Senders Procedures for Resource Activation If problem re-occurs, then do the following Dump Line Adapter Microcode Transfer and Print Line Adapter Dump Contact Appropriate Service Representative Report the following: (Product Alert Reference Code (x'F0'))

Alert Condition: A manual fallback was initiated in twin-backup or standby mode. During this fallback operation, either a minor error was detected in the switch or a line, or channel adapters could not be put in operational mode.

— MOSS Console Alarm message —

ALARM BB : MANUAL FALLBACK OR IPL COMPLETE WITH ERROR(S) CCU-x

Models 410, 610

– NetView* Alert - Dynamic –

Resources REQ Activation: COMM Controller BKUP

Subvector and Subfield Keys	Code Points	Causes and Actions
Alert ID Number SV X'92'		X'E4F71B03'
Alert Type SV X'92'	X'01'	Permanent
Alert Description SV X'92'	X'B004'	Resources Require Activation
Probable Causes SV X'93'	X'3110'	Communication Controller Back-up
User Causes SV X'94' SF X'01'	(none)	
Install Causes SV X'95' SF X'01'	(none)	
Failure Causes SV X'96' SF X'01'	X'3309' X'3301' X'0003'	Line Adapter Channel Adapter Processor Switch
Actions SV X'96' SF X'81'	X'13A1' X'82' SF X'3000' X'32A0' X'82' SF X'00B1' X'82' SF	Reactivate resources attached to (Communication Control Unit (x'34')) Contact Appropriate Service Representative Report the following: (Reference Code (x'30')) Perform Problem Determination Procedure at the reporting location for (Product Alert Reference Code (x'F0'))
	X'2203'	Review supporting data at Alert Sender

MOSS Console Alarm message -

Alert Condition: A switchback was initiated by the operator from the 3745 MOSS console when in twin-backup or standby mode. During this switchback operation, either a minor error was detected in the switch or a line, or channel adapters could not be put in operational mode.

ALARM BC : SWITCHBACK OR IPL COMPLETE WITH ERROR(S) CCU-x

Models 410, 610

NetView* Alert - Dynamic

Resources REQ Activation: COMM CTRL Recovery

Subvector and Subfield Keys	Code Points	Causes and Actions	
Alert ID Number SV X'92'		X '9BA6A201 '	:
Alert Type SV X'92'	X'01'	Permanent	
Alert Description	X'B004'	Resources Require Activation	
Probable Causes SV X'93'	X'310F'	Communication Controller Recovery	· · · · · · · · · · · · · · · · · · ·
User Causes SV X'94' SF X'01'	(none)	-	
Install Causes SV X'95' SF X'01'	(none)		
Failure Causes SV X'96' SF X'01'	X'3309' X'3301' X'0003'	Line Adapter Channel Adapter Processor Switch	•
Actions SV X'96' SF X'81'	X'13A1' X'82' SF X'3000' X'32A0' X'82' SF X'00B1' X'82' SF	Reactivate resources attached to (Communication Control Unit (x'34')) Contact Appropriate Service Representative Report the following: (Reference Code (x'30')) Perform Problem Determination Procedure at the reporting location for (Product Alert Reference Code (x'F0'))	
	X122031	Review supporting data at Alert Sender	

Alert Condition: A switchback was initiated in twin-backup or standby mode. The switchback operation failed in twin-backup mode.

MOSS Console Alarm message	
ALARM BD : SWITCHBACK OR IPL FAILED CCU-x	
Models 410, 610	

--- NetView* Alert - Dynamic

Device Error: Communication Controller Recovery

Subvector and Subfield Keys	Code Points	Causes and Actions
Alert ID Number SV X'92'		X'1C6D4F8E'
Alert Type SV X'92'	X'01'	Permanent
Alert Description	X'1002'	Device Error
Probable Causes SV X'93'	X'310F'	Communication Controller Recovery
User Causes SV X'94' SF X'01'	(none)	
Install Causes SV X'95' SF X'01'	(none)	
Failure Causes SV X'96' SF X'01'	X'0003' X'3300' X'0001'	Processor Switch Adapter MOSS Hardware
Actions SV X'96' SF X'81'	X'3000' X'32C0' X'82' SF X'82' SF X'00B1' X'82' SF	Contact Appropriate Service Representative Report the following: (Communication Control Unit (x'34')) (Reference Code (x'30')) Perform Problem Determination Procedure at reporting location for (Product Alert Reference Code (x'F0'))
	X'2203'	Review supporting data at Alert Sender

Alert Condition: The service personnel have requested to have a channel adapter (CPU subchannel address) varied off-line by the network operator and have put the channel adapter in a disconnect state for the control program.

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– MOSS Console Alarm Message –

ALARM C0 : CONCURRENT MAINTENANCE ON CA xx : IN PROGRESS

NetView* Alert - Dynamic -

Chan Adapt Maint Procedur: Service Rep

(Channel Adapter Maintenance Procedure: Service Representative)

Subvector and Subfield Keys	Code Points	Causes and Actions
Alert ID Number SV X'92'		X'4CF4A939'
Alert Type SV X'92'	X'01'	Permanent
Alert Description SV X'92'	X'B009'	Channel Adapter Maintenance Procedure
Probable Causes SV X'93'	X'7007'	Service Representative
User Causes SV X'94' SF X'01'	X'7000'	Operator
Actions SV X′94′ SF X′81′	X'0700' X'F0A0' X'82'SF X'F0A0' X'82'SF	No Action Necessary For (Channel Adapter Number (x'62')) For (Product Alert Reference Code (x'F0'))
Install Causes SV X'95' SF X'01'	(none)	
Failure Causes SV X'96' SF X'01'	(none)	

Alert Condition: After a previous alert C0, the service personnel have performed concurrent maintenance on the channel adapter (Diagnostics and Repair), and put the channel adapter in a connect state for the control program using the MOSS Channel Adapter Services (CAS) service function.

– MOSS Console Alarm Message —

ALARM C1 : CONCURRENT MAINTENANCE ON CA xx : COMPLETED

– NetView* Alert - Dynamic -

Problem Resolved: Channel Adapter

Subvector and Subfield Keys	Code Points	Causes and Actions
Alert ID Number SV X'92'		X'05EFE5C6'
Alert Type SV X'92'	X'01'	Permanent
Alert Description SV X'92'	X'A000'	Problem Resolved
Probable Causes SV X'93'	X'3301'	Channel Adapter
User Causes SV X′94′ SF X′01′	X'7000'	Operator
Actions SV X'94' SF X'81'	X'13A1' X'82' SF X'F0A0' X'82' SF	Reactivate resources attached to (Channel Adapter Number (x'62')) For (Product Alert Reference Code (x'F0'))
Install Causes SV X'95' SF X'01'	(none)	
Failure Causes SV X'96' SF X'01'	(none)	

Alerts

3745 Alert Reference Code D0

Alert Condition: A 3745 IPL has been successfully completed on the CCU specified as a result of a general power-on, or an IPL initiated from the 3745 control panel, MOSS console, or host console.

MOSS Console Alarm Message

ALARM D0: 3745 IPL COMPLETE CCU-x

- NetView* Alert - Dynamic -

Resources Req Activation: Communication Ctrl

(Resources Require Activation: Communication Controller)

Subvector and Subfield Keys	Code Points	Causes and Actions		
Alert ID Number SV X'92'		X'8CD5AA63'		· · ·
Alert Type SV X'92'	X'01'	Permanent	*****	· · · · · · · · · · · · · · · · · · ·
Alert Description SV X'92'	X'B004'	Resources Require Activation		
Probable Causes SV X'93'	X'3111'	Communication Controller		
User Causes SV X'94' SF X'01'	X'7000'	Operator		
Actions SV X'94' SF X'81'	X'13A1' X'82' SF X'F0A0' X'82' SF	Reactivate resources attached to (Communication Control Unit (x'34')) For (Product Alert Reference Code (x'F0'))		
Install Causes SV X'95' SF X'01'	(none)	-	·····	••••••••••••••••••••••••••••••••••••••
Failure Causes SV X'96' SF X'01'	(none)			· · · · · · · · · · · · · · · · · · ·

Alert Condition: A 3745 IPL has been successfully completed with minor or non-disruptive errors on the CCU specified as a result of a general power-on, or an IPL initiated from the 3745 control panel, MOSS console, or from the host access method.

– MOSS Console Alarm Message -

ALARM D1 : 3745 IPL COMPLETE WITH NON-BLOCKING ERRORS CCU-x

NetView* Alert - Dynamic

Resources Req Activation: Communication Ctrl

(Resources Require Activation: Communication Controller)

Subvector and Subfield Keys	Code Points	Causes and Actions		
Alert ID Number SV X'92'		X'5C8CF385'		
Alert Type SV X'92'	X'01'	Permanent		
Alert Description	X'B004'	Resources Require Activation	-	
Probable Causes SV X'93'	X'3111'	Communication Controller		
User Causes SV X'94' SF X'01'	X'7000'	Operator		
Actions SV X'94' SF X'81'	X'13A1' X'82'SF	Reactivate resources attached to (Communication Control Unit (x'34'))		
Install Causes SV X'95' SF X'01'	(none)			
Failure Causes SV X'96' SF X'01'	X'3300'	Adapter	5	
Actions SV X'96' SF X'81'	X'3000' X'32C0' X'82'SF X'82'SF	Contact Appropriate Service Represent Report the following: (Reference Code (x'30')) (Product Alert Reference Code (x'F0'))		

3745 Product Alert Reference Code D3

Alert Condition: During the IPL of the twin-CCU 3745 configured in standby mode, the standby CCU was tested and a blocking error has been encountered.

- MOSS Console Alarm message -

ALARM D3 : ERROR DETECTED ON STANDBY CCU-x

Models 410, 610

– NetView* Alert - Dynamic –

Back-Up Resource Failure: Communication CTRL

Subvector and Subfield Keys	Code Points	Causes and Actions
Alert ID Number SV X'92'		X'E39F414C'
Alert Type SV X'92'	X'01'	Permanent
Alert Description	X'1005'	Back-Up Resource Failure
Probable Causes SV X'93'	X'3111'	Communication Controller
User Causes SV X'94' SF X'01'	(none)	
Install Causes SV X'95' SF X'01'	(none)	
Failure Causes SV X'96' SF X'01'	X'0000' X'0101' X'0003'	Processor Main Storage Processor Switch
Actions SV X′96′ SF X′81′	X'3000' X'32D0' X'82' SF X'82' SF X'82' SF	Contact Appropriate Service Representative Report the following: (Communication Control Unit (x'34')) (Referènce Code (x'30')) (Product Alert Reference Code (x'F0'))

3745 Product Alert Reference Code D4

Alert Condition: In twin-standby mode, following the IPL of the running CCU, the standby CCU was tested and IPLed ready for immediate fallback. A minor or non-disruptive error related to the MOSS adapter has been encountered.

- MOSS Console Alarm message -

ALARM D4 : IPL OF STANDBY CCU-x COMPLETE WITH ERRORS

Models 410, 610

– NetView* Alert - Dynamic ————

Adapter Error: MOSS

Subvector and Subfield Keys	Code Points	Causes and Actions
Alert ID Number SV X'92'		X'D3A63E46'
Alert Type SV X'92'	X'01'	Permanent
Alert Description	X'1010'	Adapter Error
Probable Causes SV X'93'	X'0001'	MOSS
User Causes SV X'94' SF X'01'	(none)	
Install Causes SV X'95' SF X'01'	(none)	
Failure Causes SV X'96' SF X'01'	X'0001'	MOSS Hardware
Actions SV X'96' SF X'81'	X'3000' X'32D0' X'82' SF X'82' SF X'82' SF	Contact Appropriate Service Representative Report the following: (Communication Control Unit (x'34')) (Reference Code (x'30')) (Product Alert Reference Code (x'F0'))

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ALAF	M D8: CCU-x LM = xxxxxxx: TIMED IPL CANCELLED hhmmss ref code
ause	
	The battery is down.
	 The scheduled IPL date and time is passed for this load module (or for one of the load modules in the case of 'multiple load module')
	 At the scheduled IPL time the MOSS status did not allow for an automatic IPL, MOSS must be online.
tion	
	 Check if there is also the associated alarm: A5: ASK SERVICE PERSONNEL TO REPLACE BATTERY
	In this case, $ igodot $
	 Check the status of the MOSS and use the DII function to check the timed IPL information. Refer to Guide to Timed IPL and Rename Load Module, SA33-0178. Use the appropriate VTAM command to restart the operations.
te:	The alarm D8 is not generated on receipt of the following VTAM commands from the host:
	 IPL (with the option SAVE) which replaces a load module for which timed IPL was set. Modify Load Module command (MLM) for cancelling a timed IPL. Modify Load Module command (MLM) for replacing or purging a load module for which timed IPL was set.

Cause: Network operator

1

Action: No action if the IPL time, mentioned with the alarm, corresponds to the scheduled IPL time; otherwise, if the time does not correspond, contact the network operator for investigation.

3745 Alert Reference Code D9

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Alert Condition: An IPL of the control program is going to occur soon.

The elapsed time between the receipt of this alert and the IPL has been specified in the NOTIFY keyword of the VTAM 'MODIFY LOAD' command.

To obtain the full benefit of NetView alerts, Network Problem Determination Application (NPDA), also referred to as NetView Hardware Monitor Facility, can be used to monitor all alerts displayed. The NetView Automation Table can be updated to recognize the Timed IPL Alert and generate an appropriate message. (No alert is displayed if the The NetView Automation Table is not updated.)

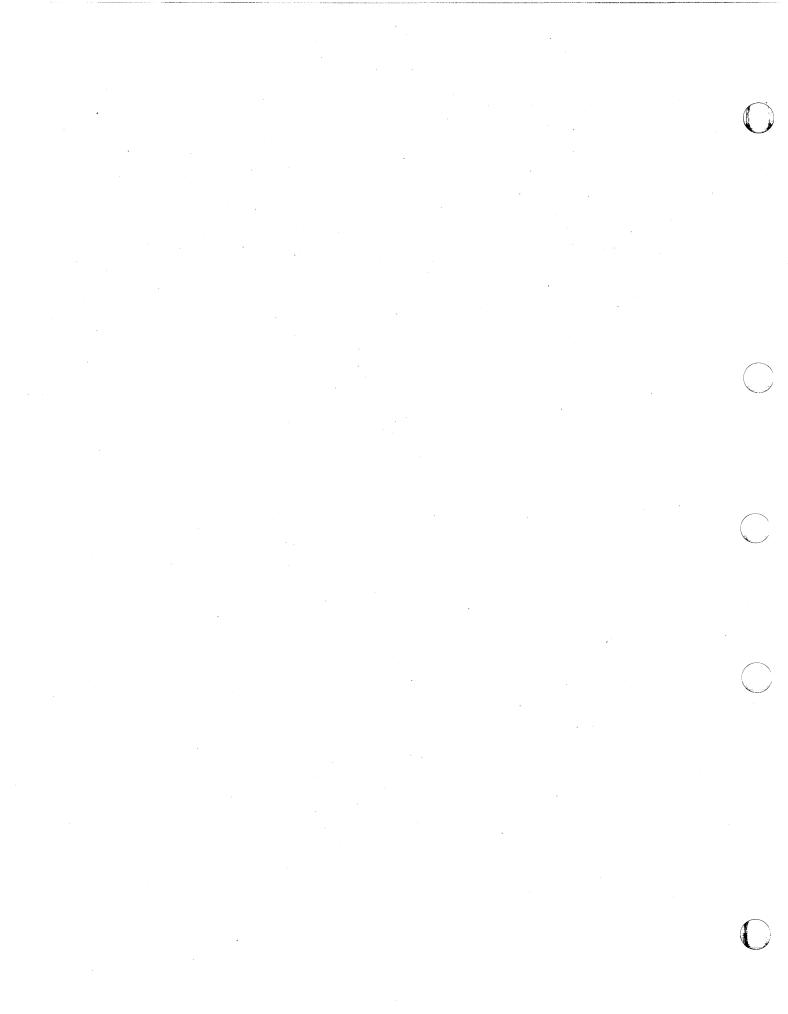
- MOSS Console Alarm Message -

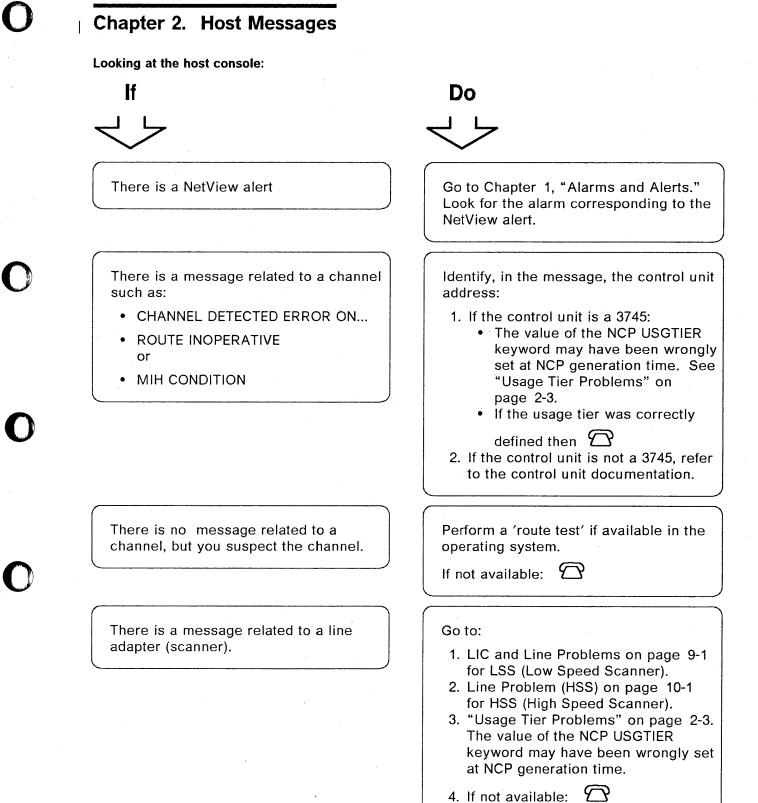
ALARM D9 : CCU-x TIMED IPL TO OCCUR IN hh:mm CHECK VALIDITY

NetView Alert - Dynamic -

TIMED IPL TO OCCUR SOON: NETWORK OPERATOR

Subvector and Subfield Keys	Code Points	Causes and Actions
Alert ID Number SV X'92'		X'C8C275DF'
Alert Type SV X'92'	X'11'	Impending
Alert Description SV X'92'	X'B00A'	Timed IPL to occur soon
Probable Causes SV X'93'	X'7003'	Network operator
User Causes SV X'94' SF X'01'	X'7006'	Network operator
Actions SV X'94' SF X'81'	X'3110' X'F0A0' X'82' SF X'0170' X'01A1' X'82' SF X'32A0' X'82' SF	Contact Communications Systems Programmer For: (Communication Control Unit (X'34')) Verify impending event should occur Verify: (Time hh:mm (X'91')) Report the following: (Product alert reference code (X'F0')) 'D9'
Install Causes SV X'95' SF X'01'	(none)	
Failure Causes SV X'96' SF X'01'	(none)	





Host Messages

Looking at the host console:

There is a message related to several lines of the same line adapter (scanner)

There is a message related to one line only of a LIC.

There is a message related to the token-ring network.

Do

Go to:

- 1. Page 9-7 for LICs 1-4.
- 2. Page 9-31 for LIC5.
- 3. "Usage Tier Problems" on page 2-3. The value of the NCP USGTIER keyword may have been wrongly set at NCP generation time.

4. If not available: \square

Go to page:

- 9-8 for LICs 1-4
- 9-36 for LIC5
- 9-44 for LIC6

Go to:

- 1. Chapter 12, "Token-Ring Interconnection (TRI) Problems."
- Check the value of the NCP USGTIER keyword which may have been wrongly set at NCP generation time for this 3745. See "Usage Tier Problems" on page 2-3.

3. If not available: \square

Usage Tier Problems

1

Beginning with NCP Version 5, usage tiers are available to give you more flexibility in selecting the option that best suits your needs. This flexibility allows you to select the optimal NCP adapted to the 3745 configuration.

The usage tier is defined at NCP generation in the USGTIER keyword belonging to the BUILD macro.

Throughout the next tables the following terms are used:

LSS Low-speed scanner

HSS High-speed scanner

TRA Token-ring adapter

ELA Ethernet LAN adapter

CA Channel adapter

You may be concerned by a usage tier problem:



 For 3745 models 130, 150, 160, or 170 you use NCP V5R2.1 or later.
 For 3745 models 210, 310, 410, or

610 you use NCP V5R1 or later.

An NCP command (ACTLINK) to activate a link is rejected with an NCP exception response. (sense code X'0801 0006')

This may be due to a line that is associated with a line adapter not valid for the usage tier generated in the NCP. Do

Go to:

1. Table 2-1 on page 2-5. 2. Table 2-2 on page 2-7.

to determine which adapter positions are allowed by a particular usage tier.

Check if you meet the following usage tier rules:

- The tiers are based only on the physical positions of the adapters. Refer to Table 2-1 on page 2-5 and Table 2-2 on page 2-7 to determine adapter positions allowed by a particular usage tier.
- An upgrade of the 3745 hardware must be followed by a change of the usage tier level.
 When upgrading both hardware and software on models 130, 150, 160, or 170, the software must be upgraded first.

• If not available:

| Usage Tier Problems for Models 130, 150, 160, and 170

| The following table indicates the maximum configurations for each usage tier.

Table 2-1 (Page 1 of 2). Usage Tiers for 3745 Models 130, 150, 160, and 170

Tiers	LSS/HSS	TRA/ELA	CA
Tier 1	1 HSS	1 TRA or 1 ELA	2 CAs
ïer 2	2 HSSs	1 TRA	2 CAs
ier 2.5	2 HSSs	2 TRAs	4 CAs
	1 HSS	1 TRA and 1 ELA	4 CAs
		2 ELAs	4 ČAs
lier 3	1 HSS	2 TRAs and 1 ELA	4 CAS
		2 TRAs and 2 ELAs	4 CAs

3745 Model 150

Tiers	LSS/HSS	TRA/ELA	CA	
Tier 1	1 LSS	1 TRA or 1 ELA		
Tier 2	1 LSS and 1HSS	1 TRA		
Tier 2.5	1 LSS	1 TRA and 1 ELA		

3745 Model 160

Tiers	LSS/HSS	TRA/ELA	CA
Tier 1	1 LSS or 1 HSS	1 TRA or 1 ELA	
Tier 2	2 LSSs	1 TRA or 1 ELA	
	1 LSS and 1 HSS	1 TRA or 1 ELA	
	2 HSSs	1 TRA	
Tier 2.5	2 LSSs and 2 HSSs		
	2 LSSs	1 TRA and 1 ELA	
	2 LSSs	2 ELAs	<u></u>
	1 LSS and 1 HSS	1 TRA and 1 ELA	
Tier 3	2 LSSs	1 TRA and 2 ELAs	
	2 LSSs and 1 HSS	1 TRA and 1 ELA	
	2 LSSs and 2 HSSs	1 TRA	

Table 2-1 (Page 2 of 2). Usage Tiers for 3745 Models 130, 150, 160, and 170

3745	Model	170

Tiers	LSS/HSS	TRA/ELA	CA
Tier 1	1 LSS or 1 HSS	1 TRA or 1 ELA	2 CAs
Tier 2	2 LSSs	1 TRA or 1 ELA	2 CAs
	1 LSS and 1 HSS	1 TRA or 1 ELA	2 CAs
	2 HSSs	1 TRA	2 CAs
Tier 2.5	4 LSSs and 2 HSSs		4 CAs
	2 LSSs	1 TRA and 1 ELA	4 CAs
	2 LSSs	2 ELAs	4 CAs
	1 LSS and 1 HSS	1 TRA and 1 ELA	4 CAs
Tier 3	4 LSSs and 2 HSSs		4 CAs
	4 LSSs	1 TRA and 2 ELAs	4 CAs
	3 LSSs and 1 HSS	1 TRA and 1 ELA	4 CAs
	2 LSSs and 2 HSSs	1 TRA	4 CAs
Tier 4	4 LSSs and 1 HSS	1 TRA and 1 ELA	4 CAs
	4 LSSs and 2 HSSs	1 TRA	4 CAs

Usage Tier Problems for Models 210, 310, 410, and 610

| The following table indicates the **maximum** configurations for each usage tier.

		3745			3746 A-11	
Usage Tiers	LSS/HSS	TRA/ELA	CA	LSS	CA	LSS
Tier 1	1 LSS or HSS	1 TRA or ELA	2 CAs			
Tier 2	2 LSSs or HSSs	1 TRA or ELA	2 CAs			
Tier 2.5	6 LSSs or HSSs		4 CAs			
	2 LSSs or HSSs	2 TRAs or ELAs	4 CAs			•
Tier 3	8 LSSs or HSSs		8 CAs			
	4 LSSs or HSSs	4 TRAs or ELAs	8 CAs			
Tier 4	8 LSSs or HSSs		8 CAs	16 LSSs	8 CAs	
	4 LSSs or HSSs	4 TRAs and 4 ELAs	8 CAs	16 LSSs	8 CAs	
		8 ELAs	8 CAs	16 LSSs	8 CAs	
Tier 5	8 LSSs or HSSs		8 CAs	16 LSSs	8 CAs	8 LSSs
	4 LSSs or HSSs	4 TRAs and 4 ELAs	8 CAs	16 LSSs	8 CAs	8 LSSs
		8 ELAs	8 CAs	16 LSSs	8 CAs	8 LSSs
Note: LSS/HSS For two	or more, the total	can be any co	mbination of b	1996 or 1996 in	n to the maximu	n number
indicate		can be any co		1003 01 2008 U		
TRA/ELA For two indicate	or four, the total d	can be any con	bination of TF	RAs or ELAs up	to the maximum	number
Tier 3 Fits the	configuration of 3	745 models 210), 310, 410, an	d 610 base fram	ne.	
The second			0740 044	. ,		

Tier 4 Is required when using any adapter on a 3746-A11 expansion frame.

Tier 5Is required when using any adapter on a 3746-A12 expansion frame.

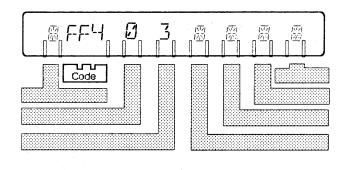
Host Messages

Chapter 3. Hexadecimal Codes on the Control Panel

Hexadecimal codes are displayed on the control panel to indicate:

- The progression of a function (for example, IPL).
- The status of the components.
- An error. In this case, the code blinks.

Check the list below for any action.



Code	Explanation and Action
000	3745 IPL has been successfully completed. The control program is loaded and MOSS is online.
001 or 002	
003	MOSS re-IML started. If this code remains more than 2 minutes:
004 or 005	
006	 A circuit breaker has been set OFF then ON. Do not take into account this panel code if it occurred after you set OFF and ON a circuit breaker. Failure in AC input. Check the main AC power source, then power on the 3745 using the control panel. Refer to the 3745 Basic Operations Guide. If the problem persists:
007 or 008	
009 to 00A	 Power problem. Do not power off the 3745, but do the following: Re-IML MOSS from the control panel. Refer to the 3745 Basic Operations Guide. When MOSS is IMLed, log on the operator console. Refer to the 3745 Basic Operations Guide. Check the alarms and take appropriate actions (see Chapter 1). If the problem persists

Code	Explanation and Action
00Bor 00C	Models 130, 150, 160, 170
	Power problem. This problem may happen when the 3745 is powered on less than 10 seconds after a power off. Do the following:
	 From the control panel, select the function 1 (MOSS IML). Press power on. (Wait 10 seconds to power on after a power off action.) When MOSS is IMLed, log on the operator console. Refer to the 3745 Basic Operations Guide.
•	4. Check the alarms and take appropriate actions (See Chapter 1, "Alarms and Alerts")
	5. If the problem persists: \bigcirc
	Models 210, 310, 410, 610
	Power problem. Do not power off the 3745, but do the following:
	 Re-IML MOSS from the control panel. Refer to the 3745 Basic Operations Guide. When MOSS is IMLed, log on the operator console. Refer to the 3745 Basic Operations Guide. Check the alarms and take appropriate actions (see Chapter 1).
	4. If the problem persists
00D to 00F	Models 130, 150, 160, 170
	Power problem. This problem may happen when the 3745 is powered on less than 10 seconds after a power off. Do the following:
	1. From the control panel, select the function 1 (MOSS IML).
	 Press power on. (Wait 10 seconds to power on after a power off action.) When MOSS is IMLed, log on the operator console. Refer to the 3745 Basic Operations Guide.
	4. Check the alarms and take appropriate actions (See Chapter 1, "Alarms and Alerts")
	5. If the problem persists: \bigcirc
	Models 210, 310, 410, 610
	Power problem. Do not power off the 3745, but do the following:
	 Re-IML MOSS from the control panel. Refer to the 3745 Basic Operations Guide. When MOSS is IMLed, log on the operator console. Refer to the 3745 Basic Operations Guide. Check the alarms and take appropriate actions (see Chapter 1).
	 4. If the problem persists

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Coc	de	Explanation and Action
	10 to 44	Models 130, 150, 160, 170
		Power problem. This problem may happen when the 3745 is powered on less than 10 seconds after a power off. Do the following:
		 From the control panel, select the function 1 (MOSS IML). Press power on. (Wait 10 seconds to power on after a power off action.) When MOSS is IMLed, log on the operator console. Refer to the 3745 Basic Operations Guide. Check the alarms and take appropriate actions (See Chapter 1, "Alarms and Alerts") If the problem persists:
		Models 210, 310, 410, 610
		 Power problem. Do not power off the 3745, but do the following: Re-IML MOSS from the control panel. Refer to the 3745 Basic Operations Guide. When MOSS is IMLed, log on the operator console. Refer to the 3745 Basic Operations Guide. Check the alarms and take appropriate actions (see Chapter 1).
	·	4. If the problem persists \square
0 4	45	Models 130, 150, 160, 170
		Normal progression of the microprogram, if this code remains more than 2 minutes:
		Models 210, 310, 410, 610
		CCU-A power off due to overheating.
0 4	46	Models 130, 150, 160, 170
		Normal progression of the microprogram, if this code remains more than 2 minutes:
		Models 210, 310, 410, 610
,		CCU-B power off due to overheating.

Code	Explanation and Action
047to 04F	Models 130, 150, 160, 170
	Normal progression of the microprogram, if this code remains more than 2 minutes:
	Models 210, 310, 410, 610
	Power problem. Do not power off the 3745, but do the following:
	 Re-IML MOSS from the control panel. Refer to the 3745 Basic Operations Guide. When MOSS is IMLed, log on the operator console. Refer to the 3745 Basic Operations Guide. Check the alarms and take appropriate actions (see Chapter 1).
-	4. If the problem persists
050 to 0E3	
0 E 4	The diskette is wrongly inserted (upside down). Insert it correctly.
0 E 5 to 1 4 9	
14A	The diskette is missing. Insert it correctly.
14B to 19F	8
1 A 0	Wrap plug not plugged or incorrectly plugged on the local console cable, or problem on the console cable. Go to Chapter 17, "Console Link Test"
1 A 1	Problem on the local console cable. Go to Chapter 17, "Console Link Test."
1 A 2	Problem in the 3745 for the local console link.
1 A 3	Wrap plug not plugged or incorrectly plugged on the remote or alternate console cable, or problem on the console cable. Go to Chapter 17, "Console Link Test."
1 A 4	Problem on the remote or alternate console cable. Go to Chapter 17, "Console Link Test."
1 A 5	Problem in the 3745 for the remote or alternate console link.
1 A 6	Wrap plug not plugged or incorrectly plugged on the RSF console cable, or problem on the console cable. Go to Chapter 17, "Console Link Test."
1 A 7	Problem on the RSF console cable. Go to Chapter 17, "Console Link Test."
1 A 8	Problem in the 3745 for the RSF console link.
1 A 9 to 1 B 0	8
1 B 1	Start of the local console link test.
1 B 2	Completion of the local console link test.

Code	Explanation and Action
1 B 3	Start of the remote or alternate console link test.
1 B 4	Completion of the remote or alternate console link test.
1 B 5	Start of the RSF console link test.
1 B 6	Completion of the RSF console link test.
1 B 7 to D 0 0	6
D 0 1 or D 0 2	IPL the 3745 in diskette mode. Refer to the 3745 Basic Operations Guide and
D 0 3 or D 0 4	
D 0 5 or D 0 6	IPL the 3745 in diskette mode. Refer to the 3745 Basic Operations Guide and
D 0 7	\mathcal{T}
D 0 8 to D 0 E	IPL the 3745 in diskette mode. Refer to the 3745 Basic Operations Guide and
D 0 F or D 1 0	\square
D 1 1 to D 1 3	IPL the 3745 in diskette mode. Refer to the 3745 Basic Operations Guide and
D 1 4 to D 1 F	
D 2 0	IPL the 3745 in diskette mode. Refer to the 3745 Basic Operations Guide and
D 2 1	\mathcal{T}
D 2 2	IPL the 3745 in diskette mode. Refer to the 3745 Basic Operations Guide and
D 2 3 to D 2 7	
D 2 8	IPL the 3745 in diskette mode. Refer to the 3745 Basic Operations Guide and
D 2 9 to D 2 F	

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Code	Explanation and Action
D 3 0	The disk or diskette is not ready. In diskette mode:
030	Check that the diskette is correctly mounted.
	Check that the diskette latch is correctly set.
	• If the problem persists: 2
D 3 1 to D 3 4	IPL the 3745 in diskette mode. Refer to the 3745 Basic Operations Guide and \square
D 3 5	The diskette is a read-only diskette (notch is covered). Mount another diskette of the same type (primary or secondary) on which you can write.
D 3 6	• Disk error. Restore the disk from the diskette. Refer to the Disk functions described in the 3745 Advanced Operations Guide.
	• If the problem persists:
D 3 7 or	$\overline{\Delta}$
D 3 8	
D 3 9 to D 3 C	IPL the 3745 in diskette mode. Refer to the 3745 Operations Guide and
D 3 D	 In disk mode: Restore the disk from the diskette. Refer to the Disk functions described in the 3745 Advanced Operations Guide.
	• In diskette mode:
D3Eor D3F	IPL the 3745 in diskette mode. Refer to the 3745 Basic Operations Guide and
D 4 0 to	 In disk mode: Restore the disk from the diskette. Refer to the Disk functions described in the 3745 Advanced Operations Guide.
D44	• In diskette mode:
D 4 5	Diskette formatting error. Remove the diskette.
	Insert the diskette and make sure that:
	The diskette is not damaged.
	The diskette is correctly inserted.
	The drive latch is correctly closed.
	Repeat the format procedure. If the diskette is not successfully formatted.
	You cannot use this diskette to save your disk.
	 This diskette must be discarded (or returned to your supplier).
	Get a new diskette.
	Repeat this initialization procedure.
	If the problem persists:
D46 to D4F	IPL the 3745 in diskette mode. Refer to the 3745 Basic Operations Guide and

[Code	Explanation and Action
	D 5 0	Check that the diskette is correctly mounted.
		Check that the diskette latch is correctly set.
-		• If the problem persists:
	D 5 1 to	
	DF7	
	DF8	Wrong diskette. Mount the correct diskette.
	DF9or DFA	• In disk mode: Restore the disk from the diskette. Refer to the Disk functions described in the 3745 Advanced Operations Guide.
		• In diskette mode:
	DFB to DFD	• In disk mode: Restore the disk from the diskette. Refer to the Disk functions described in the 3745 Advanced Operations Guide.
1		If the problem persists: \square
		 In diskette mode: (Function 9 on the control panel) Check the type of the diskette. If correct, mount the backup diskette.
		If the problem persists:
· · · · ·	D F E or D F F	IPL the 3745 in diskette mode. Refer to the 3745 Basic Operations Guide and
	E00 to EFF	\mathfrak{T}
	F00	Start of the MOSS dump. If this code remains more than 2 minutes:
	F 0 1	Completion of the MOSS dump.
	F02	Start of the MOSS IML. If this code remains more than 2 minutes: \square
	F 0 3 to F 0 5	Normal progression of the MOSS IML. If this code remains more than 2 minutes:
	F06 or F07	
	F08 to F0C	Normal progression of the MOSS IML. If this code remains more than 2 minutes:
	FOD	ත
	FOE	Successful completion of the MOSS IML. MOSS is alone.
	FOF	IPL complete in diskette mode. Successful completion of the MOSS IML. CCU is running. MOSS is offline. If this state is not due to a MOSS Offline function and seems to be an abnormal situation, re-IML the MOSS. If
		the error persists:

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Code	Explanation and Action
F 1 0 to F 1 4	Models 130, 150, 160, 170
	Re-IPL the 3745. If the problem persists: A and give the reference code of the related alarms 24, 25 or D2.
	Models 210, 310, 410, 610
	If this code applies to:
	• The active CCU (an IPL message is displayed in the MSA), re-IPL the 3745.
	If the problem persists,
	 The standby CCU (TEST CHECK Fxx is displayed in the MSA), the active CCU is initialized. Do not re-IPL the 3745. If a problem occurs on the active CCU, the fallback to
	the standby CCU will not be possible:
F 1 5	\bigcirc and give the reference code of the related alarm 25 or D2.
F 1 6 to F 2 7	Models 130, 150, 160, 170
	Re-IPL the 3745. If the problem persists: $$ and give the reference code of the related alarm 25 or D2.
	Models 210, 310, 410, 610
	If this code applies to:
	• The active CCU (an IPL message is displayed in the MSA), re-IPL the 3745.
	If the problem persists,
	• The standby CCU (TEST CHECK Fxx is displayed in the MSA), the active CCU is initialized. Do not re-IPL the 3745. If a problem occurs on the active CCU, the fallback to
	the standby CCU will not be possible:
F 2 8	Models 130, 150, 160, 170
	Re-IPL the 3745. If the problem persists: \bigcirc and give the reference code of the related alarm 25 or D2.
	Models 210, 310, 410, 610
	In IPL diskette mode, the failed diskette mounted in the disk drive. Refer to the 3745 Basic Operations Guide.

	Code	Explanation and Action
J	F 2 9 to F 2 E	Models 130, 150, 160, 170
		Re-IPL the 3745. If the problem persists: and give the reference code of the related alarm 25 or D2.
		Models 210, 310, 410, 610
		If this code applies to:
		• The active CCU (an IPL message is displayed in the MSA), re-IPL the 3745.
		If the problem persists, \square
		• The standby CCU (TEST CHECK Fxx is displayed in the MSA), the active CCU is initialized. Do not re-IPL the 3745. If a problem occurs on the active CCU, the fallback to
		the standby CCU will not be possible: \square
للخفيص	F 2 F	On channel attached controller, this error code may be due to:
		 A channel adapter problem. Check the alarms and take appropriate actions (see Chapter 1).
		- If the problem persists $\widehat{\Box}$
		On link attached controller, this error code may be due to:
D		 A link IPL port not defined properly. Refer to the MOSS LKP function in the 3745 Advanced Operation Guide. A cable that may not be attached to the port you defined as link IPL port. An IPL performed on a remote controller linked to a local controller by a switched X.21 link, an X.25 (SVC/PVC) link, or a token-ring. In this case, an initial loading of the remote controller is recommended, the link IPL port being valid only for a SDLC link. Refer to the procedure described in 3720/3745 Remote Loading/Acivation Guide (SA33-0161) or to the MOSS DII function of the 3745 Advanced Operations Guide.
	-	• If the problem persists \square
	F 3 0 to F 3 3	Models 130, 150, 160, 170
		Re-IPL the 3745. If the problem persists: \bigcirc and give the reference code of the related alarm 25 or D2.
		Models 210, 310, 410, 610
		If this code applies to:
		• The active CCU (an IPL message is displayed in the MSA), re-IPL the 3745.
		If the problem persists,
		• The standby CCU (TEST CHECK Fxx is displayed in the MSA), the active CCU is initialized. Do not re-IPL the 3745. If a problem occurs on the active CCU, the fallback to
		the standby CCU will not be possible: \bigodot

Code	Explanation and Action
F 3 4 to F 4 7	Models 130, 150, 160, 170 Re-IPL the 3745. If the problem persists: and give the reference code of the related
	alarm 25 or D2.
	Models 210, 310, 410, 610
	6
F48	Models 130, 150, 160, 170
	Re-IPL the 3745. If the problem persists: \bigcirc and give the reference code of the related alarm 25 or D2.
	Models 210, 310, 410, 610
	If this code applies to:
	• The active CCU (an IPL message is displayed in the MSA), re-IPL the 3745.
	If the problem persists, \square
	• The standby CCU (TEST CHECK Fxx is displayed in the MSA), the active CCU is initialized. Do not re-IPL the 3745. If a problem occurs on the active CCU, the fallback to
	the standby CCU will not be possible:
F49	Models 130, 150, 160, 170
	Re-IPL the 3745. If the problem persists: \bigcirc and give the reference code of the related alarm 25 or D2.
	Models 210, 310, 410, 610
	5

	Code	Explanation and Action
i	F4Aor F4B	Models 130, 150, 160, 170
		Re-IPL the 3745. If the problem persists: \square and give the reference code of the related alarm 25 or D2.
		Models 210, 310, 410, 610
•		If this code applies to:
		• The active CCU (an IPL message is displayed in the MSA), re-IPL the 3745.
		If the problem persists, \square
		 The standby CCU (TEST CHECK Fxx is displayed in the MSA), the active CCU is initialized. Do not re-IPL the 3745. If a problem occurs on the active CCU, the fallback to
		the standby CCU will not be possible:
	F4C	Models 130, 150, 160, 170
		Re-IPL the 3745. If the problem persists: \bigcirc and give the reference code of the related alarm 25 or D2.
		Models 210, 310, 410, 610
		\square
	F 4 D to F 5 8	Models 130, 150, 160, 170
		Re-IPL the 3745. If the problem persists: \bigcirc and give the reference code of the related alarm 25 or D2.
		Models 210, 310, 410, 610
		If an automatic re-IPL at the failing CCU does not occur, re-IPL the 3745.
		If the problem persists, \square
	F 5 9	Models 130, 150, 160, 170
		Error detected during MOSS IML. The IPL is not possible on the CCU. \square
		Models 210, 310, 410, 610
		Error detected during MOSS IML. The IPL is not possible on one of the CCUs.
	F5Ato F5F	

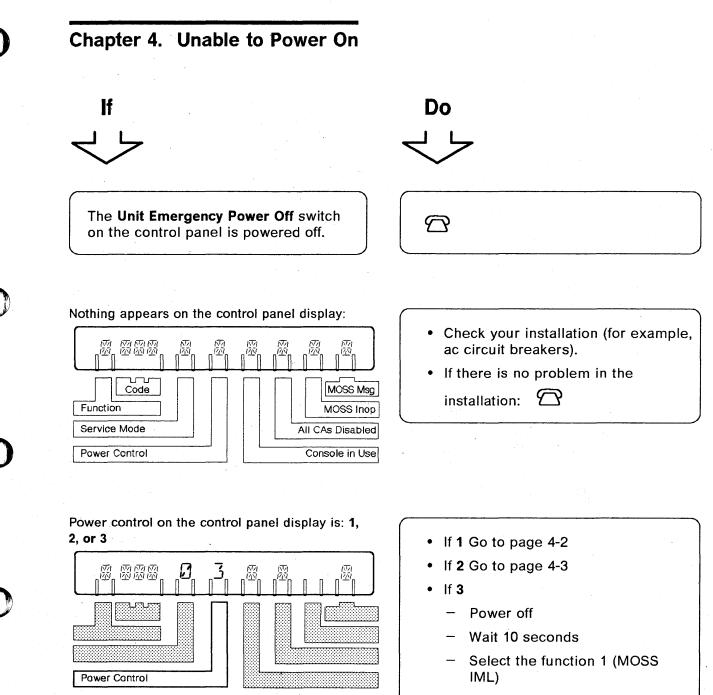
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 \square

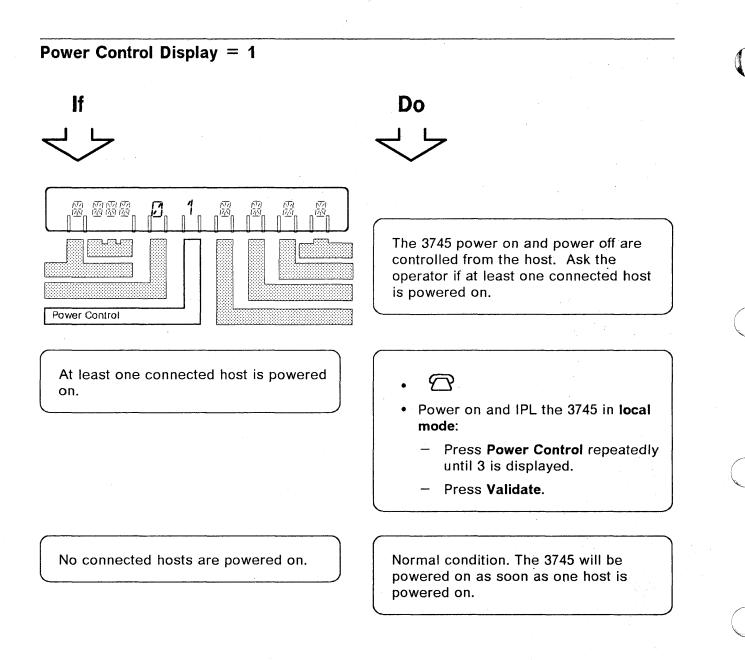
Code	Explanation and Action	
F60	Models 130, 150, 160, 170	
	Error detected during MOSS IML. The IPL is not possible on the CCU.	
	Models 210, 310, 410, 610	
	Error detected during MOSS IML. The IPL is not possible on either CCU. \frown	
F61	Re-IPL. If the problem persists: and give reference code of the related alarm D2	
F62 to FCF	\frown and give the reference code of the related alarm 25 or D2.	
FD0	Models 130, 150, 160, 170	
	Normal progression of the microprogram, if this code remains more than 2 minutes:	
	Models 210, 310, 410, 610	
	Completion of fallback.	
FD1	Models 130, 150, 160, 170	
	Normal progression of the microprogram, if this code remains more than 2 minutes:	
	Models 210, 310, 410, 610	
	Completion of fallback with errors.	
FD2	Models 130, 150, 160, 170	
	Normal progression of the microprogram, if this code remains more than 2 minutes:	
	Modeis 210, 310, 410, 610	
	Completion of switchback.	
FD3	Models 130, 150, 160, 170	
	Normal progression of the microprogram, if this code remains more than 2 minutes:	
	Models 210, 310, 410, 610	
	Completion of switchback with errors.	
		VI 1

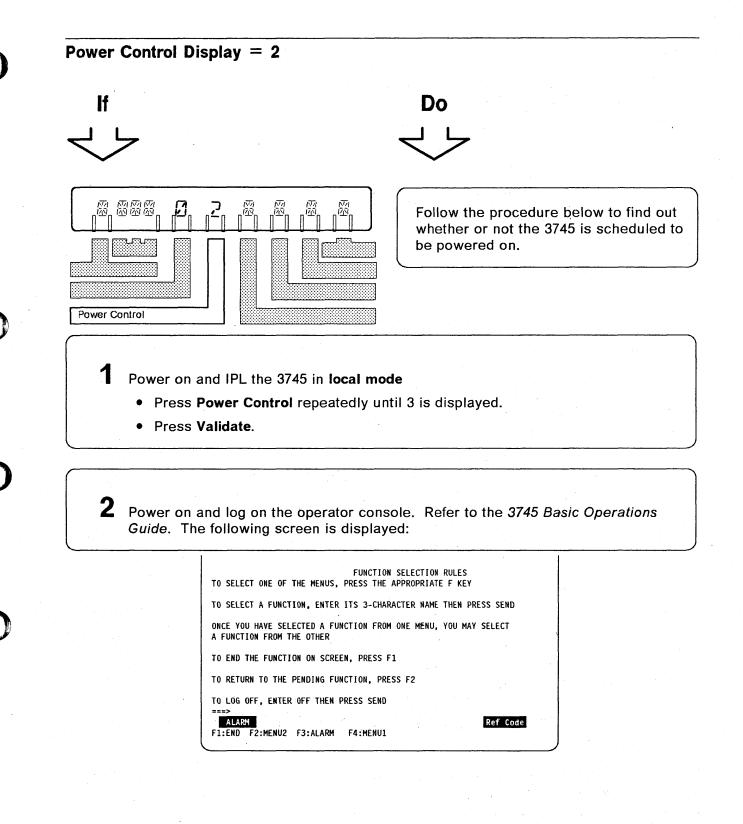
	Code	Explanation and Action	
	FD4	Models 130, 150, 160, 170	
		Normal progression of the microprogram, if this code remains more than 2 minutes:)
		Models 210, 310, 410, 610	
		Fallback in progress. If this code remains more than 2 minutes:	
	FD5	Models 130, 150, 160, 170	
		Normal progression of the microprogram, if this code remains more than 2 minutes:)
		Models 210, 310, 410, 610	
	-	Switchback in progress. If this code remains more than 2 minutes: \square	-
	FD6	Control program load from disk in progress. If this code remains more than 2 minutes:	
	FD7	Control program dump to disk in progress.	
	F U /	If this code remains more than 2 minutes: \square	
	FD8	Control program save on disk in progress. If this code remains more than 2 minutes:	
	FD9	Models 130, 150, 160, 170	
		Normal progression of the microprogram, if this code remains more than 2 minutes:	1
		Models 210, 310, 410, 610	
		Standy CCU test in progress	
F	FDA	Models 130, 150, 160, 170	
		Normal progression of the microprogram, if this code remains more than 2 minutes: \widehat{igsim}	I
		Models 210, 310, 410, 610	
		Standby CCU test canceled on operator's request.	
	DB o	\square	
	EF		
F	= F 0	Start of 3745 IPL. Depending on the configuration, this code may stay displayed up to 8	
		minutes. If it remains more than 8 minutes: \square	

Code	Explanation and Action
FF1	3745 IPL phase one. Depending on the configuration, this code may stay displayed up to 8
	minutes. If it remains more than 8 minutes:
FF2	3745 IPL phase two. Depending on the configuration, this code may stay displayed up to 8
	minutes. If it remains more than 8 minutes:
FF3	3745 IPL phase three. Depending on the configuration, this code may stay displayed up to 8
	minutes. If it remains more than 8 minutes:
FF4	3745 IPL phase four. The control program is to be loaded from the host. If the 3745 is link-attached, the time necessary to IPL the 3745 depends on the size of the load module and line speed on the link. If this code remains more than 5 minutes, after load is started at the host, go to Chapter 8, "IPL Problems (From Host or Disk)."
FF5	Control program(s) being loaded (channel-attached 3745 only). Depending on the configuration, this code may stay displayed up to 8 minutes. If it remains more than 8 minutes:
FF6	Control program(s) being loaded (link-attached 3745 only).
FF7	The control program is loaded.
FF8	
FF9	Models 130, 150, 160, 170 Normal progression of the microprogram. If this code remains more than 2 minutes: Models 210, 310, 410, 610 Switchback canceled on operator's request.
FFA	An error has been detected on the local console adapter during the IPL. Perform a console link test (Chapter 17, "Console Link Test").
FFB	IPL canceled on operator's request.
FFC	Models 130, 150, 160, 170
	Normal progression of the microprogram, if this code remains more than 2 minutes:
	Models 210, 310, 410, 610
	Fallback canceled on operator's request.
FFD	IPL complete in diskette mode.
FFE	IPL complete with non-disruptive errors.
FFF	MOSS is offline following operator's request (refer to the MOF function in the 3745 Advanced Operations Guide).

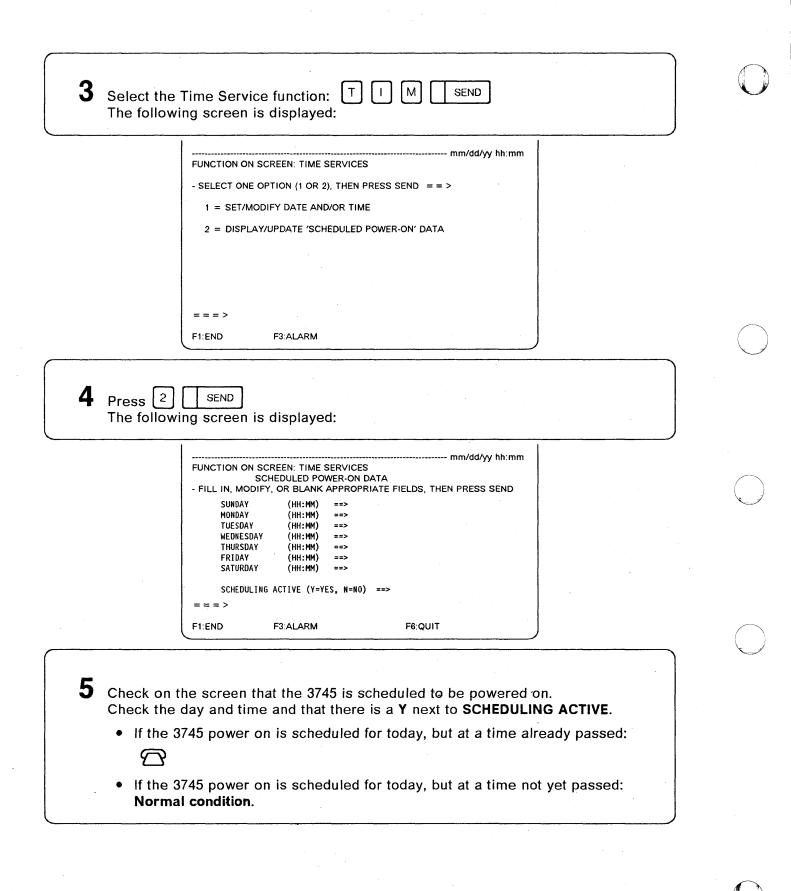


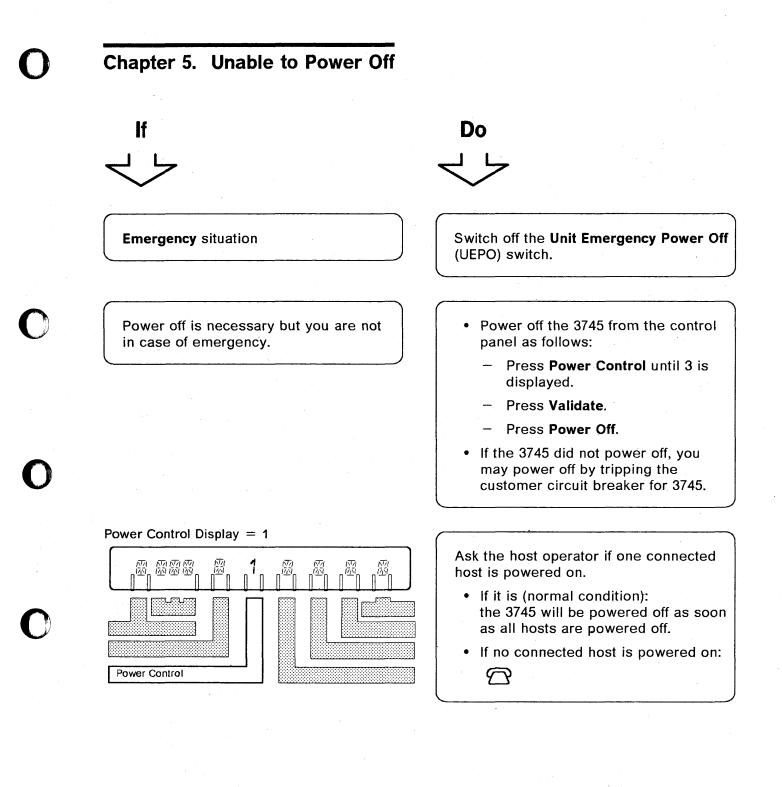
- Power on
 - If the problem persists: $\,\,igoplus$



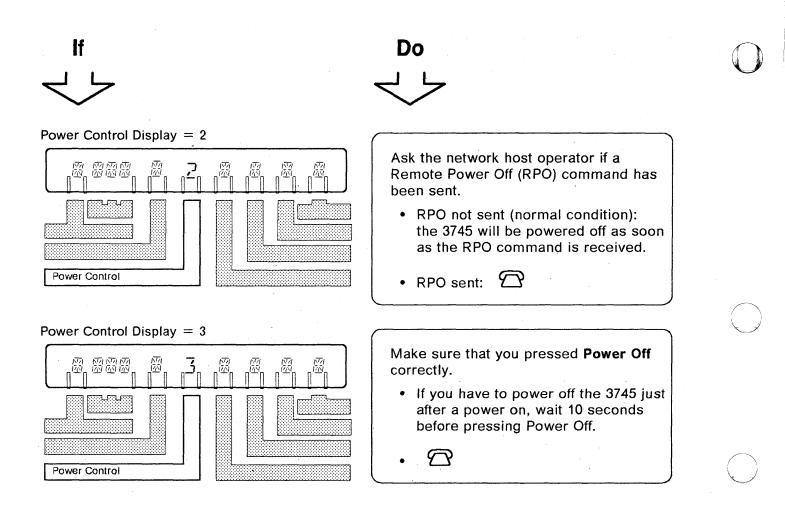


Unable to Power On





Unable to Power Off



Chapter 6. Local or Alternate Operator Console Problems

- Be sure that console setup and console switching are well done. Refer to the following documents:
 - 3745 Console Setup Guide.
 - 3745 MOSS Console Switching card.
 If this card is no longer available at your console, the information is now included in the 3745 Basic Operations Guide.
- Select the most appropriate entry and take the required action.

Looking at the console:



The following Channel Adapter State screen is not displayed after console power on.

Do

Check if the contrast and brightness control knob of the screen is well adjusted. If the adjustment is normal, go to page 6-5

INTERFACE	CA INTERFACE DISPLAY					
	CHANGE	E/D	INTERFACE	HOST OR	CHANNEL	NSC
NUMBER	E/D REQ	REQUEST	STATUS	SWITCH UNIT	ADDRESS	ADDRESS
1A			-			
2A		-	-			
3A	. ·		· _			
4A		-	-			
5A	==>	E	ENABLED			40
5B	==>	D	DISABLED			41
7A	==>	D	DISABLED			42
8A		-	-			

F4:MOSS FUNCTIONS F5:UPDATE

No answer after correct password, or no answer during console session.

UNAUTHORIZED ACCESS - TERMINAL DISCONNECTED is displayed.

Go to page 6-9

Ask the person who has the management password to reset the logon attempt counters.

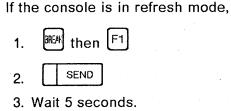
Local/Alternate Console Problems

Looking at the console:



Incomprehensible information or unexpected characters appear on the screen.

Do



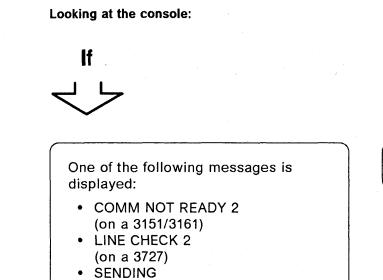
- 4. SEND
- 5. If the problem persists:
 - Be sure that the console setup is well done, refer to the 3745 *Console Setup Guide*
 - Perform console tests described in the console documentation.
- If there is no problem on the console: Perform a console link test (see Chapter 17).

One of the following messages is displayed:

- TERMINAL DISCONNECTED FOR LOCAL CONSOLE or
- TERMINAL DISCONNECTED FOR ALTERNATE CONSOLE or
- TERMINAL DISCONNECTED FOR REMOTE CONSOLE
- TERMINAL DISCONNECTED FOR RSF CONSOLE

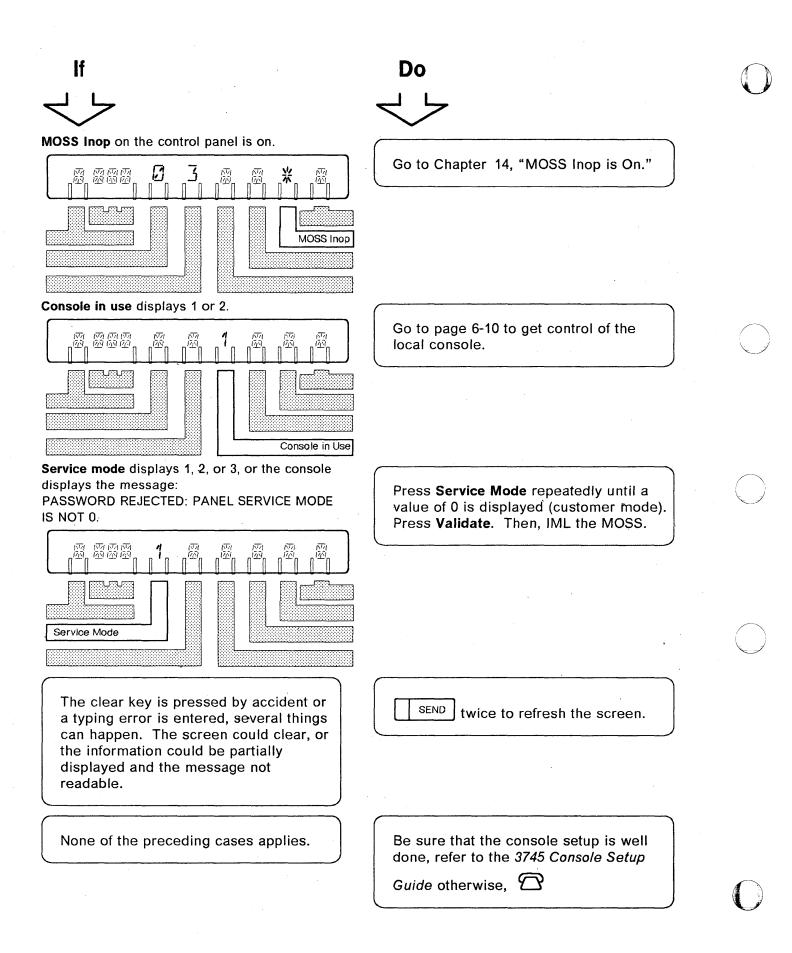
or

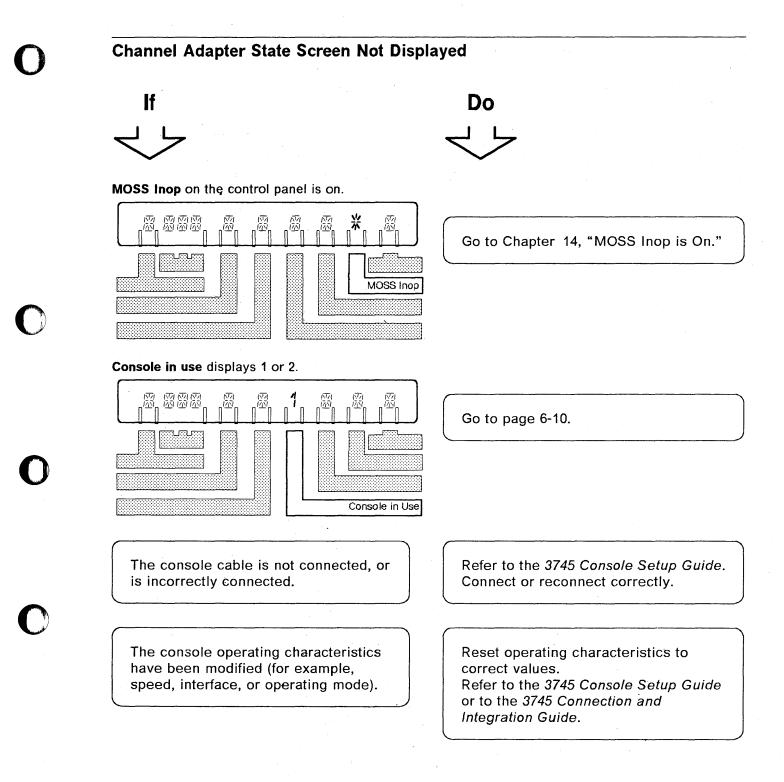
Go to page 6-10 to get control of the local console.

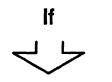


(blinking on an IBM PC or PS/2*).

Go to page 6-7.







None of the preceding cases applies.

Do
Do
Do
Do
Do
Do
Do
Be sure that the console setup is well done, refer to the 3745 Console Setup Guide.
Perform a console link test (see Chapter 17). If there is no problem on the console link, perform the console problem determination described in the console documentation.
If the problem persists:

COMM NOT READY 2, LINE CHECK 2, or SENDING Messages

COMM NOT READY 2 is displayed either on the IBM* 3151, or on the 3161 Display Station.

LINE CHECK 2 is displayed on the IBM* 3727 Display Station.

SENDING is displayed on the IBM PC or PS/2*.

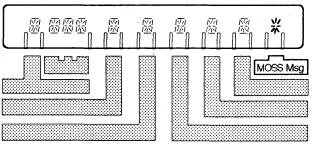
~->

lf

The 3745 is powered off.

The remote console modem interface is not CCITT V.24 or EIA 232D.

MOSS Inop on the control panel is on.



Power on the 3745.

Do

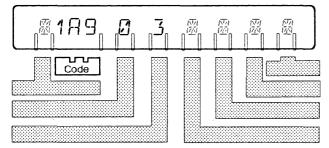
Use a remote console modem with a CCITT V.24 or an EIA 232D interface.

Go to Chapter 14, "MOSS Inop is On."



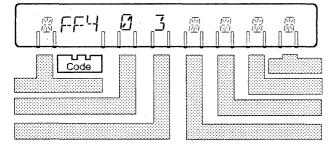


The hex code on the control panel is an error code. Refer to: Hexadecimal Codes on the Control Panel on page 3-1



The hex code on the control panel is **not** an error code.

Refer to: Chapter 3, "Hexadecimal Codes on the Control Panel" on page 3-1.



Perform the action required for that

code then \bigcirc if recommended.

IML MOSS: Refer to the 3745 Basic Operation Guide. If the problem persists after IML of the MOSS:

- Check that the console operating characteristics have not been modified. Refer to the 3745 *Connection and Integration Guide* and to the 3745 *Console Setup Guide.* Make sure that the console cable is correctly plugged in. If not, plug it in correctly and IML the MOSS from the control panel.
- If you cannot solve the problem, perform a console link test (see Chapter 17).

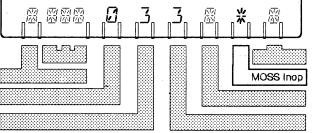
The clear key is pressed by accident or a typing error is entered, several things can happen. The screen could clear, or the information could be partially displayed and the message not readable.

None of the preceding cases applies.

SEND twice to refresh the screen.

 \square

No Answer After Correct Password or During Console Session Do lf MOSS Inop on the control panel is off. 感感感 网 í 6 巡 Go to Chapter 14, "MOSS Inop is On." IML MOSS. If the problem persists: • Be sure that the console setup is MOSS Inop well done, refer to the 3745 Console Setup Guide • Then perform the problem determination of the console. Refer to the console documentation. MOSS Inop on the control panel is on. ĥ

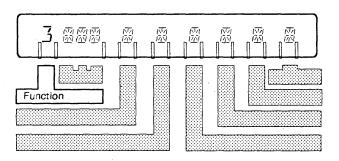


Go to Chapter 14, "MOSS Inop is On."

1

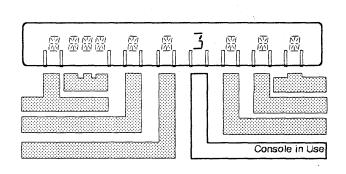
Getting Control of the Local Console When the Remote or RSF Console Is Logged On

Press **Function** repeatedly until 3 is displayed, then press **Validate**. This informs the remote or RSF operator that you want to log on.



2 When Console in Use displays 3, the remote or RSF console is disconnected. You may log on at the local console.

If 3 does not appear, go to next step.



0

3 Press Function repeatedly until 4 is displayed, then press Validate. The remote or RSF console is immediately disconnected. Console in Use displays 3. If the local console is powered on, the following screen is displayed.

You may log on at the local console.

If the following screen is not displayed:

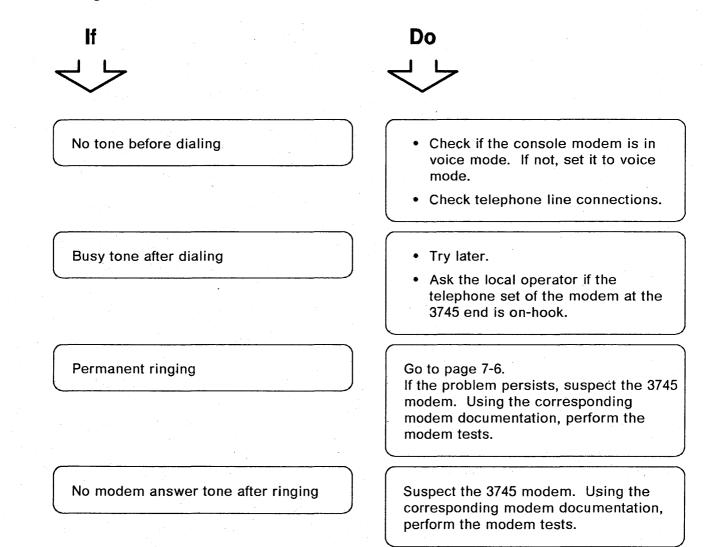
- Be sure that the console setup is well done, refer to the 3745 Console Setup Guide.
- Otherwise, 岔

INTERFACE NUMBER	CHANGE E/D REO	E/D. REQUEST	INTERFACE	ERFACE DISPLAY HOST OR SWITCH UNIT	CHANNEL ADDRESS	NSC ADDRES
		•				
1A		-	-			
2A		-	-			
3A		-	-			
4A		- '	-			
5A	==>	E	ENABLED			4
58	==>	D	DISABLED			4
7A	==>	D	DISABLED			4
8A		- '	-			
	R D TO CH	ANGE THE E	- NABLE/DISABI	LE REQUEST, TH	EN PRESS	

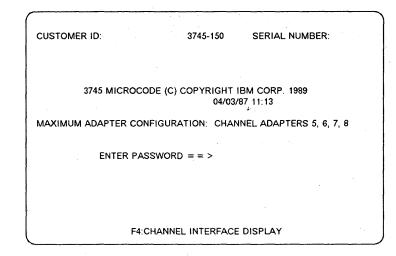


- If the remote console is an IBM PC, check that it is in emulation mode (3101 emulation program is loaded).
- · Check that the console modem is powered on.
- Be sure that console setup and console switching are well done. Refer to the following documents:
 - 3745 Console Setup Guide.
 - 3745 MOSS Console Switching card.
 If this card is no longer available at your console, the information is now included in the 3745 Basic Operations Guide
- Select the most appropriate entry and take the required action.

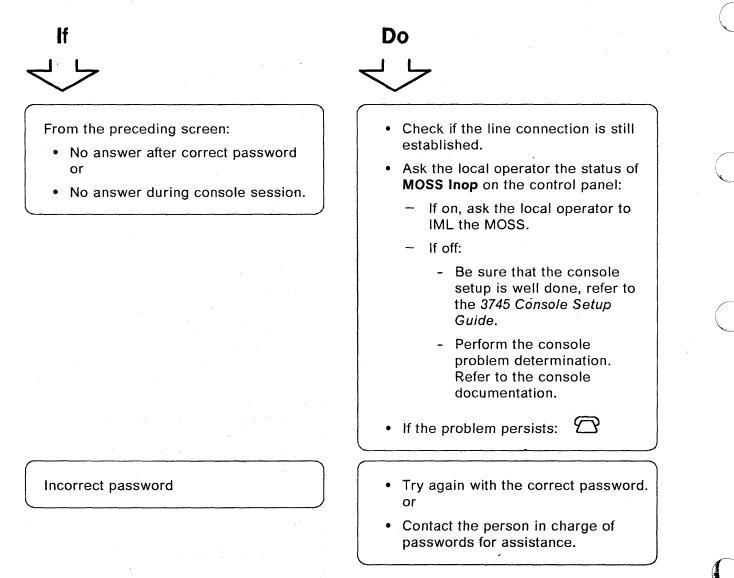
Looking at the remote console:



Remote Console Problems



Looking at the remote console:



Looking at the remote console:

UNAUTHORIZED ACCESS - TERMINAL DISCONNECTED is displayed.

Incomprehensible information or unexpected characters appear on the screen.

The password screen (shown on page

modem during answer tone.

The 3745 is powered off.

7-2) is not displayed once the console is connected to the 3745 when passing from voice to data mode on console If the console is in refresh mode,

management password to reset the

The authorized number of logon attempts has been exceeded. The

console is disconnected.

logon attempts counters.

Ask the person who has the

1.	BREAK then	F1

Do

- 2. SEND
- 3. Wait 5 seconds.
- 4. SEND
- 5. If the problem persists:

• Be sure that the console setup is well done, refer to the 3745 *Console Setup Guide*.

- Perform console tests described in the console documentation.
- If there is no problem on the console, perform a console link test (see Chapter 17, "Console Link Test").

Go to page 7-8.

Ask the local operator to power it on.

Remote Console Problems

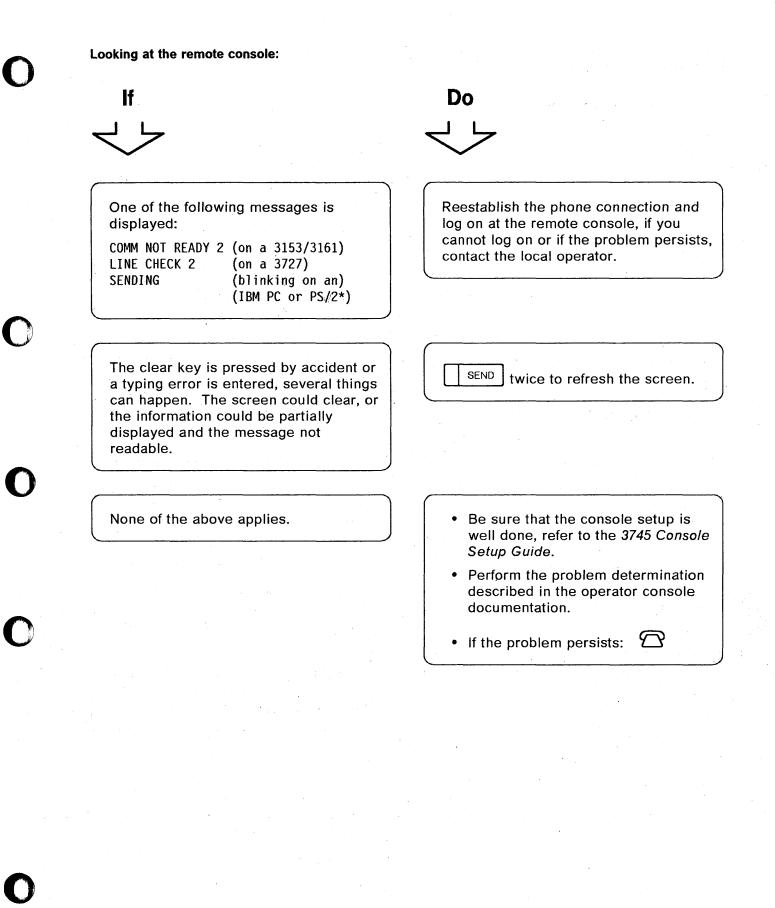
Looking at the control panel or the remote console:





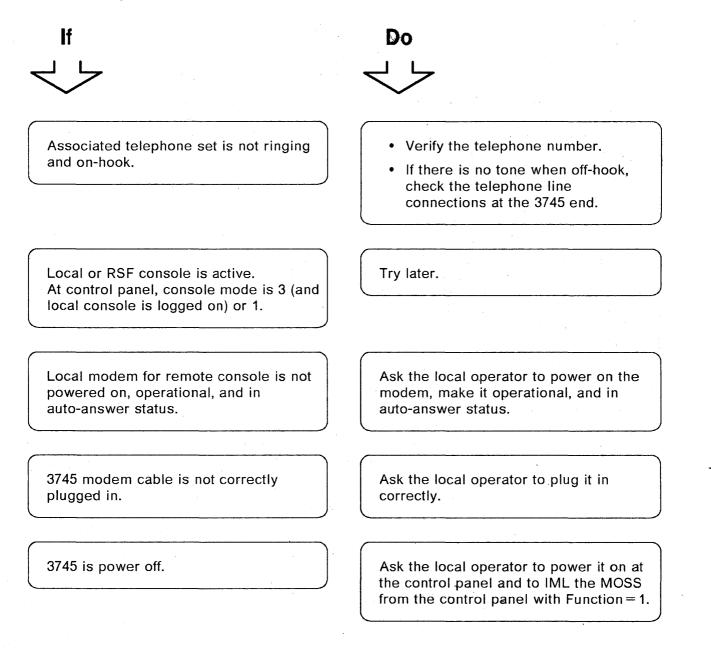
After asking the local operator, **MOSS Inop** on the control panel is on.

0 3 圆 國國國國 Ask the local operator to IML the MOSS. D · N MOSS Inop The following message is displayed: Reestablish the phone connection and TERMINAL DISCONNECTED try to log on at the remote console, if you cannot log on, contact the local console operator. The following message is displayed: Reestablish the phone connection and TIMEOUT OCCURRED - TERMINAL try to log on at the remote console DISCONNECTED again, if you cannot log on, contact the This occurs because the console has local console operator. not been in used for 30 minutes. FUNCTION ON SCREEN: FUNCTION PENDING: TIMEOUT OCCURRED - TERMINAL DISCONNECTED ===> F1:END F2:MENU1 F3:ALARM



Permanent Ringing

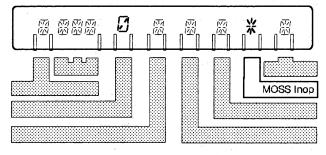
Ask the local operator to check



Ask the local operator to check at the control panel:

lf

MOSS Inop on the control panel is on.

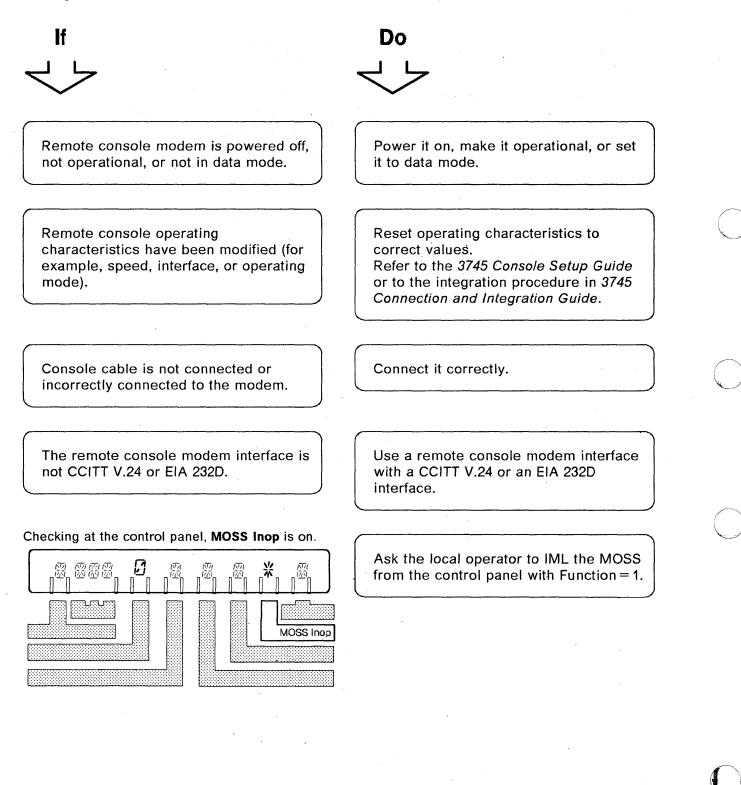




Ask the local operator to IML the MOSS from the control panel with Function = 1.

No Password Screen Displayed

Looking at the remote console:



Looking at the remote console:



None of the preceding cases applies.

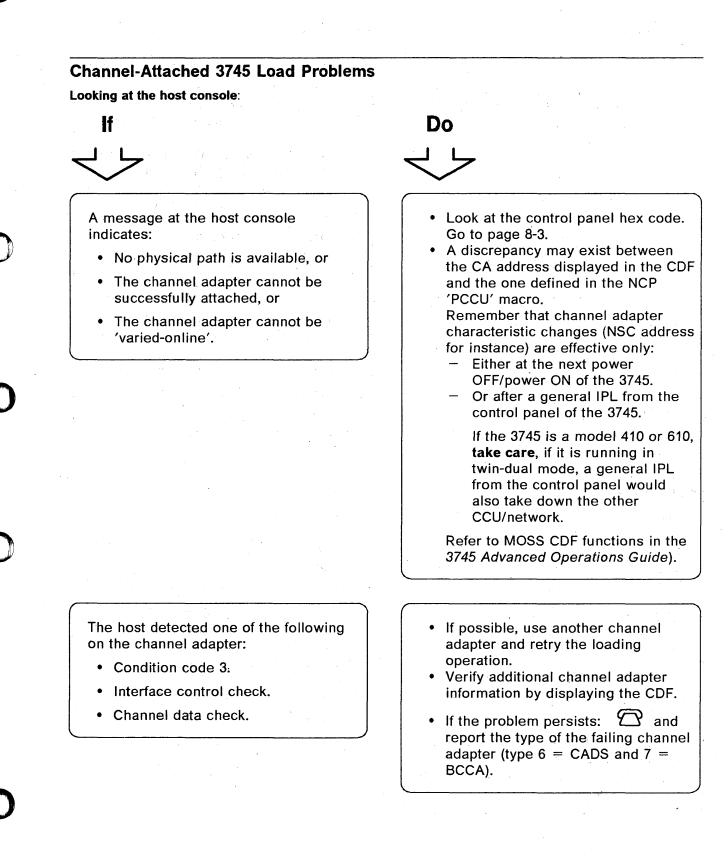
Do

Perform a console link test (see Chapter 17).

- If there is no problem on the console link, run modem tests. Refer to your modem documentation.
- If there is a problem on the console link, perform actions required in the console link test procedure.

Remote Console Problems

Chapter 8. IPL Problems (From Host or Disk)



8-1

Looking at the host console:

⊫ L

A message at the host console indicates an unsuccessful load (load from the host).

The control program activation fails.

Any other messages at the host console.

Looking at the MOSS console:



Following a load from the host, the control program initialization fails with an abend code of X'7000'.

Use the MOSS ELD function to display the alarms and to check the abend codes.

The abend code is displayed in the MSA field of the MOSS screen but may be displayed for a short period of time and not being noticed.

Do J J

- 1. On the 3745, note the hex code on the control panel and the alarm (with the reference code, if any) on the console.
- 2. Re-IPL the 3745. When the control panel displays the hex code FF4, do not load the control program.
- 3. Take a control program dump from the host and check the control program generation parameters.
- 4. \bigtriangleup with the reference code.

Check the control program node address and the control program name.

Ask the host operator to perform appropriate action.

Do



Check the value of the NCP USGTIER keyword which may have been wrongly set at NCP generation time for this 3745. See "Usage Tier Problems" on page 2-3.

If the usage tier was correctly defined,

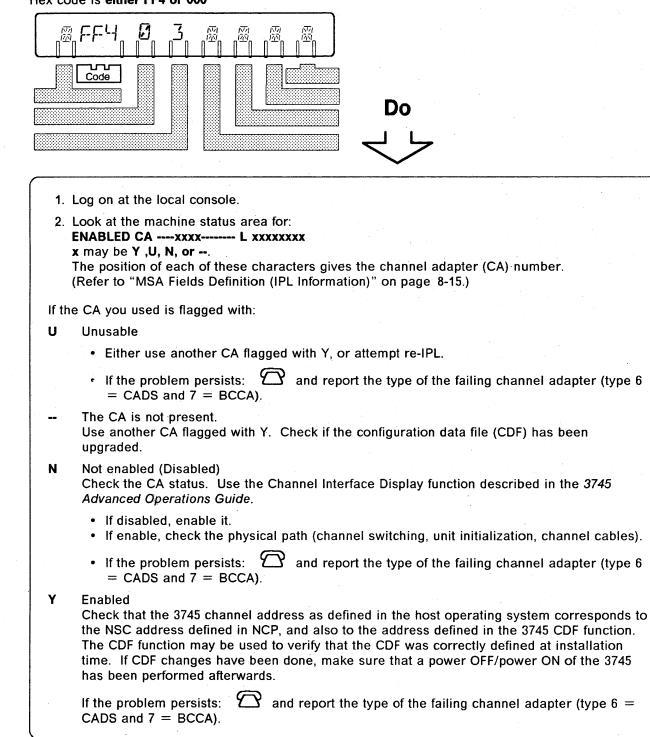
then 🗇

IPL Problems (Channel-Attached)

Looking at the control panel:



Hex code is either FF4 or 000



IPL Problems (Channel-Attached)

Looking at the control panel: lf Do Hex code is neither FF4 nor 000 If the hex code is neither FF4 nor 000, 兩兩兩兩 函 0 闷闷 巖 函 perform the action required for that code. Code Go to Chapter 3, "Hexadecimal Codes on the Control Panel." 影影影 宓 Go to Chapter 14, "MOSS Inop is On." 应 <u>i7</u> MOSS Inop 愿 Power on at the operator console. An alarm is displayed. Perform the action required for the alarm (see Chapter 1). MOSS Msg

Link-Attached 3745 Load Problems

Looking at the host console:

lf

The IPL link cannot be activated at the host.

During the remote loading/activation procedure, the following VTAM* message is displayed at the host console: IST5481 SOFT INOP FAILED

- Check if there is an alarm on the local 3745 related to the problem. If there is, perform the action required for the alarm (see Chapter 1).
- Check if the local modem is powered on and operational. For example, not in test mode.
- Check the modem cable to the LIC. (Correct cable group or part number, and plugged in at both ends.)

Refer to: "Program Abend on a Remote Controller" on page 8-12 and to the 3720/3745 Remote Loading/Activation Guide, SA33-0161 for detailed information.

Looking at the host console:



A message at the host console indicates an unsuccessful loading or activation of the remote control program (load/activation from the host).

1. On the local 3745

• An alarm is displayed at the MOSS console.

If the alarm is related to the problem, perform the action required for that alarm (see Chapter 1).

Do

2. On the remote 3745

- An alarm is displayed at the MOSS console.
 - If the alarm is related to the problem, perform the action required for that alarm (see Chapter 1).
 - Note the hex code on the control panel, go to Chapter 3 and perform the action required for that code.
 - Check the IPL port configuration on the 3745. Refer to the MOSS LKP function of the 3745 Advanced Operations Guide.
 - Re-IPL the remote 3745. When the control panel displays the hex code FF4, do not load the control program.
 - From the host, Using a VTAM command, get a dump of the remote control program.
- No alarm is displayed at the MOSS console.
 - If you are performing a remote loading/activation (RLA) procedure, to help you in solving your problem, you can refer to:
 - "Remote Loading/Activation Overview" on page 8-10.
 - "Remote Loading/Activation Problems and Messages" on page 8-11.
 - 3720/3745 Remote Loading/Activation Guide, SA33-0161 for detailed information.
 - Use the VTAM 'MODIFY LL2' command or the NetView 'LL2' command (on a nonswitched SDLC link) to test the link between the two NCPs.
 Refer to VTAM Operation or NetView Operation documentations for detailed information.
 - Check at both ends of the link that:
 - The link modem is powered on and operational (for example, not in test mode).
 - The modem cable to the LIC has correct cable group, or part number, and is plugged in at both ends.

Looking at the remote MOSS console:

If.



Following a load from host, the control program initialization fails with an abend code of X'7000'.

Use the MOSS ELD function to display the alarms and to check the abend codes.

The abend code is displayed in the MSA field of the MOSS screen but may be displayed for a short period of time and not being noticed.

The loading or activation of the control program fails while you are performing a remote loading/activation procedure. Check the value of the NCP USGTIER keyword which may have been wrongly set at NCP generation time for this 3745. See "Usage Tier Problems" on page 2-3.

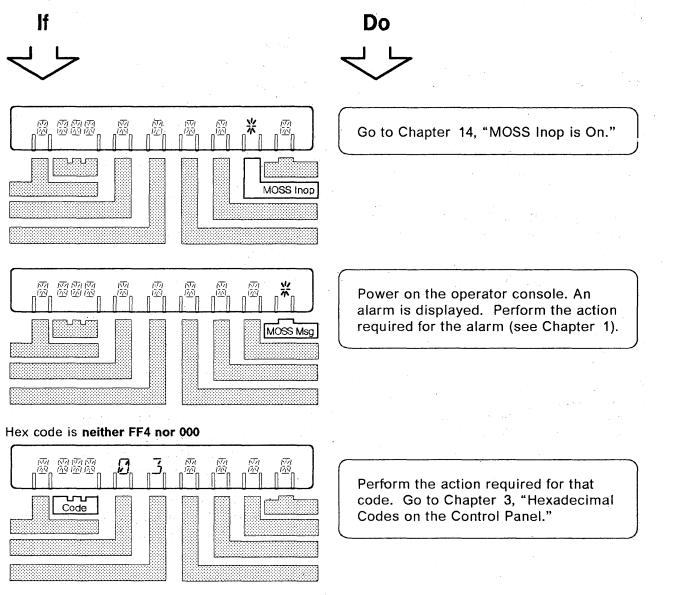
If the usage tier was correctly defined

then \square

Refer to:

- "Remote Loading/Activation Overview" on page 8-10.
- "Remote Loading/Activation Problems and Messages" on page 8-11.
- 3720/3745 Remote Loading/Activation Guide SA33-0161 for detailed information.

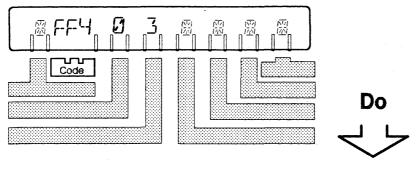
Looking at the remote 3745 side:



Looking at the remote 3745 side:



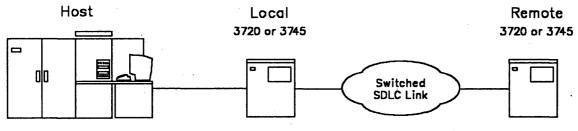
Hex code is either FF4 or 000



- If the control program is to be loaded from the host:
 - Check the IPL port configuration on the 3745. Refer to the 3745 Advanced Operations Guide.
- If the configuration is correct, perform one of the following:
 - Modem self-test on both ends and end-to-end modem test for LIC1 to LIC4 and LIC5 or LIC6
 - Refer to page 9-30 for LIC1 to LIC4.
 - Refer to page 9-31 or 9-36 for LIC5.
 - Refer to page 9-44 for LIC6.
 - Refer to your modem documentation.
 - The LIC and line problem procedure (see Chapter 9).
 - Stand alone link test on the link-attached 3745 (see the MOSS SAT function on the 3745 Advanced Operations Guide). The channel attached controller, loaded with the control program, acts as a responder.
 - If the problem is not solved, start a link IPL port trace. Select this option on the screen used to define the link IPL port (see the MOSS LKP function on the 3745 Advanced Operations Guide).

igoplus Traced data will be analyzed by the service representative.

Remote Loading/Activation Overview



Through Switched/Nonswitched SDLC and Nonswitched X.21



- The remote initial loading can be performed by using VTAM* commands from the host.
- A link IPL port (LKP) must be defined in the remote controller.

Through Switched X.21, X.25 (SVC/PVC), and Token-Ring

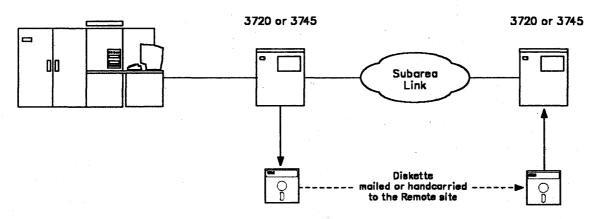


Figure 8-2. Initial Loading on Switched X.21, X.25 (SVC/PVC), and Token-Ring Links

- The remote initial loading can be performed only by using the diskette management procedure. Refer to the 3720/3745 Remote Loading/Activation Guide or to the MOSS DII function described in the 3745 Advanced Operations Guide.
- Those links do not require a link IPL port (LKP) definition in the remote controller.

Remote Loading/Activation Problems and Messages

Below is a list of messages that can be displayed at the MOSS console when using the remote loading/activation procedure (diskette management option of the MOSS DII function).

Refer to "Remote Loading/Activation Overview" on page 8-10 for an overview of the procedure.

DISKETTE BADLY INITIALIZED

Cause: Depending on the microcode level, this message may be replaced by the following one: DISKETTE UNFORMATTED.

Action: See DISKETTE UNFORMATTED.

DISKETTE UNFORMATTED

Cause: The diskette is not formatted.

Action: Select the DIF function to format the diskette.

FILE NOT AVAILABLE ON DISK

Cause:

- · The file is already opened, a disk operation is going on.
- · You specified a wrong load module name.
- Action: Restart the operation later.

FILE NOT AVAILABLE ON DISKETTE

Cause: There is no load module on the diskette.

Action: Replace, or generate another diskette.

LOAD IN PROGRESS, FUNCTION NOT AVAILABLE

Cause:

• A load module is being transferred onto the disk (issued by an MLM command from the host).

Action: Wait for the end of the current operation and restart the function. Refer to the DII function in the 3745 Advanced Operations Guide.

LOAD MODULE TOO BIG, CANNOT BE COPIED TO DISKETTE

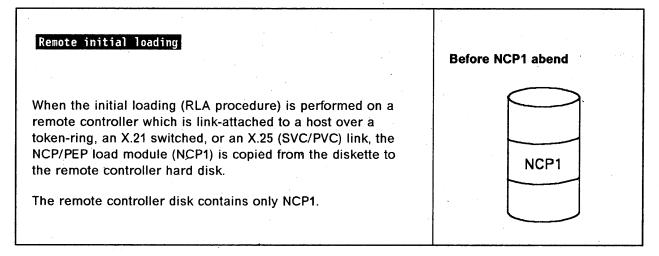
Cause: The load module is greater than 1 Megabyte.

Action: Generate a smaller load module.

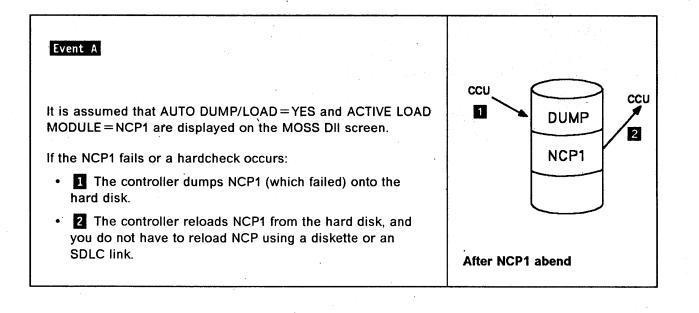
Program Abend on a Remote Controller

When using RLA over token-ring, switched X.21 or X.25 (PVC/SVC) links, the following three abends may occur.

- 1. Abend with no dump yet recorded on the hard disk Event A
- 2. Abend with a dump on the hard disk Event B
- 3. Abend happening after a load from the host Event C



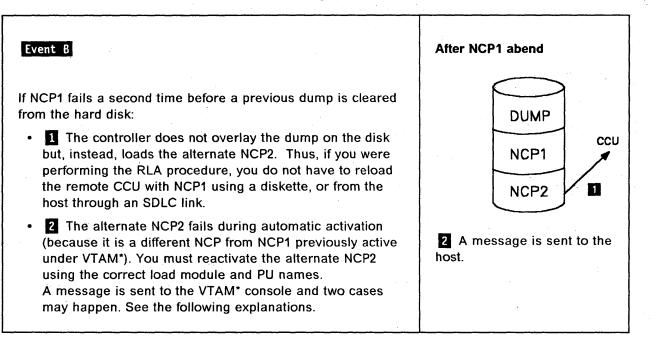
1 - Abend with no dump yet recorded on the hard disk:



2 - Abend with a dump on the hard disk:

It is assumed that:

- · You have an alternate NCP (NCP2) on the remote controller hard disk.
- AUTO DUMP/LOAD=YES and ACTIVE LOAD MODULE=NCP1 are displayed on the MOSS DII screen and that NCP2 has been loaded from the host onto the remote hard disk using a VTAM* MODIFY LOAD command.



The message sent to the host (2) is:

IST548I SOFT INOP FAILED - Linkstation subarea1, (name1) subarea2, (name2) where (name1) is NCP2.

Two cases must be considered:

- 1. The VTAM* operator sees the message on the console. In this case, he must:
 - a. Deactivate NCP1.
 - b. Activate NCP2.
- 2. The VTAM* operator does not see the message on the console and activates NCP1.

In this case the following message is sent from the remote controller to the VTAM* console:

Found loaded with NCP1, reply YES to reload or NO to cancel activation. To this question, the VTAM* operator must answer NO.

Then, he must activate NCP2 to allow load module and dump management.

3 - Abend happening after a load from the host

It is assumed that for any reason:

- 1. NCP2 has been deactivated.
- 2. Using a VTAM* command:

'V NET,ACT,..... LOAD = YES,LOADFROM = HOST,.....',

NCP3 has been loaded from the host to the remote CCU and saved on the remote hard disk through a switched/nonswitched SDLC, or a nonswitched X.21 link.

Event C	After NCP3 abend
If the NCP3 fails or a hardcheck occurs: The controller reloads the NCP3 from the hard disk 1 . In this case the alternate NCP2 is not reloaded as was the case in Event B ,	DUMP NCP3 NCP2

MSA Fields Definition (IPL Information)

Refer to the 3745 Advanced Operations Guide for further details on other MSA fields.

CUSTOMER ID: CCU-A SELECTED PROCESS RUN BYP-IOC-CHK STOF IPL CCU-A PHASE 4 ENA	-CCU-CHK AC	SERIAL NUMBER: X71:008000 xxxxxx L xxxxxxxx
FUNCTION ON SCREEN:	FUNCTION	mm/dd/yy hh:mm

Figure 8-3. MSA Example with IPL Information

CCU/scanner IPL information is displayed on line 4 for CCU-A, and on line 7 for CCU-B.

A short time after successful completion of the IPL, these lines are cleared and line 7 is filled by dashes plus the date and time.

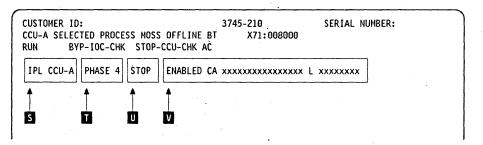


Figure 8-4. Fields of the IPL Information in the MSA

This picture shows the breakdown of the IPL information fields in line 4 (CCU A IPL) or 7 (CCU B IPL).

IPL CCU-x (x can be A or B): A CCU IPL is started.

Field 👖

Field S

PHASE 1	Start of phase 1 (CCU test and initialization).
PHASE 2	Start of phase 2 (load from the disk and start the control program dump loader known as CLDP).
PHASE 3	Start of phase 3 (load and initialize the scanners).
PHASE 4	Start of phase 4 (load/dump from the host or disk, and initialize the control program).
SUSPEND	An automatic IPL has been requested on a CCU, while IPL was not yet completed on the other one. From a MOSS standpoint, the latter CCU is frozen, until the other reaches phase 3 or 4, depending on the moment the request was received.
	All fields except 'F' and 'L' are frozen.

IPL Problems (MSA Fields Definition)

Field U

Field V

STOP	The IPL stopped at the beginning of the phase indicated in field 'T' (step-by-step IPL), or on operator's request (F4=STOP) during that same phase.
Displays on	e of the following:
CA IPL DET	ECTED ON CA xx: The control program loading/dumping is started on a channel-attached 3745. xx is the channel adapter number.
CONTROL I	PROGRAM LOADED: The control program is loaded.
CP SAVE O	N DISK IN PROGRESS: The control program save on disk is in progress.
DUMP IN P	ROGRESS ON CA xx: A control program dump is being taken on a channel-attached 3745. The progression of the dump is indicated in MSA field F which displays the control program storage addresses. xx is the channel adapter number. Refer to the 3745 Advanced Operations Guide for further details on MSA fields.
DUMP IN PI	ROGRESS ON L xxxx: A control program dump is being taken on a link-attached 3745. The progression of the dump is indicated in MSA field F which displays the control program storage addresses. xxxx is the decimal telecommunication line address. Refer to the 3745 Advanced Operations Guide for

DUMP ON MOSS DISK IN PROGRESS: A control program dump is being taken on the MOSS disk. The progression of the dump is indicated in MSA field F which displays the control program storage addresses. Refer to the 3745 Advanced Operations Guide for further details on MSA fields.

further details on MSA fields.

ENABLED CA XXXXXXXXXXXX L XXXXXXXX: Indicates which channel adapters or link IPL ports are enabled. x can be Y, N, or U for channel adapters (CA). x can be Y or N for link IPL ports (L).

- In the CA field, Ys indicate which channel adapters are enabled, Ns which channel adapters are not enabled, and Us which channel adapters are unusable. The positions of the Ys, Ns, and Us give the channel adapter number.
- In the L field, Ys indicate which link IPL ports are enabled, and Ns which link IPL ports are not enabled. The positions of the Ys and Ns give the position of the Link IPL port in the link IPL port table.

FALLBACK CANCELLED: The 3745 fallback is cancelled by:

- The operator (immediate terminate function).
- Operator console power-OFF when the FBK was requested from the console.
- The operator console switching from normal mode to test mode.

FALLBACK CHECK Fxx: The fallback ends abnormally. The check code (Fxx) is also displayed on the hex display of the control panel.

FALLBACK COMPLETE: The fallback is successfully completed.

FALLBACK COMPLETE + ERRORS: The fallback is complete although an error has been encountered. The 3745 should run normally.

FALLBACK IN PROGRESS: The fallback operation is in progress.

IPL CANCELLED: The 3745 initialization is cancelled by:

- The operator (immediate terminate function).
- Operator console power-OFF when the IPL was requested from the console.
- The operator console switching from normal mode to test mode.
- Automatic MOSS re-IML during a CCU/scanner step-by-step IPL, or
- Two automatic MOSS re-IMLs during a CCU/scanner IPL.
- **IPL CHECK Fxx:** The IPL ends abnormally. The check code (Fxx) is also displayed on the hex display of the control panel.

IPL CHECK F1B CLDP ABEND xxxx: The IPL ends abnormally. xxxx is the

hexadecimal CLDP abend code. \square

IPL COMPLETE: The IPL is successfully completed.

IPL COMPLETE + ERRORS: The IPL is complete, although an error has been encountered. Alarm D1 is displayed. The 3745 runs with some restrictions.

IPL FROM MOSS DISK IN PROGRESS: The IPL from the MOSS disk is in progress.

IPL IN PROGRESS: The IPL operation is in progress. The progression of the IPL is indicated in MSA field F which displays the control program storage addresses. Refer to the *3745 Advanced Operations Guide* for further details on MSA fields.

LINK IPL DETECTED ON L xxxx: The control program loading/dumping is started on a link-attached 3745.

LINK TEST PROGRAM ABEND: A hardware error occurred at phase 3, while loading the stand-alone link test.

LINK TEST PROGRAM LOADED: The link test program is loaded.

LOAD IN PROGRESS ON CA xx: The control program is being loaded on a channel-attached 3745. The progression of the load is indicated in MSA field F where the CCU storage addresses are displayed. x is the channel adapter number. Refer to the 3745 Advanced Operations Guide for further details on MSA fields.

LOAD IN PROGRESS ON L xxxx: The control program is being loaded on a link-attached 3745. The progression of the load is indicated in MSA field F where the CCU storage addresses are displayed. xxxx is the decimal telecommunication line address. Refer to the 3745 Advanced Operations Guide for further details on MSA fields.

RPO DETECTED ON L xxxx: The remote power OFF (RPO) command is detected on telecommunication line xxxx. xxxx is the decimal telecommunication line address. SCANNER(S) NOT IMLED: xxxxxxxx: Indicates that one or more scanners are not IMLed. xxxxxxxx consists of eight hexadecimal digits (32 bits). Each bit corresponds to a scanner (CS) number.

SWITCHBACK CANCELLED: The switchback operation is cancelled by:

- The operator (immediate terminate function).
- Operator console power-OFF when the IPL was requested from the console.
- The operator console switching from normal mode to test mode.

SWITCHBACK CHECK Fxx: The switchback ends abnormally. The check code (Fxx) is also displayed on the hexadecimal display of the control panel.

SWITCHBACK COMPLETE: The switchback is successfully completed.

SWITCHBACK COMPLETE + ERRORS: The switchback is complete, although an error has been encountered. The 3745 should run normally.

SWITCHBACK IN PROGRESS: The switchback operation is in progress.

TEST CANCELLED: During IPL of the active CCU, and at IPL completion, the test of the standby CCU has been cancelled by pressing F1.

TEST CHECK Fxx: During IPL of the active CCU, and at IPL completion, the test of the standby CCU ends abnormally. The check code (Fxx) is also displayed on the hexadecimal display of the control panel.

TEST COMPLETE: During IPL of the active CCU, and at IPL completion, the test of the standby CCU has been successfully completed.

TEST IN PROGRESS: During IPL of the active CCU, and at IPL completion, the test of the standby CCU is in progress.

Chapter 9. LIC and Line Problems (LSS)

Line Configuration Problems

Selective scanning allows a low-speed scanner to run different line configurations at different times, such as at night and during the day. However, this flexibility makes it possible for you to create a condition in which the lines exceed the capacity of the scanner.

If your operational practice is to change among different line configurations, each of which is within the capacity of the scanner, make sure that you deactivate all lines which do not apply to the configuration you are changing to.

Problems on Multiple Lines Having Common Parameters

When multiple lines are failing, they may have common parameters such as, direct attach, line speed, etc, and one of these parameters may be the cause of the problem.

- 1. Use the MOSS LID function to display the line parameters. Refer to the 3745 Advanced Operations Guide.
- 2. Look at NCP generation to make sure that parameters match the installed hardware.
- 3. Check the line weights on the active lines to see if the capacity of the scanner is exceeded (sum of line weights greater than 100).

1

Problems on All Lines of a LIC Type 1, 2, 3, or 4

Check that you do not have a line configuration problem, see LIC and Line Problems on page 9-1.

Power on and log on at the operator console. Refer to the 3745 Basic Operations Guide. This screen is displayed:

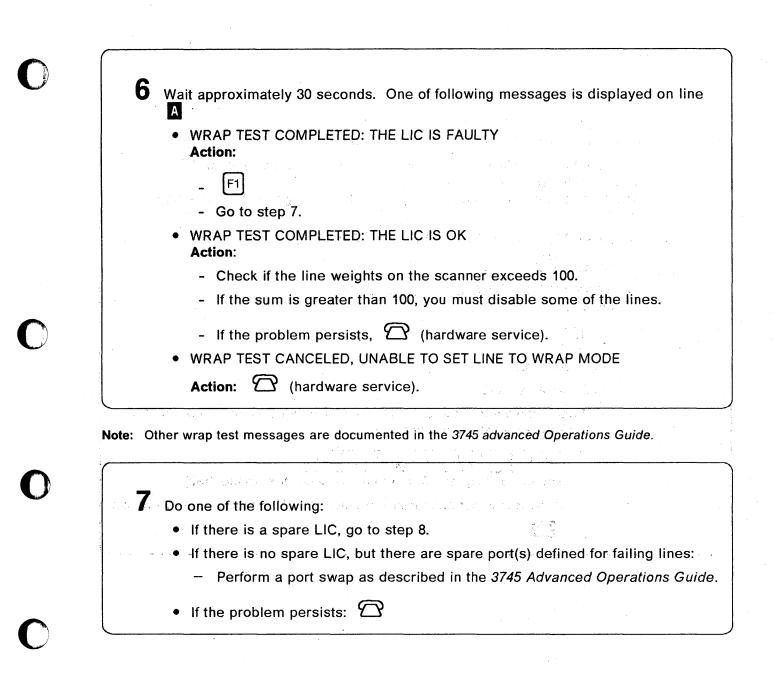
2 Check if there is an alarm related to your problem.

- If there is, perform the action required for that alarm, (see Chapter 1).
- If there is neither alarm nor reference code:
 - Does the traffic slow down on all lines linked to a scanner?

1. Yes, \square and report the problem.

2. No, perform an automatic LIC wrap test. Go to step 3.

The reference code **Ref Code** is always displayed at the right-most position of the alarm.



Do the following:	
Replace the faulty LIC. Refer to the 3745 Connection and Integration Guide.	
Once the LIC is replaced, repeat the LIC wrap test, steps 3 Do not go to step 6, but return here. One of the following messages is displayed on line A of the screen.	
WRAP TEST COMPLETED: THE LIC IS FAULTY	
Action:	
 WRAP TEST COMPLETED: THE LIC IS OK Actions: 	
- F1 - Restart traffic.	
- Order a new LIC.	-
 If after; replacing the LIC, you have a problem on or perform a tailgate wrap test on this line. 	ne line of this LIC,
• W T T SEND 2 SEND and go to Chapter 16 to initialize a wrap test (page 16)	age 16-3).

Problems on Several Lines of a LIC Type 1, 2, 3, or 4

Be sure that you do not have a line configuration problem, see LIC and Line Problems on page 9-1.

Power on and log on at the operator console. Refer to the 3745 Basic Operations Guide. This screen is displayed:

· · ·	
FUNCTION S	ELECTION RULES
TO SELECT ONE OF THE MENUS, PRESS THE AP	PROPRIATE F KEY
TO SELECT A FUNCTION, ENTER ITS 3-CHARAC	TER NAME THEN PRESS SEND
ONCE YOU HAVE SELECTED A FUNCTION FROM O A FUNCTION FROM THE OTHER	NE MENU, YOU MAY SELECT
TO END THE FUNCTION ON SCREEN, PRESS F1	
TO RETURN TO THE PENDING FUNCTION, PRESS	F2
TO LOG OFF, ENTER OFF THEN PRESS SEND	~ ~
ALARM F1:END F2:MENU2 F3:ALARM F4:MENU1	Ref Code

0

1

2 When multiple lines are failing, they may have common parameters such as, direct attach, line speed, etc, and one of those parameters may be the cause of the problem.

- 1. Use the MOSS LID function to display the line parameters. Refer to the 3745 Advanced Operations Guide.
- 2. Look at NCP generation to make sure that parameters match the installed hardware.
- 3. Check the line weights of the active lines to see if the capacity of the scanner is exceeded (sum of line weights greater than 100).

3 Check if there is an alarm related to your problem.

• If there is an alarm related to your problem, perform the action required for that alarm (see Chapter 1).

• If there is no alarm related to your problem: \square

Problems on One Line Only of a LIC Type 1, 2, 3, or 4

Check that you do not have a line problem, see LIC and Line Problems on page 9-1.

Power on and log on at the operator console. Refer to the 3745 Basic Operations Guide.

This screen is displayed:

ALARM Ref Code F1:END F2:MENU2 F3:ALARM F4:MENU1
TO RETURN TO THE PENDING FUNCTION, PRESS F2 TO LOG OFF. ENTER OFF THEN PRESS SEND
TO END THE FUNCTION ON SCREEN, PRESS F1
ONCE YOU HAVE SELECTED A FUNCTION FROM ONE MENU, YOU MAY SELECT A FUNCTION FROM THE OTHER
TO SELECT A FUNCTION, ENTER ITS 3-CHARACTER NAME THEN PRESS SEND
FUNCTION SELECTION RULES TO SELECT ONE OF THE MENUS, PRESS THE APPROPRIATE F KEY

2 Check if there is an alarm related to your Problem.

- If there is an alarm related to your problem, perform the action required for that alarm (see Chapter 1).
- If there is no alarm related to your problem, go to next step.

3 Make sure that the **Local and remote modems** are:

• Powered ON.

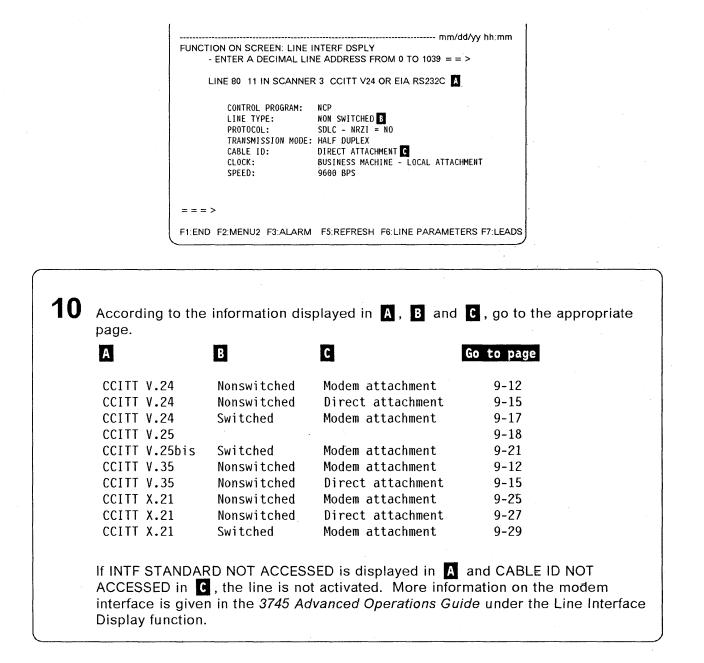
4

- Operational (not in test mode).
- Correctly connected to the port.
 - For a LIC3 or LIC4B, see the 3745 Connection and Integration Guide.

If correct, go to next step.

Make sure that the **remote control unit** is operational. Go to next step.

 5 Perform self-tests on the local and remote modems. Refer to the modem documentation. If correct, perform modem-to-modem tests (end-to-end). Refer to the modem documentation. If correct, go to next step.
6 L I D SEND to select the Line Interface Display function. A complete description of this function, including messages, is given in the 3745 Advanced Operations Guide.
7 Enter the decimal address of the line, then SEND
 8 The following message may be displayed on the next screen: CABLE ID: CABLE NOT INSTALLED If yes, restart from the step 3, if the problem persists: If no, go to next step.
 8 The following message may be displayed on the next screen: CABLE ID: CABLE NOT INSTALLED – If yes, restart from the step 3, if the problem persists:



11 Perform this step only after successful wrap tests.

Compare the information displayed in **C** of the preceding screen with the cable type installed on the machine. (Refer to the plugging diagrams or cable labels to determine the cable type.)

- 1. If there is a mismatch, suspect the cable.
 - a. Swap the cable with another one of the same type.

b. [F5] to perform a refresh of the LID screen.

c. If displayed parameters are now correct, the cable was faulty, replace it.

2. If the cable is correct, suspect the LIC.

- a. Replace the LIC by another one of the same type.
- b. F5 to perform a refresh of the LID screen.
- c. If displayed parameters are now correct, the LIC was faulty, replace it.

3. If the problem persists: \square



CCITT V.24/V.35 Nonswitched - Modem Attachment

12 F7 To display the Control Lead screen.

13 \mathbb{F}^5 to start the refresh.

16

If you wish to stop the refresh: $\textcircled{}{}$ or, depending on the keyboard, a combination of keys that perform a break.

14 Locate DTR and DSR on the screen.

15 Ask the host operator to reactivate the line.

The status of **DTR** and **DSR** should be updated when the line is reactivated. Note each status and perform the action requested on the following page.

mm/dd/vv hh:mm FUNCTION ON SCREEN: LINE INTERF DSPLY - ENTER A DECIMAL LINE ADDRESS FROM 0 TO 1039 = = > LINE 80 11 IN SCANNER 3 CCITT V24 OR EIA RS232C XMIT CMD: SDLC XMIT DATA RCV CMD: SDLC RCV DATA STATUS: IN-PROGRESS STATUS: IN-PROGRESS MODEM-OUT DTR ON MODEM-IN DSR ON RTS ON RFS ON RI NS DRS CD MT τı _ _ _ > F1:END F2:MENU2 F3:ALARM F5:REFRESH F6:LINE PARAMETERS F7:LEADS

DTR is OFF

- Activate the line (host side).
- Check the DTE-to-DCE cable connection.
- Perform a tailgate wrap test (see Chapter 16). Then return here to analyze the results.
- Tailgate Wrap Test Results
- Test not successful: Replace the LIC. Follow the procedure "Problems on All Lines of a LIC" from step 7 on page 9-5.
- Test successful: Check with the network operator the compatibility of line parameters at both ends of the line.

If they are correct, suspect the host software, otherwise, go to step 11 on page 9-11.

DTR is ON and DSR is OFF

- Check that the modems are ready and operational.
- Check that the cables are correctly plugged in.
- Perform a tailgate wrap test (see Chapter 16). Then return here to analyze the results.

Tailgate Wrap Test Results

- Test not successful: Replace the LIC. Follow the procedure "Problems on All Lines of a LIC" from step 7 on page 9-5.
- Test successful, check:
 - Modem (modem tests are listed on page 9-30)
 - If the problem is not fixed, go to step 11 on page 9-11.

DTR and DSR are ON: Perform a tailgate wrap test (see Chapter 16). Then return here to analyze the results.

– Tailgate Wrap Test Results –

- Test not successful: Replace the LIC. Follow the procedure "Problems on All Lines of a LIC" from step 7 on page 9-5.
- Test successful: Perform a **data** wrap test at the 3745 modem level (see Modem and Link Tests on page 9-30 and Chapter 16). Then return below to analyze the results.

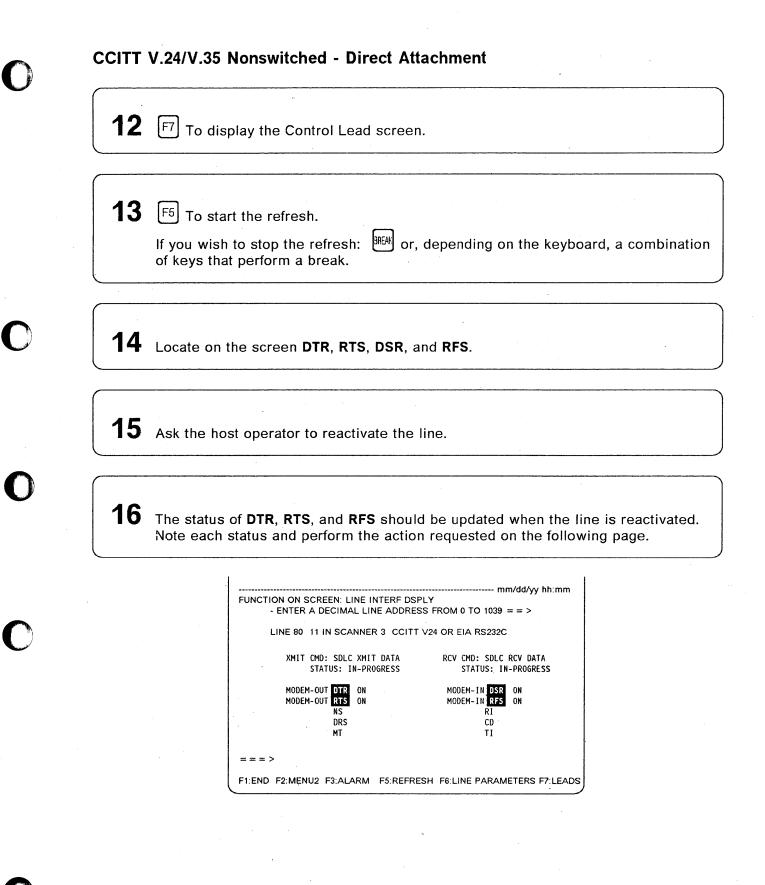
– Modem Data Wrap Test Results -

- · Test not successful: Suspect the modem or the cable.
- Test successful, check:
 - The remote control unit. Perform appropriate remote control unit tests.
 - The line parameters with the network operator.
 - The network.
 - If the problem is not fixed, go to step 11 on page 9-11.

CCITT V.24/V.35 Nonswitched - Modem Attachment (Continued)

In addition to the analysis of DTR and DSR statuses, the following table may help you continue problem determination.

If on the screen, the STATUS of the data set lead is:	Perform the following ACTIONS:
Duplex lines: RTS OFF and RFS OFF	If RTS is permanently OFF: - Activate the line. - If not, check the scanner and system generation parameters.
Duplex lines: RTS ON and RFS OFF	 Check the DTE-to-DCE cable connection. Check if the DCE is powered ON and correctly connected.
Half-duplex lines: RTS and RFS do not flash	 Because of synchronization between the refresh rate and the transmission rate, data may never appear. To verify if data is being transmitted, press F8. If no data: Check if the DCE is powered ON and correctly connected. Check the DTE-to-DCE cable connection.
Half-duplex lines: RTS ON and RFS OFF	 Check the DTE-to-DCE cable connection. Check if the DCE is powered ON and correctly connected or configured.
Point-to-point: CD OFF	Check data transmission. Press F8. If no data in receive buffer, suspect network problem.
Multipoint: CD ON steady	Check the local DCE, the link, or the remote site (network problem).
TI ON	Reset the DCE test switch to normal operating position.
MT ON	Reset test condition at the host side.
NS	Not significant
RION	Not significant
All data set leads are OK but there is traffic on the transmit side only.	Check terminal configuration at the remote site and the control program generation parameters (for example, the remote terminal address, NRZ-I, or non-NRZ-I).



DTR or RTS is OFF and DSR or RFS is OFF: Perform a tailgate wrap test (see Chapter 16). Then return here to analyze the results.

- Tailgate Wrap Test Results –

- Test not successful: Replace the LIC. Follow the procedure "Problems on All Lines of a LIC" from step 7 on page 9-5.
- Test successful: Check with the network operator the compatibility of line parameters at both ends of the line.

If they are correct, suspect the host software, otherwise, go to step 11 on page 9-11.

DTR, RTS, DSR, RFS are all ON: Check that the cable is correctly plugged in and that the remote control unit is ready and operational. If they are both correct, perform a tailgate wrap test (see Chapter 16). Then return here to analyze the results.

Tailgate Wrap Test Results -

- Test not successful: Replace the LIC. Follow the procedure "Problems on All Lines of a LIC" from step 7 on page 9-5.
- Test successful, check:
 - Remote control unit. Perform appropriate remote control unit tests.
 - With the network operator the compatibility of line parameters at both ends of the line.
 - The programmable line speed definition.
 - If the problem is not fixed, go to step 11 on page 9-11.

DTR or RTS is ON and DSR or RFS is OFF: Check that the cable is correctly plugged in. If it is, perform a tailgate wrap test (see Chapter 16). Then return here to analyze the results.

Tailgate Wrap Test Results

- · Test not successful: Replace the LIC.
- Test successful: Go to step 11 on page 9-11.

CCITT V.24 Switched - Modem Attachment

Note: Call-in and call-out operations are different, a call-out operation uses the autocall unit and a call-in does not.

Check that the remote control unit and the modems (local and remote) are ready and operational. If they are, perform a tailgate wrap test (see Chapter 16). Then return here to analyze the results.

Tailgate Wrap Test Results

- Test not successful:
- Test successful, check:
 - Modem (modem tests are listed on page 9-30).
 - Appropriate V.25 autocall unit.
 - Remote control unit. Perform appropriate remote control unit tests.
 - With the network operator the compatibility of line parameters at both ends of the line.
 - If the problem is not fixed, go to step 11 on page 9-11.

The following table may help you to continue the problem determination on call-in operations. For call-out problems, refer to: "V.25 Call-out Analysis" on page 9-20.

If on the screen, the STATUS of the data set lead is:	Perform the following ACTIONS:
108/1 (Connect Data Set to Line) DTR ON	Check the system generation and line parameters (Press F6). If parameters OK, and RI=ON, check the DCE.
108/2 (Data Terminal Ready) DTR OFF	Activate the line (host side).
Auto-answer line 108/1 (Connect Data Set to Line) or 108/2 (Data Terminal Ready) RI OFF and DSR OFF	Incoming call: - Check the transmission line. - Check the DCE. - Check the DTE-to-DCE cable connection.
RTS and RFS do not flash	 Check data transmission (press F8). If no data: Check if the DCE is powered ON and correctly connected. Check the DTE-to-DCE cable connection.
CD OFF	 Check the DCE. Check the DTE-to-DCE cable connection. Check the remote site or the system generation parameters.
TION	Significant only if DSR is ON. In this case, reset the DCE test switch to the normal operating position.
MT ON	Reset test condition at the host side.
NS	Not significant

CCITT V.25

13

12 F7 To display the Control Lead screen.

F5 To start the refresh.

If you wish to stop the refresh: (IFW) or, depending on the keyboard, a combination of keys that perform a break.

14 Locate PWI. and CRQ on the screen.

15 Ask the host operator to reactivate the line.

16 The status of **PWI** and **CRQ** should be updated when the line is reactivated. Note each status and perform the action requested on the following page.

FUNCTION ON SCREEN: LINE INTERF DS	PLY
- ENTER A DECIMAL LINE ADDRE	
LINE 80 11 IN SCANNER 3 CCIT	T V25 OR EIA RS232C
XMIT CMD: SDLC XMIT DATA	RCV CMD: SDLC RCV DATA
STATUS: IN-PROGRESS	STATUS: IN-PROGRESS
MODEM-OUT PWI ON	MODEM-IN CRO ON
PND ON	DPR ON
ACR ON	RSE ON
	· · · ·
= = = >	
F1:END F2:MENU2 F3:ALARM F5:REFR	ESH F6:LINE PARAMETERS F7:LEADS

PWI and CRQ are both ON

- Check that the remote control unit, the modems (local and remote), and the autocall unit (ACU) are ready and operational.
- Perform a tailgate wrap test (see Chapter 16). Then return here to analyze the results.
- See the note on the next page.

Tailgate Wrap Test Results

- Test not successful: Replace the LIC. Follow the procedure "Problems on All Lines of a LIC" from step 7 on page 9-5.
- Test successful, check:
 - Modem (modem tests are listed on page 9-30).
 - Remote control unit. Perform appropriate remote control unit tests.
 - Autocall unit. Perform appropriate ACU tests.
 - With the network operator, the compatibility of line parameters at both ends of the line.
 - Network.
 - If the problem is not fixed, go to step 11 on page 9-11.

PWI is ON and CRQ is OFF

- Perform a tailgate wrap test (see Chapter 16). Then return here to analyze the results.
- See the note on the next page.

Tailgate Wrap Test Results

- Test not successful: Replace the LIC. Follow the procedure "Problems on All Lines of a LIC" from step 7 on page 9-5.
- Test successful: Check with the network operator the compatibility of line parameters at both ends of the line.

If they are correct, suspect the host software, otherwise, go to step 11 on page 9-11.

PWI and CRQ are both OFF

- Check that the autocall unit (ACU) is ready and operational.
- Check if the line is activated.
- Check if the cables are correctly plugged in.
- Perform a tailgate wrap test (see Chapter 16). Then return here to analyze the results.
- See the note on the next page.

- Tailgate Wrap Test Results –

- Test not successful: Replace the LIC. Follow the procedure "Problems on All Lines of a LIC" from step 7 on page 9-5.
- Test successful, check:
 - The autocall initialization
 - If the problem is not fixed, go to step 11 on page 9-11.

Note: When using an autocall unit:

- Under NCP, tailgate wrap tests are not supported on dialing lines.
- Under EP, you must use the wrap type 'control leads'.

V.25 Call-out Analysis

The following table may help you continue the problem determination on call-out operations. For call-in problems, refer to the table on page 9-17, in this case, CCITT V.25 is similar to CCITT V.24.

If on the screen, the STATUS of the data set lead is:	Perform the following ACTIONS:
PWI OFF	 Check if the automatic calling unit (ACU) is powered ON. Check the ACU-to-DTE cable connection.
CRQ OFF	Activate the ACU line (host side).
DLO OFF	Check the ACU.Suspect the ACU-to-DCE cable.
PND does not flash	 Check the ACU. Suspect the ACU-to-DCE cable. If the cable is OK, suspect the network.
DPR does not flash	 Check the ACU-to-DCE cable. If OK, contact the appropriate service representative.
ACR ON	 Check the ACU line. If OK, suspect the network.
RSE OFF (DSC)	 Check the ACU line. If OK, suspect the network. Press F6 to display the Line Parameter screen. Enter the address of the data transmission line, then press SEND. Check the line parameters. Press F7 to display the data set leads according to the V.24 - Switched DCE Attachment list, on page 9-17.

CCITT V.25bis Switched - Modem Attachment

The V.25bis is a protocol which allows to combine on one physical interface (DTE - DCE) the call establishment and the data transmission. This eliminates the need for a second physical port previously required by the V.25 protocol.

- The connection process can only be done in SDLC or S/S mode.
- The data transfer can be done in SDLC, S/S, or BSC mode.

Commands sent by NCP to the modem

Call request commands (X'0D')

The V.25bis Call Request command is used to make an outgoing call. This command supports two modes of addressed call:

- **CRN** Call Request with Number The dial digits are sent to the modem with the command.
- **CRI** Call Request with number and Identification number The dial digits are sent to the modem with the command and an identification number of the caller.

Commands sent by NCP to the scanner

- Monitor incoming call commands (X'0E') The V.25bis Monitor Incoming Call command is sent by NCP to the scanner to allow incoming call on the line.
- Clear request commands (X'0F') The V.25bis Clear Request command is used by NCP to inform the scanner to clear the line.

A summary of NCP commands and modem status answers is shown on Table 9-1 on page 9-22.

Conditions of Command Retry

NCP will perform a retry if the following statuses are received from the modem.

- X'80' Time out.
- X'FC' Call failure indication (except for the ELCS code X'07') Forbidden call.
- X'EC' Call collision

Note: For X'80' and X'FC' the NCP waiting duration depends on the value defined in the keyword REDIAL of the NCP LINE statement.

Delayed call indication X'EA'

The modem return the status X'EA' after several unsuccessful calls. It also returns 3 bytes that contain the number of minutes that NCP should wait before trying another call. This information is passed to NetView to be included in a generic alert.

NCP Commands and Modem Statuses

able 9-1. Call Request commands and Line Communication Status Summary ocal 3745 Modem status answers NCP commands) (LCS and ELCS codes generation)		
Call Requests X'0D'		
CRN Call request with number		
CRI Call request with number plus identification	X'9E'	Correct completion
	X'9C'	Disconnected
	X'D2'	Command rejected
	X'E8' INV	Invalid call request
	X'EA' DLC	Delayed call with the parameter of time duration
	X'FC' CFI	Call failure indication An ELCS code is added to X'FC' X'01' Engaged tone X'03' Local DCE busy X'04' Ring tone X'05' Abort call X'06' Answer tone not detected X'07' Forbidden call X'FF' Unknown cause
On receipt of call collision , the 3745 rejects the 'call request' command and sends a 'clear request' command to the interface. The DTE will wait one minute before retrying a call request.	X'EC' INC X'80'	Incoming call (Call collision) Time out
On receipt of time out , the 3745 rejects the 'call request' command and sends a 'clear request' command to the interface. The duration the DTE will wait before retrying a call request depends:		
 On the value assigned to the REDIAL keyword in the PATH statement of the VTAM* switched major node definition. On the value assigned to the REDIAL keyword in the LINE statement of the NCP generation. 		
Monitor incoming call X'0E'	X'9E'	Correct completion
	X'80'	Time out
e. A second sec	X'D2'	Command rejected
Clear request X'0F'	X'9C'	Disconnected
	X'80'	Time out
	X'D2'	Command rejected

Problems on call request command

Table 9-2. Call request problems a	nalysis		
If on the screen, the STATUS of the data set lead is:	Perform the following ACTIONS:		
108/2 (Data Terminal Ready) DTR OFF (BNN)	At the host Activate the line. Activate the switched major node. Perform a V NET,LOGON command if the keyword LOGAPPL is not coded in the switched major node.		
108/2 (Data Terminal Ready) DTR OFF (INN)	At the host Activate the line. Activate the switched major node. Perform a DIAL command.		
RFS (or CTS) OFF	 Check the DCE. Check the DCE configuration. Check the DTE-to-DCE cable connection. 		
DSR OFF	At the host Check the NetView generic alerts:		
	X'FC' CFI Call failure indication Check the line.		
	X'E8' INV Invalid call		
	 Check the keyword DIALNO in the PATH statement of the VTAM* switched major node definition. Refer to VTAM* Installation and Resource Definitions (SC23-0111). 		
	X'EA' DLC Delayed call Check the line.		
	X'EC' INC Invalid call Retry.		
$\frac{1}{2} \left[\frac{1}{2} - \frac{1}{2} \left[\frac{1}{2} - \frac{1}{2} + \frac{1}{2} \left[\frac{1}{2} - \frac{1}{2} + \frac$	X'80' Time out		
	 Check the line. Check the DIALTO = keyword definition in the BUILD statement of NCP. Check the CLOCKNG = keyword definition in the LINE statement of NCP. Check the SPEED = keyword definition in the LINE statement of NCP. Refer to NCP, and EP Reference (LY30-5605). Within Start-Stop protocol, check that the modem configuration is properly defined. (7 data bits plus one even parity bit.) 		
	 BSC format is not supported for the connection phase. Check in NCP generation that the keyword V25BIS in the GROUP and LINE statements has one of the three following specifications: V25BIS = (YES, DLSS), or V25BIS = (YES, DLSDLC) or V25BIS = NO. Refer to NCP, SSP. and EP Resource Definitions Reference (SC30-3448). 		

NetView Error Notification (Generic Alert)

Generic Alerts are information units that are sent to NetView to describe failures.

The following NetView screen lists some possible failure causes.

NETVIEW SESSION DOMAIN: CNM03 OPER1 mm/dd/yy hh:mm:ss NPDA-45A * RECOMMENDED ACTION FOR SELECTED EVENT * PAGE 1 OF 1 CNM03 D2R K23C133 S23C133 DOMATN COMC 1 -- LINE ----- CTRI USER CAUSED -NONE INSTALL CAUSED -NONE FAILURE CAUSED - CONNECTION NOT ESTABLISHED Α - 1015 - VERIFY TELEPHONE B ACTIONS 1061 - ATTEMPT TO REESTABLISH THE CONNECTION C 1025 - RUN MODEM TESTS D 1141 - REPORT THE FOLLOWING: Ε STATUS CODE 069CFC0600 ENTER ST (MOST RECENT STATISTICS), DM (DETAIL MENU, OR D (EVENT DETAIL) CMD===>

- The failure cause is displayed on line A.
- The recommended actions are displayed on line **B**, **C**, **D**, and **E**.
- The reported status code 0690FC0600 can be analyzed as following:
 - The format is: SSSSLLXXYZ .
 - SSSS (1059C) in our example) is the field name of NCP control blocks.
 For SDLC lines, it is LXBSTAT/LXBSTATC, for pre-SNA lines, it is
 IOBSTAT. Refer to NCP and EP Reference Summary and Data Areas
 LY30-5603 for explanations.
 - If in our example) is the LCS code (Line Communication Status) which is always followed by an ELCS code (Extended Line Communication Status).
 - XX (06 in our example) is the ELCS code which means 'answer tone not detected'.
 - Y (1) in our example) may be either 0 or any value from 0 to 9 when the LCS code is 'EA' which means delayed call.
 - 7 is always 0.

Delayed call examples

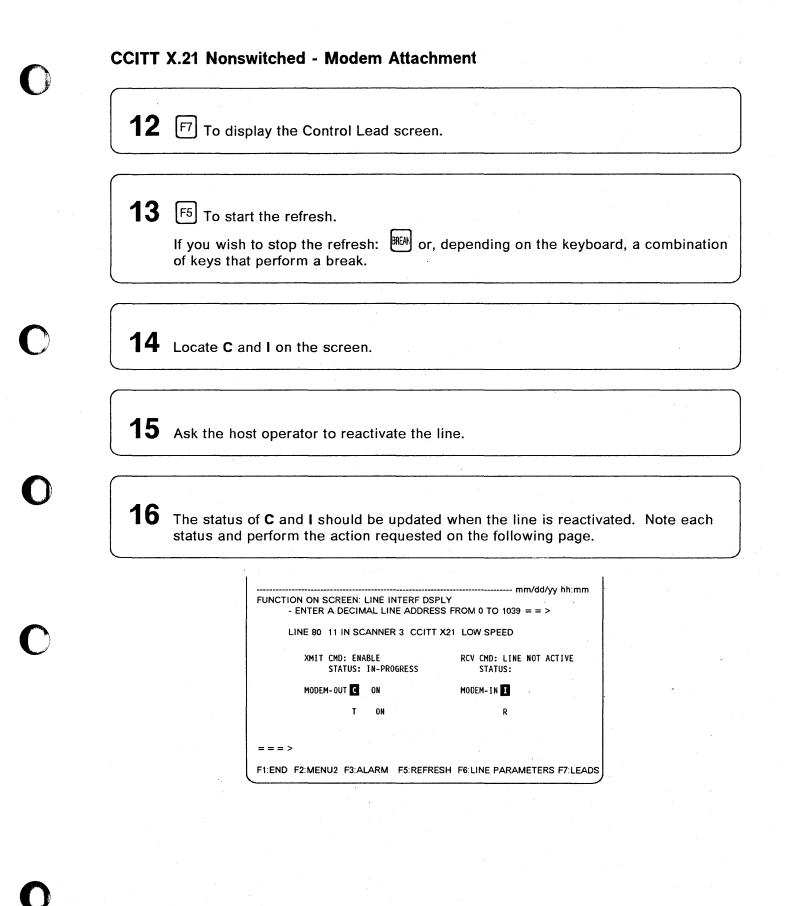
The last two bytes XXYZ are used to provide the time that NCP must wait before retrying a call when the LCS code is X'EA' (delayed call).

For instance, with the following status codes:

069CEA0040, **EA** means 'delayed call' and **0040** means that NCP must wait 4 minutes before retrying a call.

With the status code:

069CEA0120 (EA and 0120), NCP must wait 12 minutes before retrying a call. The right-most digit 0 is never used.



C is **OFF:** Perform a tailgate wrap test (see Chapter 16). Then return here to analyze the results.

- Tailgate Wrap Test Results ——
- Test not successful: Replace the LIC. Follow the procedure "Problems on All Lines of a LIC" from step 7 on page 9-5.
- Test successful: Check with the network operator the compatibility of line parameters at both ends of the line.

If they are correct, suspect the host software, otherwise, go to step 11 on page 9-11.

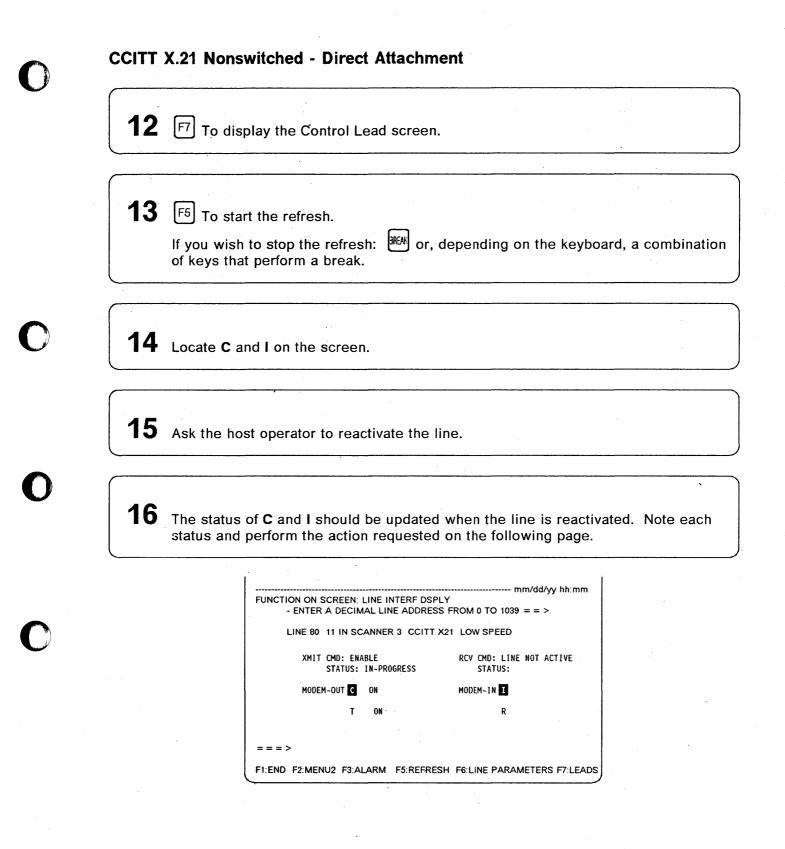
C is ON and I is OFF: Check that the remote control unit and the modems are ready and operational. If they are, perform a tailgate wrap test (see Chapter 16). Then return here to analyze the results.

- Tailgate Wrap Test Results ———
- Test not successful: Replace the LIC. Follow the procedure "Problems on All Lines of a LIC" from step 7 on page 9-5.
- Test successful, check:
 - Modem (modem tests are listed on page 9-30).
 - If the problem is not fixed, go to step 11 on page 9-11.

C and I are both ON: Check that the remote control unit is ready and operational. If it is, perform a tailgate wrap test (see Chapter 16). Then return here to analyze the results.

Tailgate Wrap Test Results -

- Test not successful: Replace the LIC. Follow the procedure "Problems on All Lines of a LIC" from step 7 on page 9-5.
- Test successful, check:
 - Modem (modem tests are listed on page 9-30).
 - Remote control unit. Perform appropriate remote control unit tests.
 - With the network operator, the compatibility of line parameters at both ends of the line.
 - Network.
 - If the problem is not fixed, go to step 11 on page 9-11.



C is OFF: Perform a tailgate wrap test (see Chapter 16). Then return here to analyze the results.

- Tailgate Wrap Test Results ~
- Test not successful: Replace the LIC. Follow the procedure "Problems on All Lines of a LIC" from step 7 on page 9-5.
- Test successful: Check with the network operator the compatibility of line parameters at both ends of the line.

If they are correct, suspect the host software, otherwise, go to step 11 on page 9-11.

C is **ON** and **I** is **OFF**: Check that the remote control unit is ready and operational. If it is, perform a tailgate wrap test (see Chapter 16). Then return here to analyze the results.

- Tailgate Wrap Test Results ~
- Test not successful: Replace the LIC. Follow the procedure "Problems on All Lines of a LIC" from step 7 on page 9-5.
- Test successful:
 - Go to step 11 on page 9-11.

C and I are both ON: Check that the remote control unit is ready and operational. If it is, perform a tailgate wrap test (see Chapter 16). Then return here to analyze the results.

Tailgate Wrap Test Results -

- Test not successful: Replace the LIC. Follow the procedure "Problems on All Lines of a LIC" from step 7 on page 9-5.
- Test successful, check:
 - Remote control unit. Perform appropriate remote control unit tests.
 - With the network operator, the compatibility of line parameters at both ends of the line.
 - Network.
 - If the problem is not fixed, go to step 11 on page 9-11.

If on the screen, the STATUS of the data set lead is:	Perform the following ACTIONS:	
T OFF C OFF	 DTE not ready: Check the line parameters (Press F6). If the problem persists, contact the appropriate service representative. 	
R OFF I OFF	Remote 3745 attachment not ready: - Check cable installation. - Check remote 3745 to ensure line is ACTIVE.	

CCITT X.21 Switched - Modem Attachment

Note: Call-in and call-out operations are different.

Check that the remote control unit and the modems (local and remote) are ready and operational. If they are, perform a tailgate wrap test (see Chapter 16). Then return here to analyze the results.

Tailgate Wrap Test Results

- Test not successful:
- · Test successful, check:
 - Modem (modem tests are listed on page 9-30).
 - Remote control unit. Perform appropriate remote control unit tests.
 - With the network operator:
 - The compatibility of line parameters at both ends of the line.
 - Whether the network is operational.
 - Whether network information is available, such as: Call progress signal (CPS) or interface states.
 - If the problem is not fixed, go to step 11 on page 9-11.

If on the screen, the STATUS of the data set lead is:	Perform the following ACTIONS:
T OFF C OFF	 DTE not ready: Check the line parameters (Press F6). If the problem persists, contact the appropriate 3745 service representative.
R ON I OFF	 DCE not ready: Check if DCE is powered ON and correctly connected. If the problem persists, contact the public switched network service representative.

Modem and Link Tests

Check that you do not have a line configuration problem, see page 9-1.

If available, perform the following tests:

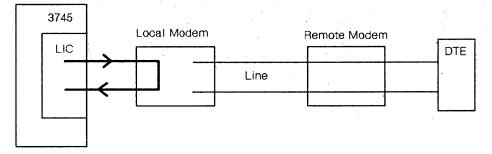
- 1. Stand-alone modem tests, described in the modem documentation:
 - Local modem self-test
 - Remote modem self-test
 - · Modem line test (end-to-end).
- 2. Link level 2 test from the host

Use the VTAM 'MODIFY LL2' command or the NetView 'LL2' command (on a nonswitched SDLC link) to test the link between the two NCPs.

Refer to VTAM Operation or NetView Operation documentations for detailed information.

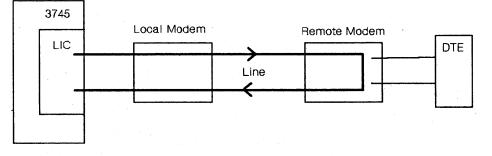
3. Local modem loopback test (loop 3)

Refer to the MOSS WTT function in the 3745 Advanced Operations Guide.



4. Remote modem loopback test (loop 2):

Refer to the MOSS WTT function in the 3745 Advanced Operations Guide.



5. If a test result leads you to replace a LIC, refer to the 3745 Connection and Integration Guide.

Problems on Both Lines of a LIC5

1

Power on and log on at the operator console. Refer to the 3745 Basic Operations Guide. This screen is displayed:

1	
FUNCTION SELECTION RU	
TO SELECT ONE OF THE MENUS, PRESS THE APPROPRIATE F	KEY
TO SELECT A FUNCTION, ENTER ITS 3-CHARACTER NAME TH	EN PRESS SEND
ONCE YOU HAVE SELECTED A FUNCTION FROM ONE MENU, YOU A FUNCTION FROM THE OTHER	J MAY SELECT
TO END THE FUNCTION ON SCREEN, PRESS F1	
TO RETURN TO THE PENDING FUNCTION, PRESS F2	
TO LOG OFF, ENTER OFF THEN PRESS SEND	
ALARM	Ref Code
F1:END F2:MENU2 F3:ALARM F4:MENU1	· ·

2 Check if there is an alarm related to your problem.

- If there is an alarm related to your problem, perform the action required for that alarm (see Chapter 1).
- If there is neither alarm nor reference code related to your problem:
 - Does the traffic slow down on all lines linked to a scanner?

1. Yes, \bigcirc and report the problem.

2. No, go to next step.

- **3** Check visually that:
 - The LIC and Line cables are correctly connected.
 - The LIC is operational (not in use with a PKD). The green light should be on. If not, ask the host operator to activate the line if possible.
 - When the green light is on, DTR is on.
 - When the yellow light is on, the LIC is faulty.
 - When green and yellow lights are blinking, the LIC has been plugged into the wrong slot.
 - To check the lights, plug in the PKD (refer to Figure 9-3 on page 9-38 for connection); press the **Go** or **Stop** key; then the green and yellow lights should be on.
 - When the PKD is connected, if a LIC5 or LIC6 is misplugged, the message 'WRONG SLOT' is displayed on the PKD.

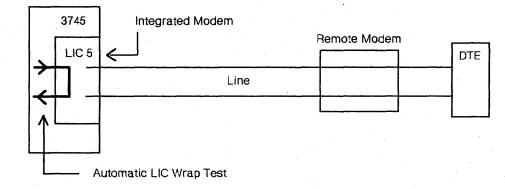
• The LIC is correctly configured, see the 3745 Connection and Integration Guide.

4 Ask the operator to deactivate both the lines connected to the LIC.

SEND Т Press the following keys: W Т This screen is displayed:

FUNCTION ON SCREEN: WRAP TEST WRAP TEST INITIAL SELECTION - SELECT ONE OPTION (1,2) = = > 1 = AUTOMATIC WRAP TEST ON A LIC 2 = WRAP TEST AT ANY LEVEL THEN PRESS SEND = = = >

F1:END F2:MENU2 F3:ALARM





> FUNCTION ON SCREEN: WRAP TEST AUTOMATIC WRAP TEST ON LIC

- ENTER A LINE ADDRESS OF THE LIC (0-511) = = >

WARNING : ALL LINES OF THE LIC MUST BE DISABLED/DEACTIVATED

===>

F1:END F2:MENU2 F3:ALARM F4:WRAP TEST INITIAL SELECTION

Problems	on	Both	Lines	of a	LIC5

screen is (address of one of the lines of the suspected LIC. SEND The next displayed.
The follow	ving message is then displayed on line A.
WRAP TES	ST STARTED, PLEASE WAIT 30 SECONDS
	mm/dd/yy hh:mm FUNCTION ON SCREEN: WRAP TEST AUTOMATIC WRAP TEST ON LIC
	LINE RANGE ADDRESS: 0004 - 0007 LIC TYPE: 1
	= = = > WRAP TEST STARTED, PLEASE WAIT 30 SECONDS
	F1:END F2:MENU2 F3:ALARM F4:WRAP TEST INITIAL SELECTION
· · · · · · · · · · · · · · · · · · ·	
7 Wait appro	oximately 30 seconds. One of the following messages is displayed on
line A.	ST COMPLETED: THE LIC IS FAULTY
line A.	· · · · · · · · · · · · · · · · · · ·
line A.	
line A. WRAP TES	
line A. WRAP TES Action: – F1	step 8.
line A. WRAP TES Action: - F1 - Go to	
line A. WRAP TES Action: - F1 - Go to	step 8.

8 Do one of the following:

- If there is a spare LIC, go to step 9.
- If there is no spare LIC, but spare port(s) are defined for failing lines:
 - Perform a port swap.
 - Refer to the 3745 Advanced Operations Guide.

• If the problem persists: \square

9 Do the following:

- Replace the faulty LIC. Refer to the 3745 Connection and Integration Guide.
- Configure the new LIC, as described in the 3745 Connection and Integration *Guide*.
- Follow steps 4, 5, 6, and 7.

- If the test is not successful, the LIC is still faulty, $\, igoplus$

- If the test is successful, reactivate the lines.

Problems on One Line of a LIC5

Power on and log on at the operator console. Refer to the 3745 Basic Operations Guide. This screen is displayed:

FUNCTION SELECTION RULES	
TO SELECT ONE OF THE MENUS, PRESS THE APPROPRIATE F KEY TO SELECT A FUNCTION. ENTER ITS 3-CHARACTER NAME THEN PRE	
ONCE YOU HAVE SELECTED A FUNCTION FROM ONE MENU, YOU MAY	
A FUNCTION FROM THE OTHER To end the function on screen, press f1	
TO RETURN TO THE PENDING FUNCTION, PRESS F2	
TO LOG OFF, ENTER OFF THEN PRESS SEND	
ALARM F1:END F2:MENU2 F3:ALARM F4:MENU1	Ref Code

2 Check if there is an alarm related to your problem.

- If there is an alarm related to your problem, perform the action required for that alarm (see Chapter 1).
- If there is no alarm related to your problem, go to next step.

3 Check visually that:

- The LIC is operational (not in use with a PKD). The green lamp should be on. If not, ask the host operator to activate the line if possible.
 - When the green light is on, DTR is on.
 - When the yellow light is on, the LIC is faulty.
 - When green and yellow lights are blinking, the LIC has been plugged into the wrong slot.
 - To check the lights, plug in the PKD (refer to Figure 9-3 on page 9-38 for connection); press the **Go** or **Stop** key; then the green and yellow lights should be on.
 - When the PKD is connected, if a LIC5 or LIC6 is misplugged, the message 'WRONG SLOT' is displayed on the PKD.
- The LIC is correctly configured. See the 3745 Connection and Integration Guide.

0

4 Make sure that the remote control unit and modem are operational.

5 Perform LIC tailgate data wrap test, using the wrap plug. For a complete description of this test, see Chapter 16.
If the test fails, go to step 6.
If correct, reactivate the line, restart the application, and go to step 8.
If the application is still failing, go to next step.

6 Do one of the following:

7

- If there is spare LIC, go to step 7.
- If there is no spare LIC, but spare port(s) are defined for failing lines:
 - Perform a port swap. Refer to the 3745 Advanced Operations Guide.
 - If the problem persists: \square
- Deactivate the second line (if connected).
- Replace and configure the LIC, as described in the 3745 Connection and Integration Guide.
- Follow steps 4, 5, and 6 beginning on page 9-37. If the test is successful, reactivate the line.

Locate the LIC to be tested and plug in the IBM 5869 Portable Keypad Display (PKD) as described in the 3745 Connection and Integration Guide.

Various messages can be displayed on the PKD before performing the LIC line analysis procedure (LLAP). These are described under "LIC Messages (LIC5)" on page 9-41.

If the mode is CCITT (and you checked the configuration in step 3), and the problem persists, suspect your common carrier or the other modem.

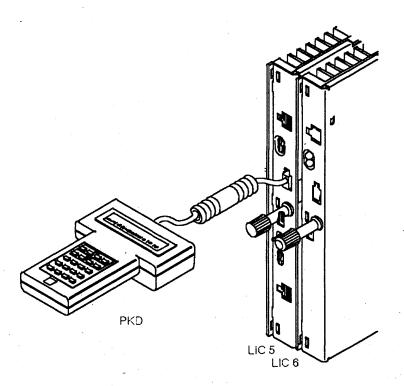


Figure 9-3. IBM 5869 Portable Keypad Display (PKD) plugged to a LIC5 or a LIC6.

Warning: This test is disruptive for the whole link (point-to-point or multipoint) even if only one station of a multipoint link is failing.

Notes:

8

- LLAP cannot be performed on a tributary LIC5 of a multipoint link, or on a secondary LIC5 of a point-to-point link.
- 2. If you have just installed or reconfigured the LIC, check the configuration with the PKD before performing automatic problem determination.
- 3. The mode option must be 'NATIVE' (which is country-dependent).

Ask the host operator to reactivate the link (if not done on step 5). The green lamp should be on.

The link must be active for correct LLAP testing and have attempted data transmission within the previous 15 minutes.

10 Press the C key on the PKD. The message PROBLEM DETERMIN should be displayed.

- If it is, press Go to continue.
- If any other message is displayed, find the message under "LIC Messages (LIC5)" on page 9-41 and take the action required.
- If you are testing a point-to-point link:
 - If the remote modem is a multi-port modem, the message REMOTE PORT is displayed. Enter the remote address then press **Go** to continue.
 - Go to step 12.
- If you are testing a multipoint link, go to step 11.
- The message REM ADDRESS is displayed. Enter the remote modem address, then press Go to continue.

If the remote modem is a multi-port modem, the message REMOTE PORT is displayed. Enter the remote port address, then press Go to continue.

Notes:

1. Each modem on a multipoint link must be tested separately.

If the remote test of a modem on a multipoint link is unsuccessful, suspect the entire link and test each modem **locally**.

12 The test runs.

During the test, the message RUNNING nn is displayed, where nn increments, showing the progression of the test.

To stop the test at any point, press **EXIT**.

If the message PLUG TEL WRAP is displayed, plug the line plug into the telecommunication wrap at the cable end (telephone company end). Then press **Go** to continue.

13 If the message NO ERROR FOUND is displayed, press **EXIT**. Then, go to step 15. Otherwise go to step 14.

14 Perform the action corresponding to the message displayed.

If a wrap plug is connected, the message REMOVE TEL WRAP THEN PRESS EXIT is displayed. Perform this action.

15 If a wrap plug is connected, the message REMOVE TEL WRAP THEN PRESS EXIT is displayed. Perform this action.

At this point, you have performed the LLAP.

- For the first time, return to step 10 and perform the LLAP a second time.

For the second time, the test is completed.
 If the problem persists when operation is resumed, ask the host operator to check the line and the control program.

LIC Messages (LIC5)

The following LIC messages are displayed on the PKD. The cause and the recommended corrective action are given. Perform the corrective actions step by step until the error is cleared.

		· · ·	
CONFIG MISMATCH			
	· · · · · · · · · · · · · · · · · · ·		

Cause:

Local LIC and remote modem configuration

Action:

- Check the local configuration.
- · Ask the remote operator to check the remote configuration.
- Reconfigure if necessary, see the 3745 Connection and Integration Guide.
- · Press the EXIT key to return to the background display.

LOC MODEM ERROR

Cause: Local LIC error.

Action:

- Verify that the telecommunication wrap is correctly plugged.
- · Replace the LIC, then go back to step 6 on page 9-34.
- Press the EXIT key to return to the background display.

LOC DTE ERROR

Cause:

- There has been no data transmission within the past 15 minutes.
- System fault.

Action:

- Try automatic problem determination again during normal data transmission.
- Contact the host operator to check that the line is activated.
- · Press the EXIT key to return to the background display.

MASTER ONLY

Cause:

You are attempting to run the test from a remote secondary or tributary LIC5.

Action:

- If, at the remote side, the control (or primary) point is:
 - A LIC5, ask the remote operator to run LLAP.
 - Another equipment, ask the remote operator to execute a similar problem determination procedure or check the remote equipment.
- · Press the EXIT key to return to the background display.

PLUG TEL WRAP THEN PRESS GO

Cause:

The test requires the wrap plug.

Action:

- Plug the line plug into the telecommunication wrap at the cable end (telephone company end).
- · Press Go to continue the test.

REM DTE OR REMOTE MODEM ERROR

Cause:

Faulty remote DTE or remote modem.

Action:

- · Ask the remote operator to perform the remote modem wrap test:
 - With a telecommunication wrap plug at the telephone company end if the remote equipment is a LIC5.
 - With a modem wrap plug if any other remote equipment.
- Press the EXIT key to return to the background display.

REM MODEM ERROR

Cause:

Faulty remote modem.

Action:

- · Ask the remote operator to perform the remote modem self-test.
- · Press the EXIT key to return to the background display.

TEL LINE OR REM MODEM ERROR

Cause:

Faulty line, remote modem, or DTE.

Action:

- Ask the remote operator to perform the remote modem wrap test with a telecommunication wrap plug at the telephone company end.
- Contact your telecommunication line service.
- · Press the EXIT key to return to the background display.

TEL LINE ERROR

Cause:

Faulty telecommunication line.

Action:

- Contact your telecommunication line service.
- · Press the EXIT key to return to the background display.

0

WRONG SLOT

Cause:

• A LIC5 or LIC6 has been plugged into a wrong position. (Refer to the Connection and Integration Guide.)

Action:

• Plug the LIC in the right position.

Note: A 56 Kbps LIC6 must always be plugged in the odd position and be alone in a pair of slots.

Problems on the Line of a LIC6

Power on and log on at the operator console. Refer to the 3745 Basic Operations *Guide*. This screen is displayed:

FUNCTION SELECTION RULES TO SELECT ONE OF THE MENUS, PRESS THE APPROPRIATE F KEY
TO SELECT A FUNCTION, ENTER ITS 3-CHARACTER NAME THEN PRESS SEND
ONCE YOU HAVE SELECTED A FUNCTION FROM ONE MENU, YOU MAY SELECT A FUNCTION FROM THE OTHER
TO END THE FUNCTION ON SCREEN, PRESS F1
TO RETURN TO THE PENDING FUNCTION, PRESS F2
TO LOG OFF, ENTER OFF THEN PRESS SEND ===> Alarm Ref Code
ALARM Ref Code F1:END F2:MENU2 F3:ALARM F4:MENU1

The reference code is always displayed at the right-most position of the alarm.

2 Check if there is an alarm related to your problem.

- If there is an alarm related to your problem, perform the action required for that alarm (see Chapter 1).
- If there is neither alarm nor reference code related to your problem:
 - If it seems the traffic slows down on all lines linked to a scanner, \checkmark and report the problem.
 - Otherwise, go to next step.

3 Check visually that:

- The LIC and line cables are correctly connected.
- The LIC is operational (not in use with a PKD). The green lamp should be on. If not, ask the host operator to activate the line if possible.
 - When the green light is on, DTR is on.
 - When the yellow light is on, the LIC is faulty.
 - When green and yellow lights are blinking, the LIC has been plugged into the wrong slot.
 - If it concerns a 56 kbps LIC6, two cases may happen:
 - 1. The LIC is alone on the pair of slots and plugged into the even position. The leds are not blinking but a message displayed on the console advise you to plug the 56 kbps LIC6 into the odd position.
 - 2. A LIC5 or LIC6 (low speed) is plugged into one slot, and a 56 kbps LIC6 is plugged into the other one of the pair of slots. The leds are blinking and a message is displayed on the console saying: THE LIC IS NOT PRESENT. Plug the 56 kbps LIC6 into the odd position and remove the other LIC. When a 56 kbps LIC6 is plugged (in the odd position of a pair of slot), no other LIC must be plugged in the even position.
 - To check the lights, plug the PKD in (refer to Figure 9-4 on page 9-47 for connection); press the **Go** or **Stop** key; then the green and yellow lights should be on.
 - When the PKD is connected, if a LIC5 or a LIC6 is misplugged, the message 'WRONG SLOT' is displayed on the PKD.
- The LIC is correctly configured. See the 3745 Connection and Integration Guide.

Make sure that the remote control unit and modem are operational.

5 Perform LIC tailgate data wrap test, using the wrap plug. For a complete description of this test, see Chapter 16.

If the test fails, go to step 6.

If correct, reactivate the line, restart the application, and go to step 8.

If the application still fails, go to next step.

6 Do one of the following:

7

- If there is spare LIC, go to step 7.
- If there is no spare LIC, but spare port(s) are defined for failing lines:
 - Perform a port swap. Refer to the 3745 Advanced Operations Guide.
 - If the problem persists: \square

• Replace and configure the LIC, as described in the 3745 Connection and Integration Guide.

• Follow steps 4, 5, and 6 beginning page 9-45. If the test is successful, reactivate the line.

8 Locate the LIC to be tested and plug in the IBM 5869 Portable Keypad Display (PKD) as described in the 3745 Connection and Integration Guide.

Various messages can be displayed on the PKD before you perform the LIC line analysis procedure (LLAP). These are described under "LIC Messages (LIC6)" on page 9-50.

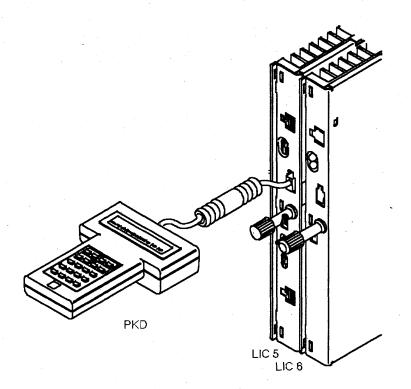


Figure 9-4. IBM 5869 Portable Keypad Display (PKD) plugged to a LIC5 or a LIC6.

Warning: This test is disruptive for the whole link (point-to-point or multipoint) even if only one station of a multipoint link is failing.

Notes:

- LLAP cannot be performed on a tributary LIC6 of a multipoint link, or on a secondary LIC6 of a point-to-point link.
- 2. LLAP performs problem determination only on the first telephone link. It does not help with problem determination on a secondary link in, for example, a tailing configuration.
- 3. LLAP is not supported when a LIC 6 is connected to an IBM Modem 5821 Model 10.
- 4. If you have just installed or reconfigured the LIC, check the configuration with the PKD *before* performing automatic problem determination.
- 5. NETW SERVICE must be ON for the local LIC (refer to the configuration setting procedure for the LIC6 in the 3745 Connection and Integration Guide) and for the remote modem.

9 Ask the host operator to reactivate the link (if not done on step 5). The green lamp should be on.

The link must be active for correct LLAP testing and have attempted data transmission within the previous 15 minutes.

Press the **C** key on the PKD. The message PROBLEM DETERMIN should be displayed.

If it is, press Go to continue.

If any other message is displayed, find the message under "LIC Messages (LIC6)" on page 9-50 and take the action required.

If no action is possible from the PKD, suspect the LIC and go back to step 3.

If you are testing a point-to-point link, go to step 12.

If you are testing a multipoint link, go to step 11.

The message REM ADDRESS is displayed. Enter the remote modem address, then press **Go** to continue.

Notes:

10

- 1. Each modem on a multipoint link must be tested separately.
- 2. If the remote test of a modem on a multipoint link is unsuccessful, suspect the entire link and test each modem **locally**.

12 To stop the test at any point, press **EXIT** and hold it down until the message WAIT is displayed.

During the test, the message RUNNING nn is displayed, where nn increments, showing the progression of the test.

If the message PLUG TEL WRAP is displayed, unplug the cable from the telecommunication socket and plug it into the telecommunication wrap plug. Then press **Go** to continue.

13 If the message NO ERROR FOUND is displayed, press **EXIT**. The test is completed. Go to step 15.

Otherwise go to step 14.

Perform the action corresponding to the message displayed. Then, the message REMOVE TEL WRAP THEN PRESS EXIT is displayed. Remove the telecommunication wrap plug.

0

15 The message REMOVE TEL WRAP THEN PRESS EXIT is displayed. Remove the telecommunication wrap plug.

If the problem persists when operation is resumed, ask the host operator to check the line and the control program.

LIC Messages (LIC6)

The following LIC messages are displayed on the PKD. The cause and the recommended corrective action are given. The corrective actions should be performed step by step until the error is cleared.

CHECK CONFIG

Cause: Local LIC error.

Action:

- Check the local configuration.
- Reconfigure if necessary, see the 3745 Connection and Integration Guide.
- · Press the EXIT key to return to the background display.

CONFIG MISMATCH

Cause: Local LIC and remote modem configuration error.

Action:

- Check the local configuration (in particular, that the correct DDS or LDM mode has been selected) see the 3745 Connection and Integration Guide.
- Reconfigure if necessary.
- · Ask the remote operator to check the remote configuration.
- If the problem persists, check if the remote modems are displaying warning messages.
- Press the EXIT key to return to the background display.

DDS OOS OOF

Cause: The network is not operational, or there is a remote modem or line fault.

Action:

- · Call the network manager and ask if the network is operational.
- If the network is operational, ask the remote host operator to perform the remote modem self-test.

LOC MODEM ERROR

Cause: Faulty local LIC.

Action:

- · Verify that the telecommunication wrap plug is correctly plugged in.
- · Replace the local LIC.
- Perform steps 6 and 7 on page 9-46.
- · Press the EXIT key to return to the background display.

MASTER ONLY

Cause: The LLAP is being attempted from local secondary or tributary LIC6.

Action:

· If at the remote side, the control (or primary) point is:

- A LIC6, ask the remote operator to run LLAP.
- Another equipment, ask the remote operator to execute a similar problem determination procedure or to check the remote equipment.

NETW SERVICE OFF

Cause: Network services option not ON.

Action:

- · Enable network services in local modem configuration.
- Press the EXIT key to return to the background display.

NO LOC DTE ACTIV

Cause:

There has been no data transmission during the last 15 minutes.

Action:

- Try automatic problem determination again during normal data transmission.
- · Contact the host operator to check that the line is activated.
- · Press the EXIT key to return to the background display.

REM MODEM ERROR

Cause: Faulty remote modem

Action:

- Ask the remote operator to perform the remote modem wrap test with a telecommunication wrap plug at the telephone company end.
- · Replace the remote modem if necessary.
- Press the EXIT key to return to the background display.

REMOTE PROBLEM

Cause: Faulty remote modem or remote DTE.

Action:

- Ask the remote operator to perform the remote modem wrap test with a telecommunication wrap plug at the telephone company end.
- · Press the EXIT key to return to the background display.

TEL LINE OR REMOTE PROBLEM

Cause: Faulty line, remote modem, or DTE.

Action:

- Ask the remote operator to perform the remote modem wrap test with a telecommunication wrap plug at the telephone company end.
- If the remote modem(s) are not faulty, call your telecommunication line service to check the line.
- · Press the EXIT key to return to the background display.

TEL LINE ERROR

Cause: Faulty telecommunication line.

Action:

- · Contact your telecommunication line service.
- · Press the EXIT key to return to the background display.

TEST FAILED WRAP

Cause:

- Telecommunication wrap plug missing or incorrectly plugged.
- Faulty local LIC.

Action:

- 1. Verify that the telecommunication wrap plug is correctly plugged.
- 2. Replace the LIC then go back to step 3 on page 9-45.
- 3. Press the EXIT key to return to the background display.

WAIT.

Cause:

- · The test is being terminated.
- · Press the EXIT key to return to the LIC status display.

Action: Wait

WRONG SLOT

Cause:

• A LIC5 or a LIC6 has been plugged into a wrong position. (Refer to the Connection and Integration Guide.)

Action:

• Plug the LIC in the right position.

Note: A 56 Kbps LIC6 must always be plugged in the odd position and be alone in a pair of slots.

Chapter 10. Line Problem (HSS)

Power on and log on the operator console. Refer to the 3745 Basic Operations *Guide*. This screen is displayed:

FUNCTION SELECTION RULES TO SELECT ONE OF THE MENUS, PRESS THE APPROPRIATE F KEY TO SELECT A FUNCTION, ENTER ITS 3-CHARACTER NAME THEN PRESS SEND ONCE YOU HAVE SELECTED A FUNCTION FROM ONE MENU, YOU MAY SELECT A FUNCTION FROM THE OTHER TO END THE FUNCTION ON SCREEN, PRESS F1 TO RETURN TO THE PENDING FUNCTION, PRESS F2 TO LOG OFF, ENTER OFF THEN PRESS SEND ===> ALARM F1:END F2:MENU2 F3:ALARM F4:MENU1

2 Check if there is an alarm related to your problem.

- If there is an alarm related to your problem, perform the action required for that alarm (see Chapter 1).
- If there is no alarm related to your problem, go to next step.

3 If a second port has been defined in NCP, connect the cable to the second port and reactivate the line.

If the problem is corrected, suspect the HSS card interface. Continue normal

operation and \square to have the card replaced.

If the problem persists, perform an internal HSS wrap test for the first interface (see the 3745 Advanced Operations Guide).

If the test is unsuccessful, suspect HSS card failure.

If the test is successful, go to the next step.

4 Make sure that the **local and remote modems** are:

- Powered on.
- Operational (not in test mode).
- Correctly connected to the port (see the 3745 Connection and Integration Guide).

5 Make sure that the **remote control unit** is operational.

6 Perform self-tests on the DCE. Refer to the DCE documentation.

If correct, perform DCE-to-DCE tests (end-to-end). Refer to the DCE documentation. If correct, go to next step.

8 Enter the decimal address of the line, then

SEND

7

9

F6

The following screen is displayed. Check the line definition parameters.

Line Problem (HSS)

mm/dd/vv hh:mm FUNCTION ON SCREEN: LINE INTERF DSPLY - ENTER A DECIMAL LINE ADDRESS FROM 0 TO 1039 = = > LINE 1031 1 IN SCANNER 4 CCITT X21 WIDE BAND A NCP CONTROL PROGRAM: NON SWITCHED B LINE TYPE: PROTOCOL: SDLC - NRZI = YES TRANSMISSION MODE: DUPLEX CABLE ID: DIRECT ATTACHMENT C CLOCK: MODEM ===> F1:END F2:MENU2 F3:ALARM F5:REFRESH F6:LINE PARAMETERS F7:LEADS

10 According to the information displayed in **A**, **B** and **C**, go to the appropriate page.

А	В	C	Go to page	
CCITT V.35	Nonswitched	Modem attachment	10-4	
CCITT V.35	Nonswitched	Direct attachment	10-6	
CCITT X.21	Nonswitched	Modem attachment	10-8	
CCITT X.21	Nonswitched	Direct attachment	10-10	
INTF STANDARD				
NOT ACCESSED	Nonswitched	CABLE ID NOT ACCESSE	D See below	

If INTF STANDARD NOT ACCESSED is displayed in A and CABLE ID NOT ACCESSED in C: The line is not activated. More information on the interface is given in the 3745 Advanced Operations Guide under the Line Interface Display function.

CCITT V.35 Nonswitched - Modem Attachment

11 F7 To display the Control Lead screen.

12 F5 To start the refresh.

If you wish to stop the refresh:

13 Locate **DTR** and **DSR** on the screen.

14 Ask the host operator to reactivate the line.

15 The status of **DTR** and **DSR** should be updated when the line is reactivated. Note each status and perform the action requested on the following page.

FUNCTION ON SCREEN: LINE INTERF - ENTER A DECIMAL LINE ADD	
LINE 1028 0 IN SCANNER 3	CCITT V35
XMIT CMD: SDLC XMIT DATA Status: in-progress	RCV CMD: SDLC RCV DATA Status: In-progress
MODEM-OUT DTR ON RTS ON	MODEM-IN <mark>dsr</mark> on RFS on CD
===>	
F1:END F2:MENU2 F3:ALARM F5:RE	FRESH F6:LINE PARAMETERS F7:LEADS

DTR is OFF: Perform a tailgate wrap test (see Chapter 16). Then return here to analyze the results.

– Tailgate Wrap Test Results -

- Test not successful:
- Test successful: Check the network status with the network operator. If it is operational, suspect the host software.

DTR is ON and DSR is OFF

- Check that the DCE is ready and operational.
- Check that the cables are correctly plugged in.
- Perform a tailgate wrap test (see Chapter 16). Then return here to analyze the results.

— Tailgate Wrap Test Results

- Test successful, check:
 - DCE
 - DCE cable.

DTR and DSR are ON Perform a tailgate wrap test (see Chapter 16). Then return here to analyze the results.

--- Tailgate Wrap Test Results -

- Test not successful:
- Test successful: Perform a data wrap test at the 3745 modem level (see Chapter 16). Then return here to analyze the results.

- Modem Data Wrap Test Results -

- Test not successful: Suspect the modem or the cable.
- Test successful, check:
 - The remote control unit. Perform appropriate remote control unit tests.
 - The network status with the network operator.
 - The network.

11

CCITT V.35 Nonswitched - Direct Attachment

F7 To display the Control Lead screen.

12 F5 To start the refresh.

If you wish to stop the refresh:

13 Locate DTR, RTS, DSR, and RFS on the screen.

14 Ask the host operator to reactivate the line.

15 The status of **DTR**, **RTS**, **DSR**, and **RFS** should be updated when the line is reactivated. Note each status and perform the action requested on the following page.

FUNCTION ON SCREEN: LINE INTERF D - ENTER A DECIMAL LINE ADDR LINE 1028 0 IN SCANNER 3	ESS FROM 0 TO 1039 = = >
XMIT CMD: SDLC XMIT DATA STATUS: IN-PROGRESS	RCV CMD: SDLC RCV DATA Status: In-progress
NODEM-OUT DTR ON NODEM-OUT RTS ON	MODEM-IN DSR ON MODEM-IN RFS ON CD
•	
F1:END F2:MENU2 F3:ALARM F5:REF	RESH F6:LINE PARAMETERS F7:LEADS

DTR or RTS is OFF and DSR or RFS is OFF: Perform a tailgate wrap test (see Chapter 16). Then return here to analyze the results.

- Tailgate Wrap Test Results

- Test not successful:
- Test successful: Check the direct attachment cable connection. If it is correct, suspect the host software.

DTR, RTS, DSR, RFS are all ON: Check that the cable is correctly plugged in and that the remote control unit is ready and operational. If they are both correct, perform a tailgate wrap test (see Chapter 16). Then return here to analyze the results.

- Tailgate Wrap Test Results

- Test not successful: 📿
- Test successful, check:
 - DCE cable.
 - Remote control unit. Perform appropriate remote control unit tests.
 - The direct attachment cable connection.
 - The programmable line speed definition.

DTR or RTS is ON and DSR or RFS is OFF: Check that the cable is correctly plugged in. If it is, perform a tailgate wrap test

(see Chapter 16). Then return here to analyze the results.

– Tailgate Wrap Test Results -

- Test not successful:
- · Test successful: Check the DCE cable.

CCITT X.21 Nonswitched - Modem Attachment

11 F7 To display the Control Lead screen.

12 F⁵ To start the refresh.

If you wish to stop the refresh: MA

13 Locate **c** and **I** on the screen.

14 Ask the host operator to reactivate the line.

15 The status of **C** and **I** should be updated when the line is reactivated. Note each status and perform the action requested on the following page.

FUNCTION ON SCREEN: LINE INTERF DSPLY - ENTER A DECIMAL LINE ADDRESS F	mm/dd/yy hh:mm ROM 0 TO 1039 = = >
LINE 80 11 IN SCANNER 3 CCITT X21	LOW SPEED
XMIT CMD: ENABLE STATUS: IN-PROGRESS	RCV CMD: LINE NOT ACTIVE STATUS:
MODEM-OUT C ON	MODEM-IN
TON	R
===>	
F1:END F2:MENU2 F3:ALARM F5:REFRESH	F6:LINE PARAMETERS F7:LEADS

10-8 IBM 3745 Communication Controller: Problem Determination Guide

C is OFF: Perform a tailgate wrap test (see Chapter 16). Then return here to analyze the results.

– Tailgate Wrap Test Results –

- Test not successful:
- Test successful: Check the network status with the network operator. If it is operational, suspect the host software.

C is ON and I is OFF: Check that the remote control unit and the modems are ready and operational. If they are, perform a tailgate wrap test (see Chapter 16). Then return here to analyze the results.

— Tailgate Wrap Test Results

- Test not successful:
- Test successful, check:
 - DCE (modem and link tests are described on page 9-30).
 - DCE cable.

C and I are both ON: Check that the remote control unit is ready and operational. If it is, perform a tailgate wrap test (see Chapter 16). Then return here to analyze the results.

- Tailgate Wrap Test Results

Test not successful: 📿

Test successful, check:

- DCE.

- Remote control unit. Perform appropriate remote control unit tests.
- The network status with the network operator.
- Network.

11	F7 To dis	play the Control Lead screen.	
12	F5 To sta	rt the refresh.	
		to stop the refresh: INA	,
3	Locate C a	nd I on the screen.	
4	Ask the ho	st operator to reactivate the line.	-
5		of C and I should be updated when the line is reactivated. Note each perform the action requested on the following page.	_
5		perform the action requested on the following page.	
5		perform the action requested on the following page.	
5		perform the action requested on the following page. 	
5		perform the action requested on the following page. 	
5		perform the action requested on the following page. 	
5		perform the action requested on the following page.	

C is OFF: Perform a tailgate wrap test (see Chapter 16). Then return here to analyze the results.

 Tailgate Wrap Test Results 	· · ·	N 1740 (1977)

- Test not successful: 🖒
- Test successful: Check the direct attachment cable connection. If it is correct, suspect the host software.

C is ON and I is OFF: Check that the remote control unit is ready and operational. If it is, perform a tailgate wrap test (see Chapter 16). Then return here to analyze the results.

Tailgate Wrap Test Results

• Test not successful:

Test successful, check:

The direct attachment cable.

C and I are both ON: Check that the remote control unit is ready and operational. If it is, perform a tailgate wrap test (see Chapter 16). Then return here to analyze the results.

	Tailgate	Wrap	Test	Results	•
--	----------	------	------	---------	---

- 🛛 Test not successful: 🏼 🏠
- Test successful, check:
 - Remote control unit. Perform appropriate remote control unit tests.
 - The direct attachment cable connection.
 - Network.

Chapter 11. Ethernet-Type Line Problems (ESS)

Check the SQE switch (enabled or disabled), and the following connections:

- IBM 3745
- MAU (transceiver)
- Terminators (check that the terminator is plugged in correctly and there is no short circuit or open circuit).

This checking is essential because in certain cases there will be no message to indicate a faulty connection.

Note: Another problem cause may be the addressing scheme. Refer to the EID function in the 3745 Advanced Operations Guide.

2 Power on and log on the operator console (refer to the *3745 Basic Operations Guide*). The following screen is displayed:

	50
FUNCTION SELECTION RUL TO SELECT ONE OF THE MENUS, PRESS THE APPROPRIATE F	
TO SELECT A FUNCTION, ENTER ITS 3-CHARACTER NAME THE	N PRESS SEND
ONCE YOU HAVE SELECTED A FUNCTION FROM ONE MENU, YOU A FUNCTION FROM THE OTHER	MAY SELECT
TO END THE FUNCTION ON SCREEN, PRESS F1	
TO RETURN TO THE PENDING FUNCTION, PRESS F2	
TO LOG OFF, ENTER OFF THEN PRESS SEND	
===>	Ref Code
F1:END F2:MENU2 F3:ALARM F4:MENU1	

3 Check if there is an alarm related to your problem.

- If there is an alarm related to your problem, perform the action required for that alarm (see Chapter 1).
- If there is no alarm related to your problem, go to next step.

4 Check if the green power light on the tailgate is on.

If the light is on, go to next step.

If the light is off, take the appropriate action.

Models 130, 150, 160, 170

Models 210, 310, 410, 610

Use the MOSS POS function to check the status of the Ethernet line adapter

power. If it is down, power it up. \square if you are not successful.

5 Make sure:

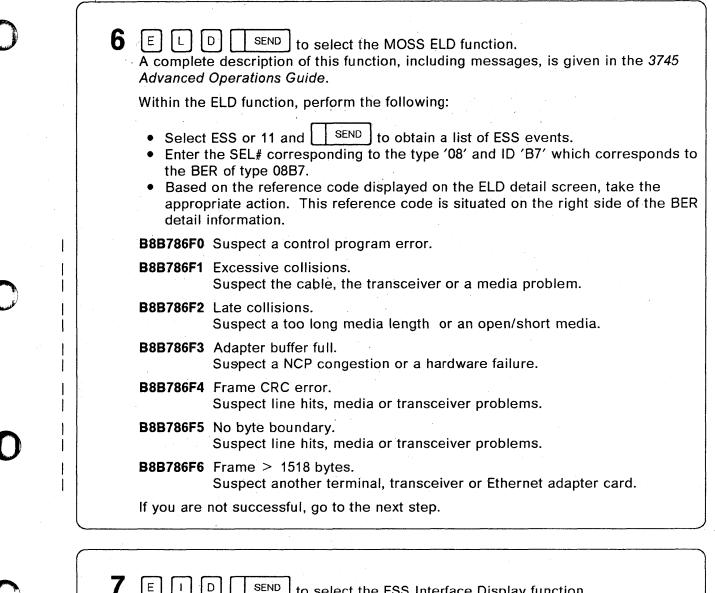
 The MAU is operational. (MAU which is the media access unit is also known as the transceiver.)

- At installation time, you checked:
 - The MAU (or transceiver) meets Ethernet V2 or IEEE 802.3 standard requirements.

(Some MAU's are more sensitive than others to electromagnetic environment and may degrade the 3745 performances.)

- **The SQE-TEST function is enabled.** The MAU must have this function (also known as HEARTBEAT function) when it is attached to a 3745. The 3745 needs it to check proper operations of collision signal paths.

After checking and correction, if the problem persists, go to the next step.



E J D SEND to select the ESS Interface Display function. A complete description of this function, including messages, is given in the 3745 Advanced Operations Guide.

8

Enter the decimal address of the line, SENC displayed.

SEND then the following screen is

Ethernet-Type Line Problems (ESS)

9

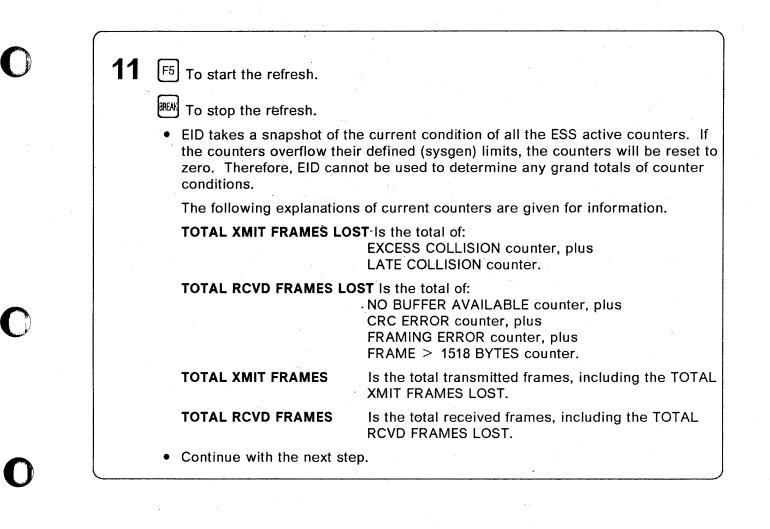
10

mm/dd/yy hh:mm	
FUNCTION ON SCREEN: ESS INTERF DSPLY	
- ENTER A DECIMAL LINE ADDRESS FROM 1056 TO 1071 ==>	
LINE XXXX XX IN ADAPTER X YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY	
ADAPTER TYPE : ESS ESS UNIVERSALLY ADMINISTERED ADDRESS : XXXXXXXXXX ESS LOCALLY ADMINISTERED ADDRESS : XXXXXXXXXXX ESS CURRENT ADDRESS : XXXXXXXXXXX	
COUNTER LIMIT FOR ALL OPERATIONS (HEX VALUE) : XXXXXXXX COUNTER LIMIT FOR UNSUCESSFUL OPERATIONS (HEX VALUE) : XXXXXXXX	
==> F1:END F2:MENU2 F3:ALARM F5:REFRESH F7:COUNTERS	

Check if displayed information agrees with the ones defined in the CDF, NCP, or VTAM.

F7 for displaying counters data. The following screen is displayed.

FUNCTION ON SCREEN: ESS INTERF DSPLY		mm/dd/yy hh:n
- ENTER A DECIMAL LINE ADD	RESS FROM 1056 TO 1071 ==>	••
LINE XXXX XX IN ADAPTER	× LINE ACTIVATED	
	EXCESS COLLISION (XMIT)	: xxxxxxxx
CURRENT COUNTERS :	TIME DOMAIN REFLECT. (XMIT)	: xxxxxxxx
	LATE COLLISION (XMIT)	: xxxxxxxx
TOTAL XMIT FRAMES LOST : XXXXXXXX	NO BUFFER AVAILABLE (RCV)	: xxxxxxxx
TOTAL RCVD FRAMES LOST : XXXXXXXX	CRC ERROR (RCV)	: xxxxxxxx
TOTAL XMIT FRAMES : XXXXXXXX	FRAMING ERROR (RCV)	: xxxxxxxx
OTAL RCVD FRAMES : XXXXXXX	FRAME > 1518 BYTES (RCV)	: XXXXXXXX
	DEFERRED (XMIT)	: xxxxxxxx
	ONE RETRY (XMIT)	: xxxxxxxx
	MORE THAN ONE RETRY (XMIT)	: xxxxxxxx
>		
F1:END F2:MENU2 F3:ALARM F5:F	REFRESH F6:LINE PARAMETE	nc



12 Based on the information displayed on the screen, take the appropriate action.

EXCESS COLLISION (XMIT)

Is incremented when a frame cannot be transmitted after 16 tries because of collisions on the medium. Associated with the EXCESS COLLISION is a TIME DOMAIN REFLECT counter value. This value is related to the last EXCESS COLLISION lost transmit frame.

Suspect the cable, the transceiver or a media problem.

LATE COLLISION (XMIT)

A late collision error occurs when a transmit frame is lost because of a collision takes place after the maximum time required to detect a collision.

Suspect a too long media length or an open/short media.

NO BUFFER AVAILABLE (RCV)

This error occurs when the adapter is unable to receive a frame because its buffers are filled.

Suspect a NCP congestion or a hardware failure.

CRC ERROR (RCV)

A CRC error occurs when a receive frame is discarded because of a problem detected with the cyclic redundancy check.

Suspect line hits, media or transceiver problems.

FRAMING ERROR (RCV)

A framing error occurs when a received frame does not end on a byte boundary.

Suspect line hits, media or transceiver problems.

FRAME > 1518 BYTES (RCV)

This error occurs when a receive frame is longer than the maximum allowed frame size for the media.

Suspect any other terminal, transceiver or Ethernet adapter card.

If you are not successful, go to the next step.

13 If another port or another ESS line adapter is available, perform a MOSS PSF function (port swap file function). Refer to the *3745 Advanced Operations Guide*.

 If the problem is corrected, suspect the original connector or the original Ethernet adapter card.

Continue normal operation and \mathfrak{D} to have the failing component changed or repaired.

• If you are not successful, call Ethernet support.

Chapter 12. Token-Ring Interconnection (TRI) Problems

1 Power on and log on the operator console. Refer to the 3745 Basic Operations *Guide*. The next screen is displayed:

FUNCTION SE	ELECTION RULES
TO SELECT ONE OF THE MENUS, PRESS THE APP	
TO SELECT A FUNCTION, ENTER ITS 3-CHARACT	TER NAME THEN PRESS SEND
ONCE YOU HAVE SELECTED A FUNCTION FROM ON A FUNCTION FROM THE OTHER	NE MENU, YOU MAY SELECT
TO END THE FUNCTION ON SCREEN, PRESS F1	
TO RETURN TO THE PENDING FUNCTION, PRESS	F2
TO LOG OFF, ENTER OFF THEN PRESS SEND	
ALARM F1:END F2:MENU2 F3:ALARM F4:MENU1	Ref Code

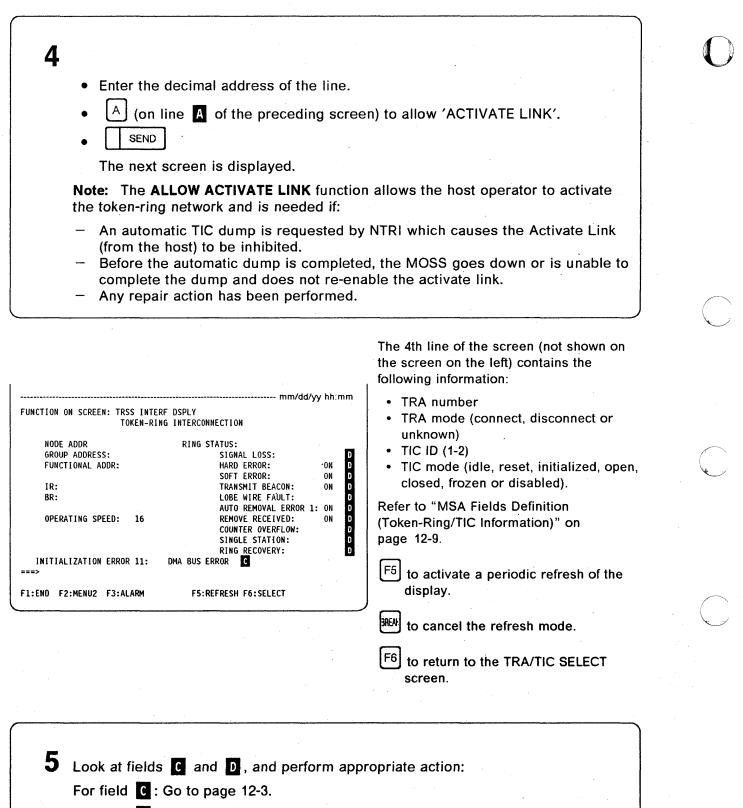
2 Check if there is an alarm on the MOSS console or a NetView^{*} alert if the NetView console is close to you.

- If alarm or alert: Perform the action requested for the alarm or the alert. (See Chapter 1.)
- If no alarm: Go to next step.

T I D SEND to select the TRSS Interface Display function. The next screen is displayed:

FUNCTION ON SCREEN: TRSS		SELECT		
- ENTER A DECIMAL LINE AD	DDRESS (1088 TO 109	95) ==>		
	TRA# 1	LINE ADDRESS 1088 1089	TIC	CCU
- TYPE "A" TO ALLOW "ACT	IVATE LINK" COMMAND	==> 🗛 .		
PRESS SEND TO CONFIRM				

3



For field **D**: Go to page 12-6.

Interpreting Field

TOKEN-RING INTERCONNECTION			
NODE ADDR	RING STATUS:		
GROUP ADDRESS:	SIGNAL LOSS:		
FUNCTIONAL ADDR:	HARD ERROR: 0		
· · · · · · · · · · · · · · · · · · ·	SOFT ERROR: 0		
IR:	TRANSMIT BEACON: 0		
BR:	LOBE WIRE FAULT:		
	AUTO REMOVAL ERROR 1: 0		
OPERATING SPEED: 16	REMOVE RECEIVED: 0		
	COUNTER OVERFLOW:		
	SINGLE STATION:		
	RING RECOVERY:		
INITIALIZATION ERROR 11:			

BRING-UP ERROR x

- Ask the host operator to activate the link for this TIC.
- If the problem persists, use the MOSS ELD function to analyze the TRSS BERs type 15 related to the last encountered token-ring problems. By using the ELD detail screen, you may find additional

information which can help you fix the problem. If not fixed then \mathfrak{D} and give BER information.

ERROR DETERMINING TRID MESSAGE

- The selected TIC is not yet activated by NCP.
 It is possible to access a TIC only after it has been activated once by NCP/VTAM*.
- Activate the TIC with NCP.

MOSS/TIC ERROR: FUNCTION CANCELLED

- Ask the host operator to reactivate the link for this TIC if it has been deactivated for any reason.
- Check information displayed in the MSA field of the TID screen.
 Refer to "MSA Fields Definition (Token-Ring/TIC Information)" on page 12-9.
- If the problem persists, use the MOSS ELD function to analyze the TRSS BERs type 15 related to the last encountered token-ring problems. By using the ELD detail screen, you may find additional

information which can help you fix the problem. If not fixed then \mathfrak{D} and give BER information.

RECEIVE AND TRANSMIT ERRORS

- · Ask the host operator to activate the link for this TIC.
- If the problem persists, use the MOSS ELD function to analyze the TRSS BERs type 15 related to the last encountered token-ring problems. By using the ELD detail screen, you may find additional

information which can help you fix the problem. If not fixed then \mathfrak{D} and give BER information.

INITIALIZATION ERROR xx

Table 12-1. Token-Ring - Initialization Error Description and Action		
Initialization Error	Error Description and Action	
01 to 07	The specified initialization parameter (C on previous screens), was found to be invalid by the TIC microcode.	
	 Use the CDF function (LA and port display) to see the valid options for the TIC and compare them to the generation parameters and correct if necessary. Then ask the host operator to activate the link for this TIC. 	
	 If the problem persists, use the MOSS ELD function to analyze the TRSS BERs type 15 related to the last encountered token-ring problems. By using the ELD detail screen, you may find additional information which can help you fix the problem. If not yet fixed then and give BER information. 	
08 to 13	The specified hardware problem (C on previous screens), has been detected by the TIC.	
	Ask the host operator to activate the link for this TIC.	
	 If the problem persists, use the MOSS ELD function to analyze the TRSS BERs type 15 related to the last encountered token-ring problems. By using the ELD detail screen, you may find additional information which can help you fix the problem. If 	
·	not yet fixed then $\textcircled{\begin{subarray}{c} \label{eq:subarray}{c} \end{subarray}}$ and give BER information.	

OPEN ERROR xx: The meaning of each open error and actions to perform is given below.

Open Errors	Open Error Description and Action
INVALID PARAMETER	An open parameter was found to be invalid by the TIC microcode.
	 Check the installation and generation parameters, and correct them if necessary. Then ask the host operator to activate the link for this TIC
	 If the problem persists, use the MOSS ELD function to analyze the TRSS BERs type 15 related to the last encountered token-ring problems. By using the ELD detail screen, you may find additional information which can help you fix the problem. If not yet fixed then
	and give BER information.
FUNCTION FAILURE (01)	The lobe media test has failed, or another MAC frame was seen on the ring during the lobe media test (Phase 0).
	Unplug the lobe cable from the IBM 8228.
	 Ask the host operator to activate the link for this TIC.
	 If the problem persists, unplug the TRA cable for this TIC and ask the host operator to reactivate the link, then look at RING STATUS, (field D on the screen):
	 LOBE WIRE FAULT is ON (without any other status ON): Change the TRA cable.
	- Another ring status (field D) is ON: Perform appropriate action.
SIGNAL LOSS (02)	The TIC is detecting no signal on the ring at the receiver side.
	 Ask the host operator to activate the link for this TIC.
	• If the problem persists, refer to the <i>Token-Ring Network Problem</i> Determination Guide in conjunction with page 12-11 of this guide.

12-4 IBM 3745 Communication Controller: Problem Determination Guide

Table 12-2 (Page 2 of 2). Token-Ring - Open Error Description and Action			
Open Errors	Open Error Description and Action		
WIRE FAULT (03)	There was a fault on the TIC line.		
FREQUENCY ERROR (04)	A frequency error occurred on the TIC line.		
TIME OUT (05)	The TIC has not been able to complete the specified phase in the time allowed.		
	 Ask the host operator to activate the link for this TIC. 		
	• If the problem persists, refer to the <i>Token-Ring Network Problem</i> Determination Guide in conjunction with page 12-11 of this guide.		
RING FAILURE (06)	The TIC is the active monitor and cannot complete the ring purge process in the time allowed.		
	 Ask the host operator to activate the link for this TIC. 		
	• If the problem persists, refer to the <i>Token-Ring Network Problem</i> Determination Guide in conjunction with page 12-11 of this guide.		
RING BEACONING (07)	The monitor contention process was not completed in the time allowed, or a beacon frame was received.		
	Unplug the lobe cable from the IBM 8228 Multistation Access Unit.		
	 Ask the host operator to activate the link for this TIC. 		
	 Look at RING STATUS, (field D on the screen): 		
	 LOBE WIRE FAULT is ON (without any other status ON): Refer to the Token-Ring Network Problem Determination Guide, in conjunction with page 12-11 of this guide. 		
	 Another ring status (field D) is ON: Perform the appropriate action. 		
DUPL NODE ADDRESS (08)	Some other adapter on the ring has the same specific address as this TIC.		
	 Check the installation and generation parameters, and correct them if necessary. Then ask the host operator to activate the link for this TIC. 		
	• If the problem persists, refer to the <i>Token-Ring Network Problem</i> Determination Guide in conjunction with page 12-11 of this guide.		
REQUEST PARAMETER (09)	The parameter server was not able to provide the requested parameters in the time allowed.		
	 Ask the host operator to activate the link for this TIC. 		
an an Arrange. An Arrange and an Arrange and an Arrange. Arrange and an Arrange	• If the problem persists, refer to the <i>Token-Ring Network Problem</i> Determination Guide in conjunction with page 12-11 of this guide.		
REMOVE RECEIVED (10)	A remove force MAC frame was received by this TIC during the open process.		
	 Contact the token-ring operator, who should help you solve this problem. 		
	• When the problem is corrected, ask the host operator to activate the link for this TIC.		
IMPL FORCE RECEIVED (11)	An IMPL force MAC frame was received by the TIC and the adapter has been closed. The adapter is in the same state as after initialization and will have to be opened again.		

For any other message in field **C** refer to the 3745 Advanced Operations Guide.

Interpreting Fields

FUNCTION ON SCREEN: TRSS INTER	mm/dd/yy RF DSPLY IG INTERCONNECTION	r hh:mm
NODE ADDR GROUP ADDRESS:	RING STATUS: SIGNAL LOSS:	D
FUNCTIONAL ADDR:	HARD ERROR: SOFT ERROR:	ON D ON D
IR: BR:	TRANSMIT BEACON: LOBE WIRE FAULT:	ON D
OPERATING SPEED: 16	AUTO REMOVAL ERROR 1: REMOVE RECEIVED: COUNTER OVERFLOW: SINGLE STATION: RING RECOVERY:	ON D ON D D D
INITIALIZATION ERROR 11:	DMA BUS ERROR	
F1:END F2:MENU2 F3:ALARM	F5:REFRESH F6:SELECT	

The meaning of each ring status indicator and the actions to perform are given below.

Ring Status Indicator	Description and Action
SIGNAL LOSS	A receiver exception currently exists in the TIC. The TIC is not receiving signals from the ring. This is a temporary condition and will either be recovered by the ring protocol or will go into a beacon condition (see HARD ERROR).
HARD ERROR	The TIC is transmitting or repeating beacon MAC frames. (See also TRANSMIT BEACON.)
SOFT ERROR	The TIC has transmitted a soft error report frame. This is ring-recoverable.
	No action if SOFT ERROR is ON from time to time.
· · · · · · · · ·	If SOFT ERROR is permanently ON:
	 General traffic degradation over all the Ring Stations including this adapter station:
	If no: no action
	If yes: Refer to the <i>Token Ring Network Rroblem</i> Determination Guide, SX27-3710 for Soft Errors investigation and resolution.
	 Traffic degradation over this adapter station only:
	Check the correct connections of the lobe cable between the Adapter and the MAU.
	If the problem persists:
TRANSMIT BEACON	Used in conjunction with HARD ERROR. If both indicators are ON, this T is generating beacon frames. Same as HARD ERROR.

Ring Status Indicator D	Description and Action
SIGNAL LOSS ON and	Unplug the TIC cable from the IBM 8228.
HARD ERROR ON and TRANSMIT BEACON ON	 Ask the host operator to activate the link for this TIC.
TRANSMIT BEACON ON	Press F5 to start refresh.
	 If an OPEN ERROR message is displayed in field C of the scree perform the action required for that message.
	 If LOBE WIRE FAULT is ON (field D) with no message on line plug the TIC cable in again and refer to the <i>Token-Ring Networ</i> <i>Problem Determination Guide</i>, in conjunction with page 12-11 o this guide.
	 If LOBE WIRE FAULT is OFF (field D) with no message on line plug the TIC cable in again. Use the MOSS ELD function to analyze the TRSS BERs type 15 related to the last encountered token-ring problems. By using the ELD detail screen, you may additional information which can help you fix the problem. If no
	yet fixed then $ onumber \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$
SIGNAL LOSS OFF and	Ask the host operator to activate the link for this TIC.
HARD ERROR ON and TRANSMIT BEACON OFF	Press F5 to start refresh.
TRANSMIT BEACON OFF	 Analyze the information displayed on the screen using the Token-R Network Problem Determination Guide, in conjunction with page 12 of this guide.
LOBE WIRE FAULT	The TIC has detected an open or a short circuit in the lobe data path.
	With no OPEN ERROR message in field
	Check the cable connected to the IBM 8228. Reconnect if necessar
	 Ask the host operator to activate the link for this TIC.
	Press F5 to start refresh.
	- If LOBE WIRE FAULT remains ON, use another IBM 8228 socket
	 Ask the host operator to activate the link for this TIC.
	 If LOBE WIRE FAULT remains ON, change the cable to the IBM 8228.
	 Ask the host operator to activate the link for this TIC.
	 If LOBE WIRE FAULT remains ON, use the MOSS ELD function the analyze the TRSS BERs type 15 related to the last encountered token-ring problems. By using the ELD detail screen, you may additional information which can help you fix the problem. If no
	yet fixed then $\textcircled{\begin{subarray}{c} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$
AUTO REMOVAL ERROR 1	The TIC detected an internal hardware error during the beacon auto-removal process and removed itself from the ring.
	 Ask the host operator to activate the link for this TIC.
	Press F5 to start refresh.
	 If the problem persists, use the MOSS ELD function to analyze the TRSS BERs type 15 related to the last encountered token-ring problems. By using the ELD detail screen, you may find additional information which can help you fix the problem. If not yet fixed then

Table 12-3 (Page 3 of 3). To	ken-Ring - Ring Status Indicator Description and Action
Ring Status Indicator D	Description and Action
REMOVE RECEIVED	The TIC received a remove MAC frame from the network manager and has removed itself from the ring.
	 Contact the token-ring operator, who should help you solve this problem.
	 When the problem is corrected, ask the host operator to activate the link for this TIC.
COUNTER OVERFLOW	An error counter in the TIC has exceeded its maximum value of 255.
SINGLE STATION	There are no other stations connected to this ring.
	 If other stations are on the ring, use another IBM 8228 socket.
	• If the problem persists, refer to the <i>Token-Ring Network Problem</i> Determination Guide, in conjunction with page 12-11 of this guide.
RING RECOVERY	The monitor contention process is in progress on the ring. No action required. If the ring does not recover, another ring status indicator should appear within 30 seconds.

MSA Fields Definition (Token-Ring/TIC Information)

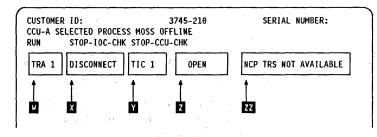


Figure 12-1. MSA Fields definition (Token-ring Information)

Token-Ring information is displayed on line 4 for CCU-A, and on line 7 for CCU-B.

Field W

Field X

TRA mode, updated after TRA selection

Note: If field F indicates CCU INTERRUPTS DISABLED, the TRA mode has no meaning. Refer to CCU information in MSA field descriptions of the 3745 *Advanced Operations Guide*.

TRA number (1, 2, 5 or 6). Indicates that the TRA has been selected (TRS or

The possible modes are:

CONNECT: The TRA is operational and is under NCP control. The control program handles all interrupts (except in the case of an MIOH error).

The PIO disable and the disconnect bits in the TRM level 1 error status are OFF.

DISCONNECT:

TID function).

NECT: The TRA does not run under the control of the control program but under the control of the MOSS microcode. MOSS handles all interrupts and PIOs to/from the TIC.

The PIO disable and the disconnect bits in the TRM level 1 . error status are OFF.

UNKNOWN: A non-recoverable error occurred during the connection/disconnection process, or an MIOC/IOC error occurred while getting level 1 error status during TRA selection. Connect/disconnect may be re-tried.

TIC1 or TIC2

TIC n:

Selected TIC number (1 or 2), updated after a TIC selection.

Field Z

Field Y

Current mode of the selected TIC, updated after a TIC selection or a refresh of the screen display

The TIC must be in one of the seven following modes (as reported by NCP):

IDLE:	The TIC has not yet been reset by NCP.	
RESET:	The TIC has been reset by NCP but has not yet been initialized.	
INITIALIZED:	The TIC has been initialized but has not yet been open or disabled. Initialization parameters have been passed to the TIC by NCP.	

Token-Ring Problems

OPEN:	The TIC has been inserted into the token-ring and is in normal operation. Open parameters have been passed, and receive and transmit operations have been started.
CLOSED:	The TIC has been opened since initialization, but has since been closed (by the host).
FROZEN:	An error was detected by NCP and the following actions were taken by NCP:
	 Interrupts from this TIC are disabled. DMA from this TIC is disabled. The TIC is reset.
DISABLED:	The associated TRA has been disconnected by MOSS. NCP will send no PIO to this TIC.
(blank):	There is no TIC mode if NCP is not online.

The TIC mode is derived from NCP MAC layer status obtained from NCP. The following table gives the correspondence:

Table 12-4. TIC Mode and MAC Status	
Medium Access Control (MAC) Status	TIC Mode
ldle	Idle
TIC resetting hard	ldle
TIC resetting soft	Idle
Initialization list transfer	Reset
Initialized	Initialized
Open started	Initialized
Receive initialization	Initialized
Transmit initialization	Initialized
Started	Open
Transmit in progress	Open
Close in progress	Open
Closed	Closed
Frozen	Frozen
Disconnected	Disabled

Field ZZ

NCP TRS NOT AVAILABLE

Indicates that:

- At the IPL of NCP, the TRSS was not available and did not pass necessary TRSS information to MOSS, or
- An error has occurred when trying to access NCP control blocks needed by the TRSS services.

Several functions which depend upon NCP will not be available.

Otherwise, the **77** field is blank.

Use this page to adapt the instructions given in the Token-Ring Network Problem Determination Guide.

The IBM* Token-Ring Network Problem Determination Guide tells you to:

Record the address of the beaconing device and its nearest active upstream neighbor (NAUN)

or Record the address of device 2 and device 1.

Remove the defective device from the ring by resetting it or powering it off.

Remove the device with the highest error count.

Restart the network application program on the removed device.

Run the adapter diagnostic.

Refer to the NetView detail screen for the alert corresponding to the ring beaconing condition.

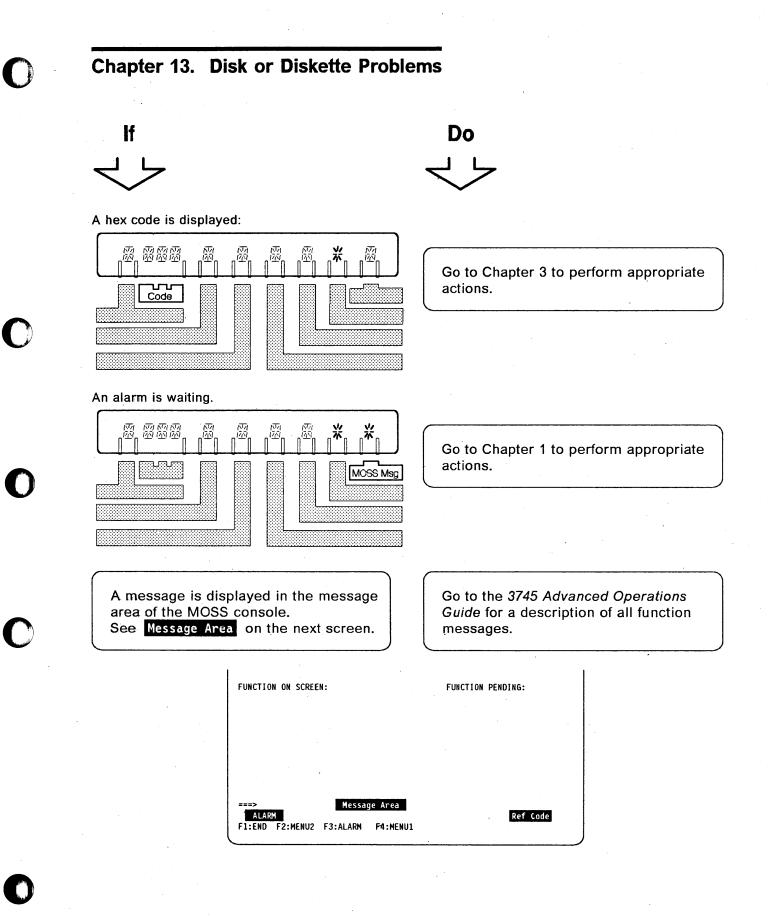
If you are not using NetView, use the problem determination procedures for some other device on the ring to determine these addresses.

- Deactivate the link for this TIC at the host.
- Unplug the cable from the IBM 8228.

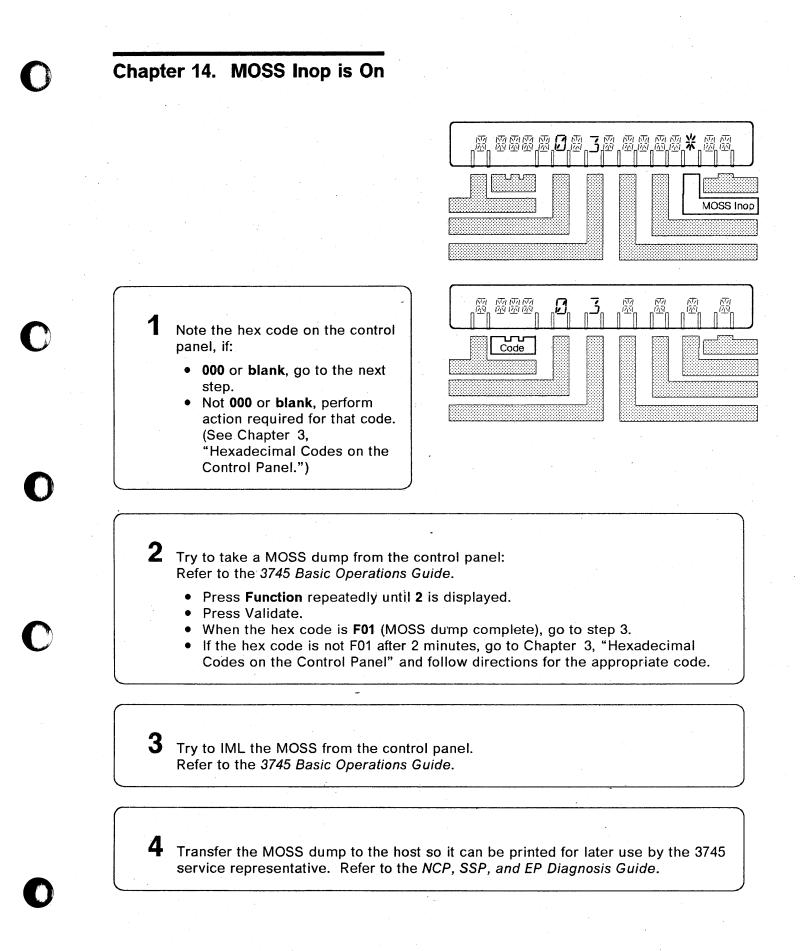
This information must be obtained from the ring-error monitor. Contact the token-ring operator.

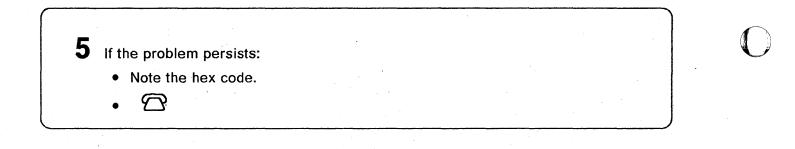
Activate the link for this TIC at the host.

- Ask the host operator to activate the link for this TIC.
- Select and perform the TRSS Interface Display (TID) function from the 3745 console (12-1)
 - If there is an alarm, perform the action described in Chapter 1, "Alarms and Alerts."
 - If there is a BRING-UP error or an INITIALIZATION error (field
 C), take appropriate action.



Disk or Diskette Problems





Chapter 15. Control Panel Problems

Perform the following control panel test if you suspect there is a problem on the control panel, or if at least one segment of a display or indicator is not lit.

For example: $\begin{bmatrix} M \\ M \end{bmatrix}$ instead of $\begin{bmatrix} M \\ M \end{bmatrix}$

The control panel test does not disturb your applications.

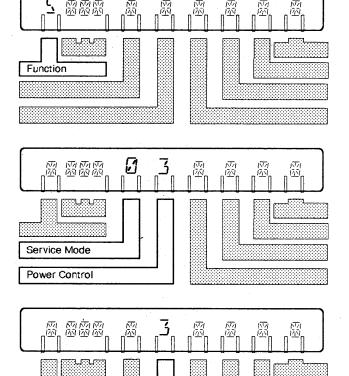
To interrupt the test, press Exit. (Refer to Appendix A, "Control Panel" if needed.)

Note:

 ${\mathcal{G}}$

At any time during the panel test, if **5 remains** steady on the Function display, press **Exit** and

Before you start the test, note the Power Control and Service Mode displays for later use in step 15.



Power Control

2 Press Power Control repeatedly until 3 blinks.

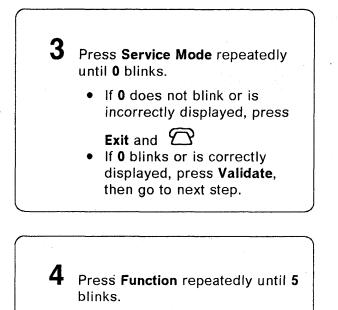
> If 3 does not blink or is incorrectly displayed, press

Exit and

• If **3** blinks or is correctly displayed, press **Validate**, then go to next step.

,

Control Panel Problems



• If **5** does not blink or is incorrectly displayed, press

Exit and \square

• If 5 blinks and is correctly displayed, press Validate.

All segments of all the displays and indicators of the control panel should be lit, as illustrated.

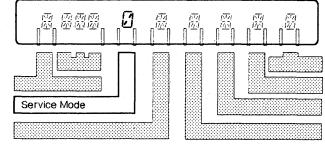
- If all segments are lit, go to next step.
- If at least one segment is not lit, press **Exit** and

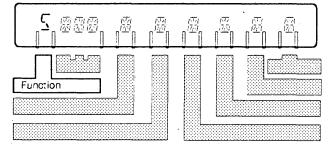
 \square

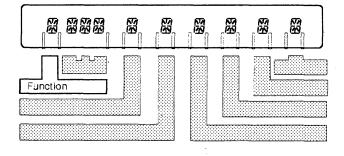
5 Press Function once.

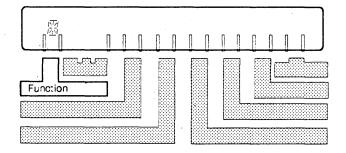
- If all segments of the Function display are lit, go to next step.
- If at least one segment is not

lit, press Exit and \square

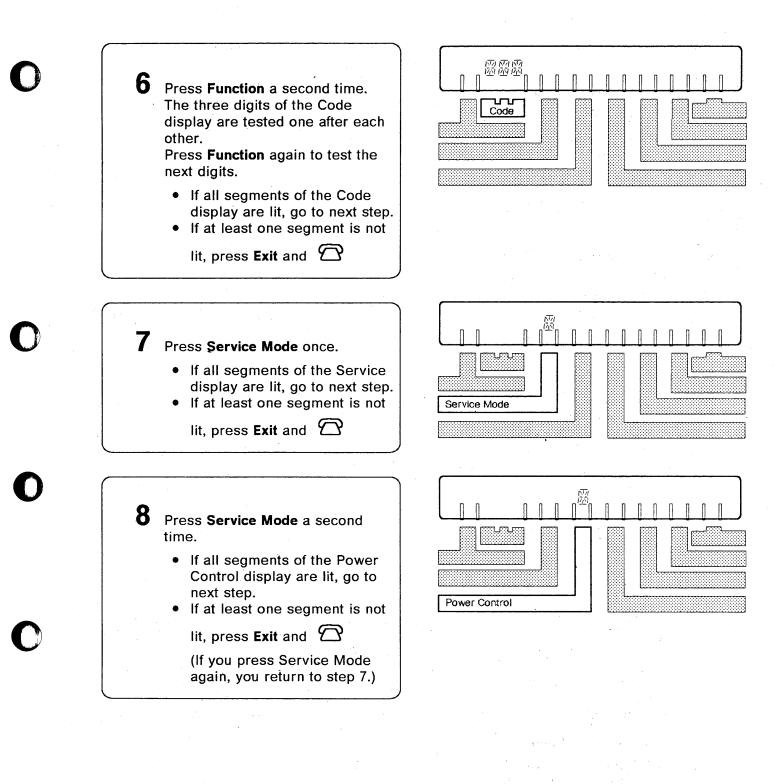




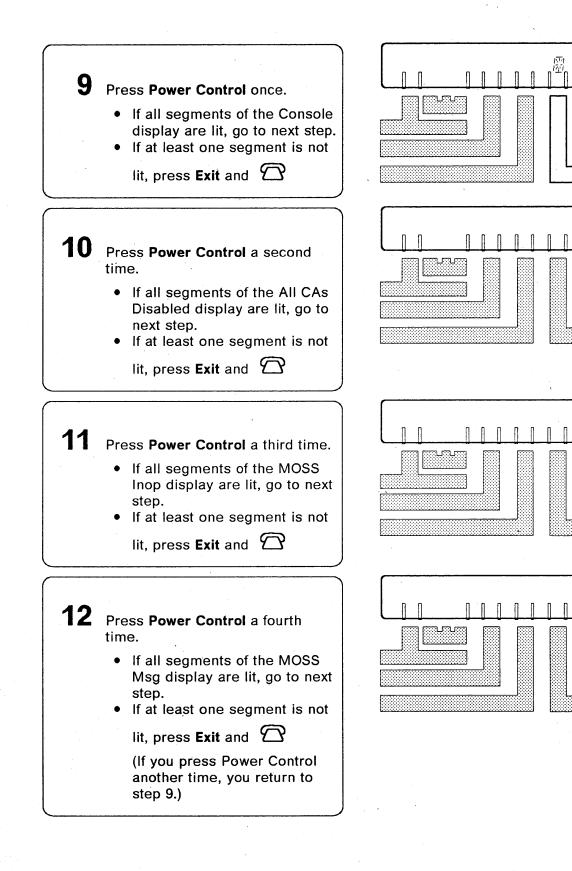




Control Panel Problems



Control Panel Problems



Π

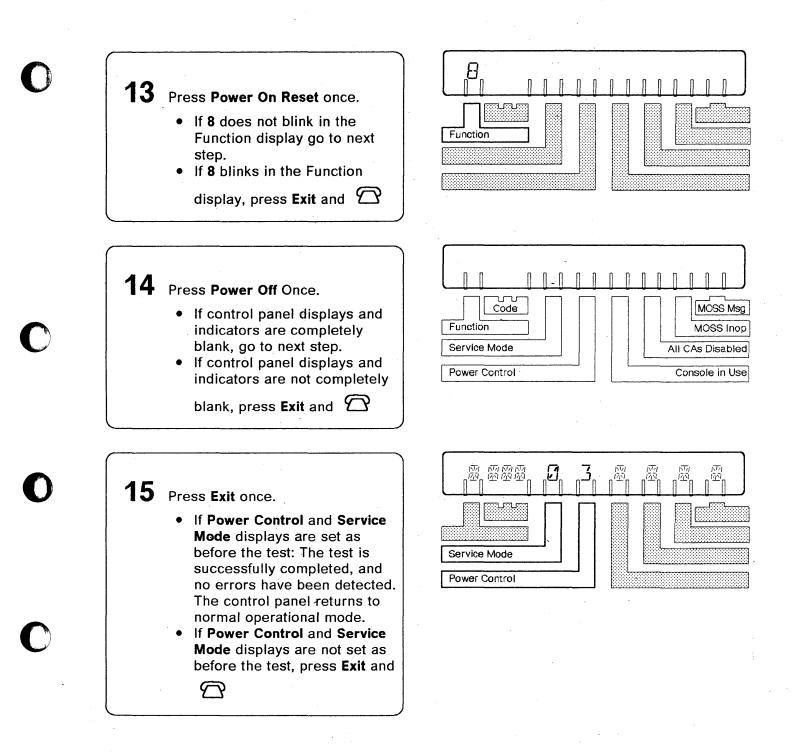
Console in Use

All CAs Disabled

MOSS Inop

 $\overline{\Lambda}$

MOSS Msg



Chapter 16. Wrap Test

A complete description of the wrap test function, including messages, is given in the 3745 Advanced Operations Guide.

Before you initialize a wrap test

- NCP must be loaded and running.
- MOSS must be online (MOSS-ONLINE is displayed in the machine status area). The machine status area (MSA) is described in the 3745 Advanced Operations Guide.
- The CCU control program must be running (PROCESS and RUN are displayed in the machine status area).
- The scanner involved with the wrap test must be loaded. (To IML the scanner, refer to MOSS IMS function in the 3745 Advanced Operations *Guide.*)
- The configuration data file must have been updated after any hardware configuration change, for example, a cable change. Refer to MOSS CDF function in the *3745 Advanced Operations Guide*.
- The line must have been defined at control program generation time.

Ask the host operator to deactivate the line that you want to test.

- Warning

- 1. When an automatic LIC wrap test is performed, all lines of the LIC must be deactivated.
- Considering the load of a scanner, a wrap test cannot be run on one line if the total weight of the other activated lines of this scanner is already 100%. Refer to the 3745 Connection and Integration Guide for the line weight calculation. (For instance, on a low speed scanner, if only one line is activated for a 256 kbps transmission speed, the wrap test will not work on any other line of this scanner.)
- 3. You cannot initialize the wrap test function on a line that is being traced (line trace function) or tested (line test function).
- 4. Before you start a tailgate wrap test, get the wrap plug from the installation coordinator.

For the identification of LICs and wrap plugs, refer to C-1.

1

Power on and log on the operator console. Logon procedures are documented in the 3745 Basic Operations Guide.

2	Press the following keys:	
	WTTSEND	
	To select the wrap test function.	
	The next screen is displayed:	,

FUNCTION ON SCREEN: WRA	NP TEST NITIAL SELECTION
- SELECT ONE OPTION (1,2)	= = >
1 = AUTOMATIC WF	AP TEST ON A LIC
2 = WRAP TEST AT	ANY LEVEL
THEN PRESS SEND = = = >	
F1:END F2:MENU2 F3:ALAR	Μ

3 Only option 2 can be selected to perform the wrap test on HSS lines.

- (Automatic wrap test)
 - 1. Have all the lines of the LIC deactivated from the host.
- 2. Enter the address of the line you want to test.
- 3. Press SEND to start the wrap test.
- 4. After about 30 seconds, the wrap test ends, and one of the following messages is displayed:

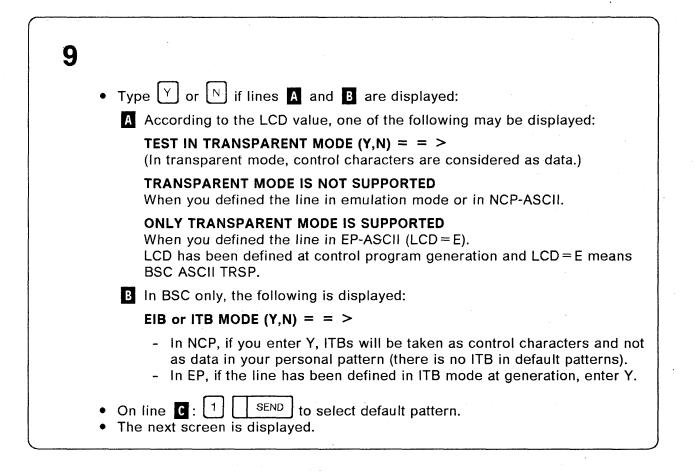
```
WRAP TEST COMPLETED, THE LIC IS FAULTY.
Replace the faulty LIC. You can refer to the 3745 Connection and Integration Guide to locate the LIC.
```

WRAP TEST COMPLETED, THE LIC IS OK.

		mm/dd/yy hh.m	im i
		FUNCTION ON SCREEN: WRAP TEST WRAP TEST INITIALIZATION	
		- ENTER LINE ADDRESS (TSS: 0-895 ΗΡΤSS: 1024-1039) ==> 1	
		- ENTER WRAP TYPE (1 TO 3) ==> 1 1 = DATA 2 = CONTROL LEADS	
• .		- ENTER WRAP LEVEL (1 TO 6) ==> 1 = LOCAL MODEM 4 = TAILGATE 2 = NTT CABLE (TSS ONLY) 5 = REMOTE MODEM (HPTSS/DATA WRAP ONLY 3 = LIC (TSS & DATA WRAP ONLY) 6 = INTERNAL (HPTSS ONLY) LINE(S) TO BE TESTED MUST BE DISABLED/DEACTIVATED ===>	() (()
		F1:END F2:MENU2 F3:ALARM F4:INITIAL SELECTION	
			·····
<u></u>	next step.		
		· · · · · · · · · · · · · · · · · · ·	
_			
5			
J	Enter the li	ne address.	
J		ne address.	
	Enter the li	ne address.	
J		ne address. ▶	
J		ne address.	
	Press		
6	Press	ect DATA or ² to select CONTROL LEADS	
	Press	ect DATA or ² to select CONTROL LEADS	
	Press	Ect DATA or ² to select CONTROL LEADS DNTROL LEADS first. OL LEADS wrap type is not valid for LIC3.	
	Press	ect DATA or ² to select CONTROL LEADS	x modems.
	Press	Ect DATA or ² to select CONTROL LEADS DNTROL LEADS first. OL LEADS wrap type is not valid for LIC3.	x modems.
	Press	Ect DATA or ² to select CONTROL LEADS DNTROL LEADS first. OL LEADS wrap type is not valid for LIC3.	x modems.
	Press	Ect DATA or ² to select CONTROL LEADS DNTROL LEADS first. OL LEADS wrap type is not valid for LIC3.	x modems.
	Press	Ect DATA or ² to select CONTROL LEADS DNTROL LEADS first. OL LEADS wrap type is not valid for LIC3.	x modems.
	Press	Ect DATA or ² to select CONTROL LEADS ONTROL LEADS first. OL LEADS wrap type is not valid for LIC3. Introl leads default pattern applies only to IBM 386:	x modems.
6	Press	Ect DATA or ² to select CONTROL LEADS ONTROL LEADS first. OL LEADS wrap type is not valid for LIC3. Introl leads default pattern applies only to IBM 386:	•
6	Press	Ect DATA or ² to select CONTROL LEADS ONTROL LEADS first. OL LEADS wrap type is not valid for LIC3. Introl leads default pattern applies only to IBM 386:	•
6	Press	Ect DATA or ² to select CONTROL LEADS ONTROL LEADS first. OL LEADS wrap type is not valid for LIC3. Introl leads default pattern applies only to IBM 386:	•
6	Press	Ect DATA or ² to select CONTROL LEADS ONTROL LEADS first. OL LEADS wrap type is not valid for LIC3. Introl leads default pattern applies only to IBM 386:	•
6	Press	Ect DATA or ² to select CONTROL LEADS ONTROL LEADS first. OL LEADS wrap type is not valid for LIC3. Introl leads default pattern applies only to IBM 386:	•
6	Press	Ect DATA or ² to select CONTROL LEADS ONTROL LEADS first. OL LEADS wrap type is not valid for LIC3. Introl leads default pattern applies only to IBM 386:	•

Wrap Test

FUNCTION ON SCREEN: WRAP TE WRAP PATTERN SELE	
LINE ADDRESS: 2 TYPE: DA LCD C: BSC EBCDIC CNTRL PGM	
- TEST IN TRANSPARENT MODE (Y,N - EIB OR ITB MODE (Y,N)) ==> A ==> B
- SELECT ONE OPTION (1 TO 3) 1 = USE DEFAULT PATTERN 2 = DISPLAY DEFAULT PATTERN 3 = CREATE PERSONAL PATTERN THEN PRESS SEND	
===>	
F1:END F2:MENU2 F3:ALARM	F5:CANCEL



Wrap Test

FUNCTION ON SCRE WRAP	EN: WRAP TEST		
LINE ADDRESS: 0 LCD 9 : SDLC	TYPE: CNTRL CNTRL PGM: NCP	LEVEL: MODEM LIC TYPE: 3	
- ENTER NUMBER OF P = PERMANEN	F WRAPS (1-255) OR P T WRAP	==>	
	IATE TEST ON THE MC TO START THE WRAP	DDEM D	,
='==>			
F1:END F2:MENU2	F3:ALARM F5:CAN		

10 Press the following keys:

1 O to perform 10 wraps.

Field **D** indicates what to do according to the wrap level selected on the screen of the page 16-3.

Modem level:

- Take appropriate actions on the modem to put it in loop back.
- SEND to start the test.
- Go to step 11.

Tailgate level:

- 1. FIRST, remove the corresponding LIC cable at the wall socket.
- 2. Remove the corresponding LIC cable from the tailgate.
- 3. Plug the wrap plug into the tailgate.

Refer to Appendix C of this book for identification of LICs and wrap plugs.

To locate the LIC on the machine, refer to the 3745 Connection and Integration Guide.

4. SEND to start the test.

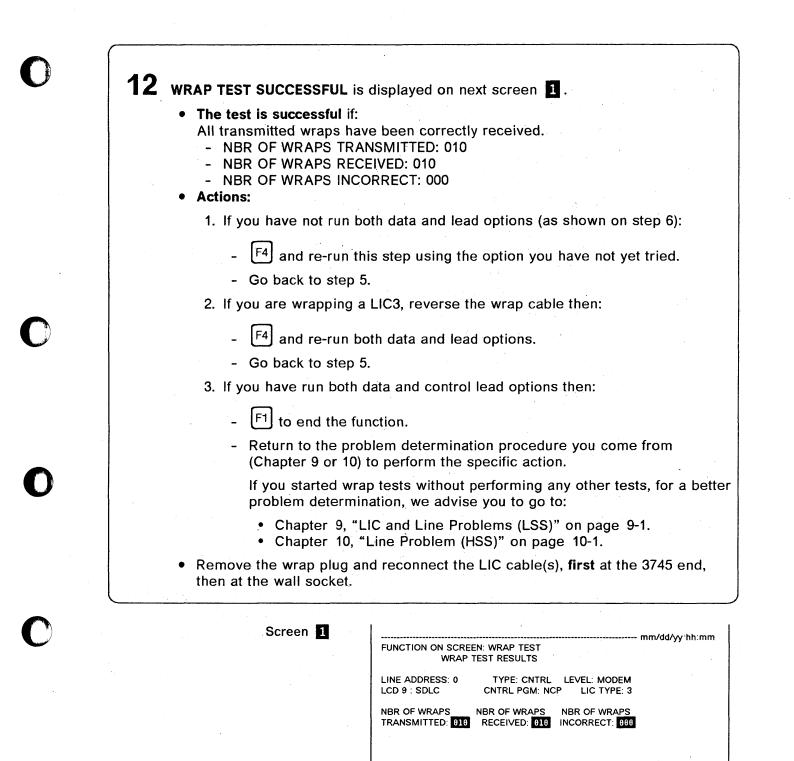
5. Go to step 11.

Note: In order to test the **LIC3** card, it is necessary to reverse the LIC3 wrap cable after the first test pass, then run the test again.

While the wrap test is in progress, the next screen is displayed.
Wait until the test is complete then go to steps 12, 13, and 14 for results analysis.
Do not press
Note: Refer to your console documentation to identify the BREAK key. For instance, the BREAK key may be:

A combination of SEL.FUNCT and PAUSE (on 316x consoles).
The ATTN key.

FUNCTION ON SCRE WRAP T	EST IN PROGRESS
LINE ADDRESS: 0	TYPE: CNTRL LEVEL: MODEM CNTRL PGM: NCP LIC TYPE: 3
PRESS BREAK IF Y	OU WANT TO STOP WRAP



= = = > WRAP TEST SUCCESSFUL

F1:END F2:MENU2 F3:ALARM F4:TEST INITIALIZATION

13 WRAP TEST UNSUCCESSFUL, ERRONEOUS PATTERN RECEIVED is displayed on next screens 2 and 3 .	
• The test is not successful if:	
- All transmitted wraps have been incorrectly received (screen 2).	· .
NBR OF WRAPS TRANSMITTED: 010	
NBR OF WRAPS RECEIVED: 010	
NBR OF WRAPS INCORRECT: 010	
 Not all transmitted wraps have been received and the received ones are incorrect (screen 3). 	
NBR OF WRAPS TRANSMITTED: 010	
NBR OF WRAPS RECEIVED: 008	
NBR OF WRAPS INCORRECT: 005	
 The following message is displayed: PRESS SEND TO DISPLAY FIRST INCORRECT PATTERN (Field X on the screen). 	
Actions:	
- F1 to end the function.	
 Return to the problem determination procedure you come from (Chapter 9 or 10) to perform the specific action. 	
If you started wrap tests without performing any other tests, for a better problem determination, we advise you to go to:	
 Chapter 9, "LIC and Line Problems (LSS)" on page 9-1. Chapter 10, "Line Problem (HSS)" on page 10-1. 	
- This problem may be due to an overload of the scanner. Refer to the 3745 Connection and Integration Guide for the line weight calculation.	
 Remove the wrap plug and reconnect the LIC cable(s), first at the 3745 end, then at the wall socket. 	

Wrap Test

Screen 2

FUNCTION ON SCRE	EN: WRAP TEST
WRAP	TEST RESULTS
LINE ADDRESS: 0	TYPE: CNTRL LEVEL: MODEM
LCD 9 : SDLC	CNTRL PGM: NCP LIC TYPE: 3
NBR OF WRAPS	NBR OF WRAPS
TRANSMITTED: 010	RECEIVED: 010 INCORRECT: 010
- PRESS SEND TO D	SPLAY FIRST INCORRECT PATTERN
= = = > WRAP TES	UNSUCCESSFUL, ERRONEOUS PATTERN RECEIVED
F1:END F2:MENU2 F	3:ALARM F4:TEST INITIALIZATION

Screen 3

FUNCTION ON SCREI	EN: WRAP TEST TEST RESULTS
LINE ADDRESS: 0 LCD 9 : SDLC	TYPE: CNTRL LEVEL: MODEM CNTRL PGM: NCP LIC TYPE: 3
NBR OF WRAPS TRANSMITTED: 010	NBR OF WRAPS RECEIVED 000 INCORRECT 005
- PRESS SEND TO DI	SPLAY FIRST INCORRECT PATTERN
= = = > WRAP TEST	UNSUCCESSFUL, ERRONEOUS PATTERN RECEIVED
F1:END F2:MENU2 F	3:ALARM F4:TEST INITIALIZATION

WRAP TEST UNSUCCESSFUL, SOME DATA NOT RECEIVED is displayed on next screen 4.	
The test is not successful if:	
- NBR OF WRAPS TRANSMITTED: 010	
- NBR OF WRAPS RECEIVED: 008	
- NBR OF WRAPS INCORRECT: 000	
 Only the message 'WRAP TEST UNSUCCESSFUL, SOME DATA NOT RECEIVED' is displayed. 	
Actions:	
Note: The wrap plug or the wrap cable may not be plugged on the LIC.	
- F1 to end the function.	
 Return to the problem determination procedure you come from (Chapter 9 or 10) to perform the specific action. 	
If you started wrap tests without performing any other tests, for a better problem determination, we advise you to go to:	
 Chapter 9, "LIC and Line Problems (LSS)" on page 9-1. Chapter 10, "Line Problem (HSS)" on page 10-1. 	
• Remove the wrap plug and reconnect the LIC cable(s), first at the 3745 end,	,

LINE ADDRESS: 0	TYPE: CNTRL LEVEL: MODEM .
LCD 9 : SDLC	CNTRL PGM: NCP LIC TYPE: 3
NBR OF WRAPS	NBR OF WRAPS NBR OF WRAPS
RANSMITTED: 810	RECEIVED: 008 INCORRECT: 000

= = = > WRAP TEST UNSUCCESSFUL, SOME DATA NOT RECEIVED

F1:END F2:MENU2 F3:ALARM F4:TEST INITIALIZATION

Chapter 17. Console Link Test

Performing the Test

Perform a console link test to check the cable from the 3745 to one of the following:

- · Local console
- Alternate console
- · Local modem (at the 3745 end) for a remote console
- Local modem (at the 3745 end) for an RSF connection.

The console link test can be run without stopping your applications. Only one console can be active at a time.

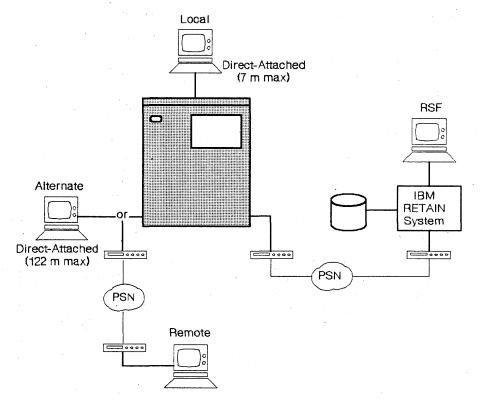


Figure 17-1. IBM 3745 with its Four Different Types of Consoles

Before you start a console link test:

Get the female wrap plug (PN 6398697) from the installation coordinator, (see Figure C-6 on page C-3).

If a console is in operation (look at Console In Use on the control panel), ask the operator to log off.

1 means remote or alternate console. 2 means RSF console.

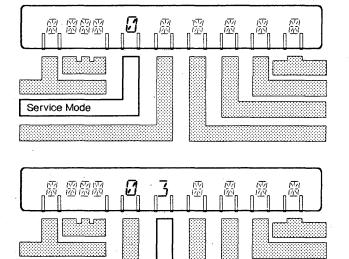
3 means local console.



If 0 is already displayed, go to next step.

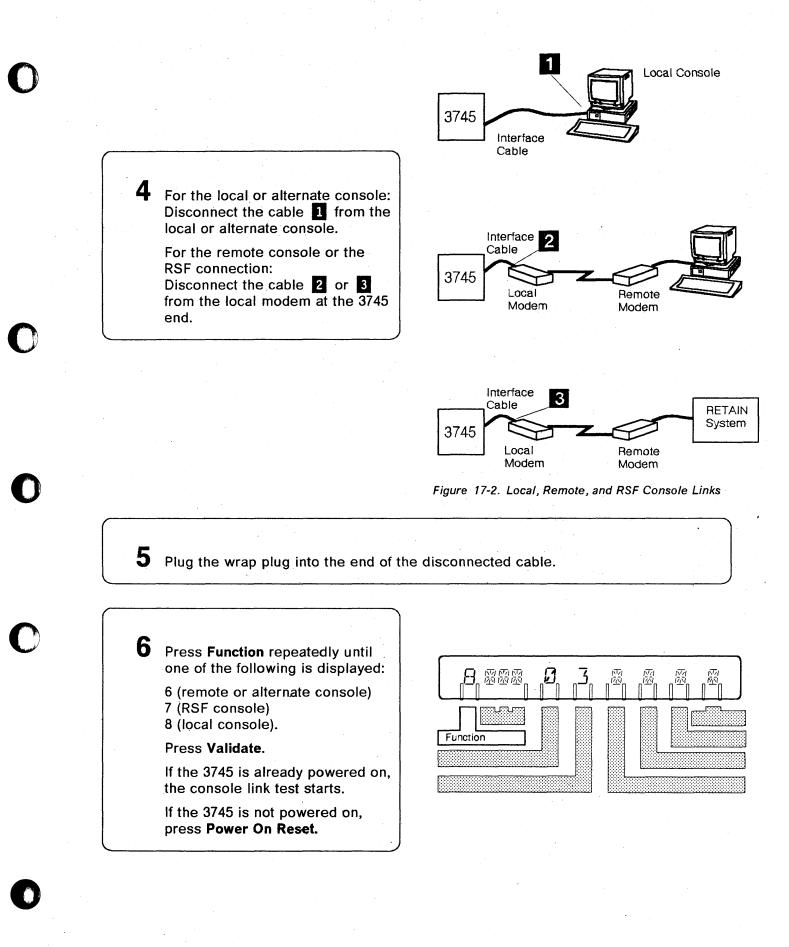
3 Note the digit value on the Power Control display.

If 3 is already displayed, go to next step. Otherwise press **Power Control** repeatedly until 3 is displayed; then press **Validate**.



Power Control

Console Link Test



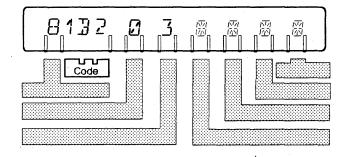
Console Link Test

7

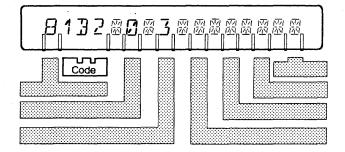
Read the progression of the console link test on the hex display. Wait until one of the following codes is displayed.

If it is:

- 1. **1B2, 1B4, or 1B6**. Go to page 17-5.
- 2. **1A1, 1A4, or 1A7:** Go to page 17-6.
- 3. **1A0, 1A3, or 1A6:** Go to page 17-8.
- 4. **1A2, 1A5, or 1A8:** There is a problem in the 3745.
 - Y_Y
 Unplug the wrap plug from the end of the
 - disconnected cable.Reconnect the console
 - cable to the console.
 - IML MOSS from the control panel.
- Any other codes: Go to Chapter 3, "Hexadecimal Codes on the Control Panel."



Hex Display Codes are 1B2, 1B4, or 1B6



There is no problem on the console link. Wait approximately 2 minutes to ensure that there is no transient problem.

1B2 = no problem on local console link
1B4 = no problem on remote or alternate console link
1B6 = no problem on RSF console link.

Follow the procedure below to set the operator console and the 3745 as they were before the test.

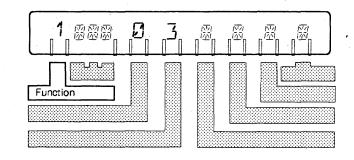
Unplug the wrap plug from the cable. Ignore the hex codes that may be displayed when unplugging the wrap plug.

2 Reconnect the console cable to the console.

3 IML the MOSS from the control panel:

- Press Function repeatedly until 1 is displayed, then
- Press Validate.

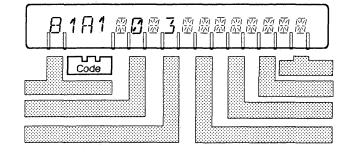
A complete description of the MOSS IML is given in the 3745 *Basic Operations Guide*.



Set the Power Control display as it was before step 3 on page 17-2, then press Validate.

Hex Display Codes are 1A1, 1A4, or 1A7

There is a problem on the console link being tested. Follow the procedure below.



1 Unplug the wrap plug from the cable.

2 Locate the console cable sockets on the 3745.

3 Disconnect the cable from the socket.

4 Plug the wrap plug into the appropriate socket. Go to next step.

0

5 Do one of the following:

• If **1A1**, **1A4**, or **1A7** remains on the hex display, there is a problem on the wrap plug or on the socket at the tailgate for:

1A1 = The local console

1A4 = The alternate or remote console

1A7 = The RSF console.

• If **1B2**, **1B4**, **or 1B6** is displayed on the hex display, there is a problem on the console cable or on the console cable connector at the console end, for:

1B2 = The local console

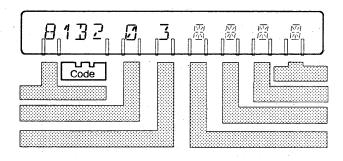
1B4 = The alternate or remote console

1B6 = The RSF console.

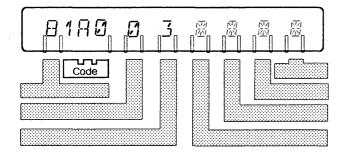
If you suspect the cable and you have a spare one, use it.

Otherwise:

- Order a console cable.
- Unplug the wrap plug from the console socket.
- Reconnect the console cable to the console.
- IML MOSS from the control panel.



Hex Display Codes are 1A0, 1A3, or 1A6



1A0 = Problem on local console cable or cable connector.

1A3 = Problem on remote or alternate console cable or cable connector.

1A6 = Problem on RSF console cable or cable connector.

Perform appropriate actions to correct the problem, which is one of the following:

- Console cable missing
- Console cable incorrectly plugged
- Wrong console cable

4

5

• Console cable connector damaged.

2 When the situation is corrected, the procedure continues automatically. If **1A0**, **1A3**, **or 1A6** remains on the hex display, go to step 3.

Otherwise, go to step 7 on page 17-4.

3 Unplug the wrap plug from the cable.

Locate the console cable sockets on the 3745.

Disconnect the cable from the socket.

6 Plug the wrap plug into the appropriate socket. The procedure continues automatically. Go to next step.

7 Do one of the following:

• If **1A0**, **1A3**, **or 1A6** remains, or **1A1**, **1A4**, **or 1A7** is displayed, there is a problem on the wrap plug or in the

3745:

1A0 or 1A1 = The local console

1A3 or 1A4 = The alternate or remote console

1A6 or 1A7 = The RSF console.

• If **1B2**, **1B4**, **or 1B6** is displayed on the hex display, there is a problem on the console cable or on the console cable connector at the console end, for:

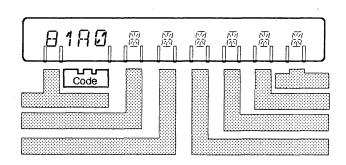
1B2 = The local console

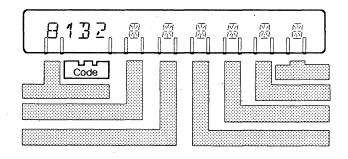
1B4 = The alternate or remote console

1B6 = The RSF console.

If you suspect the cable and you have a spare one, use it. Otherwise:

- Order a console cable.
- IML MOSS from the control panel.

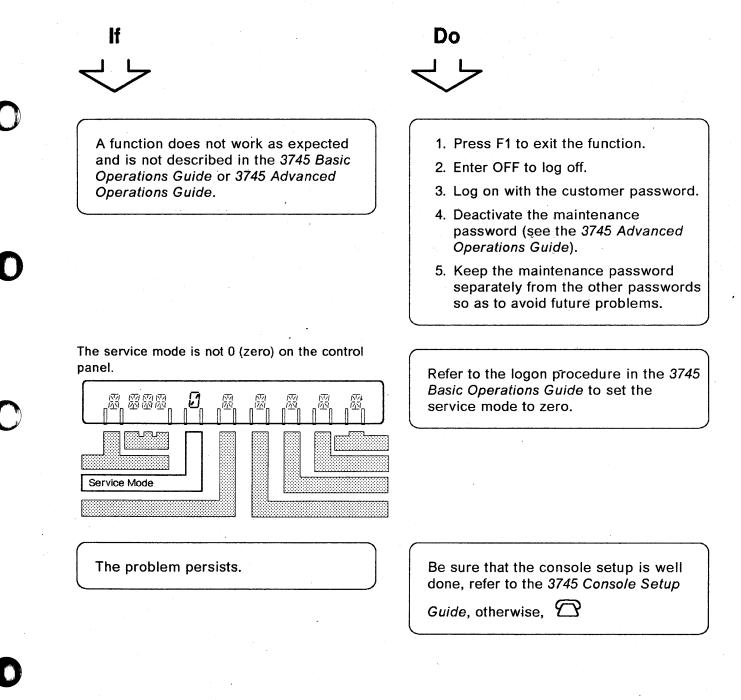




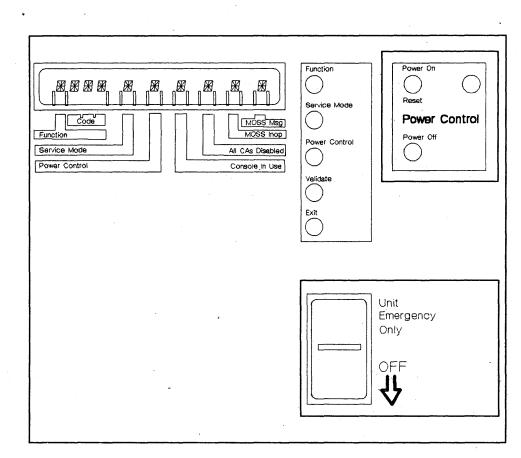
Chapter 18. Unexpected Problems with Console Functions

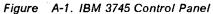
Problems can occur if a controller is unintentionally in maintenance mode. Functions that are intended only for the service representative are not described in this guide.

Note: The console may not indicate that maintenance mode is in effect. Misuse of this mode can cause unpredictable or disruptive results. If service mode on the control panel was set since the last MOSS IML, the log-on with the customer password will be blocked. It is the user's responsibility to maintain all passwords consistent with site standards and good business practice.

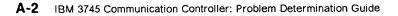


18-2 IBM 3745 Communication Controller: Problem Determination Guide





Appendix A. Control Panel



Appendix B. Control Panel Reference Card

The following control panel reference card (PN 65X8930) is attached to the diskette housing of the 3745 front panel and can be slid out for reading.

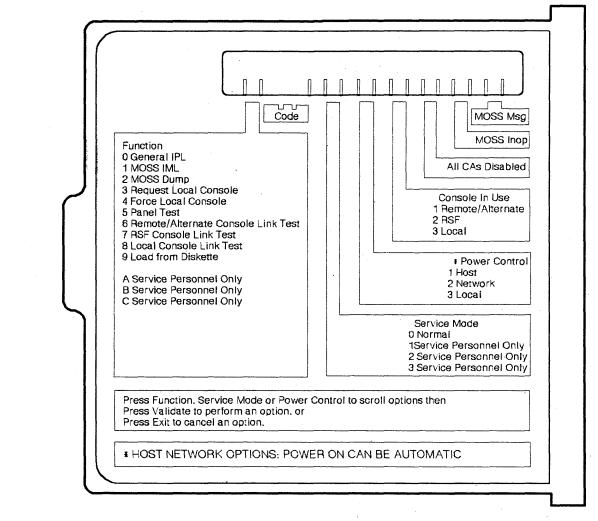
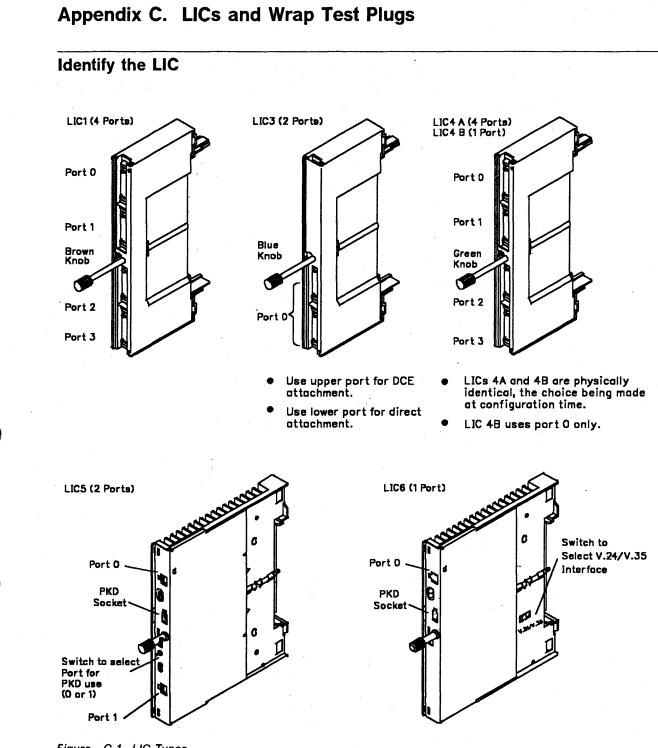
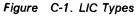


Figure B-1. IBM 3745 Control Panel Reference Card







Identify the Wrap Plug

— Wrap Plug Part Numbers -

In addition to wrap plug pictures, part numbers are also provided to help wrap plug identification. An engineering change may be applied to a wrap plug and the part number may be changed. If you are in doubt, please contact your service representative.

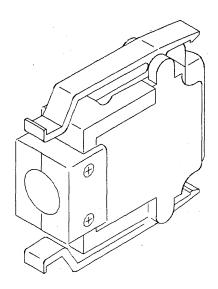


Figure C-2. LIC Type 1 and 4 Wrap Plug (P/N 65X8927)

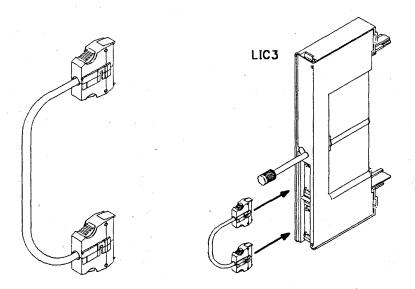


Figure C-3. LIC Type 3 Wrap Cable (P/N 65X8928)

Note: In order to test a **LIC3** card, it is necessary to reverse the LIC3 wrap cable after the first test pass, then run the test again.

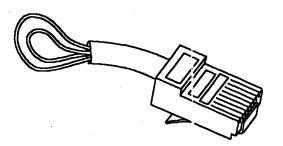
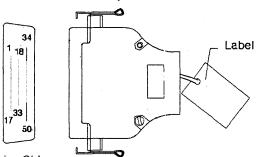


Figure C-4. LIC Type 5 and 6 Tail Gate Wrap Plug (P/N 11F4815)

Note: In addition to the tail gate wrap plug, a wrap block is also shipped with the machine. This wrap block may be plugged at the end of the cable (at the customer wall frame side) to test the line up to the customer wall frame.

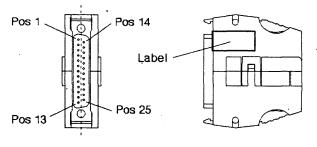
The part number of this wrap block is obviously country-dependent.



Wiring Side

Figure C-5. HSS Lines Wrap Test Plug

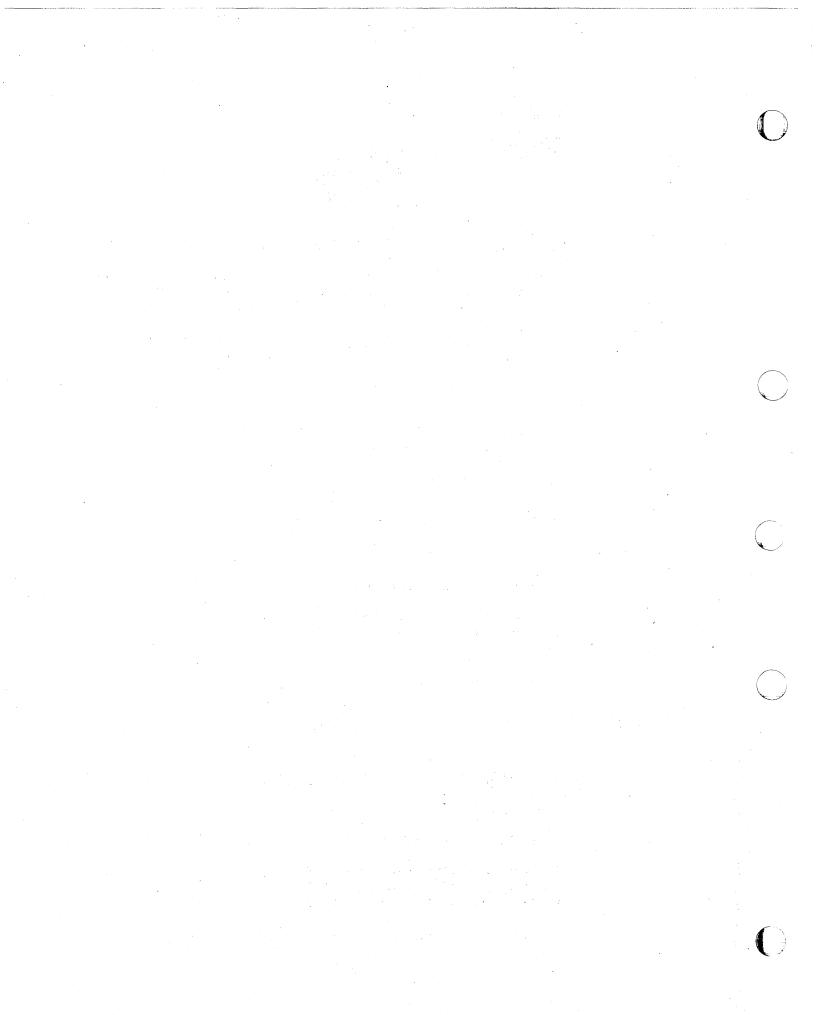
HSS wrap plug for V.35 lines, P/N 58X9349 HSS wrap plug for X.21 lines, P/N 58X9354



Mating Side

Figure C-6. Console Wrap Plug

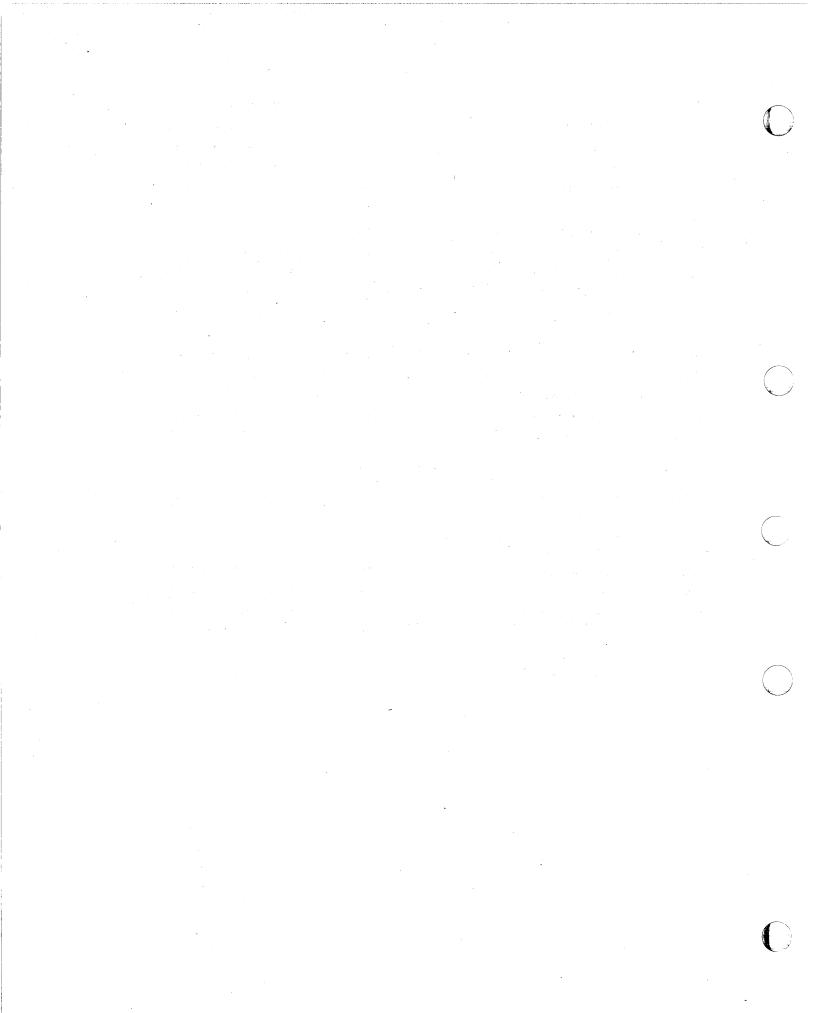
Wrap plug for the 31xx console, P/N 6398697 Wrap plug for the 3727 console, P/N 2667737 Wrap plug for the PC/PS2* consoles, P/N 26F0320



List of	Abbreviations		
			1
abend	abnormal end of task	CSS	control subsystem
AC	alternating current	стѕ	clear to send (signal)
ACF	Advanced Communications Function	CW	control word
ACU	automatic calling unit	DASD	direct access storage device
AFD	airflow detector	DB	data byte
AGC	automatic gain control	DC	direct current
AMD	air moving device	DCE	data circuit-terminating equipment
ASCII	American National Standard Code for Information Interchange	DDS DLO	digital data service
AUI	access unit interface	DEO	data line occupied (signal)
BCD	binary-coded decimal		direct memory access
BER	box event record	DP	digit present (signal)
bps	bits per second	DSR	data set ready (signal)
BR	bus request	DSRS	data signaling rate selection (signa
BSC	binary synchronous communication	DTE	data terminal equipment
C	control (signal)	DTR	data terminal ready (signal)
CA	channel adapter	DX	duplex
CAB	channel adapter board	EBCDIC	extended binary-coded decimal interchange code
CATPS	channel adapter with two processor	EAC	Ethernet** adapter card
~~	switch	EC	engineering change
CB	circuit breaker	EIA	electronic industries association
	Comite Consultatif International Telegraphique et Telephonique	EIB	error information block
	The International Telegraph and	ELA	Ethernet LAN adapter (feature)
	Telephone Consultative Committee	ELD	event log display
CCU	central control unit	ΕΟΤ	end of transmission
CD	carrier detector (signal)	EP	emulation program
CDF	configuration data file	ESC	emulation subchannel
CDS	configuration data set	ESS	Ethernet-type LAN subsystem
CI	calling indicator (signal)	ETB	end-of-transmission block characte
CLDP	controller load/dump program	ETG	Ethernet tail gate
CNM	communication network management	ETX	end-of-text character
CNSL	console	EXP	expected
CP ·	control program	FCPS	final call progress signals (X.21)
CPS	call progress signal	FE	field engineering
CPU	central processing unit	ft	foot
CR	call request (signal)	HCS	hardware central service
CRQ	call request	HDX	half-duplex
CS	communication scanner	HPTSS	high-performance transmission
CSMA/CD	carrier sense multiple access/colision		subsystem
	detect	HSS	high-speed scanner
CSP	communication scanner processor	нพ	hardware

1	indication (signal)	min	minute	
IAR	instruction address register	MLT	machine load table	
ID	identifier	mm	millimeter	Ľ
IEEE	Institute of Electrical and Electronics	MOSS	maintenance and operator subsystem	
	Engineers	MOF	MOSS Offline function	
IML	initial microcode load	ms	millisecond	
IMPL	initial microprogram load (Replaced by IML)	MSA	machine status area	
in.	inch	mV	millivolt	
INOP	inoperative (line, modem, or terminal)	NCP	Advanced Communication Function for	
10	input/output		the Network Control Program	
1/0	input/output	NMVT	network management vector transport	
IOC	input/output control	NO-OP	no-operation instruction	
IOCS	input/output control system	NPDA	Network Problem Determination Application, NetView Hardware Monitor	or
IPL	initial program load		Facility	(
IR	interrupt request	ns	nanosecond	
ІТВ	intermediate text block	NSC	native subchannel	
КВ	kilobyte; 1024 bytes	NTRI	network token-ring interconnection	
KBD	keyboard	NTT	Nippon Telegraph and Telephone	
kbps	kilobits per second	oc	overcurrent	
LA	line adapter	OEM	original equipment manufacturer	
LCB	line control block (storage)	OLT	online test	
LCD	line control definer (storage)	OLTEP	online test executive program	
LDM	limited distance modem	OS	operating system	
LIB1	LIC board type 1 (for LIC1, LIC3, or	ον	overvoltage	
	LIC4)	PC	personal computer	
LIB2	LIC board type 2 (for LIC5 or LIC6)	PEP	partitioned emulation programming	
LIC	line interface coupler card	PN	part number	
LIC1	LIC type 1	POR	power-on reset	_
LIC3	LIC type 3	PKD	portable keypad display	
LIC4	LIC type 4	PS	power supply	Ľ
LIC5	LIC type 5	PTT	Post Telephone and Telegraph Administration	
LIC6	LIC type 6	PU	physical unit	
LID	line interface display	PWI	power indication	
	link level 2 test	R	receive	
	LIC line analysis procedure	RCV	receive	
LPDA* LSS	Link Problem Determination Aid	RD .	receive data (signal)	
	low speed scanner	RFS	ready for sending (signal)	
m mA	meter	RI	ring indicator (signal same as CI)	
MAU	milliampere media access unit	RLA	remote loading/activation	
MB		rpm	revolutions per minute	
MCF	megabyte; 1 048 576 bytes microcode fix	RPO	remote power-off	
		RSF	remote support facility	N 2
MES	miscellaneous equipment specification			

RTC	retry count	т	transmit (signal)
RTM	retry timer	TD	transmitted data (signal)
RTS	request to send (signal)	TI	test indicator (signal)
RU	request/response unit	TID	TRSS interface display
RVI	reverse interrupt	TIC	token-ring interface coupler
S	second	TOD	time of day
SCF	secondary control field	TPS	two-processor switch
SCP	signal converter product	TRA	token-ring adapter
SCR	serial clock receive (signal)	TRID	token-ring interconnection
SCT	seriał clock transmit (signal)	TRM	token-ring multiplexer card
SCTL	storage control card	TRSS	token-ring subsystem
SD	send data (signal)	TSS	transmission subsystem
SDF	serial data field	UEPO	unit emergency power-off
SDLC	Synchronous Data Link Control	VB	valid byte (signal)
SE da de la	system engineer	VH	valid halfword (signal)
SES	secondary status	VTAM	(Advanced Communication Function for
SET	signal element timing (signal)		the) Virtual Telecommunications Access Method
SG	signal ground	V.24	CCITT Recommendation V.24
SIT	scanner internal trace	V.25	CCITT Recommendation V.25
SNA	Systems Network Architecture	V.28	CCITT Recommendation V.28
SS	start-stop	V.35	CCITT Recommendation V.35
SSP	(Advanced Communication Function for the) System Support Program	WB	wrapback (signal)
STX	start of text (BSC)	XI	X.25 SNA Interconnection
SYN	synchronous idle (BSC)	X.21	CCITT Recommendation X.21
SYSGEN	system generation	X.25	CCITT Recommendation X.25
		802.3	IEEE recommendation



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Glossary

This glossary defines all new terms used in this manual. It also includes terms and definitions from the *IBM Dictionary of Computing*, SC20-1699.

addressing. A technique where the control station selects, among the DTEs that share a transmission line, the DTE to which it is going to send a message.

alarm. A message sent to the MOSS console. In case of an error a reference code identifies the nature of the error.

alert. A message sent to the host console. In case of an error a reference code identifies the nature of the error.

asynchronous transmission. Transmission in which each character is individually synchronized, usually by the use of start and stop elements. The start-stop link protocol, for example, uses asynchronous transmission. Contrast with synchronous transmission.

auto-answer. A machine feature that allows a DCE to respond automatically to a call that it receives over a switched line.

auto-call. A machine feature that allows a DCE to initiate a call automatically over a switched line.

autoBER. A program to automatically analyse a BER file.

binary synchronous communication (BSC). A uniform procedure, using standardized set of control characters and character sequences, for synchronous transmission of binary-coded data between stations.

box event record (BER). Information about an event detected by the controller. It is recorded on the disk/diskette and can be displayed on the operator console for event analysis.

block multiplexer channel. A multiplexer channel that interleaves blocks of data. See also byte multiplexer channel. Contrast with *selector channel*.

byte multiplexer channel. A multiplexer channel that interleaves bytes of data. See also block multiplexer channel. Contrast with selector channel.

central control unit (CCU). In the 3745, the controller hardware unit that contains the circuits and data flow paths needed to execute instructions and to control its storage and the attached adapters.

channel adapter (CA). A communication controller hardware unit used to attach the controller to a host processor.

channel interface. The interface between the controller and the host processors.

communication common carrier. In the USA and Canada, a public data transmission service that provides the general public with transmission service facilities. For example, a telephone or telegraph company (see also *post telephone and telegraph* for countries outside the USA and Canada).

communication controller. A communication control unit that is controlled by one or more programs stored and executed in the unit. Examples are the IBM 3705, IBM 3725/3726, IBM 3720, and IBM 3745.

communication network management (CNM) application program. An ACF/VTAM application program authorized to issue formatted management services request units containing physical-unit-related requests and to receive formatted management services request units containing information from physical units.

communication scanner. See scanner.

communication scanner processor (CSP). The processor of a scanner.

communication subsystem. The part of the controller that controls the data transfers over the transmission interface.

configuration data file (CDF). A MOSS file that contains a description of all the hardware features (presence, type, address, and characteristics).

control panel. A panel that contains switches and indicators for the use of the customer's operator and service personnel.

control program. A computer program designed to schedule and to supervise the execution of programs of the controller.

control subsystem (CSS). The part of the controller that stores and executes the control program, and monitors the data transfers over the channel and transmission interfaces.

data circuit-terminating equipment (DCE). The equipment installed at the user's premises that provides all the functions required to establish, maintain, and terminate a connection, and the signal conversion and coding between the data terminal equipment (DTE) and the line. For example, a modem is a DCE (see modem.)

Note: The DCE may be separate equipment or an integral part of other equipment.

data terminal equipment (DTE). That part of a data station that serves as a data source, data link, or both, and provides for the data communication control function according to protocols.

direct attachment. The attachment of a DTE to another DTE without a DCE.

diskette. A thin, flexible magnetic disk, and its protective jacket, that records diagnostics, microcode, and 3745 files.

diskette drive. A mechanism that reads and writes diskettes.

DOS/VS. Disk Operating System/Virtual Storage.

duplex transmission. Data transmission in both directions at the same time. Contrast with *half duplex*.

Emulation Program (EP). An IBM licensed program that allows a channel-attached communication controller to emulate the functions of an IBM 2701 Data Adapter Unit, an IBM 2702 Transmission Control, or an IBM 2703 Transmission Control.

Ethernet LAN adapter (ELA). Line adapter for Ethernet-type network, composed of one communication scanner processor card (CSP), and one Ethernet adapter card (EAC).

Ethernet-type subsystem (ESS). The part of the controller that controls the data transfers over an Ethernet V2 or IEEE 802.3 local area network.

front-end scanner (FES). A circuit that scans the transmission lines, serializes and deserializes the transmitted characters, and manages the line services. It is part of the scanner.

half-duplex transmission. Data transmission in either direction, one direction at a time. Contrast with *duplex*.

high-performance transmission subsystem (HPTSS). The part of the controller that controls the data transfers over the high-speed transmission interface (speed up to 2 million bps).

The HPTSS consists of up to eight high-speed scanners (HSSs).

high-speed scanner. Line adapter for lines up to 2 million bps, composed of a communication scanner processor (CSP) and a front-end high-speed scanner (FESH).

host processor. (1) A processor that controls all or part of a user application network. (2) In a network, the processing unit in which the access method for the network resides. (3) In an SNA network, the processing unit that contains a system services control point (SSCP). (4) A processing unit that executes the access method for attached communication controllers. Also called *host*

IBM service representative. An individual in IBM who performs maintenance services for IBM products or systems.

initial microcode load (IML). The process of loading the microcode into a scanner or into MOSS.

initial program load (IPL). The initialization procedure that causes 3745 control program to commence operation.

LIB. A line interface base which houses:

• One multiplexer

Up to eight LICs.

line. See transmission line.

line adapter (LA). The part of the TSS, HPTSS, or TRSS that scans and controls the transmission lines. Also called *scanner*.

For the TSS the line adapters are low-speed scanners (LSSs).

For the HPTSS the line adapters are high-speed scanners (HSSs).

For the TRSS the line adapters are token-ring adapters (TRAs).

line interface coupler (LIC). A circuit that attaches up to four transmission cables to the controller.

Link Problem Determination Aid (LPDA*). A set of test facilities resident in the IBM 386X/586X modems and activated from the control program in the controller and from host.

low-speed scanner. Line adapter for lines up to 256 kbps, composed of a communication scanner processor (CSP) and a front-end low-speed scanner (FESL).

maintenance and operator subsystem (MOSS). The part of the controller that provides operating and servicing facilities to the customer's operator and the IBM service representative.

microcode. A program, that is loaded in a processor (for example, the MOSS processor) to replace a hardware function. The microcode is not accessible to the customer.

modem (modulator-demodulator). A functional unit that transforms logical signals from a DTE into analog signals suitable for transmission over telecommunication lines (modulation), and conversely (demodulation). A modem is a DCE. It may be integrated in the DTE.

NetView. An IBM licensed program used to monitor a network, manage it, and diagnose its problems.

network. See user application network.

Network Control Program (NCP). An IBM licensed program that provides communication controller support for single-domain, multiple-domain, and interconnected network capability.

nonswitched line. A connection between systems or devices that does not have to be made by dialing. The connection can be point-to-point or multipoint. The line can be leased or private. Contrast with switched line.

operator console. The IBM Operator Console that is used to operate and service the 3745 through the MOSS. A local console must be located within 7 m of the 3745. Optionally an alternate console may be installed up to 120 m from the 3745, or a remote console may be connected to the 3745 through the switched network.

partitioned emulation programming (PEP) extension. A function of a network control program that enables a communication controller to operate some telecommunication lines in network control mode while simultaneously operating others in emulation mode.

Post Telephone and Telegraph (PTT). A generic term for the government-operated common carriers in countries other than the USA and Canada.

start-stop. A data transmission system in which each character is preceded by a start signal and is followed by a stop signal.

switched line. A transmission line with which the connections are established by dialing, only when data transmission is needed. The connection is point-to-point and uses a different transmission line each time it is established. Contrast with nonswitched line.

Synchronous Data Link Control (SDLC). A discipline for managing synchronous, code-transparent, serial-by-bit information transfer over a link connection. Transmission exchanges may be duplex or half-duplex over switched or nonswitched links. The configuration of the link connection may be point-to-point, multipoint, or loop. SLDC conforms to subsets of the Advanced Data Communication Control Procedures of the American National Standards Institute and High-level Data Link Control (HDLC) of the International Standards Organization.

synchronous transmission. Data transmission in which the sending and receiving instruments are operating continuously at substantially the same frequency and are maintained, by means of correction, in a desired phase relationship. Contrast with asynchronous transmission.

systems network architecture (SNA). The description of the logical structure, formats, protocols, and operational sequences for transmitting information through a user application network. The structure of SNA allows the users to be independent of specific telecommunication facilities.

time out. The time interval allotted for certain operations to occur.

token-ring subsystem (TRSS). The part of the controller that controls the data transfers over an IBM Token-Ring Network.

The TRSS consists of up to four token-ring adapters (TRAs).

token-ring adapter (TRA). Line adapter for IBM Token-Ring Network, composed of one token-ring multiplexor card (TRM), and two token-ring interface couplers (TICs).

The TRSS consists of up to four token-ring adapters (TRAs).

transmission interface. The interface between the controller and the user application network.

transmission line. The physical means for connecting two or more DTEs (via DCEs). It can be nonswitched or switched. Also called a *line*.

transmission subsystem (TSS). The part of the controller that controls the data transfers over lowand medium-speed, switched and non switched transmission interfaces.

The TSS consists of:

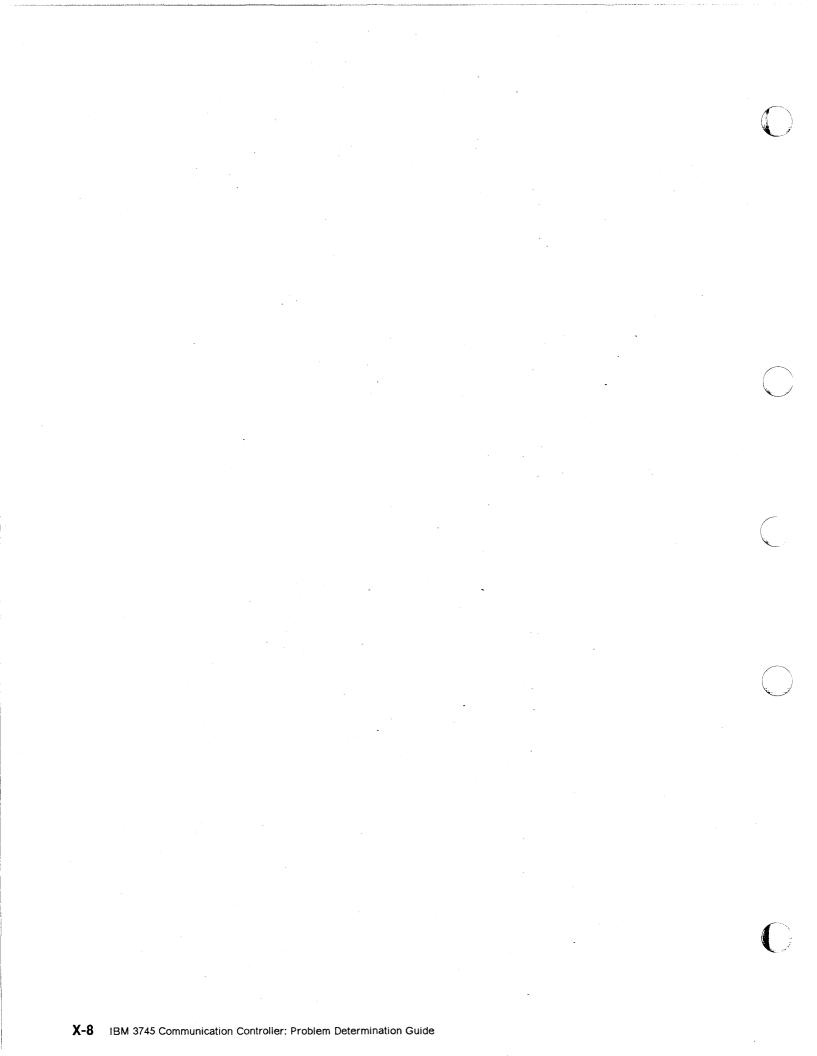
- · Low-speed scanners (LSSs) associated with
- LIBs
- · Serial links (SLs).

two-processor switch (TPS). A feature of the channel adapter that connects a second channel to the same adapter.

user application network. A configuration of data processing products, such as processors, controllers, and terminals, for the purpose of data processing and information exchange. This configuration may use circuit-switched, packet-switched, and leased-circuit services provided by carriers or PTT. Also called a *user network*.

V.24, V.25, V.25 bis, V.35. EIA/CCITT recommendations on transmission interfaces

X.20 bis, 21, 21 bis, 21 native, 25. CCITT recommendations on transmission interfaces



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Readers' Comments

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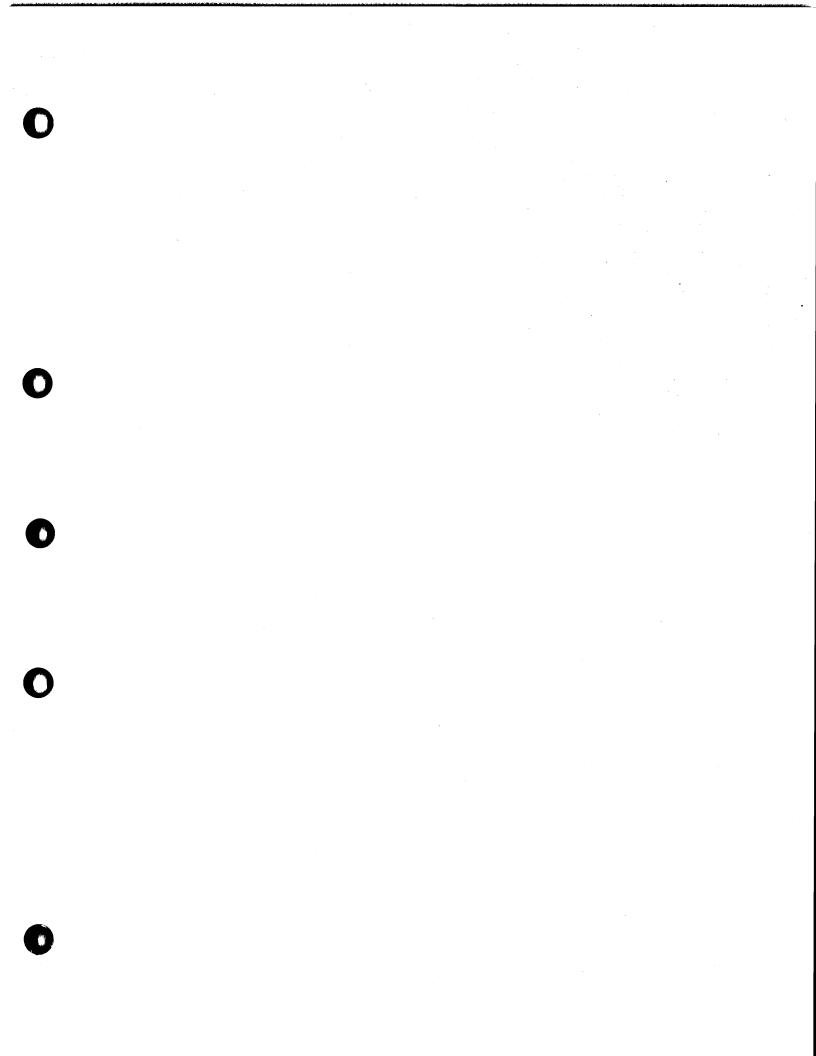
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