

3745 Communication Controller
All Models



Guide to Timed IPL and Rename Load Module

3745 Communication Controller
All Models



Guide to Timed IPL and Rename Load Module

Note!

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

First Edition (March 1992)

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

Order publications through your IBM representative or to the IBM branch office serving your locality. Publications are not stocked at the address given below.

A form for readers' comments appears at the back of this publication. If the form has been removed, address your comments to:

IBM France
Centre d'Etudes et Recherches
Service 0797 BP 79
06610 La Gaude
France

When you send information to IBM, you grant IBM a non-exclusive right to use or distribute the information in any way it believes appropriate without incurring any obligation to you.

© **Copyright International Business Machines Corporation 1992. All rights reserved.**

Note to U.S. Government Users — Documentation related to restricted rights — Use, duplication or disclosure is subject to restrictions set forth in GSA ADP Schedule Contract with IBM Corp.

Contents

Notices	v
Electronic Emission Notice	v
Trademarks and Service Marks	vi
Safety	vii
General Safety	vii
About This Book	ix
Who Should Use This Book	ix
How This Book is Organized	ix
Conventions Used in This Book	x
Where to Find More Information	x

Introduction

Chapter 1. Introduction	1-1
Timed IPL	1-1
Rename Load Module	1-1
Version/Release Level Requirements	1-2
VTAM 'Modify Load' Command	1-3

Timed IPL

Chapter 2. Timed IPL	2-1
Timed IPL Description	2-1
Timed IPL Procedures	2-2
Setting a Timed IPL	2-5
Cancelling a Timed IPL	2-8
Adding a Load Module with Timed IPL	2-9
Replacing a Load Module with Timed IPL	2-10
Purging a Load Module with Timed IPL	2-11
Displaying Scheduled IPL Information	2-12
On the VTAM Console	2-12
On the MOSS Console	2-13
Timed IPL Alarms and Alert	2-15

Rename Load Module

Chapter 3. Rename Load Module	3-1
Rename Load Module Description	3-1
Rename Load Module Procedure - Overview	3-2
Rename Load Module Procedure - Detail	3-5
Step 1 - Initial Status	3-5
Step 2 - Generating a New Load Module (NCP1) on Test Library	3-6
Step 3 - Renaming NCP1 to NCP2 in VTAMLST and NCPLOAD Test Libraries	3-7
Step 4 - Copying NCP2 from VTAMLST and NCPLOAD Test Libraries to Production Libraries	3-8

Step 5 - Adding NCP2 to the 3745 Hard Disk	3-9
Step 6 - Renaming NCP1 to NCP3 on the Disk	3-10
Step 7 - Renaming NCP1 to NCP3 in VTAMLST and NCPLOAD Production Libraries	3-12
Step 8 - Renaming NCP2 to NCP1 in VTAMLST and NCPLOAD Production Libraries	3-14
Step 9 - Renaming NCP2 to NCP1 on the Disk	3-16
Step 10 - De-activating NCP1 (Old) and Activate NCP1 (New) in the CCU	3-18
Recovery from the MOSS Console	3-20
Disk IPL Information (DII)	3-20
MOSS DII Function - Rename Load Module Management	3-22
MOSS DII Function - CCU Selection	3-23
MOSS DII Function - Load Module Selection	3-24
MOSS DII Function - New Name Entry	3-25
Bibliography	X-1
3745 Task and User Publications (Models 130, 150, and 170)	X-1
Customer Documentation	X-1
3745 Task and User Publications (Models 210, 310, 410, and 610)	X-3
Customer Documentation	X-3
Network Program Products Publications	X-5
List of Abbreviations	X-7
Glossary	X-9
Index	X-11

Notices

References in this publication to IBM products, programs or services do not imply that IBM intends to make these available in all countries in which IBM operates. Any reference to an IBM product, program, or service is not intended to state or imply that only IBM's product, program, or service may be used. Any functionally equivalent product, program, or service that does not infringe any of IBM's intellectual property rights may be used instead of the IBM product, program, or service. Evaluation and verification of operation in conjunction with other products, except those expressly designated by IBM, is the user's responsibility.

IBM may have patents or pending patent applications covering subject matter in this document. The furnishing of this document does not give you any license to these patents. You can send license inquiries, in writing, to the IBM Director of Commercial Relations, IBM Corporation, Purchase, NY 10577, U.S.A.

Electronic Emission Notice

Federal Communications Commission (FCC) Statement

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

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.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Trademarks and Service Marks

The following terms, DENOTED BY AN ASTERISK (*), used in this publication, are trademarks of the IBM Corporation in the United States or other countries:

IBM
MVS/ESA
NCP

NetView
VM

VSE
VTAM

Safety

General Safety

This product meets IBM safety standards.

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

About This Book

This book applies to:

- The following Operating Systems:
 - MVS/ESA*
 - VM*
 - VSE*
- The MOSS DII function used on all models of IBM* 3745 Communication Controllers
- The MODIFY LOAD command used on VTAM* V3R4 and V3R4.1.

It describes:

- How the Timed IPL and Rename Load Module functions should be used.
- How to recover if a problem occurs while performing these functions.

Who Should Use This Book

This book is intended for:

- Experienced 3745 operators
- Teleprocessing specialists supporting the 3745 from the host and using the following IBM* licensed programs:
 - MVS/ESA
 - VM
 - VSE
 - NCP*
 - VTAM

How This Book is Organized

This book is organized as follows:


- About This Book
- Chapter 1
 - A brief description of timed IPL and rename load module functions.
- Chapter 2
 - Timed IPL procedures (VTAM commands from the host)
 - Timed IPL information display (on VTAM and MOSS consoles)
- Chapter 3
 - Rename load module procedures (VTAM commands from the host)
 - Rename load module procedure (overview)
 - Rename load module procedure (detail)
 - Rename load module (recovery procedures from the MOSS)
- The back matter includes:
 - Bibliography
 - List of Abbreviations
 - Glossary
 - Index.

Conventions Used in This Book

- A drawing of a key means you must press that key.
A solid box (■) indicates that a screen is displayed on the terminal.

For example, when you see:



1. Enter C, D, F; then press SEND.
 2. A screen is displayed. On that screen, enter 9; then press SEND.
 3. Another screen is displayed. On that screen, enter 0; then press SEND.
- Text shown below a screen describes the most significant actions that you can perform, including any special F key options.
 - MOSS functions are applicable to all 3745 models, unless the function description in this book is qualified by the model numbers.
 -  means contact the appropriate service representative.

Where to Find More Information

This book can be used in conjunction with the publications mentioned in “Bibliography” on page X-1.

Introduction

Chapter 1. Introduction	1-1
Timed IPL	1-1
Rename Load Module	1-1
Version/Release Level Requirements	1-2
VTAM 'Modify Load' Command	1-3

Introduction

Chapter 1. Introduction

All figures and examples of VTAM commands used throughout the manual are based on an MVS/ESA operating system. However the principles and procedures are the same for all other operating systems.

Timed IPL

The Timed IPL function improves the system management, particularly when restarting large network configurations. It reduces considerably the duration of the load module change operations.

It enables all 3745s to automatically reload at a scheduled time without any 3745 operator action.

The Timed IPL is scheduled using an improved VTAM 'Modify Load' command. Timed IPL, is called '**Scheduled Automatic Reload**' in VTAM publications.

Refer to Chapter 2, "Timed IPL" on page 2-1 for details about this function.

Rename Load Module

This function provides the capability for changing the external name of the Communication Controller Load Module on the MOSS disk.

It allows the user to keep load module changes transparent to the operations staff.

Renaming the Load Module is executed by the improved VTAM 'Modify Load' command.

Refer to Chapter 3, "Rename Load Module" on page 3-1 for details about this function.

Version/Release Level Requirements

<i>Table 1-1. IBM licensed Programs, Version/Release Level Requirements</i>	
Product and IBM Licensed Programs	Required VTAM and NetView* Version/Release Levels
MVS/ESA V3R1.3	VTAM V3R4.1 and NetView V2R2
VM/ESA V1R1.1	VTAM V3R4.1 and NetView V2R2
VSE/ESA V1R2.1	VTAM V3R4.1 and NetView V2R2
NCP	No specific requirement
VTAM	V3R4.1 for VM/ESA, VSE/ESA, and MVS/ESA
NetView	V2R2
3745 Models 130, 150, and 170	EC A98105
3745 Models 210, 310, 410, and 610	EC A98320

VTAM 'Modify Load' Command

The MODIFY LOAD command, which is used to control the load module content on a communication controller hard disk, has been enhanced to support the two new functions:

Timed IPL Timed IPL, is also called '**Scheduled Automatic Reload**' in VTAM publications.

ACTION=SETTIME, IPLTIME=(mm/dd/yy, hh:mm), IPLTIME=CANCEL and NOTIFY=xxxx have been added to support this function.

Rename load module NEWNAME=newncpname and ACTION=RENAME have been added to support this function.

The following list contains the keywords/operands for the MODIFY LOAD command. In this list, changes to support timed IPL and rename load module are specified.

MODIFY LOAD	Is the command.
ID=	No change
ACTION=ADD	IPLTIME= and NOTIFY= are added to support timed IPL
ACTION=REPLACE	IPLTIME= and NOTIFY= are added to support timed IPL
ACTION=PURGE	No change
ACTION=CANCEL	No change
ACTION=SETTIME	IPLTIME= and NOTIFY= are added to support timed IPL
ACTION=RENAME	NEWNAME is added to support rename load module
IPLTIME=(mm/dd/yy, hh:mm)	Is added to support timed IPL The format of the date is determined (at VTAM initialization time) by the value specified on the DATEFORM option of the VTAM 'startup list' (ATCSTRxx). Refer to <i>VTAM Installation and Resource Definition</i> (SC23-0111) for details.
IPLTIME=CANCEL	Is added to support timed IPL
LOADMOD=	No change
NEWNAME=	Is added to support rename load module
NOTIFY=	Is added to support timed IPL Refer to <i>VTAM Operation</i> (SC31-6435) for further details on this command.

Introduction

Timed IPL

Chapter 2. Timed IPL	2-1
Timed IPL Description	2-1
Timed IPL Procedures	2-2
Setting a Timed IPL	2-2
Cancelling a Timed IPL	2-3
Adding a Load Module with Timed IPL Set	2-3
Replacing a Load Module with Timed IPL Set	2-3
Purging a Load Module with Timed IPL Set	2-4
Setting a Timed IPL	2-5
Cancelling a Timed IPL	2-8
Adding a Load Module with Timed IPL	2-9
Replacing a Load Module with Timed IPL	2-10
Purging a Load Module with Timed IPL	2-11
Displaying Scheduled IPL Information	2-12
On the VTAM Console	2-12
On the MOSS Console	2-13
MOSS DII Function - Display IPL Information	2-13
MOSS DII Function - Display of Timed IPL Information	2-14
Timed IPL Alarms and Alert	2-15
3745 Alert Reference Code D9	2-16

Chapter 2. Timed IPL

Timed IPL Description

The Timed IPL function improves the system management, particularly when restarting large network configurations.

It reduces considerably the duration of the load module change operations. This process is much faster than sequentially loading each controller, and it improves network availability.

It enables all 3745s to automatically reload a specified load module at a scheduled time without any operator action.

You schedule the Timed IPL by using the VTAM 'Modify Load' command.

By using the 'Modify load' command, you can schedule the reloading of all controllers and then, at the prescribed time, all of the controllers will automatically reload without any operator action. After the automatic reload the network can be reactivated. This automatic IPL from disk can be set to occur up to ninety days later. However, if you specify a time interval greater than 15 days, a minor clock deviation may occur between VTAM and 3745 MOSS clocks.

The timed IPL function can apply to local or remote 3745 communication controllers. **The MOSS of the 3745 communication controllers must be online.**

The local time of the VTAM which issues the 'Modify Load' command is used as the reference time. See table on page 2-5.

The following facilities have been added to support this function:

- Two alarms on MOSS console (D8 and D9) and one alert on NetView console (D9) inform the operator that:
 - A scheduled IPL is cancelled (only alarm D8).
 - A scheduled IPL will occur soon (alarm D9 and alert D9).

To obtain the full benefit of NetView alerts, NPDA (Network Problem Determination Application) 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.

- The disk IPL information related to scheduled IPLs is displayed:
 - On the **VTAM console**, which displays the time in **local VTAM time** (D NET, DISK command).
 - On the 3745 **MOSS console**, which displays the time in **local MOSS time** (DII function).

Refer to "Displaying Scheduled IPL Information" on page 2-12.

Timed IPL Procedures

- The VTAM 'MODIFY LOAD' command (sent from VTAM to the 3745 controller) is used to perform the timed IPL function.

Refer to "Network Program Products Publications" on page X-5 to find the appropriate *VTAM Operation* publication related to your operating system.

- VTAM checks the validity of the information.

The timed IPL information can be displayed on the VTAM console.

Refer to "Displaying Scheduled IPL Information" on page 2-12.

- MOSS checks whether it is possible to execute this command correctly.

On the MOSS console, the MOSS DII function displays the timed IPL information.

Refer to "Displaying Scheduled IPL Information" on page 2-12.

In both cases, a message is displayed on the VTAM console for acknowledgement or rejection of the command.

- Two **alarms** and one **alert** are displayed on the 3745 MOSS or NetView consoles when a timed IPL is cancelled or scheduled to occur soon.

Alarm D8 - CCU-x LM=xxxxxxx: TIMED IPL CANCELLED
D9 - CCU-x TIMED IPL TO OCCUR IN hh:mm CHECK VALIDITY
are displayed on the MOSS console.

Alert D9 - TIMED IPL TO OCCUR SOON
is displayed on the NetView console.

The moment at which this alert is displayed depends on the setting of the 'NOTIFY' parameter in the VTAM 'MODIFY LOAD' command.

Alerts can be displayed using NetView's Hardware Monitor.

Note: The NetView Automation Table **must** be updated to recognize the Timed IPL Alert and generate an appropriate message.

Refer to "Timed IPL Alarms and Alert" on page 2-15 for details.

- Even if the IBM 3745 is powered down, the scheduled IPL times are maintained. This is no longer true if the control panel battery is down, in such a case all scheduled IPLs are cancelled and the MOSS console displays the alarm D8.
- For 3745 models 410 and 610, if a timed IPL occurs on CCU-A while CCU-B is performing an IPL (or vice-versa), CCU-A waits for up to 5 minutes until IPL on CCU-B is complete. If after 5 minutes, CCU-B is not yet loaded, the scheduled timed IPL on CCU-A is cancelled.

Setting a Timed IPL

Refer to page: 2-5.

ACTION=SETTIME Is used with **IPLTIME=(mm/dd/yy, hh:mm)** to set a timed IPL on an active or inactive load module.

Cancelling a Timed IPL

Refer to page: 2-8.

ACTION=SETTIME Is used with **IPLTIME=CANCEL** to cancel a timed IPL on a load module in the MOSS hard disk.

Adding a Load Module with Timed IPL Set

Refer to page: 2-9.

ACTION=ADD Is used with **IPLTIME=(mm/dd/yy,hh:mm)** to add a load module in the MOSS hard disk with the timed IPL set.

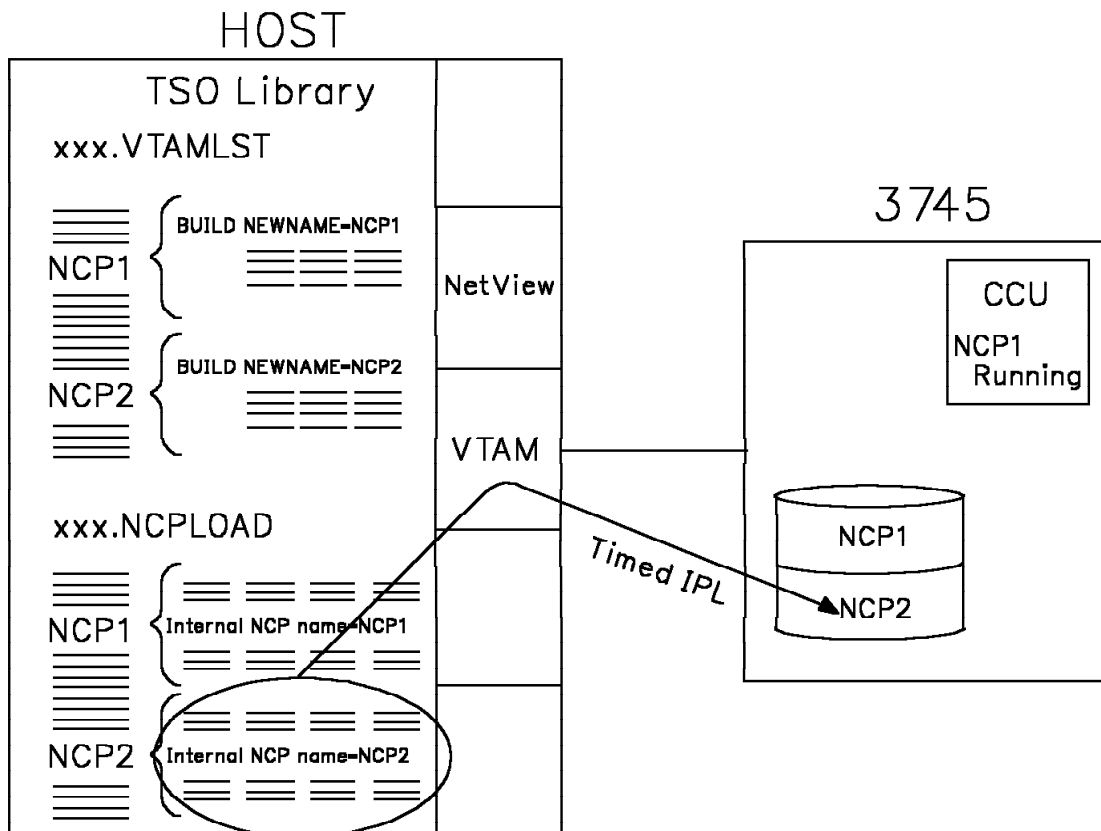


Figure 2-1. VTAM 'MODIFY LOAD' Command - Add NCP2 with Timed IPL Set

Replacing a Load Module with Timed IPL Set

Refer to page: 2-10.

ACTION=REPLACE Is used with **IPLTIME=(mm/dd/yy,hh:mm)** to replace a load module with or without timed IPL set by a load module with timed IPL set.

Purging a Load Module with Timed IPL Set

Refer to page: 2-11.

ACTION=PURGE Is used to purge a load module with or without timed IPL set.

Setting a Timed IPL

Use the VTAM 'MODIFY LOAD' command to request, at a scheduled time, an automatic IPL of a load module from the 3745 hard disk.

The MOSS of the 3745 communication controller must be online.

Setting a timed IPL on a load module automatically sets the MOSS AUTO DUMP/LOAD to 'yes' at IPL time.

Each load module stored on the 3745 hard disk can have one IPLTIME scheduled for it.

Two load modules for the same CCU cannot have estimated IPLTIMEs within five minutes of each other.

Table 2-1. Time Specification Examples

Time Zone of VTAM Operator	Time Zone of 3745 to be IPLed	Time Difference between VTAM Zone and 3745 Zone	Time Specified on IPLTIME (VTAM SETTIME Command)	Time of Scheduled IPL 3745 DATE/TIME (DII Display)	Time of Requested IPL (VTAM D NET, DISK Command)
Paris	Berlin	0 hour	14:00	14:00	14:00
Paris	London	- 1 hour	14:00	13:00	14:00
Paris	Tokyo	+ 10 hours	14:00	24:00	14:00
Paris	New York	- 5 hours	14:00	09:00	14:00
New York	Los Angeles	- 3 hours	14:00	11:00	14:00

Note: Consult your local time zone table before specifying the IPLTIME value.

The VTAM time is used as reference time. Before displaying the scheduled IPL time on the MOSS console, the 3745 concerned converts the reference time to the local MOSS time.

VTAM COMMAND

F procname,LOAD,ID=xxname,
ACTION=SETTIME,IPLTIME=(mm/dd/yy, hh:mm),NOTIFY=mmm,LOADMOD=NCP2
procname: VTAM procedure name
xxname: PU name or NCP name

MANDATORY KEYWORDS

ACTION=SETTIME Specifies that the VTAM 'MODIFY LOAD' command is used to set a timed IPL on the load module specified by LOADMOD.

IPLTIME=(mm/dd/yy, hh:mm)

Specifies the date and time of the scheduled IPL.

The value cannot be more than 90 days ahead of the current date.

When IPLTIME is set too far ahead (more than 15 days), a clock deviation may occur between VTAM and 3745 MOSS clocks.

Two load modules for the same CCU cannot have estimated IPLTIMES within five minutes of each other.

mm/dd/yy Specifies the date of the scheduled IPL.

The format of the date is determined (at initialization time) by the value specified on the DATEFORM option of the VTAM 'startup list' (ATCSTRxx).

The valid possible values are:

- **DATEFORM=mdy (default)**, the format is mm/dd/yy.
- **DATEFORM=dmy**, the format is dd/mm/yy.
- **DATEFORM=yymd**, the format is yy/mm/dd.

If the year is omitted, the current year is taken.

Refer to *VTAM Installation and Resource Definition* (SC23-0111) for details.

hh:mm Specifies the time of the scheduled IPL.

The time is specified in the format of 24 hours/day (for example: 09:00, 15:00, or 23:00) and is independent of the zone where the 3745 IPL occurs.

IPLTIME is expressed in local VTAM time. It is used as reference time.

The table on page 2-5 shows some examples of time specifications.

OPTIONAL KEYWORDS/OPERANDS

LOADMOD=xxxxxxx

Specifies the name of the load module to be automatically loaded in the CCU at the scheduled time.

If LOADMOD is not specified, the default name will be the name specified by the ID parameter.

NOTIFY=xxxxx

Specifies that an alert must be sent prior to the execution of the scheduled IPL.

It can only be used when a time is specified in the IPLTIME keyword.

The possible values of **xxxxx** are:

mmm Specifies that an alert must be sent mmm minutes prior to the execution of the scheduled IPL. The maximum value is 999 minutes. The default time is **60 minutes**.

hh,mm Specifies that an alert must be sent hh,mm minutes prior to the execution of the scheduled IPL. The maximum value is 99 hours and 99 minutes.

NO Specifies that no alert must be sent prior to the execution of the scheduled IPL.

The default value is **60 minutes**.

INVALID KEYWORDS/OPERANDS

NEWNAME=xxxxxxx

This keyword is invalid if it is used with ACTION=SETTIME. Refer to Chapter 3, "Rename Load Module" on page 3-1 to use it.

Cancelling a Timed IPL

Use the VTAM 'MODIFY LOAD' command to cancel a scheduled IPL of a load module on a 3745 hard disk for which a timed IPL was set. The load module (for example, NCP2 in the figure on page 2-3) will not be purged from the hard disk.

The scheduled IPL is cancelled and no alarm is displayed on the MOSS console.

VTAM COMMAND

```
F procname,LOAD,ID=xxname,  
ACTION=SETTIME,IPLTIME=CANCEL,LOADMOD=NCP2
```

procname: VTAM procedure name
xxname: PU name or NCP name

MANDATORY KEYWORDS

ACTION=SETTIME When it is used with IPLTIME=CANCEL, the VTAM 'MODIFY LOAD' command cancels a timed IPL previously set on the load module specified by LOADMOD.

Do not confuse with ACTION=CANCEL which is reserved for cancelling a load module ADD or a load module REPLACE.

IPLTIME=CANCEL Indicates that the scheduled IPL for the load module specified by the keyword LOADMOD must be cancelled.

OPTIONAL KEYWORDS/OPERANDS

LOADMOD=xxxxxxx When used, it specifies the name of the load module for which the scheduled IPL must be cancelled.

When not used, the default name will be the name specified by the ID parameter.

INVALID KEYWORDS/OPERANDS

NOTIFY=xxxxx This keyword is invalid when it is used with IPLTIME=CANCEL.

NEWNAME=xxxxxxx This keyword is invalid if it is used with ACTION=SETTIME. Refer to Chapter 3, "Rename Load Module" on page 3-1 to use it.

Adding a Load Module with Timed IPL

Use the VTAM 'MODIFY LOAD' command to add a load module on a 3745 hard disk with a timed IPL set.

Adding a load module with timed IPL on the hard disk automatically sets the MOSS AUTO DUMP/LOAD to 'yes' at IPL time.

The same load module name must not already exist on the MOSS hard disk (for the CCU concerned).

One of the two reserved NCP partitions on the disk must be free.

VTAM COMMAND

```
F procname,LOAD,ID=xxname,  
ACTION=ADD,IPLTIME=(mm/dd/yy, hh:mm),NOTIFY=mmm,LOADMOD=NCP2
```

procname: VTAM procedure name

xxname: PU name or NCP name

MANDATORY KEYWORDS

ACTION=ADD

Specifies that the VTAM 'MODIFY LOAD' command adds a load module on a 3745 hard disk with a timed IPL set. The load module name is specified by the keyword LOADMOD.

IPLTIME=(mm/dd/yy, hh:mm)

Specifies the date and time of the scheduled IPL for the added load module.

For the format and specifications of the date and time, refer to "Setting a Timed IPL" on page 2-5.

OPTIONAL KEYWORDS/OPERANDS

LOADMOD=xxxxxxx

If LOADMOD is not specified, the default name will be the name specified by the ID parameter.

NOTIFY=xxxxx

Specifies that an alert must be sent prior to the execution of the scheduled IPL.

Refer to page 2-7 for the possible operand values of NOTIFY.

INVALID KEYWORDS/OPERANDS

IPLTIME=CANCEL

The operand CANCEL is invalid when it is used with ACTION=ADD.

NEWNAME=xxxxxxx

This keyword is invalid if it is used with ACTION=ADD. Refer to Chapter 3, "Rename Load Module" on page 3-1 to use it.

Replacing a Load Module with Timed IPL

Use the VTAM 'MODIFY LOAD' command to replace a load module of the same name, already on the 3745 hard disk (with or without a timed IPL set), by another load module (with a timed IPL).

Replacing a load module on the hard disk by another one with timed IPL, automatically sets the MOSS AUTO DUMP/LOAD to 'yes' at IPL time.

If the load module name does not exist on the hard disk and there is only one module on the disk, the command becomes similar to ACTION=ADD and the load module is added.

If a timed IPL has been set for the load module to be replaced, this timed IPL and its associated alarm are cancelled.

VTAM COMMAND

```
F procname,LOAD,ID=xxname,  
ACTION=REPLACE,IPLTIME=(mm/dd/yy, hh:mm),NOTIFY=mmm,LOADMOD=NCP2  
  
procname: VTAM procedure name  
xxname: PU name or NCP name
```

MANDATORY KEYWORDS

ACTION=REPLACE Specifies that the VTAM 'MODIFY LOAD' command is used to replace a load module of the same name, already on the 3745 hard disk.
The load module name is specified by the keyword LOADMOD.

IPLTIME=(mm/dd/yy, hh:mm) Specifies the date and time of the scheduled IPL.
For the format and specifications of the date and time, refer to "Setting a Timed IPL" on page 2-5.

OPTIONAL KEYWORDS/OPERANDS

LOADMOD=xxxxxxx If LOADMOD is not specified, the default name will be the name specified by the ID parameter.

NOTIFY=xxxxx Specifies that an alert must be sent prior to the execution of the scheduled IPL.
Refer to page 2-7 for the possible operand values of NOTIFY.

INVALID KEYWORDS/OPERANDS

IPLTIME=CANCEL This keyword is invalid when it is used with the operand CANCEL.

NEWNAME=xxxxxxx This keyword is invalid if it is used with ACTION=ADD or with ACTION=REPLACE. Refer to Chapter 3, "Rename Load Module" on page 3-1 to use it.

Purging a Load Module with Timed IPL

Use the VTAM 'MODIFY LOAD' command to purge, on the 3745 hard disk, a load module (with or without a timed IPL set). Then the scheduled IPL is cancelled and no alarm is displayed on the MOSS console.

If the load module name does not exist on the hard disk, the command is rejected and no action is taken.

VTAM COMMAND

```
F procname,LOAD,ID=xxname,  
ACTION=PURGE,LOADMOD=NCP2
```

procname: VTAM procedure name
xxname: PU name or NCP name

MANDATORY KEYWORDS

ACTION=PURGE

Specifies that the VTAM 'MODIFY LOAD' command purges a load module from a 3745 hard disk with or without a timed IPL set. The load module name is specified by the keyword LOADMOD.

OPTIONAL KEYWORDS/OPERANDS

LOADMOD=xxxxxxx

If LOADMOD is not specified, the default name will be the name specified by the ID parameter.

INVALID KEYWORDS/OPERANDS

IPLTIME=xxxxxx

This keyword is invalid when it is used with ACTION=PURGE.

NEWNAME=xxxxxxx

This keyword is invalid when it is used with ACTION=PURGE. Refer to Chapter 3, "Rename Load Module" on page 3-1 to use it.

NOTIFY=xxxxx

This keyword is invalid when it is used with ACTION=PURGE.

Displaying Scheduled IPL Information

It is possible to display the assigned timed IPL of each load module of a 3745 hard disk.

On the VTAM Console

Use the VTAM 'DISPLAY DISK' command to display the scheduled IPL information assigned to the load modules of a 3745 hard disk.

The format is one of the following:

D NET,DISK,ID=ncpname

D NET,DISK,ID=puname

```
ISTxxxI xxxxxxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxxxxx xxxxxxxxxxxx
ISTxxxI xxxxxxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxxxxx xxxxxxxxxxxx
ISTxxxI xxxxxxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxxxxx xxxxxxxxxxxx
-----
IST1065I LOAD MODULE   REQUESTED IPL      ESTIMATED IPL
IST1066I   NCP1        12/22/91,17:00    12/22/91,17:00
IST1066I   NCP2                ***NA***          ***NA***
IST965I   AUTO DUMP/LOAD = YES
IST314I   END
```

REQUESTED IPL Specifies the date and time of the scheduled IPL. This time is the local VTAM time which is used as the reference time. It is converted by the 3745 to display (on the MOSS DII screen) the local MOSS time.

The value cannot be more than 90 days ahead of the current date.

ESTIMATED IPL Specifies the date and time of the estimated IPL.

Note: If you specify a time interval greater than fifteen days, minor MOSS clock deviation may occur. The ESTIMATED IPL time may differ slightly from the REQUESTED IPL time.

On the MOSS Console

Use the MOSS DII function to display IPL and timed IPL information.

MOSS DII Function - Display IPL Information

1. Logon to the 3745 MOSS console.
2. From one of the screens:

FUNCTION SELECTION RULES
or
MENU 1.

3. Type:

The next screen: DISPLAY IPL INFORMATION is obtained.

```
----- mm/dd/yy hh:mm
FUNCTION ON SCREEN: DISPLAY IPL INFORMATION

          1 - DISK IPL INFORMATION
          2 - DISKETTE MANAGEMENT
          3 - TIMED IPL INFORMATION
          4 - RENAME LOAD MODULE MANAGEMENT

SELECT AN OPTION THEN PRESS SEND ====>

====>
F1:END  F2:MENU2  F3:ALARM
```

From this screen:

Select the option: 3 - TIMED IPL INFORMATION

If needed, refer to the *3745 Advanced Operations Guide* for further details on the DII function (Display IPL Information).

MOSS DII Function - Display of Timed IPL Information

[D] [I] [I] [SEND] [3] [SEND]

```

----- mm/dd/yy hh:mm
FUNCTION ON SCREEN: DISK IPL INFO

CONFIGURATION: TWIN          OPERATING MODE: BACKUP

CP RUNNING:                CCU-A                CCU-B
XXXXXXXX                   XXXXXXXX                   XXXXXXXX
DISK CONTENTS:            DATE/TIME            DATE/TIME
TIMED IPL :               XXXXXXX (mm/dd/yy hh:mm:ss) XXXXXXX (mm/dd/yy hh:mm:ss)
                        XXXXXXX (mm/dd/yy hh:mm:ss)
ALERT :                   XXXXXXX (mm/dd/yy hh:mm:ss) XXXXXXX (mm/dd/yy hh:mm:ss)
                        XXXXXXX (mm/dd/yy hh:mm:ss)

===>

F1:END F2:MENU2 F3:ALARM          F6:QUIT
  
```

CONFIGURATION SINGLE for 3745 models 130, 150, 170, 210, and 310
TWIN for 3745 models 410 and 610

OPERATING MODE Used in twin configuration (for models 410 and 610), to specify the operating mode of the two CCUs.

DUAL Both CCUs are operational simultaneously, each controlling a part of the network and if one CCU fails, its part of the network is no longer controlled.

STANDBY Only one CCU is operational, the other CCU is in standby mode and becomes operational when the current CCU fails.

BACKUP Both CCUs are operational simultaneously, each controlling a part of the network and also one acts as a backup of the other.

CCU-A CCU-B Only for 3745 models 410 and 610, information is displayed under CCU B.

CP RUNNING Name of load modules running in CCU A and CCU B.

DISK CONTENTS The information in front of TIMED IPL and ALERT is displayed only if a load module is present on the 3745 hard disk with timed IPL set.

TIMED IPL Displays the load module name and its scheduled IPL time. The time is the 3745 MOSS time.

ALERT Displays the load module name and the time that the associated alert must be sent to NetView. The time is the 3745 MOSS time.

===> If no timed IPL is scheduled, the following message is displayed:

NO TIMED IPL ACTIVE ON ALL LOAD MODULES

Timed IPL Alarms and Alert


ALARM D8: CCU-x LM=xxxxxxx: TIMED IPL CANCELLED

hhmmss ref code

Cause:

- 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.**

Action:

- Check if there is also the associated alarm:
A5: ASK SERVICE PERSONNEL TO REPLACE BATTERY
In this case,  to have the MOSS battery replaced.
- Check the status of the MOSS and use the DII function to check the timed IPL information. Refer to “Displaying Scheduled IPL Information” on page 2-12. Use the appropriate VTAM command to restart the operations.

Note: 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.

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

hhmmss ref code

Cause: Network operator

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

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, NPDA (Network Problem Determination Application) 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 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)	

Rename Load Module

Chapter 3. Rename Load Module	3-1
Rename Load Module Description	3-1
Rename Load Module Procedure - Overview	3-2
Rename Load Module Procedure - Detail	3-5
Step 1 - Initial Status	3-5
Step 2 - Generating a New Load Module (NCP1) on Test Library	3-6
Step 3 - Renaming NCP1 to NCP2 in VTAMLST and NCPLOAD Test Libraries	3-7
Step 4 - Copying NCP2 from VTAMLST and NCPLOAD Test Libraries to Production Libraries	3-8
Step 5 - Adding NCP2 to the 3745 Hard Disk	3-9
Step 6 - Renaming NCP1 to NCP3 on the Disk	3-10
Recovery Action after Step 6	3-11
Step 7 - Renaming NCP1 to NCP3 in VTAMLST and NCPLOAD Production Libraries	3-12
Recovery Action after Step 7	3-13
Step 8 - Renaming NCP2 to NCP1 in VTAMLST and NCPLOAD Production Libraries	3-14
Recovery Action after Step 8	3-15
Step 9 - Renaming NCP2 to NCP1 on the Disk	3-16
Recovery Action after Step 9	3-17
Step 10 - De-activating NCP1 (Old) and Activate NCP1 (New) in the CCU	3-18
Recovery Action after Step 10	3-19
Recovery from the MOSS Console	3-20
Disk IPL Information (DII)	3-20
MOSS DII Function - Rename Load Module Management	3-22
MOSS DII Function - CCU Selection	3-23
MOSS DII Function - Load Module Selection	3-24
MOSS DII Function - New Name Entry	3-25

Rename Load Module

Chapter 3. Rename Load Module

Rename Load Module Description

This function is used for changing the external name of the Communication Controller Load Module on the MOSS disk.

It allows the user to keep all load module changes transparent to the operations staff.

Renaming the Load Module is executed:

- **From the host**, by using VTAM commands, to rename a load module on the 3745 hard disk only.

It is mandatory that, at host level, the associated load module names which are members of VTAMLST and NCPLOAD libraries are renamed too.

- **From the MOSS console**, by using the MOSS DII function, to rename the load module on the 3745 MOSS hard disk.

The renaming from the MOSS **must only be done on recovery action**. This means that previously the corresponding load module on the hard disk was already renamed from the host, and MOSS should be 'ALONE'.

- You can rename, on a 3745 hard disk (local or remote), a load module which has one of the following statuses:
 - An active load module with or without timed IPL set.
If the renamed load module was the active load module, then it will remain the active load module even though it has a different name. The automatic dump/load switches will also remain unchanged.
 - An inactive load module with or without timed IPL set.
If the renamed load module was not the active load module, it will remain not active. The automatic dump/load switches will remain unchanged.
- On the following pages, the procedure using VTAM and MOSS rename load module functions, is explained at two levels:
 - **Overview**
This is a guide for someone who is already experienced with the procedure.
“Rename Load Module Procedure - Overview” on page 3-2
 - **Detail**
This is a detailed description for someone who is performing these procedures for the first time.
“Rename Load Module Procedure - Detail” on page 3-5

Rename Load Module

Rename Load Module Procedure - Overview

This overview can be used as guide for someone who is already experienced with the procedure.

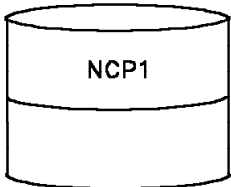
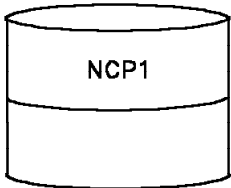
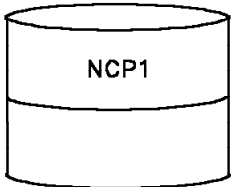
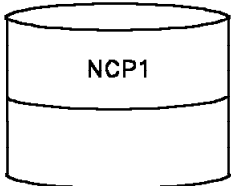
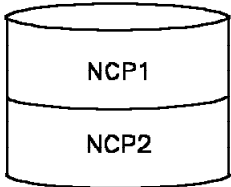
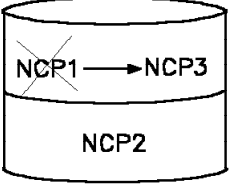
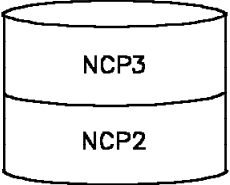
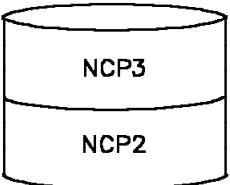
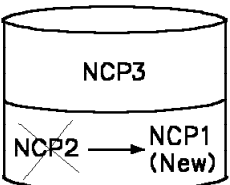
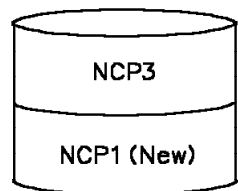
Steps		VTAM Functions to perform	
1	<p>Initial status on PRODUCTION library.</p> <p><i>Host</i> In VTAMLST and NCPLOAD, the 'BUILD' macro of NCP1 contains NEWNAME=NCP1.</p> <p><u>3745</u></p> 	<p>On Disk NCP1 is active.</p> <p>In CCU NCP1 is running.</p>	
2	<p>Generate a new load module on TEST library. Read important remark on page 3-4.</p> <p><i>Host</i> Generate the new load module NCP1 (and NCP1R) with NEWNAME=NCP1 in the 'BUILD' macro.</p> <p><u>3745</u></p> 	<p>On Disk NCP1 is active.</p> <p>In CCU NCP1 is running.</p>	
3	<p>In VTAMLST and NCPLOAD TEST library, rename NCP1 to NCP2.</p> <p><i>Host</i> In VTAMLST, rename NCP1 to NCP2, In NCPLOAD, rename modules NCP1 and NCP1R to NCP2 and NCP2R</p> <p><u>3745</u></p> 	<p>On Disk NCP1 is active.</p> <p>In CCU NCP1 is running.</p>	
4	<p>Copy NCP2 and NCP2R from VTAMLST and NCPLOAD TEST library, to PRODUCTION library.</p> <p><i>Host</i> Copy NCP2 from VTAMLST TEST library to PRODUCTION library. Copy modules NCP2 and NCP2R from NCPLOAD TEST library to PRODUCTION library.</p> <p><u>3745</u></p> 	<p>On Disk NCP1 is active.</p> <p>In CCU NCP1 is running.</p>	
5	<p>Add NCP2 to the 3745 hard disk.</p> <p><i>Host</i> Use the VTAM 'MODIFY LOAD' (MLM) command to add NCP2 to the 3745 hard disk.</p> <p><u>3745</u></p> 	<p>On Disk NCP1 (old) is active. NCP2 (new NCP1) contains NEWNAME=NCP1 in the BUILD macro.</p> <p>In CCU NCP1 (old) is running.</p>	

Table 3-1 (Page 2 of 4). Rename Load Module Procedure 1 - Overview

Steps	VTAM Functions to perform	
6	<p>Rename on the disk, NCP1 to NCP3.</p> <p><i>Host</i> Use the VTAM 'MODIFY LOAD' command to rename NCP1 to NCP3 on the 3745 hard disk.</p> <p><u>3745</u></p> 	<p>On Disk NCP1 (old) becomes NCP3. NCP2 (new NCP1) contains NEWNAME=NCP1 in the BUILD macro.</p> <p>In CCU NCP1 (old) is running.</p>
7	<p>In VTAMLST and NCPLOAD PRODUCTION library, rename NCP1 to NCP3.</p> <p><i>Host</i> In VTAMLST, rename NCP1 to NCP3, In NCPLOAD, rename modules NCP1 and NCP1R to NCP3 and NCP3R.</p> <p><u>3745</u></p> 	<p>On Disk NCP3 is the old NCP1 renamed at step 6. NCP2 (new NCP1) contains NEWNAME=NCP1 in the BUILD macro.</p> <p>In CCU NCP1 (old) is running.</p>
8	<p>In VTAMLST and NCPLOAD PRODUCTION library, rename NCP2 to NCP1.</p> <p><i>Host</i> In VTAMLST, rename NCP2 to NCP1, In NCPLOAD, rename modules NCP2 and NCP2R to NCP1 and NCP1R.</p> <p><u>3745</u></p> 	<p>On Disk NCP3 is the old NCP1 renamed at step 6. NCP2 (new NCP1) contains NEWNAME=NCP1 in the BUILD macro.</p> <p>In CCU NCP1 (old) is running.</p>
9	<p>Rename on the disk, NCP2 to NCP1.</p> <p><i>Host</i> Use the VTAM 'MODIFY LOAD' command to rename NCP2 to NCP1 on the 3745 hard disk.</p> <p><u>3745</u></p> 	<p>On Disk NCP3 is the old NCP1 renamed at step 6. NCP1 (new) contains NEWNAME=NCP1 in the BUILD macro.</p> <p>In CCU NCP1 (old) is running.</p>

Rename Load Module

Table 3-1 (Page 3 of 4). Rename Load Module Procedure 1 - Overview

Steps	VTAM Functions to perform
10	De-activate NCP1 (old) and activate NCP1 (new).
<i>Host</i>	<ul style="list-style-type: none"> • Vary 'INACT' NCP1 (old) to de-activate it. • Vary 'ACT' NCP1 (new) with 'LOADFROM=EXT' to load and activate NCP1 (new) from the hard disk.
<u>3745</u>	<div style="display: flex; align-items: center; gap: 20px;">  <div style="margin-left: 20px;"> <p>On Disk NCP3 is the old NCP1 renamed at step 6. NCP1 (new) is active and running in the CCU.</p> <p>In CCU NCP1 (new) is running.</p> </div> </div>

IMPORTANT: Before Generation of a New Load Module

Remember that when generating a new load module with 'NEWNAME=NCP1', the JCL creates automatically in the NCPLOAD libraries the associated files NCP1, NCP1R (and NCP1N, for NPM) (The name NCP1 is taken from 'NEWNAME=NCP1'). These files could be in conflict with the already existing NCP1 files. **This is why it is recommended to use the TEST libraries rather than production libraries for VTAMLST and NCPLOAD.**

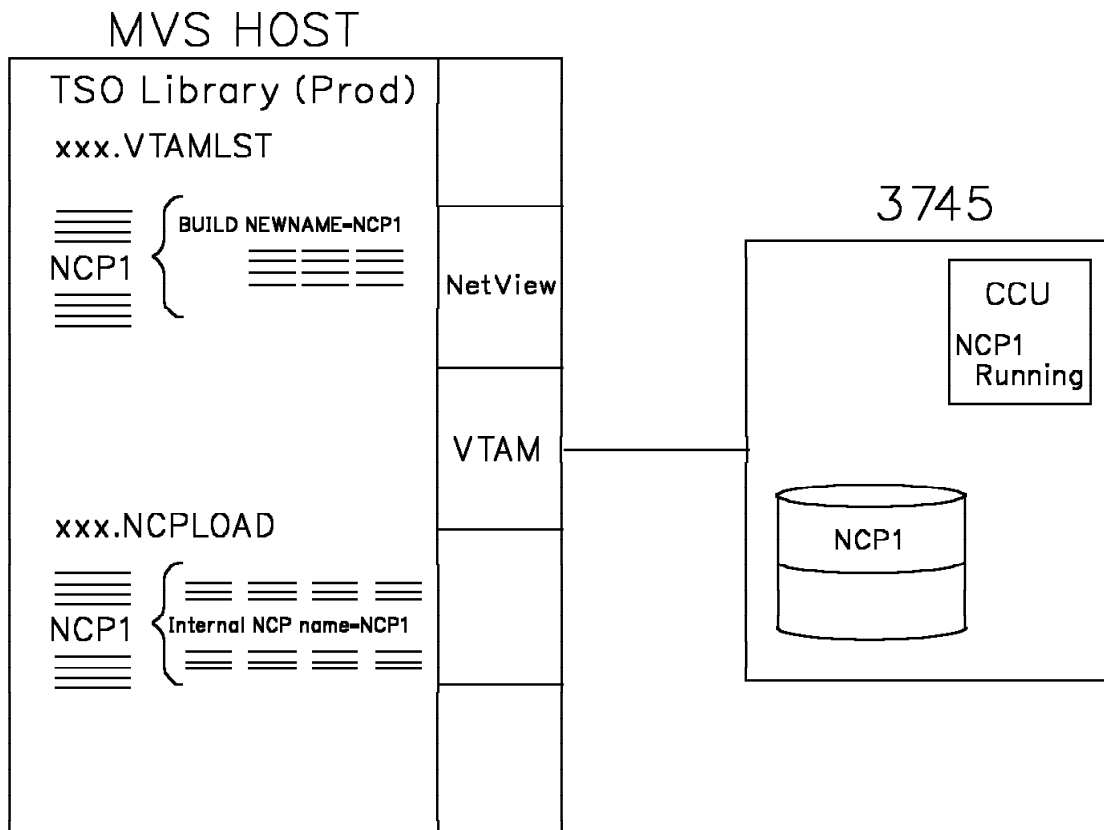
Rename Load Module Procedure - Detail

This procedure describes how to use the rename load module function in order to change the content of a load module (running in a 3745 CCU) without changing its name.

To avoid confusion, perform these steps in sequence, it will help you to recover more easily if you have a problem.

Step 1 - Initial Status

The initial status before starting this procedure is shown in the following figure. It represents a typical day to day operation.



TSO Library xxx.VTAMLST and xxx.NCPLOAD libraries contain NCP1.

VTAM NCP1 is an active major node.

3745 NCP1 is on the hard disk and running in the CCU.

Recovery Action Perform usual recovery actions.

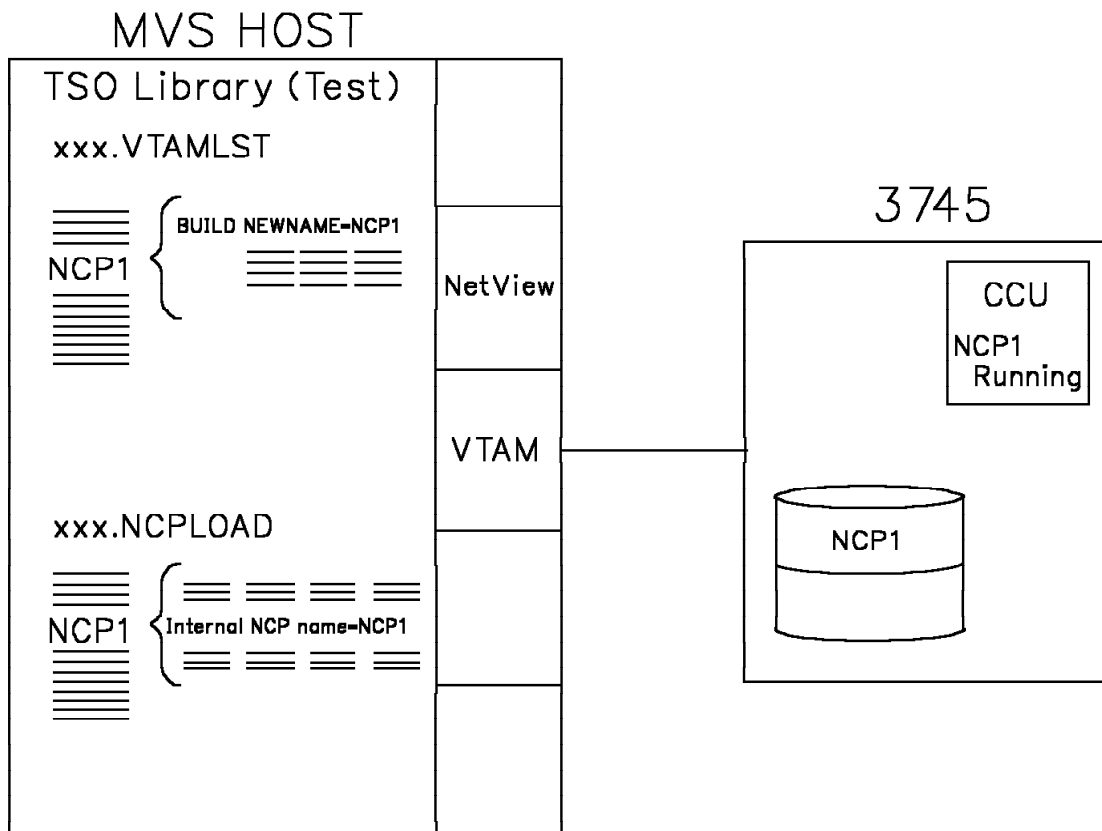
Step 2 - Generating a New Load Module (NCP1) on Test Library

Due to a change in the network configuration, you generate a new load module without changing the name of this load module.

For this reason, generate NCP1 and keep NEWNAME=NCP1 in the BUILD macro.

IMPORTANT: Before Generation of a New Load Module

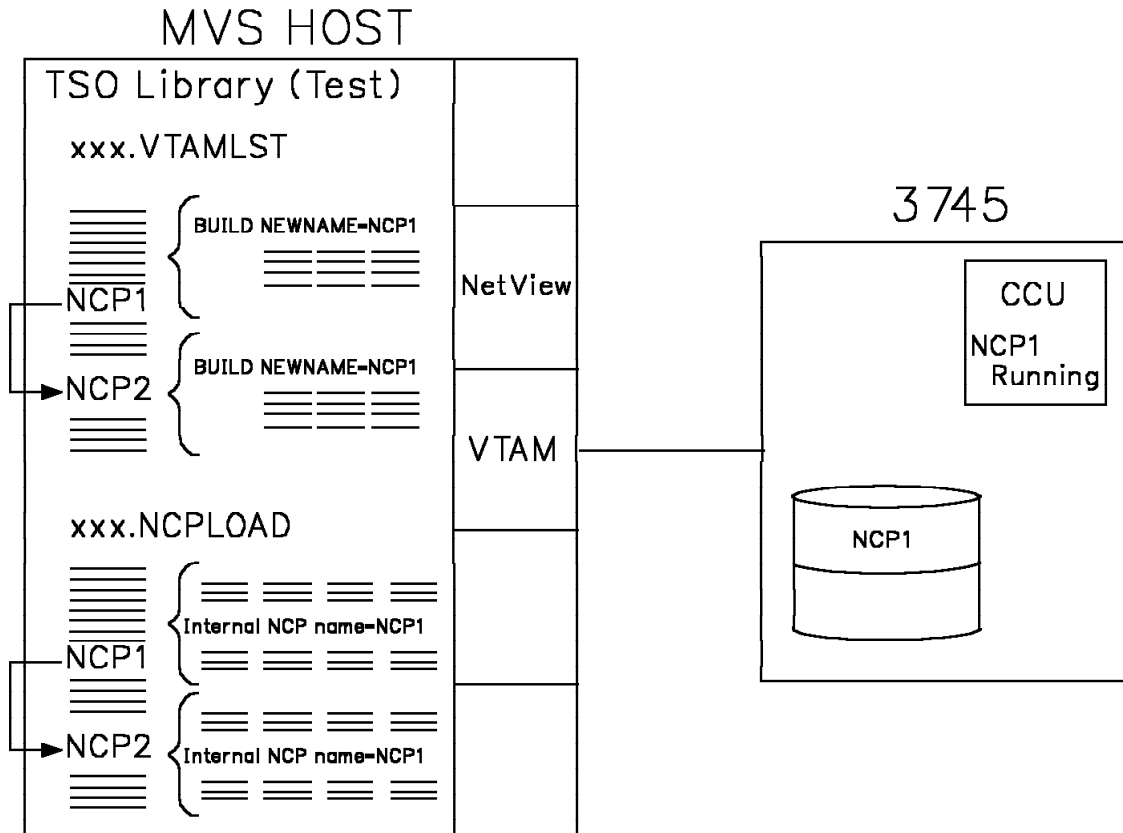
It is recommended that you use a test library and **not** the production library for VTAMLST and NCPLOAD.



- TSO Library** Generate new module. Follows the normal procedures but keep NEWNAME=NCP1 in the BUILD macro. Note that NCP1R (and NCP1N for NPM) are created together with NCP1.
- VTAM** NCP1 is an active major node.
- 3745** NCP1 is on the disk and running in the CCU.
- Recovery Action** If a problem occurs at this step on the 3745 (NCP abend), NCP1 (old) is still automatically reloaded in the CCU. Perform the usual recovery actions.

Step 3 - Renaming NCP1 to NCP2 in VTAMLST and NCPLOAD Test Libraries

Rename NCP1 to NCP2 in VTAMLST and NCPLOAD test libraries.



Very important: Concerning NCPLOAD libraries

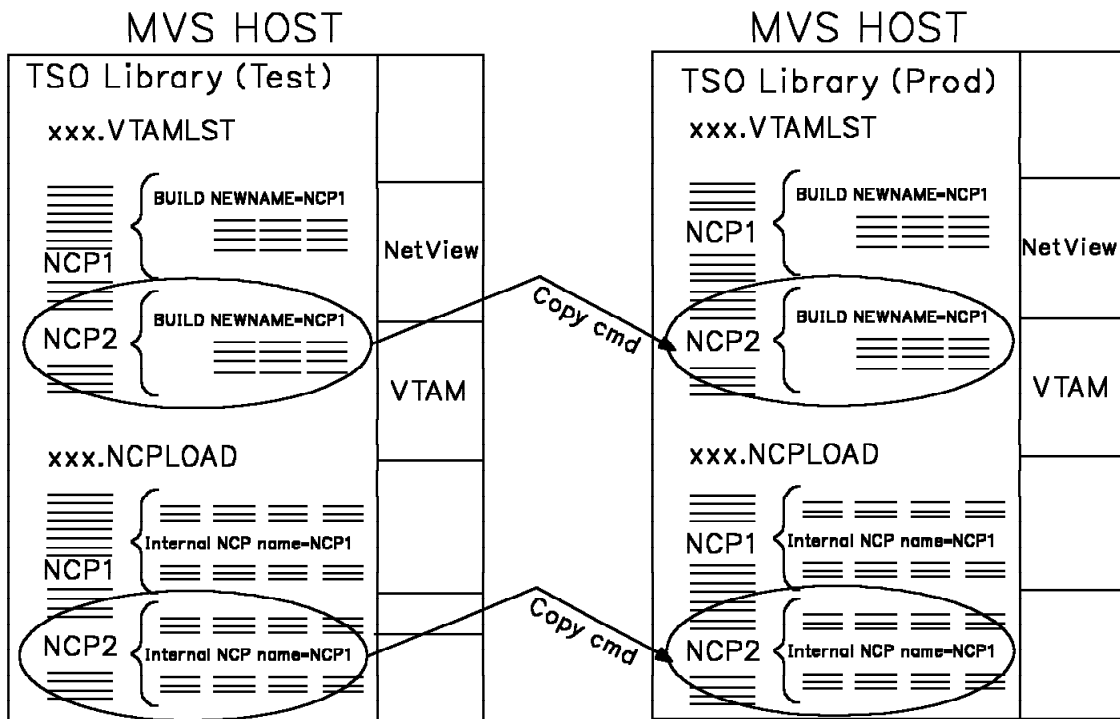
Each time that you rename or copy module NCP1 or NCP2, **do not forget**, that the following associated files of the NCPLOAD library must be copied and renamed too.

- NCP1R, NCP2R for RRT (Resource Resolution Table),
- NCP1N, NCP2N for NPM (NetView Performance Monitor),
- NCP1B, NCP2B for NTO (Network Terminal Option).

TSO Library	Use the appropriate function to rename NCP1 to NCP2 in VTAMLST and NCPLOAD libraries.
VTAM	No action.
3745	NCP1 is still running in the CCU.
Recovery Action	Perform usual recovery actions.

Step 4 - Copying NCP2 from VTAMLST and NCPLOAD Test Libraries to Production Libraries

Copy NCP2 from VTAMLST and NCPLOAD test libraries to production libraries.



Very important: Concerning NCPLOAD libraries

Each time that you rename or copy module NCP1 or NCP2, **do not forget**, that the following associated files of the NCPLOAD library must be copied and renamed too.

- NCP1R, NCP2R for RRT (Resource Resolution Table),
- NCP1N, NCP2N for NPM (NetView Performance Monitor),
- NCP1B, NCP2B for NTO (Network Terminal Option).

TSO Library Use the appropriate function to copy NCP2 from VTAMLST and NCPLOAD test libraries to production libraries.

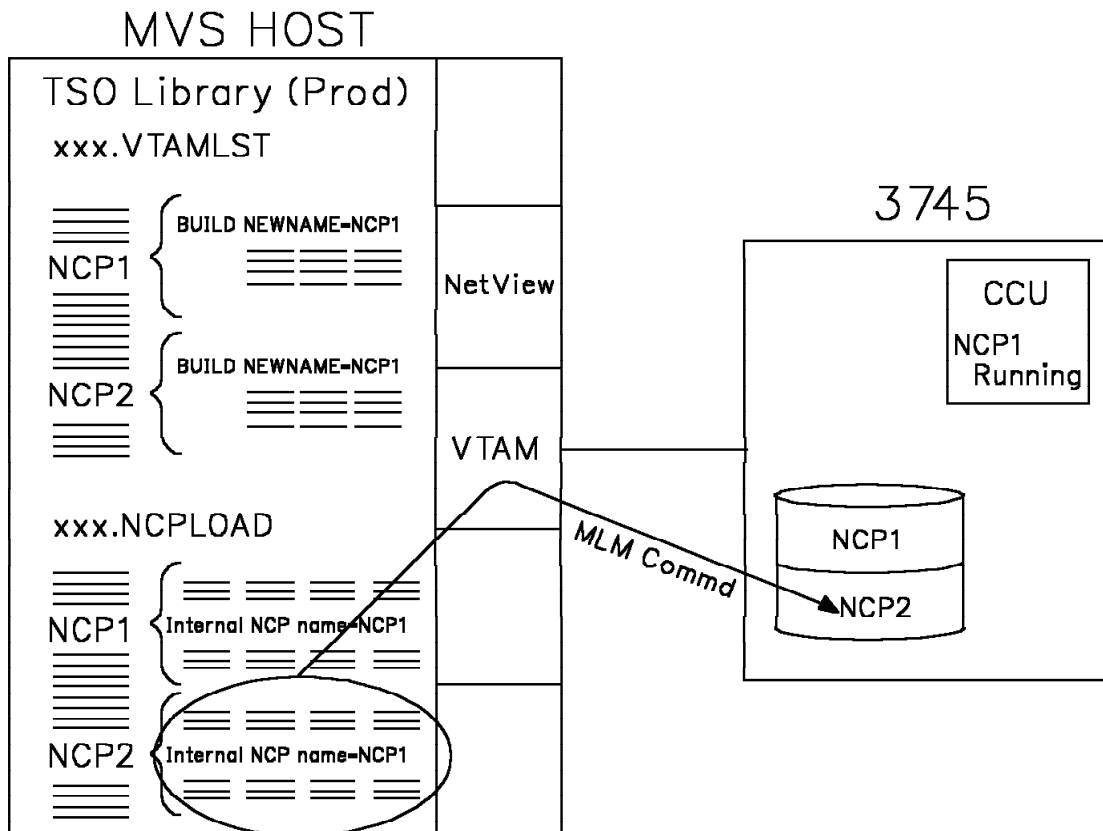
VTAM No action.

3745 NCP1 is still running in the CCU.

Recovery Action Perform usual recovery actions.

Step 5 - Adding NCP2 to the 3745 Hard Disk

Add the new load module NCP2 to the 3745 hard disk. A space must be available for it on the disk. If it is not the case, purge a load module from VTAM.



TSO Library

Usual commands

VTAM

Use the following MLM command to add NCP2 to the 3745 hard disk:

F vtamname,LOAD,ACTION=ADD,ID=xxname,LOADMOD=NCP2

VTAM displays the following message when the transfer is completed.

IST241I F LOAD ADD COMMAND COMPLETE FOR xxname

xxname is either the PU name or the NCP name.

3745

NCP1 is on the disk and running in the CCU.
NCP2 contains NEWNAME=NCP1 in the BUILD macro.

Recovery Action

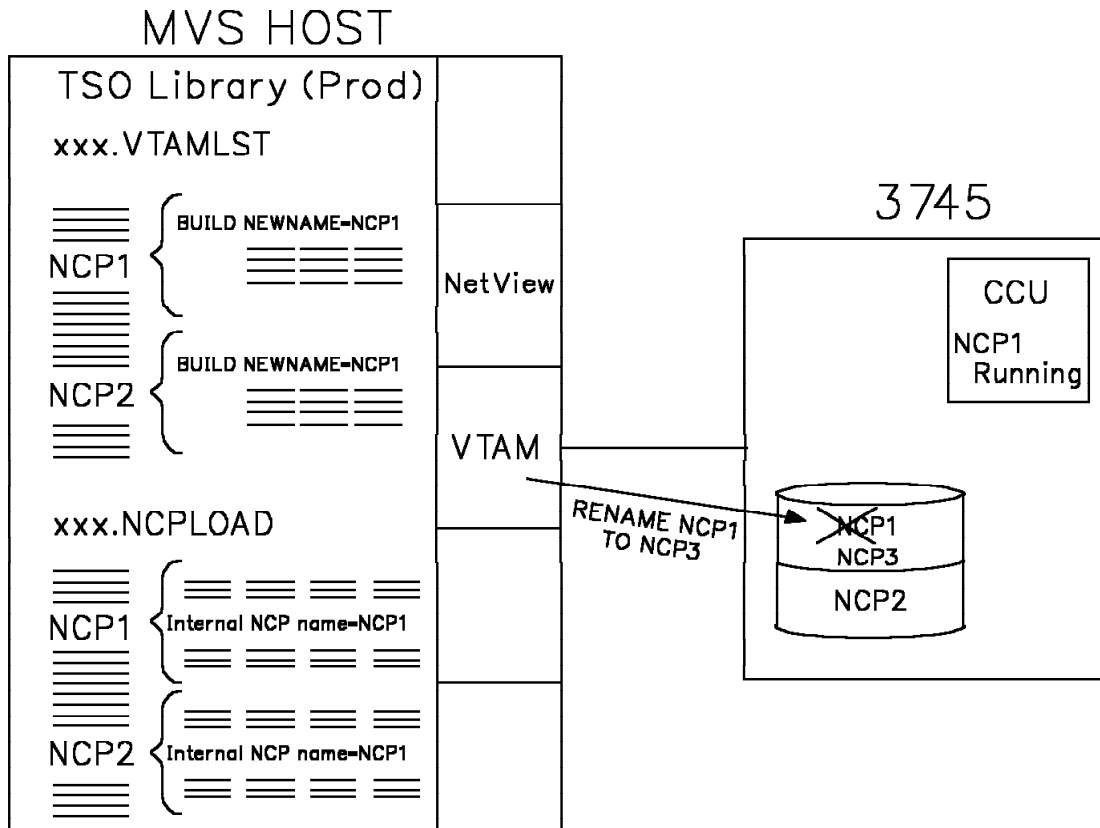
If a problem occurs at this step on the 3745 (NCP abend), NCP1 is still automatically reloaded in the CCU. Perform the usual recovery actions.

Rename Load Module

Step 6 - Renaming NCP1 to NCP3 on the Disk

Use the MODIFY LOAD command to rename NCP1 to NCP3 on the 3745 hard disk.

NCP1 (old) is still running in the CCU and becomes NCP3 on the disk.



TSO Library Usual commands

VTAM Use the following MODIFY LOAD command to rename NCP1 to NCP3:
**F vtamname,LOAD,ID=puname,ACTION=RENAME,
LOADMOD=NCP1,NEWNAME=NCP3**

VTAM displays the following messages:

IST097I MODIFY ACCEPTED

IST241I F LOAD REN COMMAND COMPLETE FOR puname

3745 NCP1 (old) becomes NCP3 on the disk and NCP1 (old) is still running in the CCU.
NCP2 and NCP3 contain NEWNAME=NCP1 in their BUILD macro.

Recovery Action after Step 6

- After the successful renaming of NCP1 to NCP3 on the 3745 hard disk, if one of the following problems occur on the 3745:

NCP1 abend

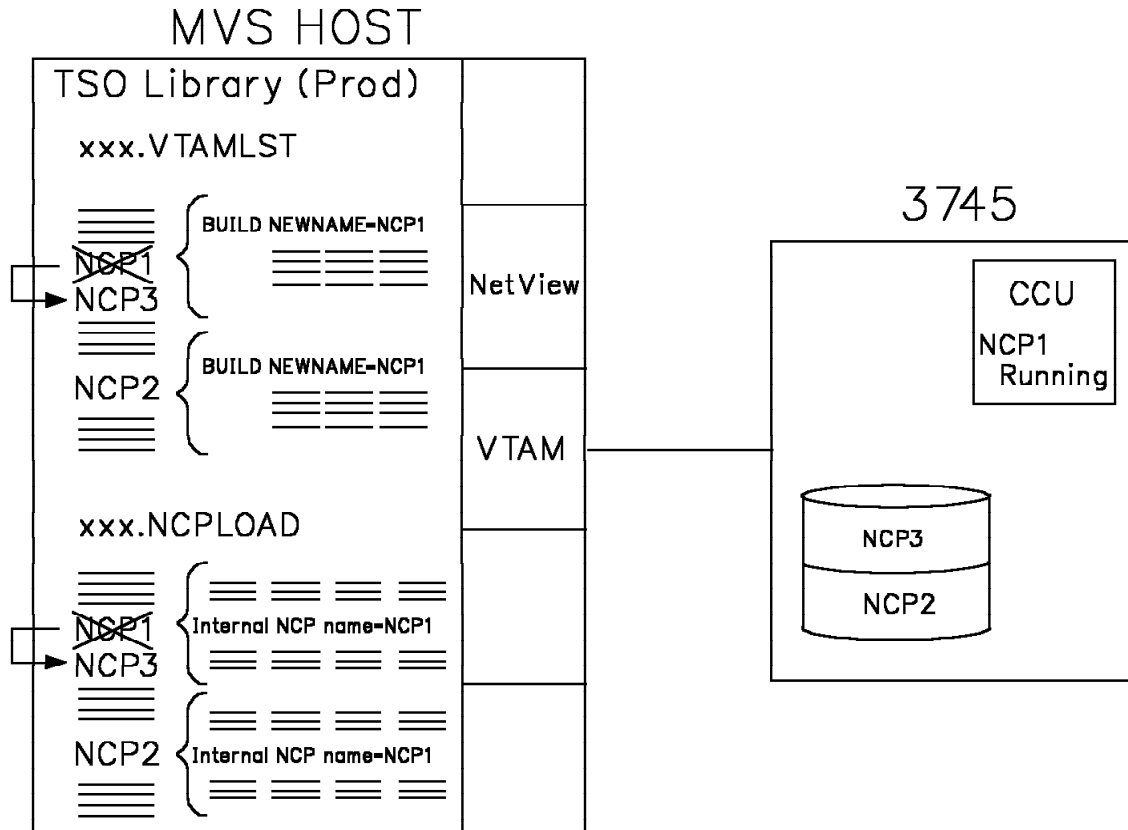
- An automatic dump is taken (unless there is already an NCP dump on disk).
- NCP3 is automatically reloaded in the CCU.
The host recontacts automatically the 3745 because NEWNAME=NCP1 is still defined in NCP3.
- Continue with the next step.

3745 is down

- IPL the 3745 at the MOSS console, the contact between the host and the 3745 is then automatically re-established because OPTION=YES and NEWNAME=NCP1 are still defined in NCP3.
Continue with the next step.
- If the contact between the host and the 3745 is not re-established or if OPTION=NO:
 - From the host, recontact the 3745. Use the following VTAM command:
V NET,INACT,ID=puname
V NET,ACT,ONLY,ID=puname,LOADMOD=NCP1
 Although NCP3 is on the disk, the contact is possible because NEWNAME=NCP1 is still defined in NCP3.
 - Restart step 6 and continue the procedure.
- If for any reason you want to stop this procedure From the MOSS console Rename NCP3 back to NCP1 on the 3745 hard disk. Select the MOSS DII function and refer to “Recovery from the MOSS Console” on page 3-20 to use this function.
Then re-IPL the 3745.

Step 7 - Renaming NCP1 to NCP3 in VTAMLST and NCPLOAD Production Libraries

Rename NCP1 to NCP3 in VTAMLST and NCPLOAD production libraries. NCP3 will be used later on as a backup NCP or erased if no longer needed.



Very important: Concerning NCPLOAD libraries

Each time that you rename NCP1 or NCP2, **do not forget**, that the following associated files of the NCPLOAD library must be renamed too.

- NCP1R, NCP2R for RRT (Resource Resolution Table),
- NCP1N, NCP2N for NPM (NetView Performance Monitor),
- NCP1B, NCP2B for NTO (Network Terminal Option).

TSO Library Use the appropriate function to rename NCP1 to NCP3 in VTAMLST and NCPLOAD libraries.

VTAM Usual commands.

3745 NCP1 is still running in the CCU.
NCP2 and NCP3 are on the hard disk and contain NEWNAME=NCP1 in their BUILD macro.

Recovery Action after Step 7

- If one of the following problems occur on the 3745 after the successful renaming of NCP1 to NCP3 in the host libraries:

NCP1 abend

- If for any reason, NCP1 is deactivated from the host, the contact between the host and the 3745 is lost and cannot be re-established (NCP1 being no longer in the libraries).

If you try to reactivate, the following message is displayed on the VTAM console:

**IST116I MEMBER NCP1 NOT FOUND ON VTAM DEFINITION LIBRARY
IST061I VARY ACT FOR puname FAILED - NODE UNKNOWN TO VTAM**

The best way to recover is the following:

1. Rename NCP3 back to NCP1 in the libraries.
2. Re-establish contact between the host and the 3745 with the VTAM command:
V NET,ACT,ONLY,ID=puname,LOADMOD=NCP1
3. Restart step 7 (rename NCP1 to NCP3 in the libraries).
4. Continue with step 8.

3745 is down

Perform the following steps in sequence.

1. At the host:

- Rename NCP3 back to NCP1 in the libraries.

2. At the 3745 (from the MOSS console with MOSS alone)

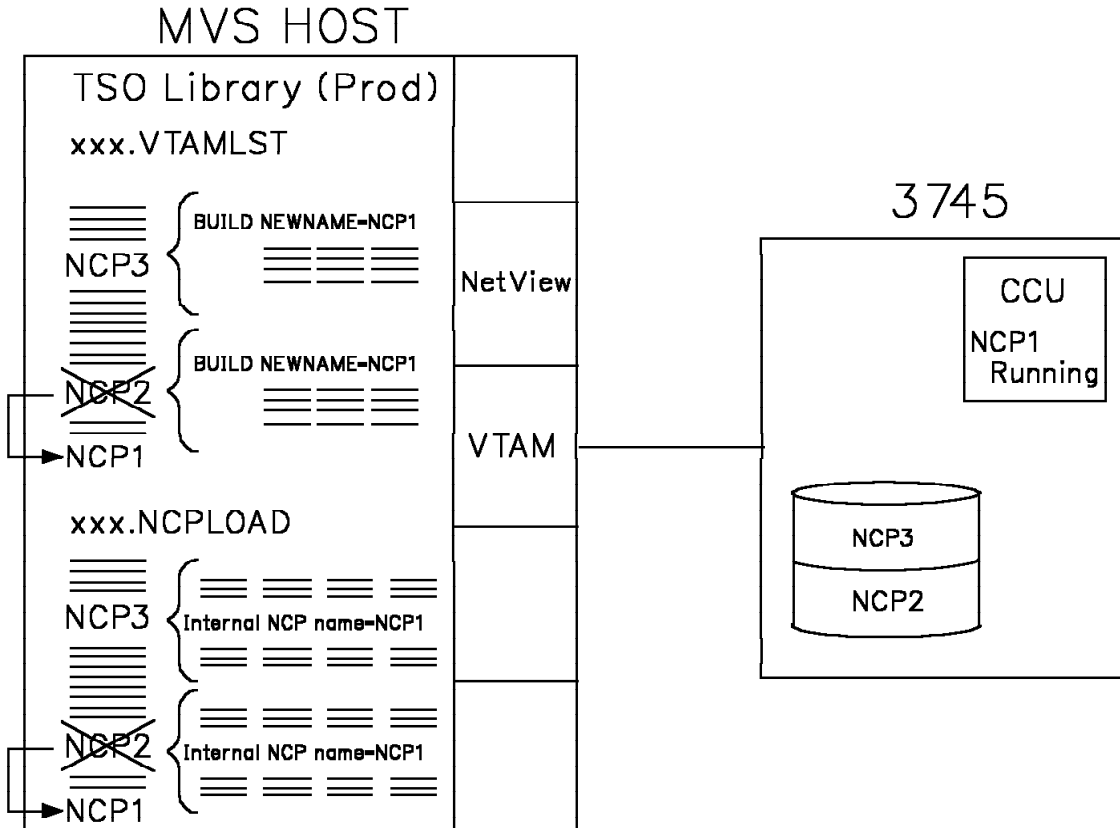
- a. Rename NCP3 back to NCP1 on the 3745 hard disk. Select the MOSS DII function to perform it.
Refer to "Recovery from the MOSS Console" on page 3-20 to use this function.
- b. IPL the 3745.

3. At the host:

- a. Re-establish contact between the host and the 3745 with the VTAM command:
V NET,ACT,ONLY,ID=puname,LOADMOD=NCP1
- b. Restart at step 6.

Step 8 - Renaming NCP2 to NCP1 in VTAMLST and NCPLOAD Production Libraries

Rename NCP2 to NCP1 in VTAMLST and NCPLOAD production libraries. In the host, NCP1 is now the new load module.



Very important: Concerning NCPLOAD libraries

Each time that you rename NCP1 or NCP2, **do not forget**, that the following associated files of the NCPLOAD library must be renamed too.

- NCP1R, NCP2R for RRT (Resource Resolution Table),
- NCP1N, NCP2N for NPM (NetView Performance Monitor),

TSO Library	Use the appropriate function to rename NCP2 to NCP1 in VTAMLST and NCPLOAD libraries.
VTAM	No action.
3745	NCP1 is still running in the CCU. NCP2 and NCP3 are on the hard disk and contain NEWNAME=NCP1 in their BUILD macro. NCP3 is the active load module.

Recovery Action after Step 8

- If one of the following problems occur on the 3745 after the successful renaming of NCP2 to NCP1 in the host libraries:

NCP1 abend

- NCP3 is automatically reloaded in the CCU.
The host recontacts automatically the 3745 because NEWNAME=NCP1 is still defined in NCP3.
Continue with the next step.
- If for any reason, NCP1 is deactivated from the host, the contact between the host and the 3745 is lost and cannot be re-established.

If you try (from the VTAM console) to recontact or reactivate NCP1 (old) in the 3745 CCU, the following message is displayed:

```
*xx IST937A NCP1 CORRELATOR MISMATCH
  mm/dd/yy hh:mm:ss - mm/dd/yy hh:mm:ss
REPLY 'RELOAD', 'INACT', or 'IGNORE'
```

In the preceding message, the dates and times are (in sequence), the generation time of NCP2 (New NCP1) and of the old NCP1.

The best way to recover is:

1. Reply 'INACT'
2. Rename NCP1 back to NCP2 and NCP3 back to NCP1 in the libraries.
3. Re-establish contact between the host and the 3745 with the VTAM command:
V NET,ACT,ONLY,ID=puname,LOADMOD=NCP1
4. Restart at step 7 (rename NCP1 to NCP3 in the libraries).

3745 is down

Perform the following in sequence:

1. At the host:

- Rename NCP1 back to NCP2 and NCP3 back to NCP1 in the libraries.

2. At the 3745 (from the MOSS console with MOSS alone)

- a. Rename NCP3 back to NCP1 on the 3745 hard disk. Select the MOSS DII function to perform it.
Refer to "Recovery from the MOSS Console" on page 3-20 to use this function.
- b. IPL the 3745.

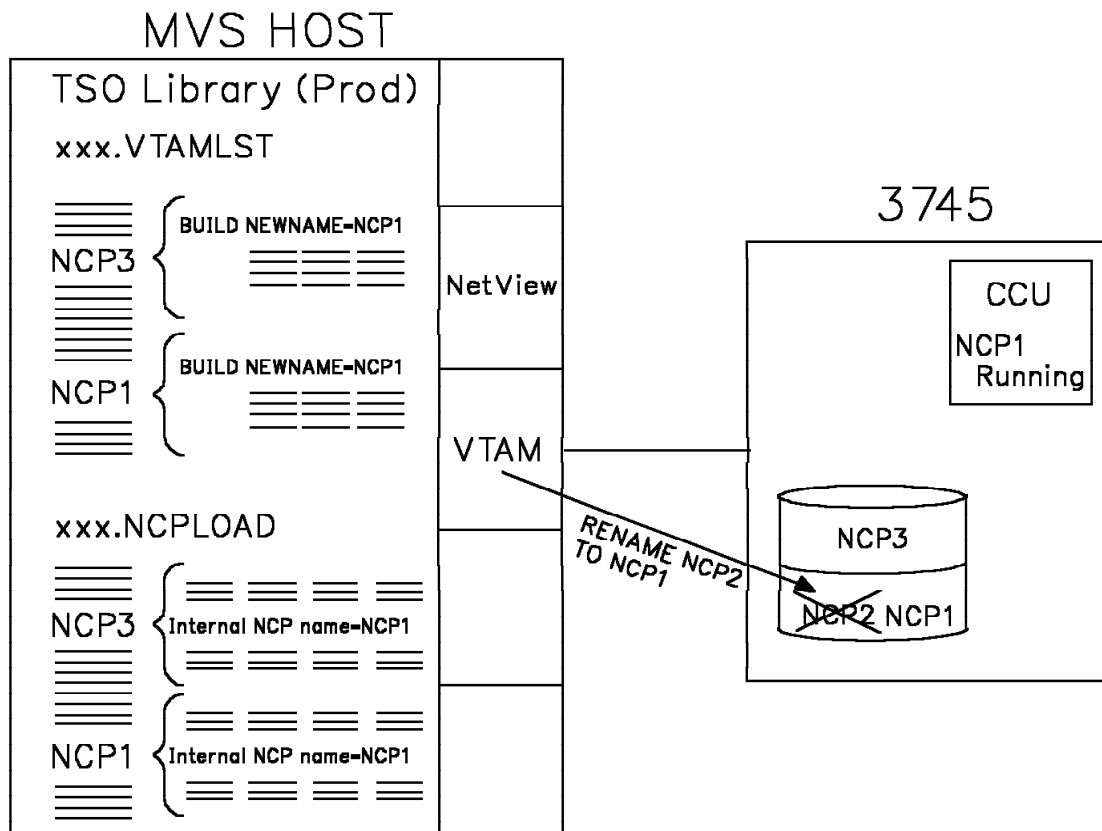
3. At the host:

- a. Re-establish contact between the host and the 3745 with the VTAM command:
V NET,ACT,ONLY,ID=puname,LOADMOD=NCP1
- b. Restart at step 6.
- c. Continue with the next step.

Rename Load Module

Step 9 - Renaming NCP2 to NCP1 on the Disk

Use the MODIFY LOAD command to rename NCP2 to NCP1 on the 3745 hard disk. On the disk, NCP1 is now the new load module but not yet active.



TSO Library

Usual commands

VTAM

Use the following MODIFY LOAD command to rename NCP2 to NCP1 on the hard disk:

```
F vtamname,LOAD,ACTION=RENAME,ID=puname,  
LOADMOD=NCP2,NEWNAME=NCP1
```

VTAM displays the following message:

```
IST097I MODIFY ACCEPTED  
IST241I F LOAD REN COMMAND COMPLETE FOR puname
```

3745

NCP2 becomes NCP1 (new) on the disk and NCP1 (old) is still running in the CCU.

NCP3 (old NCP1) is also on the hard disk and contains NEWNAME=NCP1 in the BUILD macro.

NCP3 is the active load module.

Recovery Action after Step 9

- If one of the following problems occur on the 3745 after the successful renaming of NCP2 to NCP1 on the 3745 hard disk:

NCP1 abend

- NCP3 is automatically reloaded in the CCU.

The host recontacts automatically the 3745 because NEWNAME=NCP1 is still defined in NCP3.

Continue with the next step.

- If for any reason, NCP1 is deactivated from the host, the contact between the host and the 3745 is lost and cannot be re-established.

If you try (from the VTAM console) to recontact or reactivate NCP1 (old) in the 3745 CCU, the following message is displayed:

```
*xx IST937A NCP1 CORRELATOR MISMATCH
  mm/dd/yy hh:mm:ss - mm/dd/yy hh:mm:ss
REPLY 'RELOAD', 'INACT', or 'IGNORE'
```

In the preceding message, the dates and times are (in sequence), the generation time of NCP2 (New NCP1) and of the old NCP1.

The best way to recover is:

1. Reply 'INACT'
2. Rename NCP1 back to NCP2 and NCP3 back to NCP1 in the host libraries.
3. Re-establish contact between the host and the 3745 with the VTAM command:


```
V NET,ACT,ONLY,ID=puname,LOADMOD=NCP1
```
4. Restart at step 7 (rename NCP1 to NCP3 in the libraries).
5. Continue with step 8 (rename NCP2 to NCP1 in the libraries).
6. **Skip step 9.**
7. Continue with step 10.

3745 is down Perform the following steps in sequence.

1. At the host:

- Rename NCP1 back to NCP2 and NCP3 back to NCP1 in the libraries.

2. At the 3745 (from the MOSS console with MOSS alone)

- a. Rename NCP1 back to NCP2 on the 3745 hard disk. Select the MOSS DII function to perform it.
Refer to "Recovery from the MOSS Console" on page 3-20 to use this function.
- b. Rename NCP3 back to NCP1 on the 3745 hard disk.
- c. Select the MOSS DII function to set the 'AUTO DUMP/LOAD' option to 'NO'.
- d. IPL the 3745. When it stops at IPL phase 4 (when FF4 is displayed at the control panel), contact the host operator to have the old NCP1 loaded.

3. At the host:

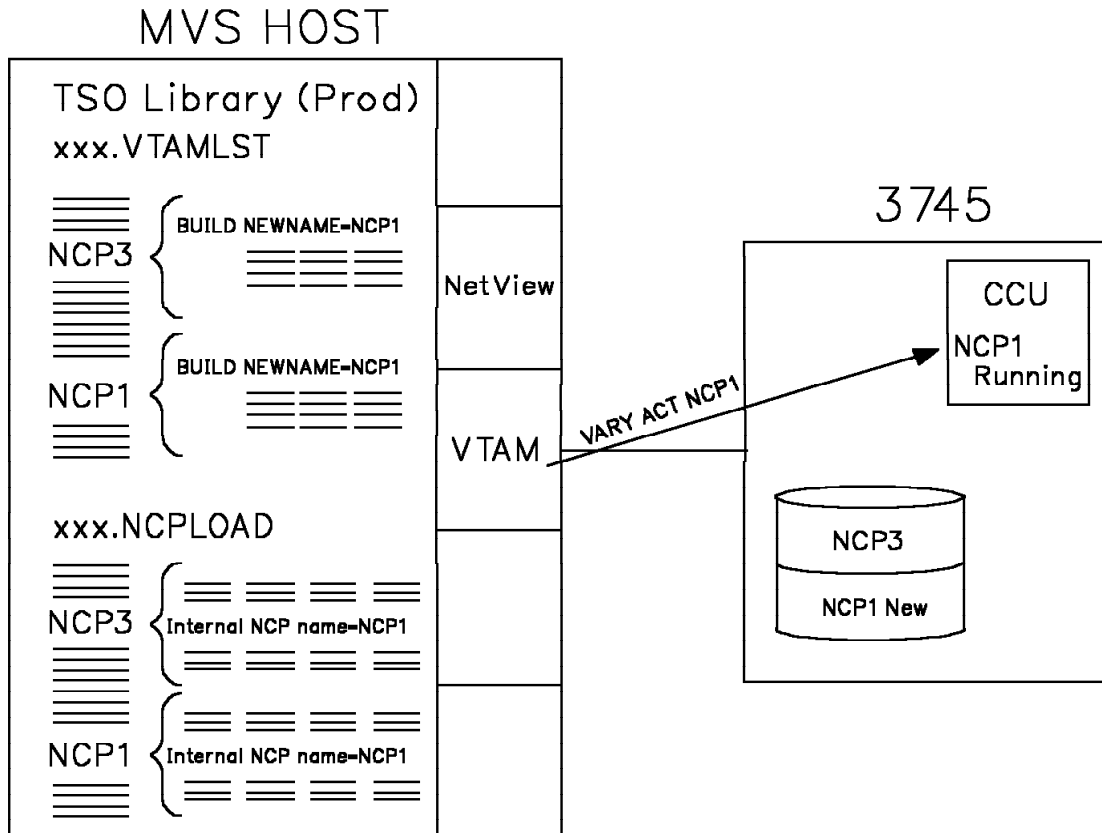
- a. Use the following VTAM command to load the old NCP1 in the 3745 CCU.

```
V NET,ACT,ID=puname,LOADFROM=EXT,
LOAD=YES,LOADMOD=NCP1
```

- b. Restart at step 6.

Step 10 - De-activating NCP1 (Old) and Activate NCP1 (New) in the CCU

NCP1, containing the new NCP generation, can be activated now and loaded in the CCU.



TSO Library

No action

VTAM

Use the VTAM commands VARY INACT and VARY ACT

1. To deactivate NCP1 (old):
V NET,INACT,ID=puname,F
2. To activate NCP1 (new):
**V NET,ACT,ID=puname,LOADFROM=EXT,
LOAD=YES,LOADMOD=NCP1,U=Cxx**

xx in **U=Cxx** is the channel logical address.

3745

NCP1 (new) becomes active on the disk and NCP1 is now running in the CCU.

NCP3 is still on the hard disk and contains NEWNAME=NCP1 in the BUILD macro. It can be erased now or saved for a backup solution.

Recovery Action after Step 10

- If one of the following problems occur on the 3745 after the successful VTAM commands:

NCP1 abend

- NCP1 (new) is automatically reloaded in the CCU.
The host recontacts automatically the 3745, normal operations can continue.

NCP1 (new) has a generation problem

Perform the following steps in sequence.

1. At the host:

- Rename NCP1 back to NCP2 and NCP3 back to NCP1 in the libraries.

2. At the 3745 (from the MOSS console with MOSS alone)

- a. Rename NCP1 back to NCP2 on the 3745 hard disk. Select the MOSS DII function to perform it.
Refer to "Recovery from the MOSS Console" on page 3-20 to use this function.
- b. Rename NCP3 back to NCP1 on the 3745 hard disk.
- c. Select the MOSS DII function to set the 'AUTO DUMP/LOAD' option to 'NO'.
- d. IPL the 3745. When it stops at IPL phase 4 (when FF4 is displayed at the control panel), contact the host operator to have the old NCP1 loaded.

3. At the host:

- a. Use the following VTAM command to load the old NCP1 in the 3745 CCU.

```
V NET,ACT,ID=puname,LOADFROM=EXT,  
LOAD=YES,LOADMOD=NCP1
```

- b. Restart at step 2, correct the generation errors.

3745 is down

- After step 10 is done, investigate and re-IPL the 3745.

Recovery from the MOSS Console

Load Module Rename Restriction

1. Renaming a load module on the 3745 hard disk (MOSS DII function) **must only be used for error recovery**
2. A load module must not be renamed on the hard disk if it has not been previously renamed using VTAM 'modify load' command.

Also for recovery action, from the MOSS, it is possible to activate and deactivate a load module on a hard disk. This is done from the MOSS DII function with the MOSS status 'ALONE'.

MOSS must be alone in order to avoid unexpected usage of rename.

Disk IPL Information (DII)

After logging on to the 3745 MOSS console with **MOSS alone**:

From the screens:

FUNCTION SELECTION RULES
or
MENU 1.



The following screen is displayed.

```
----- mm/dd/yy hh:mm  
FUNCTION ON SCREEN: DISPLAY IPL INFORMATION  
  
1 - DISK IPL INFORMATION  
2 - DISKETTE MANAGEMENT  
3 - TIMED IPL INFORMATION  
4 - RENAME LOAD MODULE MANAGEMENT  
  
SELECT AN OPTION THEN PRESS SEND ===>  
  
===>  
F1:END F2:MENU2 F3:ALARM
```

From this screen:

Select the option:
4 - RENAME LOAD MODULE MANAGEMENT.

If needed, refer to the *3745 Advanced Operations Guide* for further details on the DII function (Display IPL Information).

4 SEND

If the MOSS is online or offline, the following message is displayed.

```
AUTO DUMP/LOAD:      NO                YES  
ACTIVE LOAD MODULE:  xxxxxxxx          xxxxxxxx
```

```
==> MOSS IS NOT ALONE - FUNCTION NOT AVAILABLE
```

```
F1:END F2:MENU2 F3:ALARM F4:RENAME LM F6:QUIT F7:ACTIV LM F8:DEACTIV LM
```

MOSS DII Function - Rename Load Module Management

On the following screen, the information displayed on the right side concerning the CCU B applies only to the IBM 3745 models 410 and 610. These models have two CCUs. Models 130, 150, 170, 210, and 310 have only one CCU.

mm/dd/yy hh:mm

```

-----
FUNCTION ON SCREEN: DISK IPL INFO

CONFIGURATION: TWIN          OPERATING MODE: DUAL

CP RUNNING:          CCU-A          CCU-B
                   xxxxxxxx          xxxxxxxx
DISK CONTENTS:      SAVE DATE/TIME  SAVE DATE/TIME
LOAD MODULES:      xxxxxxxx (mm/dd/yy hh:mm:ss) xxxxxxxx (mm/dd/yy hh:mm:ss)
                   xxxxxxxx (mm/dd/yy hh:mm:ss) xxxxxxxx (mm/dd/yy hh:mm:ss)
DUMP:              xxxxxxxx (mm/dd/yy hh:mm:ss) xxxxxxxx (mm/dd/yy hh:mm:ss)
AUTO DUMP/LOAD:    Yes              Yes
ACTIVE LOAD MODULE: xxxxxxxx          xxxxxxxx

===>

F1:END F2:MENU2 F3:ALARM F4:RENAME LM F6:QUIT F7:ACTIV LM F8:DEACTIV LM
    
```

From this screen press:

- F4 to change the name of a load module.
- F7 to activate a load module.
- F8 to deactivate a load module.
- Any other displayed key to access common MOSS options.

Note: The load module must first have been renamed using VTAM 'modify load' command. If this is not the case results will be unpredictable.

For 3745 models with twin CCUs (410 and 610), the next screen for CCU selection is displayed. For other models, go to "MOSS DII Function - Load Module Selection" on page 3-24.

MOSS DII Function - CCU Selection

Models 410, 610

```

----- mm/dd/yy hh:mm
FUNCTION ON SCREEN: DISK IPL INFO

CONFIGURATION: TWIN          OPERATING MODE: BACKUP

CP RUNNING:          CCU-A          CCU-B
                   xxxxxxxx          xxxxxxxx
DISK CONTENTS:      SAVE DATE/TIME  SAVE DATE/TIME
LOAD MODULES:      xxxxxxxx (mm/dd/yy hh:mm:ss) xxxxxxxx (mm/dd/yy hh:mm:ss)
                   xxxxxxxx (mm/dd/yy hh:mm:ss) xxxxxxxx (mm/dd/yy hh:mm:ss)
DUMP:              xxxxxxxx (mm/dd/yy hh:mm:ss) xxxxxxxx (mm/dd/yy hh:mm:ss)
AUTO DUMP/LOAD:    NO              YES
ACTIVE LOAD MODULE: xxxxxxxx          xxxxxxxx

- SELECT A CCU (A or B) THEN PRESS SEND ==> B

==>

F1:END F2:MENU2 F3:ALARM F4:RENAME LM F6:QUIT F7:ACTIV LM F8:DEACTIV LM
    
```

From this screen:

Select the CCU (A or B) for which you want to rename a load module.

In a twin CCU configuration, if the operating mode is: STANDBY, this screen is not displayed. The running CCU is automatically selected.

MOSS DII Function - Load Module Selection

On the following screen, the information displayed on the right side concerning the CCU B applies only to the IBM 3745 models 410 and 610. These models have two CCUs. Models 130, 150, 170, 210, and 310 have only one CCU.

```

----- mm/dd/yy hh:mm
FUNCTION ON SCREEN: DISK IPL INFO

CONFIGURATION: TWIN          OPERATING MODE: BACKUP

CP RUNNING:                CCU-A                CCU-B
                           xxxxxxxx           xxxxxxxx
DISK CONTENTS:             SAVE DATE/TIME       SAVE DATE/TIME
LOAD MODULES:             xxx A xx (mm/dd/yy hh:mm:ss) xxx A xx (mm/dd/yy hh:mm:ss)
                           xxx A xx (mm/dd/yy hh:mm:ss) xxx A xx (mm/dd/yy hh:mm:ss)
DUMP:                     xxxxxxxx (mm/dd/yy hh:mm:ss) xxxxxxxx (mm/dd/yy hh:mm:ss)
AUTO DUMP/LOAD:           NO                      YES
ACTIVE LOAD MODULE:       xxxxxxxx                xxxxxxxx

ENTER NAME OF THE LOAD MODULE TO BE RENAMED THEN PRESS SEND ==> xxxxxxxx

==>

F1:END  F2:MENU2  F3:ALARM                      F6:QUIT
    
```

From this screen:

1. Enter the name of the load module to be renamed, (one of the load modules referenced **A** on the screen).
2. Press send.

The following error messages may be displayed:

- LOAD MODULE NOT FOUND ON DISK, CANNOT BE RENAMED
When the load module does not exist on the disk.
- LOAD MODULE NEVER RENAMED FROM VTAM, FUNCTION NOT AVAILABLE

A load module can only be renamed from the MOSS if it was previously renamed from VTAM.

Renaming a load module from the MOSS must only be done for recovery action.

MOSS DII Function - New Name Entry

On the following screen, the information displayed on the right side concerning the CCU B applies only to the IBM 3745 models 410 and 610. These models have two CCUs. Models 130, 150, 170, 210, and 310 have only one CCU.

```

----- mm/dd/yy hh:mm
FUNCTION ON SCREEN: DISK IPL INFO

CONFIGURATION: TWIN          OPERATING MODE: BACKUP

CP RUNNING:                CCU-A                CCU-B
                           xxxxxxxx           xxxxxxxx
DISK CONTENTS:             SAVE DATE/TIME       SAVE DATE/TIME
LOAD MODULES:             xxxxxxxx (mm/dd/yy hh:mm:ss) xxxxxxxx (mm/dd/yy hh:mm:ss)
                           xxxxxxxx (mm/dd/yy hh:mm:ss) xxxxxxxx (mm/dd/yy hh:mm:ss)
DUMP:                     xxxxxxxx (mm/dd/yy hh:mm:ss) xxxxxxxx (mm/dd/yy hh:mm:ss)
AUTO DUMP/LOAD:           NO                    YES
ACTIVE LOAD MODULE:       xxxxxxxx             xxxxxxxx

ENTER NEW NAME THEN PRESS SEND ==> xxxxxxx

==>

F1:END  F2:MENU2  F3:ALARM                F6:QUIT
    
```

When you enter the new name, if you obtain the following message, you must provide another name.

```

AUTO DUMP/LOAD:           NO                    YES
ACTIVE LOAD MODULE:       xxxxxxxx             xxxxxxxx

ENTER NEW NAME THEN PRESS SEND ==> xxxxxxx

==> NEW NAME ALREADY EXISTS

F1:END  F2:MENU2  F3:ALARM                F6:QUIT
    
```

Then you will be prompted with the next screen to confirm the new name.

```

----- mm/dd/yy hh:mm
FUNCTION ON SCREEN: DISK IPL INFO

CONFIGURATION: TWIN          OPERATING MODE: BACKUP

CP RUNNING:                CCU-A                CCU-B
                           xxxxxxxx           xxxxxxxx
DISK CONTENTS:             SAVE DATE/TIME       SAVE DATE/TIME
LOAD MODULES:             xxxxxxxx (mm/dd/yy hh:mm:ss) xxxxxxxx (mm/dd/yy hh:mm:ss)
                           xxxxxxxx (mm/dd/yy hh:mm:ss) xxxxxxxx (mm/dd/yy hh:mm:ss)
DUMP:                     xxxxxxxx (mm/dd/yy hh:mm:ss) xxxxxxxx (mm/dd/yy hh:mm:ss)
AUTO DUMP/LOAD:           NO                    YES
ACTIVE LOAD MODULE:       xxxxxxxx             xxxxxxxx

CONFIRM NEW NAME: xxxxxxx (Y/N) THEN PRESS SEND ==> _

==>

F1:END  F2:MENU2  F3:ALARM                F6:QUIT
    
```

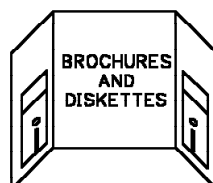
Rename Load Module

Bibliography

3745 Task and User Publications (Models 130, 150, and 170)

Customer Documentation

The product library is presented in two formats:



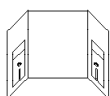
Evaluating and Configuring



GA33-0138

Introduction

To evaluate and learn about the 3745 capabilities



GA33-0093

Configuration Program

To configure a 3745

Preparing Your Site



GC22-7064

S/370 I/O Installation Manual Physical Planning

To plan the physical site



GA33-0140

Preparing for Connection

To prepare cable installation and LIC5 or LIC6 configuration

Preparing for Operation



GA33-0126 ¹

Telecommunication Products Safety Handbook

To recall safety principles



SA33-0141 ¹

Connection and Integration Guide

To install and test LICs and customize your 3745 after installation



SA33-0158 ¹

Console Setup Guide

To install local, alternate, or remote consoles

Customizing Your Control Program



SA33-0102

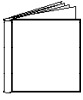
Principles of Operation

To understand the 3745 instruction set in order to write or modify a control program

Note: ¹ Documentation shipped with the 3745.

Customer Documentation - Continued

Operating 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



SA33-0178

Guide to Timed IPL and Rename Load Module
VTAM procedures:

- To schedule an automatic reload of 3745 communication controllers
- To keep 3745 load module changes transparent to the operations staff.

Managing Problems



SA33-0096 1

Problem Determination Guide
To perform problem determination

Finding Information



SA33-0142 1

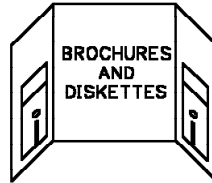
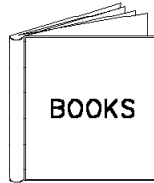
Master Index
To find information in the customer library

Note: 1 Documentation shipped with the 3745.

3745 Task and User Publications (Models 210, 310, 410, and 610)

Customer Documentation

The product library is presented in two formats:



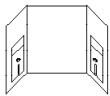
Evaluating and Configuring



GA33-0092

Introduction

To evaluate and learn about the 3745 capabilities



GA33-0093

Configuration Program

To configure a 3745

Preparing Your Site



GC22-7064

S/370 I/O Installation Manual Physical Planning

To plan the physical site



GA33-0127

Preparing for Connection

To prepare cable installation and LIC5 or LIC6 configuration

Preparing for Operation



GA33-0126 ¹

Telecommunication Products Safety Handbook

To recall safety principles



SA33-0129 ¹

Connection and Integration Guide

To install and test LICs and customize your 3745 after installation



SA33-0158 ¹

Console Setup Guide

To install local, alternate, or remote consoles

Customizing Your Control Program



SA33-0102

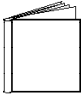
Principles of Operation

To understand the 3745 instruction set in order to write or modify a control program

Note: ¹ Documentation shipped with the 3745.

Customer Documentation - Continued

Operating 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



SA33-0178

Guide to Timed IPL and Rename Load Module
VTAM procedures:

- To schedule an automatic reload of 3745 communication controllers
- To keep 3745 load module changes transparent to the operations staff.

Managing Problems



SA33-0096 1

Problem Determination Guide
To perform problem determination

Finding Information



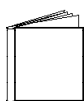
SA33-0172 1

Master Index
To find information in the customer library

Note: 1 Documentation shipped with the 3745.

Network Program Products Publications

NCP, SSP, AND EP PUBLICATIONS



SC30-3447

NCP, SSP, and EP Resource Definition Guide



SC30-3448

NCP, SSP, and EP Resource Definition Reference



SC30-3169

NCP, SSP, and EP Messages and Codes

NETVIEW PUBLICATIONS



SC31-6019

NetView Operation



SC31-6003

NetView/PC Operation

NPM PUBLICATIONS



SH20-6360

NetView Performance Monitor Operation

VTAM PUBLICATIONS



SC23-0111

VTAM Installation and Resource Definition



SC23-6435

VTAM Operation (For MVS, VM, and VSE)

List of Abbreviations

abend	abnormal end of task	NPDA	Network Problem Determination Application (NetView Hardware Monitor Facility)
ACF/VTAM	(Advanced Communications Function for the) Virtual Telecommunications Access Method	NPM	NetView Performance Monitor
ASCII	American National Standard Code for Information Interchange	NTO	Network Terminal Option
CCU	central control unit	RRT	Resource Resolution Table
CDF	configuration data file	VM	Virtual Machine
CLDP	controller load/dump program	VM/SP	Virtual Machine/System Product
CP	control programs	VM/XA	Virtual Machine/Extended Architecture
DIF	Disk Function	VSE	Virtual Storage Extended
DII	disk IPL information	VSE/AF	Virtual Storage Extended/Advanced Function
EPO	emergency power-off	VSE/SP	Virtual Storage Extended/System Product
IML	initial microcode load function	VSE/SP HPO	Virtual Storage Extended/System Product High Performance Option
IPL	initial program load function	VTAM	(Advanced Communication Function for the) Virtual Telecommunications Access Method
MLM	modify load module		
MOSS	maintenance and operator subsystem		
NCP	(Advanced Communication Function for the) Network Control Program		

Abbreviations

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.

alarm. A message sent to the MOSS operator 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.

alone. Status of MOSS when the later is operational while the CCU control program is not loaded or no longer operational.

communication controller. A communication control unit that is controlled by a program stored and executed in the unit. Examples are the IBM 3705, IBM 3725/3726, IBM 3720, and IBM 3745 models 130, 150, 170, 210, 310, 410, and 610.

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 customer's operator and service personnel.

control program. A computer program designed to schedule and to supervise the execution of programs of the controller.

customer engineer. See IBM service representative.

diskette management. Also referred to as remote load activation. MOSS function which allows loading and activation of NCP or PEP on a remote communication controller through switched subarea links.

error recovery. The process of correcting or bypassing the effects of a fault to restore a computer system to a prescribed condition.

fallback. In twin backup mode, a state where the traffic of the failing CCU has been redirected to the second one.

In standby mode, a state where the traffic of the failing CCU has been redirected to the standby CCU after it is IPLed.

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 the 3745 control program to commence operation.

Link Problem Determination Aid (LPDA). A series of test commands executed by an IBM DCE to determine which of various network components may be causing an error in the network.

maintenance and operator subsystem (MOSS). The part of the controller that provides operating and servicing facilities to the user'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.

NetView. An IBM licensed program used to monitor a network, manage it, and diagnose its problems.

NetView Performance Monitor (NPM). An IBM licensed program that uses VTAM to record performance data collected for various devices in a network.

network. See *user application network*.

Network Control Program (NCP). An IBM licensed program that provides communication controllers supports 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*.

offline. Status of MOSS when the later is not connected to the CCU control program.

online. Status of MOSS when the later is connected to the CCU control program.

Glossary

single. Configuration with one CCU.

service representative. See IBM service representative

switchback. Operation to reset a twin backup configuration from fallback to initial state.

twin. Configuration with two CCUs.

twin-dual. Mode of operation with two CCUs operating simultaneously in two distinct subareas.

twin-backup. Mode of operation identical to twin-dual with fallback capability.

twin-standby. Mode of operation with one CCU active and the other in standby, ready to take over.

Index

Numerics

3745 EC level 1-2

A

add load module with timed IPL 2-9

alarm 2-15

alert 2-15

AUTO DUMP/LOAD 2-5, 2-9, 2-10

C

cancel timed IPL 2-8

CCU

selection (MOSS) 3-23

D

DII function

rename load module management 3-20, 3-22

timed IPL information 2-13

diskette management

MOSS DII function 3-20

display

MOSS DII function 2-13

timed IPL on MOSS console 2-13

timed IPL on VTAM console 2-12

G

generation of NCP 3-6

I

initial loading

See diskette management

IPL

timed 1-1, 2-1

K

keyword

ACTION=RENAME 3-10

ACTION=SETTIME 2-5

IPLTIME=(mm/dd/yy, hh:mm) 2-5

IPLTIME=CANCEL 2-8

LOADMOD=xxxxxxx 2-7

NOTIFY=xxxx 2-7

L

level (required)

3745 engineering change 1-2

level (required) (continued)

MVS/ESA 1-2

NetView 1-2

VM/ESA 1-2

VSE/ESA 1-2

VTAM 1-2

load module

rename 1-1, 3-1, 3-2

M

MOSS

CCU selection 3-23

DII function 3-20

rename load module 3-22

timed IPL information 2-13

MVS/ESA version/level 1-2

N

NCP

generation 3-6

version/level 1-2

NCPLOAD 3-7, 3-8, 3-12, 3-14

NetView

version/level 1-2

NPM (NetView Performance Monitor) 3-7, 3-8, 3-12, 3-14

P

purge load module with timed IPL

R

recovery action

after step 10 3-19

after step 6 3-11

after step 7 3-13

after step 8 3-15

after step 9 3-17

from MOSS console 3-20

remote initial loading

remote load activation

See diskette management

remote loading/activation (RLA)

See diskette management

rename load module

description 1-1, 3-1

management (MOSS DII function) 3-22

procedures 3-2

VTAM command 3-10

replace load module with timed IPL 2-10

RLA

See diskette management

RRT (Resource Resolution Table) 3-7, 3-8, 3-12, 3-14

S

scheduled automatic reload 1-1, 1-3

See also timed IPL

set

timed IPL 2-5

T

time specification examples 2-5

timed IPL

add load module 2-9

alarm 2-15

alert 2-16

cancel 2-8

description 1-1, 2-1

display (MOSS console) 2-12

display (VTAM console) 2-12

display information 2-12

procedures 2-2

purge a load module 2-11

replace load module 2-10

set 2-5

V

VM version/level 1-2

VSE version/level 1-2

VTAM

MODIFY LOAD command 1-3

timed IPL information display 2-12

version/level 1-2

VTAMLST 3-7, 3-8, 3-12, 3-14

Readers' Comments — We'd Like to Hear from You

**3745 Communication Controller
All Models
Guide to Timed IPL and
Rename Load Module
Publication No. SA33-0178-00**

Please send us your comments concerning this book. We will greatly appreciate them and will consider them for later releases of the present book.

If you prefer sending comments by FAX or electronically, use:

- FAX: 33 4 93 24 77 97
- E-mail: FRIBMQF5 at IBMMAIL
- IBM Internal Use: LGERCF at LGEPROFS
- Internet: rcf_lagaude@vnet.ibm.com

In advance, thank you.

Your comments:

Name

Address

Company or Organization

Phone No.



Fold and Tape

Please do not staple

Fold and Tape

PLACE
POSTAGE
STAMP
HERE

IBM France
Centre d'Etudes et Recherches
Service 0798 - BP 79
06610 La Gaude
France

Fold and Tape

Please do not staple

Fold and Tape



Printed in the United States of America
on recycled paper containing 10%
recovered post-consumer fiber.

SA33-0178-00

