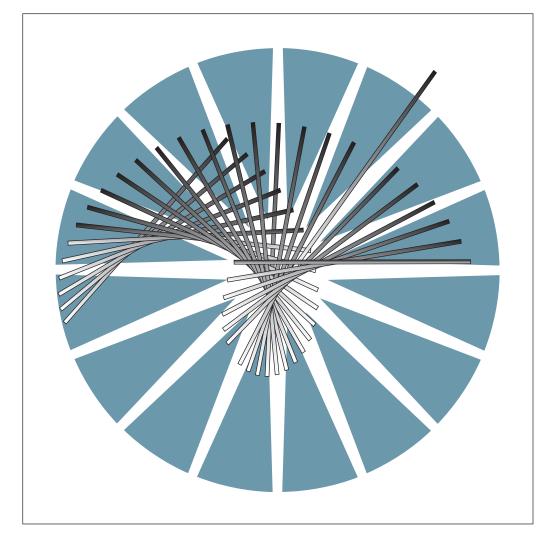
3746 Nways Multiprotocol Controller Models 900 and 950 Multiaccess Enclosure (MAE)

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MAE Migration Guide: Feature Code 3000 to Feature Code 3001



3746 Nways Multiprotocol Controller Models 900 and 950 Multiaccess Enclosure (MAE)

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MAE Migration Guide: Feature Code 3000 to Feature Code 3001

Note!

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

Second Edition (July 1998)

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About this Guide

This guide describes the procedures for migrating MAE configuration parameters to the service processor, after it has been upgraded to microcode level F12430. These procedures are part of the process in upgrading the Multiaccess Enclosure (MAE) feature code 3000 to MAE feature code 3001. However, any hardware or microcode installation is performed by an IBM service representative, and is not described in this guide.

Note: This guide is intended for existing MAE feature code 3000 installations. If you are installing an MAE for the first time, you do not need this guide.

Conventions Used in This Guide

Throughout this guide, the term:

3746Refers to IBM 3746 Nways Multiprotocol Controller Models 900 and
950.MAERefers to the Multiaccess Enclosure.CCMRefers to the Controller Configuration and Management program.IPRefers to Internet Protocol.APPN/HPRRefers to Advanced Peer-to-Peer Networking/High Performance
Routing

Who Should Read This Guide

This guide is intended for:

- Customer Engineers
- Network architects
- Network planners
- Network operators.

How This Guide Is Organized

This guide is organized into the following chapters:

- Chapter 1, "Overview of MAE Migration" on page 1-1.
- Chapter 2, "Recording MAE Configuration Parameters" on page 2-1.
- Chapter 3, "Migration Path Via a Standalone Workstation" on page 3-1.
- Chapter 4, "Migration Path Via an Upgraded Service Processor" on page 4-1.

An index follows at the end of the book.

Where to Find More Information

You can find more information on CCM, the MAE, and the service processor in the following publications:

- *Overview*, GA33-0180.
- CCM: Users Guide, SH11-3081.
- Basic Operations Guide, SA33-0177.
- Planning Guide, GA33-0457.

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Chapter 1. Overview of MAE Migration

The procedures in this guide are intended to help you in upgrading Multiaccess Enclosure (MAE) feature code 3000 to MAE feature code 3001.

There are two basic steps for achieving this upgrade:

- Migrating existing 3746 and MAE configurations to the new CCM of the upgraded service processor. This is described in detail in this guide. The procedures in the following chapters are designed specifically for you, and do not require the supervision of an IBM service representative.
- Installing both the hardware connection between the MAE and the 3746, and the new level of microcode F12430 (or later). This the responsibility of an IBM service representative, and is not described in this guide.

Upgrading MAE Feature Code 3000 to Feature Code 3001

Upgrading your MAE feature code 3000 to feature code 3001 provides the following:

- A hardware connection between the MAE and the 3746 switch for IP traffic. This increases the potential traffic throughput over five-fold.
- A microcode upgrade from microcode level F12380x¹ to F12430. This establishes a single IP control point for the 3746 and the MAE.

Prerequisites for Upgrading MAE FC 3000 to MAE FC 3001

To upgrade the microcode level from FC 3000 to FC 3001, you must have service processor feature code 5052 (type 7585, with a 2 GB hard disk drive, CD-ROM drive, and 96 MB memory expansion). Service processor feature code 5021 (type 9585 or 3172) cannot be used for this microcode upgrade.

MAE Hardware Connection

The MAE with direct attachment to the 3746 controller switch, feature code 3001, includes a switch adapter card installed into the MAE and a switch interface extension installed into a 3746 processor slot. For IP traffic, this direct attachment frees the token-ring connection required for traffic routed between the MAE and the 3746. Depending on the packet size and number of processors, the IP throughput between the MAE and the other enclosures of the 3746 is increased over five-fold, compared to dual token-ring connections.

Service Processor Microcode Upgrade

In the current level of microcode (D46130x or F12380x) on your service processor, CCM runs and maintains the configurations for the 3746. At the same time, the MAE Configuration Program runs and maintains the configurations for the MAE. With the new level of microcode (F12430) on your service processor, CCM runs and maintains configurations for both the 3746 and the MAE.

¹ Or earlier microcode versions, including D46130x.

Single IP Control Point

Upgrading the MAE feature code 3000 to feature code 3001 and installing microcode level F12430 on your service processor establishes a single IP control point for the 3746 processors and the MAE. A single IP control point allows you to configure both the 3746 processors and the interfaces of the MAE, primarily through CCM.

Preparing for MAE Migration

Before upgrading the microcode on your service processor and installing the hardware connection between the MAE and the 3746, both CCM and MAE configurations must be saved to diskette.

— Warning!

Make sure that you create backup diskettes of configuration files. Installing new microcode reformats the hard disk of the service processor. Check with your IBM service representative that all your configuration files have been saved before new microcode is installed.

Importing Existing Configurations into the New Version of CCM

After the F12430 microcode has been installed on the service processor, your existing configurations must be imported into CCM and saved.

— Important!

The 3746 configuration parameters will be automatically read by the new CCM. However, although all of the 3746 APPN/HPR configuration parameters will be migrated, some MAE IP configuration parameters will be lost. For more information, see "IP Parameters for MAE IP Addresses Lost" on page 2-50.

This guide includes two possible migration paths for importing your existing configurations into the new version of CCM, and for recovering your MAE IP configuration parameters. The two migration paths are as follows:

- Via a standalone workstation
- Via an upgraded service processor.

Two MAE Migration Paths

As stated previously, there are two possible migration paths, via a standalone workstation, or via an upgraded service processor. You can choose the path that better suits your needs and the resources that you have available.

For an overview of the two alternative migration paths, see Figure 1-1 on page 1-4 (migration via a standalone workstation), and Figure 1-2 on page 1-5 (migration via an upgraded service processor).

Migration Path Via a Standalone Workstation

The steps to this migration path are as follows:

- 1. Before migration of the MAE, open the MAE Configuration Program (feature code 3000) and record MAE IP configuration parameters in the worksheets provided in this book (see Chapter 2, "Recording MAE Configuration Parameters" on page 2-1).
- 2. Export your existing CCM configurations to diskette.
- 3. Export your existing MAE configurations to diskette.
- 4. Install the new version of CCM and the MAE Configuration Program (feature code 3000) on a standalone workstation. Both programs are available on the CD-ROM that comes with this guide.
- 5. Import your existing CCM and MAE configurations from diskette.
- 6. Open your existing CCM configurations, and wherever needed, manually re-enter the MAE IP configuration parameters from the worksheets.
 - **Note:** You can also run the MAE Configuration Program on your workstation and use it to update the configuration parameters directly in CCM.
- 7. Save the configurations in CCM.
- 8. Export the new CCM configurations to diskette.
- 9. On the upgraded service processor, open the new version of CCM and import the new CCM configurations from diskette.
- 10. Save the new configurations in CCM.
- Advantages: Using this migration path reduces the down-time of network operations during the installation of the MAE hardware connection and the new microcode.

For an overview of this migration path, see Figure 1-1 on page 1-4.

To follow this migration path, see Chapter 3, "Migration Path Via a Standalone Workstation" on page 3-1.

Migration Path Via an Upgraded Service Processor

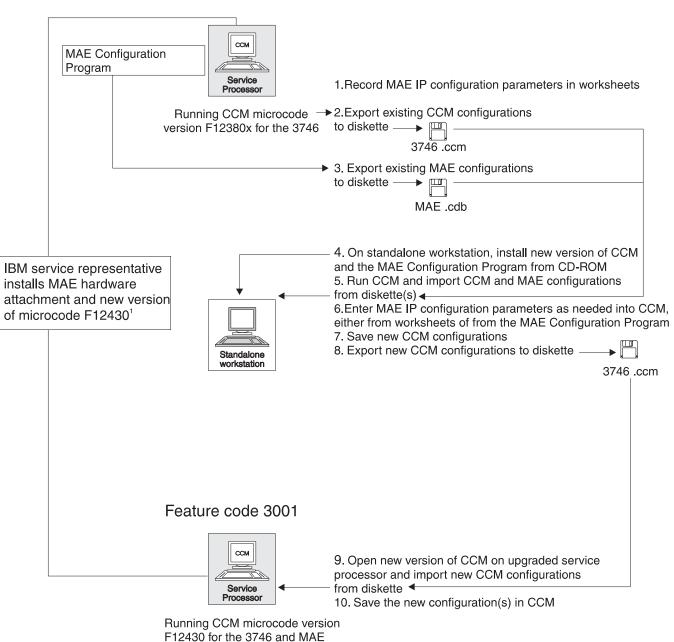
The steps to this migration path are as follows:

- 1. Open the MAE Configuration Program (feature code 3000) and record the MAE IP configuration parameters in the worksheets provided in this book (see Chapter 2, "Recording MAE Configuration Parameters" on page 2-1).
- 2. Export your existing MAE configurations to diskette.
- 3. After the microcode upgrade has been completed, open the new version of CCM and import the MAE configurations from diskette.
- 4. Manually re-enter the MAE IP configuration parameters as needed from the worksheets.
- 5. Save the new configuration(s) in CCM.
- Advantages: This migration path does not require the additional resource of a standalone workstation, or repeated installations of the new CCM.

For an overview of this migration path, see Figure 1-2 on page 1-5.

To follow this migration path, see Chapter 4, "Migration Path Via an Upgraded Service Processor" on page 4-1.

Migration path via a standalone workstation



Feature code 3000

Figure 1-1. Migration Path Via Standalone Workstation

¹Installing the hardware for the MAE connection to the 3746 switch is described in *Multiaccess Enclosure Installation and Maintenance*, SY33-2124.

Migration path via an upgraded service processor

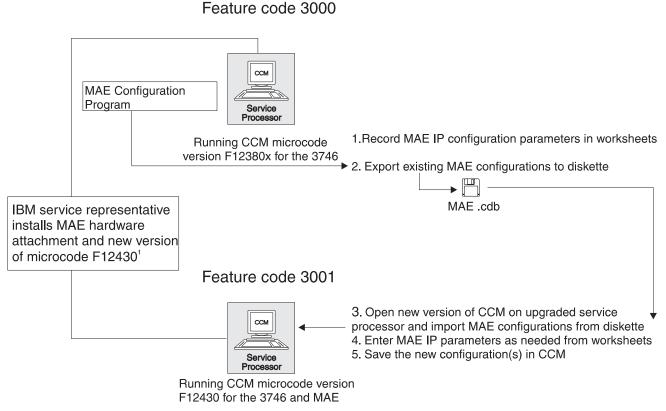


Figure 1-2. Migration Path Via an Upgraded Service Processor

¹Installing the hardware for the MAE connection to the 3746 switch is described in *Multiaccess Enclosure Installation and Maintenance*, SY33-2124.

Preparation Time and Installation Time

You should allow time for recording any MAE IP configuration parameters in the worksheets and saving configuration files on diskette. Make sure that the worksheets are filled in and configuration files have been saved on diskette before new microcode is installed onto your service processor.

Configuration Parameters Migration

Migrating the MAE configuration parameters to the upgraded service processor involves the following steps:

- Recording MAE IP parameters on the worksheets in this guide.
- Saving 3746 configurations to diskette (this is required only if your migration path is via a standalone workstation).
- Saving MAE configurations to diskette.

Procedure Time

- Recording configuration parameters into the worksheets provided depends on the size and complexity of your network. You must record the MAE IP configuration parameters before the new hardware and microcode is installed.
- Saving configuration parameters to diskette takes about ten minutes.

For recording MAE configuration parameters, see Chapter 2, "Recording MAE Configuration Parameters" on page 2-1. Please take a minute to review the worksheets contained in this chapter.

Hardware Connection and Microcode Upgrade

Installing the new MAE hardware connection and upgrading your current level of microcode to F12430 is performed by an IBM service representative. Microcode and hardware installation includes the following:

- Level of microcode upgrade to F12430.
- LIC install of the Network Node Processor (NNP).
- MAE direct hardware connection install to the 3746 switch.
- IML for 3746 and the MAE.

Procedure Time

- · Micro-code installation takes a minimum of one hour and fifteen minutes.
- Installing the MAE hardware attachment takes approximately ten minutes.
- To re-IML the 3746 and the MAE takes between ten to twenty minutes (maximum).

Note: The new CCM configurations must be activated before the IML.

If you want more information on this procedure, see *Multiaccess Enclosure Installation and Maintenance*, SY33-2124.

Importing and Saving Configurations Procedure

Importing and saving configurations includes the following:

- Importing 3746 configurations from diskette (required only for migration via standalone workstation).
- · Importing MAE configurations from diskette.
- Saving new CCM configurations on upgraded service processor.

Procedure Time

 Importing configuration parameters and saving new configurations takes approximately thirty minutes.

MAE Migration Checklist

Before proceeding with the MAE migration, coordinate with your IBM service representative to establish the following:

- 3746 and MAE configurations are saved to diskette (with backup copies).
- MAE IP configuration parameters are recorded in the worksheets as needed.
- Time is scheduled for microcode and hardware installation.

Please check one of the preparation lists below depending on your migration path (for more information, see "Two MAE Migration Paths" on page 1-2).

MAE Migration Checklist Via Upgraded Service Processor

For a migration path via an upgraded service processor, you will need the following:

- MAE Migration Guide, SA33-0475 (this guide), and CD-ROM P/N 26L0246.
- Blank diskettes for saving configuration files, 1.44 MB, double-density (other types of diskette will not work with the service processor).

MAE Migration Checklist Via Standalone Workstation

For a migration path via a standalone workstation, you will need the following:

- MAE Migration Guide, SA33-0475 (this guide), and CD-ROM P/N 26L0246.
- Blank diskettes for saving configuration files, 1.44 MB, double-density (other types of diskette will not work with the service processor).
- A Pentium standalone workstation, running OS/2 Warp 3 (minimum), with VGA (for CCM) or SVGA (for CCM and the MAE Configuration Program).

Go to Chapter 2, "Recording MAE Configuration Parameters" on page 2-1.

Chapter 2. Recording MAE Configuration Parameters

This chapter provides a set of worksheets for recording MAE IP parameters from the MAE Configuration Program (feature code 3000). You can use these worksheets to re-enter the configuration parameters as you need, once the new hardware connection has been installed between the 3746 and the MAE, and the level of microcode has been upgraded.

– Important!

Only some of the MAE IP parameters are affected by the microcode upgrade. You will not need to record the parameters for APPN/HPR, or other parameters different from IP.

During migration, some configuration parameters will be lost, some will be replaced by the new version of CCM, and some will be lost completely¹. For the purpose of this guide, the configuration parameters are divided into different groups, according to protocols. For example, OSPF parameters form one group, BGP parameters form another group, and so on.

Configuration Parameter Worksheets

Each set of MAE IP configuration parameters that are affected by the microcode upgrade has a corresponding worksheet. Each worksheet is divided into two columns (see for example "General MAE IP Parameters Replaced by 3746 Parameters After Migration" on page 2-4). Below both columns is a table which lists the configuration parameter fields in the MAE Configuration Program, and their equivalent fields in the new version of CCM. The left column above the table with the header **MAE Configuration Program** shows the steps that you make to display the parameter fields in the program. The right column with the header **CCM** shows the steps that you make to display the screens in the new version of CCM.

- Careful!

The parameter fields listed in the left column under **MAE Configuration Program** are not shown in the order displayed on the screen. The parameter fields listed in the right column under **CCM** are shown in the order displayed on the screen.

¹ Specifically, RIP V2 parameters that the new level of microcode does not support yet. You can record these if you want for the next code upgrade.

Getting Started

- Step 1. On your service processor in MOSS-E View, open the 3746 menu.
- Step 2. Click Multiaccess Enclosure (MAE) Management.
- Step 3. Double-click Manage Multiaccess Enclosure.

E Erss 840	h Davinc/3746-9x0/	MultiAccess Enclosi	ire (MAE) Ma	anagement	8	
Status		Consoles				
	MAE IP addres:	<u>Configurator</u>	<u>M</u> OS	ASCI1	<u>D</u> ebug	
	9.100.77.94	Change Management				
11 ME 11	Apply	Upgrade code	Backup co	de <u>F</u>	lestore code	
IP addre SP0T4K3 CA12222 RIP2222 DA12222 Reading	Messages sses on the Serv : 9.100.77.91 (Sl 2: 9.100.77.92 (I 2: 9.100.77.93 (2 2: 9.100.77.93 (2 2: 9.100.77.94 (2 the current VPDs VPD on the Multi/	ice Lan: P) NNP) 2080) 2216) on the MAE, plea		•		
Close	Help					

- Step 4. In the Multiaccess Enclosure (MAE) Management window, click the Configurator button.
- **Step 5.** The MAE Configuration Program opens.

atabase: D:Devin@config.edb onfiguration: config flouter Devices System Protocols NetBIOS Bridging Features	
onliguration: config Route: Tovices System Protocols NetBIOS Bridging	
Roter Devices System Protocols NetBIOS Bridging	
 Devices System Protocols NetBIOS Bridging 	
≪ System ∼ Protocols ≪ NetBIOS Bridging	
 Protocols NetBIOS Bridging 	
NetBIOS Bridging	
NetBIOS Bridging	
Bridging	
Features	
reatures	

Figure 2-1. Navigation window of the MAE Configuration Program

- **Step 6.** Follow the steps described in each worksheet to display the configuration parameters, for example, "MAE Configuration Program" on page 2-5.
- **Step 7.** Enter the parameter values on the screen into the **Parameter** column of the worksheet.

General MAE IP Parameters Replaced by 3746 Parameters After Migration

Some MAE IP parameters that you have already configured in the MAE Configuration Program will be replaced by the default parameters in the new version of CCM. The parameters affected are as follows:

- "IP PPP NCP Default Parameters" on page 2-6.
- "IP Bootp Forwarding Address Parameters" on page 2-7.
- "OSPF General/Multicast Parameters" on page 2-8.
- "OSPF Imported/Default Route Parameters" on page 2-9.
- "RIP General Parameters" on page 2-11.
- "BGP General Parameters" on page 2-12.
- "SNMP Parameters" on page 2-13.

General IP Parameters

There are nine general MAE IP to re-enter (if needed) after microcode upgrade.

Before Code Upgrade	After Microcode Upgrade
 Follow the steps in the MAE Configuration Program column on the left. 	 After the code upgrade has been completed, open the new version of CCM.
2. Write the parameter(s) on the screen in the Parameter column.	 Enter the parameters that you have recorded. Use the Entered √ column for each parameter that you enter.



- 1 Navigation window •
- 2 Router folder •
- 3 Protocols folder •
- 4 IP folder •
- 5 Select General

ССМ

- 1 Configuration menu •
- 2 IP menu •
- 3 Select General...

MAE Configuration Program	Parameter	Entered \checkmark	ССМ
Enable directed-broadcast			Enable forwarding of directed broadcast
Enable per-packet-multipath			Enable per packet multipath (for OSPF only)
Forward source-routed packets			Enable source-routing
Same Subnet			Enable same subnet
Routing table size			Routing table entries in the NN
Cache size			Number of destination addresses in the cache per processor
Reassembly buffer size			Reassembly buffer size
Locally originated IP packet time-to-live			IP default TTL value
Router ID			Router ID (optional)

1. In the new version of CCM, the maximum amount of routing table entries is 768. Make sure you allow for this in the new version of CCM with the number that you have in this field.

IP PPP NCP Default Parameters

There are four IP PPP NCP default parameters to re-enter (if needed) after microcode upgrade.

 Navigation window Router folder 		1 Confi 2 IP me	iguration menu ▼ enu ▼	
3 Devices folder •		3 Selec	3 Select PPP NCP Defaults	
4 Adapters folder ▼				
5 Select Interfaces •				
6 In the Configuration wind PPP interface ▼	ow, select a			
7 Click Configure •				
7 Click Configure 8 Select the LCP tab				
-	eters			
8 Select the LCP tab Table 2-2. IP PPP NCP Parameter	eters Parameter	Entered √	ССМ	
8 Select the LCP tab Table 2-2. IP PPP NCP Param MAE Configuration Program		Entered √	CCM Retry timer	
8 Select the LCP tab <i>Table 2-2. IP PPP NCP Param</i> MAE Configuration Program		Entered √		
8 Select the LCP tab <i>Table 2-2. IP PPP NCP Param</i> MAE Configuration Program Retry timer		Entered √	Retry timer	

Т

IP Bootp Forwarding Address Parameters

forwarding

There are three IP bootp forwarding address parameters to re-enter (if needed) after microcode upgrade.

٦

MAE Configuration Program		ССМ			
1 Navigation window ▼		1 Conf	iguration menu ▼		
2 Router folder •		2 IP m	2 IP menu 🔻		
3 Protocols •		3 Selec	ct Bootp forwarding		
4 IP folder ▼					
5 Bootp/DHCP Forwarding	folder v				
6 Select General					
<u></u>					
Table 2-3. Bootp Forwarding Ac		s Entered √	ССМ		
MAE Configuration Program	Parameter				
			Enable bootp forwarding		
Enable bootp/DHCP forwarding					
Maximum hops			Maximum hops		

Τ

OSPF General/Multicast Parameters

There are five OSPF general/multicast parameters to re-enter (if needed) after microcode upgrade.

AE Configuration Program	CCM
1 Navigation window •	1 Configuration menu ▼
2 Router folder •	2 OSPF menu ▼
3 Protocol folder •	3 Select General/multicast
4 IP folder ▼	
5 OSPF folder ▼	
6 Select General	

Τ

MAE Configuration Program	Parameter	Entered $$	ССМ
Enabled			Enable OSPF
Number of external routes			Number of AS external routes
Number of OSPF routers			Number of OSPF routers

Also in Configuration Program		ССМ			
1 Navigation window •		1 Configuration menu •			
2 Router folder •		2 OSPI	F menu ▼		
3 Protocol folder •		3 Selec	t General/multicast		
4 IP folder ▼					
5 OSPF folder •					
6 Select Multicast Forward	ing				
6 Select Multicast Forward <i>Table 2-5. Other General/Multic</i>	-				
	-	Entered √	ССМ		
Table 2-5. Other General/Multic	casts Parameters	Entered √	CCM Enable intra-area multicasting		

OSPF Imported/Default Route Parameters

There are fifteen OSPF imported/default route parameters to re-enter (if needed) after microcode upgrade.

MAE Configuration Program

- 1 Navigation window •
- 2 Router folder •
- 3 Protocol folder v
- 4 IP folder •
- 5 OSPF folder •
- 6 Select AS Boundary Routing

ССМ

- 1 Configuration menu •
- 2 OSPF menu v
- 3 Select Imported/default routes...

MAE Configuration Program	Parameter	Entered \checkmark	ССМ
AS boundary enabled			Enable routes import
Import static routes enabled			Import static routes
Import direct routes enabled			Import direct routes
Import RIP routes enabled			Import RIP routes
Import subnet routes enabled			Import subnet routes
Import BGP routes enabled			Import BGP routes
BGP auto-tag generation enabled			Enable BGP auto-tag generation
Always originate			Always originate default route
Originate if BGP routes available			Originate default route if BGP routes available
From AS number			From AS number
To network number			To network IP address
Originate in OSPF as type			Originate AS type
Default route cost			Default route cost
Forwarding address			Forwarding network IP address

Iso in Configuration Pro	- .	CCM			
1 Navigation window ▼		1 Configuration menu ▼			
2 Router folder •		2 OSPF	2 OSPF menu ▼		
3 Protocol folder •		3 Select	3 Select Imported/default routes		
4 IP folder ▼					
F					
5 OSPF folder •					
 5 OSPF folder • 6 Select Protocol Comparis 	son				
-		Parameters			
6 Select Protocol Comparis		Parameters Entered √	ССМ		

RIP General Parameters

To network number

routes available

Originate default route if OSPF

Originate default cost (1-16)

Г

There are seven RIP general parameters to re-enter (if needed) after microcode upgrade.

٦

1 Navigation window ▼		1 Configuration menu •	
2 Router folder •		2 RIP menu v	
3 Protocol folder •		t General	
eters			
<u> </u>			
	'am	1 Confi 2 RIP n 3 Select	

 Navigation window • Router folder • Protocol folder • IP folder • RIP folder • Select Originate RIP Default 		 Configuration menu RIP menu Select General 		
6 Select Originate RIP Defa	ault			
6 Select Originate RIP Defa Table 2-9. Other RIP General P				
		Entered √	ССМ	
Table 2-9. Other RIP General I	Parameters	Entered √	CCM Always originate default route	
Table2-9. Other RIP General IMAE Configuration Program	Parameters	Entered √		

To network number

routes available

Default route cost

Originate default route if OSPF

BGP General Parameters

There are three BGP general parameters to re-enter (if needed) after microcode upgrade.

IAE Configuration Prog		CCM	
1 Navigation window •		1 Conf	iguration menu v
2 Router folder •		2 BGP	menu 🔻
3 Protocol folder •		3 Selec	t General/excluded AS
4 IP folder ▼			
5 BGP4 folder •			
6 Select General			
Table 2-10. BGP General Para	meters		
Table 2-10. BGP General Para	meters Parameter	Entered √	ССМ
MAE Configuration Program		Entered √	CCM Enable BGP
		Entered √	

Т

SNMP Parameters

There are four SNMP to re-enter (if needed) after microcode upgrade.

AE Configuration Program		CCM		
1 Navigation window ▼		1 Configuration menu ▼		
2 Router folder •		2 Select SNMP		
3 System folder •				
4 SNMP Config folder •				
5 Communities folder •				
6 Select General				
Table 2-11. SNMP Parameters				
MAE Configuration Program	Parameter	Entered \checkmark	ССМ	
Name			Access type	
Access type			Community name	
se the following table if you ha		-		
MAE Configuration Program	ave additional SI	NMP parameters	ССМ	
MAE Configuration Program		-		
MAE Configuration Program		-	CCM Access type	
MAE Configuration Program Name Access type		-	CCM Access type	
MAE Configuration Program Name Access type Name		-	CCM Access type Community name	
MAE Configuration Program Name Access type Name Access type		-	CCM Access type Community name Access type Community name	
		-	CCM Access type Community name Access type	
MAE Configuration Program Name Access type Name Access type Name		-	CCM Access type Community name Access type Community name Access type Access type Access type	
MAE Configuration Program Name Access type Name Access type Name Access type		-	CCM Access type Community name Access type Community name Access type Access type Access type	
MAE Configuration Program Name Access type Name Access type Name Access type Name Access type		-	CCM Access type Community name Access type Community name Access type Community name Access type Community name	
MAE Configuration Program Name Access type Name Access type Name		-	CCM Access type Community name Access type Community name Access type Community name Access type Access type Access type Access type Access type Access type Access type	

Also in Configuration Program	Also in CCM
1 Navigation window •	1 Configuration menu ▼
2 Router folder •	2 Select SNMP
3 System folder ▼	
4 SNMP Config folder ▼	
5 Communities folder •	
6 Select Details •	
7 Configuration window •	
8 Addresses button	

Table 2-12. More SNMP Parameters				
MAE Configuration Program	Parameter	Entered \checkmark	ССМ	
IP address			UDP transport: Network IP address	
IP mask			UDP transport: Network mask	

Use the following table if you have additional SNMP Parameters:

MAE Configuration Program	Parameter	Entered \checkmark	ССМ
IP address			UDP transport: Network IP address
IP mask			UDP transport: Network mask
IP address			UDP transport: Network IP address
IP mask			UDP transport: Network mask
	-		
IP address			UDP transport: Network IP address
IP mask			UDP transport: Network mask
	·	·	·
IP address			UDP transport: Network IP address

General MAE IP Parameters Lost After Migration

Some MAE IP parameters that you have already configured in the Configuration Program are lost after the new microcode is installed. The parameters affected are as follows:

- "IP Static Route Parameters" on page 2-16.
- "IP Access Control Parameters" on page 2-18.
- "IP Filter Parameters" on page 2-20.
- "IP Bootp Server Address Parameters" on page 2-21.
- "OSPF Virtual Link Parameters" on page 2-22.
- "OSPF Area Parameters" on page 2-24.
- "OSPF Multicast Group Address Parameters" on page 2-25.
- "RIP Route Acceptance Parameters" on page 2-26.
- "BGP Excluded AS Parameters" on page 2-27.
- "BGP Receive Policy Parameters" on page 2-28.
- "BGP Send Policy Parameters" on page 2-30.
- "BGP Originate Policy Parameters" on page 2-32.
- "BGP Neighbor Parameters" on page 2-34.
- "BGP Aggregate Route Parameters" on page 2-36.

IP Static Route Parameters

There are up to ten parameters lost during migration for each IP static route.

t Parameters I os	3 Selec	 Configuration menu • IP menu • Select Static Routes 	
Parameter	Entered √	ССМ	
		Destination network	
		Destination mask	
		Next hop address 1	
		Cost 1	
		Next hop address 2	
		Cost 2	
		Next hop address 3	
		Cost 3	
		Next hop address 4	
		3 Select t Parameters Lost	

Use the following table if you have additional IP static routes parameters:

MAE Configuration Program	Parameter	Entered $$	ССМ
Destination network			Destination network
Destination mask			Destination mask
Next hop address 1			Next hop address 1
Cost 1			Cost 1
Next hop address 2			Next hop address 2
Cost 2			Cost 2
Next hop address 3			Next hop address 3
Cost 3			Cost 3
Next hop address 4			Next hop address 4
Cost 4			Cost 4
		- I	
Destination network			Destination network
Destination mask			Destination mask
Next hop address 1			Next hop address 1
Cost 1			Cost 1
Next hop address 2			Next hop address 2
Cost 2			Cost 2
Next hop address 3			Next hop address 3
Cost 3			Cost 3
Next hop address 4			Next hop address 4
Cost 4			Cost 4
Destination network			Destination network
Destination mask			Destination mask
Next hop address 1			Next hop address 1
Cost 1			Cost 1
Next hop address 2			Next hop address 2
Cost 2			Cost 2
Next hop address 3			Next hop address 3
Cost 3			Cost 3
Next hop address 4			Next hop address 4
Cost 4			Cost 4

IP Access Control Parameters

There are nine parameters lost during migration for each IP access control.

AE Configuration Program		ССМ			
 Navigation window • Router folder • Protocols folder • 		1 Conf	1 Configuration menu ▼		
		2 IP menu ▼3 Select Access Control			
					4 IP folder •
5 Access Control folder •					
6 Select Global					
Table 2-14. IP Access Controls	l ist Parameters I				
MAE Configuration Program	Parameter	Entered \checkmark	ССМ		
MAE Configuration Program Access control	Parameter	Entered $$	CCM Access control type		
	Parameter	Entered $$			
Access control	Parameter	Entered √	Access control type		
Access control Source IP address	Parameter	Entered √	Access control type Source Network IP address		
Access control Source IP address Source mask address Destination IP address	Parameter	Entered √	Access control type Source Network IP address Source mask address		
Access control Source IP address Source mask address	Parameter	Entered √	Access control type Source Network IP address Source mask address Destination network IP address		
Access control Source IP address Source mask address Destination IP address Destination mask address	Parameter	Entered √	Access control type Source Network IP address Source mask address Destination network IP address Destination mask address		
Access control Source IP address Source mask address Destination IP address Destination mask address Protocol number from	Parameter	Entered √	Access control type Source Network IP address Source mask address Destination network IP address Destination mask address Protocol number from		

Use the following table if you have additional IP access controls list parameters:

MAE Configuration Program	Parameter	Entered \checkmark	ССМ
Access control			Access control type
Source IP address			Source Network IP address
Source mask address			Source mask address
Destination IP address			Destination network IP address
Destination mask address			Destination mask address
Protocol number from			Protocol number from
Protocol number to			Protocol number to
Port number from			Port number from
Port number to			Port number to
		·	
Access control			Access control type
Source IP address			Source Network IP address
Source mask address			Source mask address
Destination IP address			Destination network IP address
Destination mask address			Destination mask address
Protocol number from			Protocol number from
Protocol number to			Protocol number to
Port number from			Port number from
Port number to			Port number to
	·	·	
Access control			Access control type
Source IP address			Source Network IP address
Source mask address			Source mask address
Destination IP address			Destination network IP address
Destination mask address			Destination mask address
Protocol number from			Protocol number from
Protocol number to			Protocol number to
Port number from			Port number from
Port number to			Port number to

IP Filter Parameters

There are two parameters lost during migration for each IP filter.

IAE Configuration Program		ССМ			
 Navigation window • Router folder • Protocols folder • IP folder • Colort Filters 		1 Configuration menu v			
		2 IP me	 2 IP menu ▼ 3 Select Filters 		
		3 Selec			
5 Select Filters					
Table 2-15. IP Filters List Para	matara Laat				
MAE Configuration Program	Parameter	Entered √	ССМ		
IP Address			IP address		
Subnet Mask			Subnet mask		
lse the following table if you ha	ave additional IP	filters list param	ccm		
		-			
		-			
MAE Configuration Program		-	ССМ		
MAE Configuration Program		-	CCM IP address		
MAE Configuration Program		-	CCM IP address		
MAE Configuration Program IP Address Subnet Mask		-	CCM IP address Subnet mask		
MAE Configuration Program IP Address Subnet Mask IP Address Subnet Mask		-	CCM IP address Subnet mask IP address Subnet mask		
MAE Configuration Program IP Address Subnet Mask IP Address		-	CCM IP address Subnet mask IP address Subnet mask IP address IP address IP address		
MAE Configuration Program IP Address Subnet Mask IP Address Subnet Mask		-	CCM IP address Subnet mask IP address Subnet mask		
MAE Configuration Program IP Address Subnet Mask IP Address Subnet Mask IP Address Subnet Mask		-	CCM IP address Subnet mask IP address Subnet mask IP address Subnet mask		
MAE Configuration Program IP Address Subnet Mask IP Address Subnet Mask IP Address Subnet Mask IP Address		-	CCM IP address Subnet mask IP address Subnet mask IP address Subnet mask IP address IP address		
MAE Configuration Program IP Address Subnet Mask IP Address Subnet Mask IP Address Subnet Mask		-	CCM IP address Subnet mask IP address Subnet mask IP address Subnet mask		
MAE Configuration Program IP Address Subnet Mask IP Address Subnet Mask IP Address Subnet Mask IP Address		-	CCM IP address Subnet mask IP address Subnet mask IP address Subnet mask IP address IP address		

IP Bootp Server Address Parameters

Bootp/DHCP server address

One parameter is lost during migration for each IP bootp server.

MAE Configuration Progra	am	ССМ		
1 Navigation window •		1 Configuration menu ▼		
2 Router folder •	Router folder •		menu v	
3 Protocols folder •	3 Protocols folder •		Bootp Forwarding	
4 IP folder ▼				
5 Bootp/DHCP Forwarding f	older v			
6 Select Addresses				
Table 2-16. OSPF General/Multi	casts IP Bootp Sei	rver Address Para	meters Lost	
MAE Configuration Program	Parameter	Entered √	ССМ	

Use the following table if you have additional IP Bootp server address parameters:

MAE Configuration Program	Parameter	Entered \checkmark	ССМ
Bootp/DHCP server address			Bootp server address
Bootp/DHCP server address			Bootp server address
Bootp/DHCP server address			Bootp server address
Bootp/DHCP server address			Bootp server address
Bootp/DHCP server address			Bootp server address
Bootp/DHCP server address			Bootp server address
Bootp/DHCP server address			Bootp server address
Bootp/DHCP server address			Bootp server address
Bootp/DHCP server address			Bootp server address
Bootp/DHCP server address			Bootp server address
Bootp/DHCP server address			Bootp server address
Bootp/DHCP server address			Bootp server address
Bootp/DHCP server address			Bootp server address
Bootp/DHCP server address			Bootp server address
Bootp/DHCP server address			Bootp server address
Bootp/DHCP server address			Bootp server address

Bootp server address

OSPF Virtual Link Parameters

There are seven parameters lost during migration for each OSPF virtual link.

 Navigation window • Router folder • Protocols folder • 		1 Confi	1 Configuration menu ▼	
		2 OSPF menu ▼		
		3 Selec	3 Select Virtual links	
4 IP folder ▼				
5 OSPF folder •				
6 Select Virtual Links				
Table 2-17. OSPF Virtual Link I	Parameters Lost			
	Parameters Lost Parameter	Entered √	ССМ	
MAE Configuration Program		Entered √		
MAE Configuration Program Endpoint Router ID		Entered √		
MAE Configuration Program Endpoint Router ID Retransmit interval		Entered √	Router ID (neighbor IP address)	
MAE Configuration Program Endpoint Router ID Retransmit interval Transmit delay		Entered √	Router ID (neighbor IP address) Retransmit interval	
MAE Configuration Program Endpoint Router ID Retransmit interval Transmit delay Dead router interval		Entered √	Router ID (neighbor IP address) Retransmit interval Transmit delay	
Table2-17. OSPF Virtual Link IMAE Configuration ProgramEndpoint Router IDRetransmit intervalTransmit delayDead router intervalHello intervalAuthen. key		Entered √	Router ID (neighbor IP address) Retransmit interval Transmit delay Dead interval	

Use the following table if you have additional OSPF virtual link parameters:

MAE Configuration Program	Parameter	Entered $$	ССМ
Endpoint Router ID			Router ID (neighbor IP address)
Retransmit interval			Retransmit interval
Transmit delay			Transmit delay
Dead router interval			Dead interval
Hello interval			Hello interval
Authen. key			Authentication key
Link's transit area			Link's transit area
Endpoint Router ID			Router ID (neighbor IP address)
Retransmit interval			Retransmit interval
Transmit delay			Transmit delay
Dead router interval			Dead interval
Hello interval			Hello interval
Authen. key			Authentication key
Link's transit area			Link's transit area
Endpoint Router ID			Router ID (neighbor IP address)
Retransmit interval			Retransmit interval
Transmit delay			Transmit delay
Dead router interval			Dead interval
Hello interval			Hello interval
Authen. key			Authentication key
Link's transit area			Link's transit area
Endpoint Router ID			Router ID (neighbor IP address)
Retransmit interval			Retransmit interval
Transmit delay			Transmit delay
Dead router interval			Dead interval
Hello interval			Hello interval
Authen. key			Authentication key
Link's transit area			Link's transit area

OSPF Area Parameters

There are four parameters lost during migration for each OSPF area.

 Navigation window • Router folder • Protocols folder • 		 Configuration menu ▼ OSPF menu ▼ Select Areas 	
 3 Protocols folder * 4 IP folder * 5 OSPF folder * 6 Area Configuration folder * 7 Select General 		3 Select Areas	
_	r v		
7 Select General			
7 Select General <i>Table 2-18. OSPF Area Param</i>		Entered √	ССМ
7 Select General <i>Table 2-18. OSPF Area Param</i> MAE Configuration Program	eters Lost	Entered √	CCM Area number
7 Select General <i>Table 2-18. OSPF Area Param</i> MAE Configuration Program Area number	eters Lost	Entered √	
7 Select General	eters Lost	Entered √	Area number

Use the following table if you have additional OSPF area parameters:

MAE Configuration Program	Parameter	Entered \checkmark	ССМ
Area number			Area number
Is this a stub area?2			Stub area
Stub default cost			Default cost
Import summaries			Import summaries
			-
Area number			Area number
Is this a stub area? ²			Stub area

Is this a stub area?2		Stub area
Stub default cost		Default cost
Import summaries		Import summaries

² If this field is checked, the rest of the fields in this column display.

OSPF Multicast Group Address Parameters

One parameter is lost during migration for each OSPF multicast group address.

MAE Configuration Program	ССМ
1 Navigation window •	1 Configuration menu ▼
2 Router folder •	2 OSPF menu ▼
3 Protocols folder •	3 Select General/multicast
4 IP folder ▼	
5 OSPF folder •	
6 Select Group Addresses	

Table 2-19. OSPF Multicast Group Address Parameter Lost					
MAE Configuration Program Parameter Entered √ CCM					
Group address			Group address		

Use the following table if you have additional OSPF multicast address parameters:

MAE Configuration Program	Parameter	Entered \checkmark	ССМ
Group address			Group address
Group address			Group address
Group address			Group address
Group address			Group address
Group address			Group address
Group address			Group address
Group address			Group address
Group address			Group address
Group address			Group address
Group address			Group address
Group address			Group address
Group address			Group address
Group address			Group address
Group address			Group address
Group address			Group address
Group address			Group address

RIP Route Acceptance Parameters

One parameter is lost during migration for each RIP route acceptance address.

AE Configuration Program	ССМ
1 Navigation window ▼	1 Configuration menu •
2 Router folder •	2 RIP menu 🔻
3 Protocols folder •	3 Select General
4 IP folder •	
5 RIP folder •	
6 Select RIP Route Acceptance	

Table 2-20. RIP Route Acceptar	nce Parameters Lo	st	
MAE Configuration Program	Parameter	Entered \checkmark	ССМ
Network address			Network address

Use the following table if you have additional RIP route acceptance parameters:

MAE Configuration Program	Parameter	Entered \checkmark	ССМ
Network address			Network address
Network address			Network address
Network address			Network address
Network address			Network address
Network address			Network address
Network address			Network address
Network address			Network address
Network address			Network address
Network address			Network address
Network address			Network address
Network address			Network address
Network address			Network address
Network address			Network address
Network address			Network address
Network address			Network address
Network address			Network address

BGP Excluded AS Parameters

AS number to exclude

One parameter is lost during migration for each BGP excluded AS.

MAE Configuration Progra	am	ССМ		
1 Navigation window •		1 Config	uration menu v	
2 Router folder •		2 Select	SNMP ▼	
3 Protocols folder v		3 BGP m	enu ▼	
4 IP folder •		4 Select	General/excluded AS	
5 BGP4 folder v				
6 Select Exclude AS Number	rs			
Table 2-21. BGP Excluded AS P	arameters Lost			
MAE Configuration Program	Parameter	Entered \checkmark	ССМ	

Use the following table if you have additional BGP excluded AS parameters:

MAE Configuration Program	Parameter	Entered \checkmark	ССМ
AS number to exclude			AS no. to exclude
AS number to exclude			AS no. to exclude
AS number to exclude			AS no. to exclude
AS number to exclude			AS no. to exclude
AS number to exclude			AS no. to exclude
AS number to exclude			AS no. to exclude
AS number to exclude			AS no. to exclude
AS number to exclude			AS no. to exclude
AS number to exclude			AS no. to exclude
AS number to exclude			AS no. to exclude
AS number to exclude			AS no. to exclude
AS number to exclude			AS no. to exclude
AS number to exclude			AS no. to exclude
AS number to exclude			AS no. to exclude
AS number to exclude			AS no. to exclude
AS number to exclude			AS no. to exclude
AS number to exclude			AS no. to exclude
AS number to exclude			AS no. to exclude

AS no. to exclude

BGP Receive Policy Parameters

There are seven parameters lost during migration for each BGP receive policy.

AE Configuration Prog		ССМ	
1 Navigation window •		1 Conf	iguration menu ▼
 2 Router folder • 3 Protocols folder • 		2 BPG	menu ▼
		3 Select Receive policies	
4 IP folder ▼			
5 BGP4 folder v			
6 Select Receive Policies			
U Select Receive Funcies			
Table 2-22. BGP Receive Polic	y Parameters Los	t Entered √	ССМ
Table 2-22. BGP Receive Polic MAE Configuration Program	-		CCM Policy type
<i>Table 2-22. BGP Receive Polic</i> MAE Configuration Program	-		
Table 2-22. BGP Receive Polic MAE Configuration Program Type Address match	-		Policy type
Table 2-22. BGP Receive Polic MAE Configuration Program Type Address match Network prefix	-		Policy type Address match
Table 2-22. BGP Receive Polic MAE Configuration Program Type Address match Network prefix Network mask	-		Policy type Address match Network IP address
	-		Policy type Address match Network IP address Network mask

Use the following table if you have additional BGP receive policy parameters:

MAE Configuration Program	Parameter	Entered \checkmark	ССМ
Туре			Policy type
Address match			Address match
Network prefix			Network IP address
Network mask			Network mask
IGP-metric			IGP metric
Originating AS number			Originating AS number
Adjacent AS number			Adjacent AS number
Туре			Policy type
Address match			Address match
Network prefix			Network IP address
Network mask			Network mask
IGP-metric			IGP metric
Originating AS number			Originating AS number
Adjacent AS number			Adjacent AS number
Туре			Policy type
Address match			Address match
Network prefix			Network IP address
Network mask			Network mask
IGP-metric			IGP metric
Originating AS number			Originating AS number
Adjacent AS number			Adjacent AS number
Туре			Policy type
Address match			Address match
Network prefix			Network IP address
Network mask			Network mask
IGP-metric			IGP metric
Originating AS number			Originating AS number
Adjacent AS number			Adjacent AS number

BGP Send Policy Parameters

There are seven parameters lost during migration for each BGP send policy.

 Navigation window Router folder Protocols folder ID folder 		 Configuration menu BPG menu Select Send policies 		
 4 IP folder • 5 BGP4 folder • 6 Select Send Policies 				
Table 2-23. BGP Send Policy F	Parameters Lost			
Table 2-23. BGP Send Policy F	Parameters Lost	Entered √	ССМ	
Table 2-23. BGP Send Policy F		Entered √	CCM Policy type	
Table 2-23. BGP Send Policy F MAE Configuration Program Type		Entered v		
Table 2-23. BGP Send Policy F MAE Configuration Program Type Address match		Entered √	Policy type	
Table 2-23. BGP Send Policy F MAE Configuration Program Type Address match Network prefix		Entered √	Policy type Address match	
Table 2-23. BGP Send Policy F MAE Configuration Program		Entered √	Policy type Address match Network IP address	

Use the following table if you have additional BGP send policy parameters:

MAE Configuration Program	Parameter	Entered v	ССМ
Туре			Policy type
Address match			Address match
Network prefix			Network IP address
Network mask			Network mask
Тад			Tag
Adjacent AS number			Adjacent AS number
Tupo			Delieu turo
Type			Policy type
Address match			Address match
Network prefix			Network IP address
Network mask			Network mask
Tag			Tag
Adjacent AS number			Adjacent AS number
Туре			Policy type
Address match			Address match
Network prefix			Network IP address
Network mask			Network mask
Tag			Tag
Adjacent AS number			Adjacent AS number
Tura			Deliau fur -
Type			Policy type
Address match			Address match
Network prefix			Network IP address
Network mask			Network mask
Tag			Tag
Adjacent AS number			Adjacent AS number
Туре			Policy type
Address match			Address match
Network prefix			Network IP address
Network mask			Network mask
Tag			Тад
Adjacent AS number			Adjacent AS number

BGP Originate Policy Parameters

There are five parameters lost during migration for each BGP originate policy.

	IAE Configuration Program		ССМ	
1 Navigation window •		1 Conf	iguration menu ▼	
2 Router folder •		2 BPG	menu ▼	
3 Protocols folder •		3 Selec	3 Select Originate policies	
4 IP folder ▼				
5 BGP4 folder •				
6 Select Originate Policies				
6 Select Originate Policies				
6 Select Originate Policies				
	cy Parameters Lo	st		
Table 2-24. BGP Originate Poli	cy Parameters Lo Parameter	st Entered √	ССМ	
Table 2-24. BGP Originate Poli MAE Configuration Program	1		CCM Policy type	
<i>Table 2-24. BGP Originate Poli</i> MAE Configuration Program Type	1			
<i>Table 2-24. BGP Originate Poli</i> MAE Configuration Program Type Address match	1		Policy type	
6 Select Originate Policies <i>Table 2-24. BGP Originate Poli</i> MAE Configuration Program Type Address match Network prefix Network mask	1		Policy type Address match	

Use the following table if you have additional BGP originate policy parameters:

MAE Configuration Program	Parameter	Entered $$	ССМ
Туре			Policy type
Address match			Address match
Network prefix			Network IP address
Network mask			Network mask
Тад			Тад
Туре			Policy type
Address match			Address match
Network prefix			Network IP address
Network mask			Network mask
Тад			Tag
Туре			Policy type
Address match			Address match
Network prefix			Network IP address
Network mask			Network mask
Тад			Tag
Туре			Policy type
Address match			Address match
Network prefix			Network IP address
Network mask			Network mask
Тад			Тад
			1.39
Туре			Policy type
Address match			Address match
Network prefix			Network IP address
Network mask			Network mask
Тад			Тад
Туре			Policy type
Address match			Address match
Network prefix			Network IP address
Network mask			Network mask
Тад			Tag

BGP Neighbor Parameters

There are seven parameters lost during migration for each BGP neighbor.

IAE Configuration Prog			ССМ	
1 Navigation window ▼		1 Confi	guration menu v	
2 Router folder •		2 BGP	menu ▼	
3 Protocols folder •		3 Select	3 Select Neighbors	
4 IP folder ▼				
5 BGP4 folder •				
6 Select Neighbors				
5				
5				
Table 2-25. BGP Neighbor Para	ameters Lost			
	ameters Lost Parameter	Entered √	ССМ	
Table 2-25. BGP Neighbor Para		Entered √	CCM IP address	
Table 2-25. BGP Neighbor Para MAE Configuration Program		Entered √		
Table 2-25. BGP Neighbor Para MAE Configuration Program Neighbor Address		Entered √	IP address	
Table2-25. BGP Neighbor ParaMAE Configuration ProgramNeighbor AddressEnable neighbor		Entered $$	IP address Enable neighbor	
Table2-25. BGP Neighbor ParaMAE Configuration ProgramNeighbor AddressEnable neighborNeighbor AS number		Entered v	IP address Enable neighbor AS number	
Table2-25. BGP Neighbor ParaMAE Configuration ProgramNeighbor AddressEnable neighborNeighbor AS numberInitialization timer		Entered √	IP address Enable neighbor AS number Initialization timer	

Use the following table if you have additional BGP neighbor parameters:

MAE Configuration Program	Parameter	Entered $$	ССМ
Neighbor Address			IP address
Enable neighbor			Enable neighbor
Neighbor AS number			AS number
Initialization timer			Initialization timer
Connect retry timer			Connect retry timer
Hold timer			Hold timer
Neighbor TCP-segment size			TCP segment size
Neighbor Address			IP address
Enable neighbor			Enable neighbor
Neighbor AS number			AS number
Initialization timer			Initialization timer
Connect retry timer			Connect retry timer
Hold timer			Hold timer
Neighbor TCP-segment size			TCP segment size
Neighbor Address			IP address
Enable neighbor			Enable neighbor
Neighbor AS number			AS number
Initialization timer			Initialization timer
Connect retry timer			Connect retry timer
Hold timer			Hold timer
Neighbor TCP-segment size			TCP segment size
Neighbor Address			IP address
Enable neighbor			Enable neighbor
Neighbor AS number			AS number
Initialization timer			Initialization timer
Connect retry timer			Connect retry timer
Hold timer			Hold timer
Neighbor TCP-segment size			TCP segment size

BGP Aggregate Route Parameters

There are two parameters lost during migration for each BGP aggregate route.

MAE Configuration Program	ССМ
1 Navigation window •	1 Configuration menu ▼
2 Router folder •	2 BGP menu ▼
3 Protocols folder •	3 Select Aggregate routes
4 IP folder ▼	
5 BGP4 folder •	
6 Select Aggregate Routes	

Table 2-26. BGP Aggregate Route Parameter Lost				
MAE Configuration ProgramParameterEntered $$ CCM				
Network prefix	Network IP address			
Network mask			Network mask	

Use the following table if you have additional BGP aggregate route parameters:

MAE Configuration Program	Parameter	Entered \checkmark	ССМ
Network prefix			Network IP address
Network mask			Network mask
Network prefix			Network IP address
Network mask			Network mask
Network prefix			Network IP address
Network mask			Network mask
Network prefix			Network IP address
Network mask			Network mask
Network prefix			Network IP address
Network mask			Network mask
Network prefix			Network IP address
Network mask			Network mask
Network prefix			Network IP address
Network mask			Network mask
Network prefix			Network IP address
Network mask			Network mask

Specific IP Parameters for Each MAE IP Address Lost After Migration

All MAE IP station address parameters defined in the MAE Configuration Program are lost after the microcode upgrade and must be re-entered (if needed) in the new version of CCM. The parameters affected are as follows:

- "OSPF Parameters."
- "OSPF Neighbor Parameters" on page 2-45.
- "RIP Parameters" on page 2-46.

OSPF Parameters

There are six OSPF parameters lost for each defined IP address.

MAE Configuration Program		ССМ	
1 Navigation window •		1 Configuration menu ▼	
2 Router folder •		2 OSPF menu ▼	
3 Protocols folder •		3 Select	Parameters per IP address
4 IP folder •		4 Select	an IP address v
5 OSPF folder •		5 Click Add OSPF -	
6 Select Interfaces •		6 Click OSPF parameters	
7 Click Configure for each IP	address <		
8 Select Subnet tab	8 Select Subnet tab		
Table 2-27. OSPF Parameters Lo	Table 2-27. OSPF Parameters Lost Per IP Addres		
MAE Configuration Program	MAE Configuration Program Parameter		ССМ
Subnet advertisement (PPP only)			Subnet advertisement

Also	in	Configuration	Program
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- 1 Navigation window •
- 2 Router folder v
- 3 Protocols folder •
- 4 IP folder ▼
- 5 OSPF folder •
- 6 Select Interfaces v
- 7 Click Configure for each IP address •
- 8 Select General tab

Also in CCM

- 1 Configuration menu •
- 2 OSPF menu •
- 3 Select Parameters per IP address...
- 4 Select an IP address v
- 5 Click Add OSPF •
- 6 Click OSPF parameters

Table 2-28. Other OSPF Parameters Lost Per IP Address				
MAE Configuration Program	IAE Configuration Program Parameter Entered $$ C			
Area number			Area number	
Authentication key			Authentication key	
Cost			Cost (TOS 0)	
Priority			Priority	

Use the following table if you have additional OSPF parameters:

MAE Configuration Program	Parameter	Entered $$	ССМ
Area number			Area number
Authentication key			Authentication key
Cost			Cost (TOS 0)
Priority			Priority
Area number			Area number
Authentication key			Authentication key
Cost			Cost (TOS 0)
Priority			Priority
Area number			Area number
Authentication key			Authentication key
Cost			Cost (TOS 0)
Priority			Priority
Area number			Area number
Authentication key			Authentication key
Cost			Cost (TOS 0)
Priority			Priority
Area number			Area number
Authentication key			Authentication key
Cost			Cost (TOS 0)
Priority			Priority
Area number			Area number
Authentication key			Authentication key
Cost			Cost (TOS 0)
Priority			Priority
Area number			Area number
Authentication key			Authentication key
Cost			Cost (TOS 0)
Priority			Priority

Also	in	Configuration	Program
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- 1 Navigation window •
- 2 Router folder v
- 3 Protocols folder •
- 4 IP folder •
- 5 OSPF folder •
- 6 Select Interfaces v
- 7 Click Configure for each IP address •
- 8 Select Timers tab

Also in CCM

- 1 Configuration menu •
- 2 OSPF menu •
- 3 Select Parameters per IP address...
- 4 Select an IP address v
- 5 Click Add OSPF •
- 6 Click OSPF parameters

Table 2-29. Other OSPF Paran	neters Lost Per IP	Address	
MAE Configuration Program	Parameter	Entered \checkmark	ССМ
Retrans interval			Retransmit interval
Transmission delay			Transmit delay
Dead router interval			Dead router
Hello interval			Hello interval

Use the following table if you have additional OSPF parameters:

MAE Configuration Program	Parameter	Entered $$	ССМ
Retrans interval			Retransmit interval
Transmission delay			Transmit delay
Dead router interval			Dead router
Hello interval			Hello interval
Retrans interval			Retransmit interval
Transmission delay			Transmit delay
Dead router interval			Dead router
Hello interval			Hello interval
Retrans interval			Retransmit interval
Transmission delay			Transmit delay
Dead router interval			Dead router
Hello interval			Hello interval
Retrans interval			Retransmit interval
Transmission delay			Transmit delay
Dead router interval			Dead router
Hello interval			Hello interval
Retrans interval			Retransmit interval
Transmission delay			Transmit delay
Dead router interval			Dead router
Hello interval			Hello interval
Retrans interval			Retransmit interval
Transmission delay			Transmit delay
Dead router interval			Dead router
Hello interval			Hello interval
Retrans interval			Retransmit interval
Transmission delay			Transmit delay
Dead router interval			Dead router
Hello interval			Hello interval

Also i	in	Configuration	Program
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- 1 Navigation window •
- 2 Router folder v
- 3 Protocols folder •
- 4 IP folder •
- 5 OSPF folder •
- 6 Select Interfaces v
- 7 Select an IP address v
- 8 Click Configure •
- 9 Select Multicast Ext. tab

Also in CCM

- 1 Configuration menu •
- 2 OSPF menu •
- 3 Select Parameters per IP address...
- 4 Select an IP address v
- 5 Click Add OSPF •
- 6 Click OSPF parameters

MAE Configuration Program	Parameter	Entered $$	ССМ
Multicast enabled			Enable multicast
Forward/rcv as unicasts?			Forward/receive as unicasts
IGMP polling interval			IGMP polling interval
IGMP timeout			IGMP timeout

Use the following table if you have additional OSPF parameters:

MAE Configuration Program	Parameter	Entered $$	ССМ
Multicast enabled			Enable multicast
Forward/rcv as unicasts?			Forward/receive as unicasts
IGMP polling interval			IGMP polling interval
IGMP timeout			IGMP timeout
Multicast enabled			Enable multicast
Forward/rcv as unicasts?			Forward/receive as unicasts
IGMP polling interval			IGMP polling interval
IGMP timeout			IGMP timeout
Multicast enabled			Enable multicast
Forward/rcv as unicasts?			Forward/receive as unicasts
IGMP polling interval			IGMP polling interval
IGMP timeout			IGMP timeout
Multicast enabled			Enable multicast
Forward/rcv as unicasts?			Forward/receive as unicasts
IGMP polling interval			IGMP polling interval
IGMP timeout			IGMP timeout
	1		
Multicast enabled			Enable multicast
Forward/rcv as unicasts?			Forward/receive as unicasts
IGMP polling interval			IGMP polling interval
IGMP timeout			IGMP timeout
Multicast enabled			Enable multicast
Forward/rcv as unicasts?			Forward/receive as unicasts
IGMP polling interval			IGMP polling interval
IGMP timeout			IGMP timeout
Multicast enabled			Enable multicast
Forward/rcv as unicasts?			Forward/receive as unicasts
IGMP polling interval			IGMP polling interval
IGMP timeout			IGMP timeout

Also in Configuration Program

- 1 Navigation window •
- 2 Router folder •
- 3 Protocols folder •
- 4 IP folder ▼
- 5 OSPF folder •
- 6 Select Interfaces v
- 7 Click Configure for each IP address •
- 8 Select Non-Broadcast tab

Also in CCM

- 1 Configuration menu •
- 2 OSPF menu •
- 3 Select Parameters per IP address...
- 4 Select an IP address •
- 5 Click Add OSPF •
- 6 Click OSPF parameters

Table 2-31. Other OSPF Parame	eters Lost Per IP A	Address	
MAE Configuration Program	Parameter	Entered \checkmark	ССМ
Non-broadcast			Non-broadcast
Polling interval			Polling interval

Use the following table if you have additional OSPF parameters:

MAE Configuration Program	Parameter	Entered \checkmark	ССМ
Non-broadcast			Non-broadcast
Polling interval			Polling interval
Non-broadcast			Non-broadcast
Polling interval			Polling interval
	·	· · · · · · · · · · · · · · · · · · ·	
Non-broadcast			Non-broadcast
Polling interval			Polling interval
	·		
Non-broadcast			Non-broadcast
Polling interval			Polling interval
Non-broadcast			Non-broadcast
Polling interval			Polling interval

OSPF Neighbor Parameters

There are two OSPF neighbor parameters lost for each defined IP address.

1	Navigation window <		1	Config	uration mer	nu ▼		
2	Router folder •		2	OSPF	menu 🔻			
3	Protocols folder •		3	Select	Parameters	per IP ac	ddress	V
4	IP folder ▼		4	Select	an IP addre	ss ▼		
5	OSPF folder ▼		5	Click O	SPF neighb	oors (N)		
6	Select Interfaces •							
7	Configuration window •							
8	Click Configure for each IP	address ▼						
9	Select Neighbors tab							

Table 2-33. OSPF Neighbor Para	ameters Per IP Ad	dress Lost	
MAE Configuration Program	Parameter	Entered \checkmark	ССМ
Neighbor IP address			Neighbor IP address
Designated router			Designated router eligible (E)

Use the following table if you have additional OSPF neighbor parameters:

MAE Configuration Program	Parameter	Entered \checkmark	ССМ
Neighbor IP address			Neighbor IP address
Designated router			Designated router eligible (E)
Neighbor IP address			Neighbor IP address
Designated router			Designated router eligible (E)
Neighbor IP address			Neighbor IP address
Designated router			Designated router eligible (E)
	·	·	
Neighbor IP address			Neighbor IP address
Designated router			Designated router eligible (E)
	·		
Neighbor IP address			Neighbor IP address
Designated router			Designated router eligible (E)

RIP Parameters

There are 14 RIP parameters lost for each defined IP address.

1 Navigation window ▼		1 Config	guration menu v	
2 Router folder •		2 RIP m	enu ▼	
3 Protocols folder •		3 Select	Parameters per IP address	
4 IP folder •		4 Select an IP address v		
5 RIP folder •		5 Click Add RIP •		
6 Select Interfaces •		6 Click I	RIP parameters	
7 Configuration window •				
8 Click Configure for each I	P address v			
9 Select General tab				
Table 2-34. RIP Parameters Lo	ost Per IP address	I		
MAE Configuration Program	Parameter	Entered \checkmark	ССМ	
Broadcast address style			Broadcast address style	
Address fill pattern			Address fill pattern	

Use the following table if you have additional RIP parameters:

MAE Configuration Program	Parameter	Entered $$	ССМ
Broadcast address style			Broadcast address style
Address fill pattern			Address fill pattern
Interface tag (AS number)			Interface tag (AS number)
Broadcast address style			Broadcast address style
Address fill pattern			Address fill pattern
Interface tag (AS number)			Interface tag (AS number)
Broadcast address style			Broadcast address style
Address fill pattern			Address fill pattern
Interface tag (AS number)			Interface tag (AS number)
Broadcast address style			Broadcast address style
Address fill pattern			Address fill pattern
Interface tag (AS number)			Interface tag (AS number)
Broadcast address style			Broadcast address style
Address fill pattern			Address fill pattern
Interface tag (AS number)			Interface tag (AS number)
Broadcast address style			Broadcast address style
Address fill pattern			Address fill pattern
Interface tag (AS number)			Interface tag (AS number)
Broadcast address style			Broadcast address style
Address fill pattern			Address fill pattern
Interface tag (AS number)			Interface tag (AS number)
Broadcast address style			Broadcast address style
Address fill pattern			Address fill pattern
Interface tag (AS number)			Interface tag (AS number)
-			
· · · · · · · · · · · · · · · · · · ·			
roadcast address style ddress fill pattern nterface tag (AS number)			Broadcast address sty Address fill pattern Interface tag (AS num

Also in Configuration Program

- 1 Navigation window •
- 2 Router folder v
- 3 Protocols folder •
- 4 IP folder •
- 5 RIP folder •
- 6 Select Interfaces v
- 7 Configuration window •
- 8 Click Configure for each IP address v
- 9 Select Flags tab

Also in CCM

- 1 Configuration menu •
- 2 RIP menu v
- 3 Select Parameters per IP address... •
- 4 Select an IP address v
- 5 Click Add RIP •
- 6 Click RIP parameters...

MAE Configuration Program	Parameter	Entered $$	ССМ	
Send net routes			Send net routes	
Send host routes			Send host routes	
Send static routes			Send static routes	
Send default routes			Send default routes	
Receive RIP			Receive RIP routes	
Receive dynamic nets			Receive net routes	
Receive dynamic hosts			Receive host routes	
Override static routes			Override static routes	
Override default			Override default routes	

Use the following table if you have additional RIP parameters:

MAE Configuration Program	Parameter	Entered \checkmark	ССМ	
Send net routes			Send net routes	
Send host routes			Send host routes	
Send static routes			Send static routes	
Send default routes			Send default routes	
Receive RIP			Receive RIP routes	
Receive dynamic nets			Receive net routes	
Receive dynamic hosts			Receive host routes	
Override static routes			Override static routes	
Override default		Override default routes		
	·			
Send net routes			Send net routes	
Send host routes			Send host routes	
Send static routes			Send static routes	
Send default routes			Send default routes	
Receive RIP			Receive RIP routes	
Receive dynamic nets			Receive net routes	
Receive dynamic hosts			Receive host routes	
Override static routes			Override static routes	
Override default	Override default route		Override default routes	
Send net routes			Send net routes	
Send host routes			Send host routes	
Send static routes			Send static routes	
Send default routes			Send default routes	
Receive RIP			Receive RIP routes	
Receive dynamic nets			Receive net routes	
Receive dynamic hosts			Receive host routes	
Override static routes			Override static routes	
Override default			Override default routes	

IP Parameters for MAE IP Addresses Lost

All RIP V2 IP station parameters in the MAE Configuration Program are lost after microcode upgrade and cannot be used in the new version of CCM. However, you can save them on diskette for future releases of the MAE.

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RIP V2 Parameters Lost During Migration

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There are six RIP V2 parameters lost for each defined IP address.

 NAE Configuration Program Navigation window • Router folder • Protocols folder • IP folder • RIP folder • Select Interfaces • Click Configure for each IP address • Select Metric tab 		Program 1 Navigation window 2 Router folder • 3 Protocols folder • 4 IP folder • 5 RIP folder • 6 Select Interfaces •	 Navigation window • Router folder • Protocols folder • IP folder • RIP folder • Select Interfaces • Click Configure for each IP address • 		
Table 2-36. RIP V2 Para Address	meters Lost Per IP	Table 2-37. Other RIP V2 Per IP Address	2 Parameters Lost		
MAE Configuration Program	Parameter	MAE Configuration Program	Parameter		
RIP in metric		Enable RIP V2			
RIP out metric		Enable RIP 1 routes			
		Enable authentication			
		Authentication key			

After you have finished entering the MAE IP parameters that you need, close the **Multiaccess Enclosure (MAE) Management** window.

Migration Path Via a Standalone Workstation

If your migration path is via a standalone workstation, see Chapter 3, "Migration Path Via a Standalone Workstation" on page 3-1.

Migration Path Via an Upgraded Service Processor

If your migration path is via an upgraded service processor, see Chapter 4, "Migration Path Via an Upgraded Service Processor" on page 4-1.

Chapter 3. Migration Path Via a Standalone Workstation

This chapters describes a migration path via a standalone workstation with the following steps:

- Import your existing CCM and MAE configuration files.
- Merge the configurations in the new version of CCM.
- Export the new CCM configurations to diskette.

Prerequisites

The prerequisites for this migration path are as follows:

- OS/2 standalone workstation¹ with a CD-ROM drive.
- The CD-ROM P/N 26L0246 that comes with this guide, containing the new version of CCM and the current version of the MAE Configuration Program.
- Blank 1.44 MB, double-density diskette(s).

The steps to this procedure are as follows:

- 1. Export existing CCM configurations to diskette.
- 2. Export existing MAE configurations to diskette.
- 3. Install new version of CCM from CD-ROM on standalone workstation.
- 4. Install MAE Configuration Program from CD-ROM on standalone workstation.
- 5. Run CCM, and import 3746 and MAE configurations from diskette.
- 6. Enter the MAE IP configuration parameters as needed into CCM, either from the MAE Configuration Program or from the worksheets.
- 7. Save new configurations in CCM
- 8. Export configurations to diskette.
- 9. Open CCM on the upgraded service processor and import CCM configurations from diskette.
- 10. Save new configuration(s) in CCM.

3746 and MAE Configurations

The CCM configuration files (.ccm) and the MAE configuration files (.cdb) need to be saved and exported to diskette before the MAE hardware connection and microcode upgrade installation can begin.

– Important! -

It is strongly recommended that you make backup copies of your configuration files on diskette.

Configuration Diskettes

For saving your configuration files, you must use 1.44 MB, high-density diskettes. Other types of diskette will not work with the service processor.

¹ A Pentium is recommended, with VGA to run the new version of CCM, and SVGA for the MAE Configuration Program.

Exporting 3746 Configurations to Diskette

- **Step 1.** Open the 3746 menu in MOSS-E View.
- Step 2. Click Network Node (NNP) Management.
- Step 3. Double-click CCM Controller Configuration and Management.
- Step 4. From the File menu, select Open.
- **Step 5.** In the **Configurations List** window, select a 3746 configuration and click **Export**.

Name	Date MM-DD-YYYY	CCM Time version	
5			<u>N</u> ew
h	Jan-26-1998	18:20 V2	••••••
			Activate
			Delete
			Modify
			<u> </u>
			Import
			,
			Export
		: ::: ::: ::: ::: ::: ::: ::: ::: :::	
		,, ,	

- **Step 6.** At the prompt, insert a diskette into the service processor floppy disk drive and click **OK**.
- Step 7. A message indicates that the configuration has been exported successfully. Click OK.
- Step 8. Click Cancel and close CCM.
- **Step 9.** Label the diskette with the CCM configuration file name.
- Step 10. Go to "Exporting MAE Configurations to Diskette."

Exporting MAE Configurations to Diskette

- **Step 1.** Insert a diskette into the service processor floppy disk drive.
- Step 2. On your service processor in MOSS-E View, open the 3746 menu.
- Step 3. Click Multiaccess Enclosure (MAE) Management.

🛓 Ers5 840	lh Davinc/3746-9x0	0/MultiAccess Enclosure (MAE) Management
Status	MAE IP addres: 9.100.77.94	Consoles Configurator MOS ASCII Debug Change Management Upgrade code Backup code Restore code
IP addre SPOT4K3 CA12222 RIP2222 DA12222 Reading		vice Lan: SP) (NNP) (2080)
Close	Help	

Step 4. Double-click Manage Multiaccess Enclosure.

- Step 5. In the Multiaccess Enclosure (MAE) Management window, click the Configurator button.
- **Step 6.** The MAE Configuration Program opens.

Step 7. From the Configure menu, select Open configuration.

0	New configuration	
	Open configuration	At+O
	Save configuration	Alt+9
	Save configuration as	
	Delete configuration	
	Create router configuration	
	\underline{B} ead loutel contiguration .	
	Communications	•
	ASCII (ile	
	Egit	éł.

Step 8. Select the drive letter of the floppy disk drive in the **Database path** field, the name of the database file in the **Database file name** field, and the configuration name in the **Configurations** field, and click **OK**.

Open		
Database path	D:\Devin0\	
Database tile name	config.edb	
Databases	Configurations	Configuration Summary
Bontig Cdb dawt0.1.cdb dawt0.2.cdb dawt2.2.cdb dawt2.2.cdb testappri.cdb	confic davi	Model: 2216-400 Veision No. MAS V1 R2.0 June 3, 1998 6:46-42 am
Configuration Sea	rch Ellters	
		e Configurations list above)
Mo	odel	-
	0 5 Server Module 10-121	
	ок	Cancel

Step 9. When the configuration opens, click Save configuration as from the Configure menu.

Save As	
Database path	
Database file name	contig cdb
Configuration name	config
Databases	Configurations
Conto cob davit0.1 odb davi0.2 odb davi0.2 odb testappn.odb	Config davi
ок	Cancel

- **Step 10.** In the **Database path** field, change the drive letter to the diskette drive. Then click **OK**. This will take a few minutes.
- Step 11. Close the MAE Configuration Program.
- Step 12. Label the diskette with the name of the MAE configuration file.
- Step 13. Go to "Installing the New Version of CCM" on page 3-5.

Installing the New Version of CCM

- **Step 1.** Put the CD (P/N 26L0246) containing the new CCM and the MAE Configuration Program into the CD-ROM drive.
- Step 2. Open an OS/2 window and change the directory to the drive letter of the CD-ROM.
- **Step 3.** Type cd ccm and press Enter.
- **Step 4.** Type ccminst.
- **Step 5.** Follow the prompts. A message displays as program files are loaded onto your hard disk.
- **Step 6.** The CCM/IP icon appears on your desktop.
- Step 7. Go to "Installing the MAE Configuration Program."

Installing the MAE Configuration Program

- Step 1. Open an OS/2 window.
- **Step 2.** Create a directory for the MAE Configuration Program on your hard disk.
- **Step 3.** Change the directory to the new MAE directory.
- Step 4. Type xcopy <>:\mae (where <> is the drive letter of the CD-ROM), and press Enter.
 The program files are loaded from the CD-ROM to your new directory.
- **Step 5.** Type mae to start the Configuration Program.
 - **Note:** Use this command in OS/2 each time you run the MAE Configuration Program.
- Step 6. Go to "Importing 3746 Configurations from Diskette."

Importing 3746 Configurations from Diskette

- Step 1. Insert the diskette labelled with the name of your current CCM configuration file (.ccm) into the floppy disk drive.
- Step 2. Double-click the CCM/IP icon on your desk-top.
- Step 3. Double-click CCM.

え CCM File <u>C</u> onfigu	iration	<u>0</u>	ptions	Help				• 🗆
<u>N</u> ew Open Save Save <u>a</u> s Class opene	d castigaration	ne						
Import a co Exit	nfiguration, K		2912	2944 2	976 30	08 3040	3072	3104
2368 2400	2432 2464	2496	2528	2560 2	592 26	24 2656	2688	2720
	2048 2080	2112	2144	2176 9	208 22	40 2272	2304	2336
Import a conf	iguration choice		2144	2176 2	208 22	40 2272	2304	2030

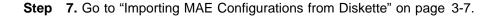
Step 4. From the File menu, click Import a configuration.

Step 5. In the **Path Selection** window, select the drive letter of the diskette and click **OK**.

Drive: a:
Directory:

Step 6. Select a configuration and click **Import selected configuration**. A message displays saying that the configuration has been imported successfully.

· · · · · · · · · · · · · · · · · · ·				
ime version	YYYY Time	MM-DD-1		Name



Importing MAE Configurations from Diskette

- **Step 1.** Insert the diskette labelled with the name of your current MAE configuration file (.cdb) into the floppy disk drive.
- Step 2. Open CCM, and from the File menu, click Open.

ப ССМ								• 🛛
File Configu	ration		<u>O</u> ptions	Help				
New Open								
<u></u> F	R.							
3000 00		ne						
Canan opene	1 cooligestion							
Import a cor	vfiguration							
Exit		2880	2912	2944	2976	3008 304	0 3072	3104
2368 2400	2432 2464	2496	2528	2560	2592	2624 265	6 2688	2720
	2048 2080	2112	2144	2176	2208	2240 227	2 2304	2336
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
Open configur	ation choice							

Step 3. Select a configuration and click Open selected configuration.

Step 4. When the configuration opens in the CCM window, select the coupler link between the 3746 and the MAE, and click the right mouse button to display the coupler menu.

- Coupler Number

This number is the same as the slot number in the controller.

注)CCN File	4 Contigu	ration			<u>O</u> ptions	Help				i • 🗆
8 -	config referer		is:a ⁻ -E is:n	one		(J	an-15-1	1998)		
2752	2784	2816	2848	2880	2912	2944	2976	3008 3040	3072	3104
	Config	lure <u>c</u> ou	ipter							
	Set a	nupler h	ype							
2368	Impor	I MAE (contigur	ation	2528	2560	2592	2624 2656	26 8 8	2720
				ľ						
		2048	2080 TIC3	2112 TIC3	2144 TIC3	2176	2208	2240 2272	2304	2336

Step 5. Click Import MAE configuration.

Step 6. After a few moments, a grey box appears on the screen. Click once with the mouse to display the **Convert CDB** window.

Convert CDB	•
Directory Containing CDB File	Destination Directory
(a .)	
Select CDB File	Cenveit
Select Configuration	
Coonfia And	

Step 7. In the Convert CDB window, select the drive letter of the MAE configuration file (.cdb) on diskette in the Directory Containing CDB File

field and press Enter.

This displays the MAE .cdb file list on diskette.

Step 8. Select a .cdb file, select a configuration and click Convert!.

The import of the MAE configuration file takes a few minutes.

- **Step 9.** In CCM, the coupler appears with a check mark, indicating that the MAE configuration files have been imported successfully.
- Step 10. From the File menu, click Save and click Yes.
- **Step 11.** A message displays, indicating that the new configuration is being saved. This takes a few minutes.
- Step 12. Go to "Updating MAE Configuration Parameters in New Version of CCM."

Updating MAE Configuration Parameters in New Version of CCM

Your 3746 configurations are now merged with your MAE configurations. However, you still need to enter any MAE IP parameters that were made in the worksheets.

成 <mark>OCM</mark> File Configu	ration		Options	Help		• •
<u>N</u> ew		ingeneenden en de la service de la servi Esta de la service de la serv				
<u>O</u> pen	k					
		ne				
Chess opened	(continuention)					
Import a cor	figuration					
Exit	3					
		2880	2912	2944 2976	3008 3040	3072 3104
2368 2400						
2368 2400	2432 2464	2496	2528	2560 2592	2624 2656	2688 2720
	2048 2080	2112	2144	2176 2208	2240 2272	2304 2336
Open configur	ation choice					

Step 1. Open CCM, and from the File menu, click Open.

- Step 2. Select a configuration and click Open selected configuration.
- **Step 3.** When the configuration opens, use the worksheets, and following the steps in the **CCM** column, enter the MAE IP parameters that you have recorded.
 - **Note:** You can also run the MAE Configuration Program and use it to update the configuration parameters in CCM.
- **Step 4.** After you have finished making entries from the worksheets, save the configuration.
- **Step 5.** Go to "Exporting New CCM Configurations to Diskette."

Exporting New CCM Configurations to Diskette

- **Step 1.** Insert a diskette into the floppy disk drive.
- Step 2. Double-click the CCM/IP icon on your desk-top.
- Step 3. Double-click CCM.
- Step 4. From the File menu, select Open.

Step 5. In the Configurations List window, select the new configuration and click Export.

Name MM-DD-YYYY Time version 1000 <th></th> <th></th> <th>Date</th> <th>CC</th> <th></th>			Date	CC	
a 1311 11 1341 11.26 V2 New h Jan=26-1998 18:20 V2 Activation Delete Madify Import Export	Name	ММ	-DD-YYYY 1	Fime vei	rsion
Import Export					
Madify Import Export	h	Jan	-26-1998	18:20 V2	
Modify Import Export					de thate
Modify Import Export					
Import					Modify

Step 6. In the Path Selection window, select the diskette drive and click OK.

Drive:	.	\$1111511111151	 	*****	
Direct	ory:				
innilliù ll					

- **Step** 7. Click **Cancel** and close CCM.
- **Step** 8. Label the diskette with the new CCM configuration file name.
- **Step 9.** Go to "Importing CCM Configurations Created on a Standalone Workstation."

Importing CCM Configurations Created on a Standalone Workstation

It is assumed that the MAE hardware connection to the 3746 has been successfully installed, and that the microcode on the service processor has been upgraded to level F12430.

- **Step 1.** On the upgraded service processor, open the 3746 menu.
- Step 2. Click Network Node (NNP) Management.

Step 3. Double-click **CCM - Controller Configuration and Management**. This opens the new version of CCM.

LINK NE					22
		sor (NNP) Man		nent	2
Manag	e Control F	oints on NNPs			
∪∪м -	Controtter	Configuration	ano	Manage	mem .
_					¥"
	Manag CCM -	Manage Control F CCM - Controller	Manage Control Points on NNPs	Manage Control Points on NNPs CCM - Controller Configuration and	Manage Control Points on NNPs CCM - Controller Configuration and Manage

Step 4. Click Import a configuration from the File menu.

党 OCM File Conligu	ration		Options	Help					• 🗆
New Open Save Save gs Olose openar	1 configuration	ne							
Exit	niguration	2880	2912	[2944 2	2976] 3008] 3040	 3072	3104
2368 2400	2432 2464	2496	2528	2560 2	2592	2624	2656	2688	2720
2300 2400									
Import a conf	2048 2080 iguration choice	2112 e	2144	2176 2	2208	2240	2272	2304	2336

Step 5. At the prompt, insert the diskette with the new CCM configuration into the service processor disk drive and click OK.

Step 6. A message displays when the import has successfully completed.

— Removing Token-ring Connections

Although this is not mandatory, you might want to remove the token-ring connection (feature code 5713 or feature code 9713) between the 3746 and the MAE. To remove the token-ring connection:

- Modify the token-ring definition of your configuration in CCM.
- Contact your IBM service representative, who will use the appropriate *Installation Instructions* for physically removing the token-ring connector and cable.

Chapter 4. Migration Path Via an Upgraded Service Processor

This chapter describes the migration path via an upgraded service processor with the following steps:

- Saving your existing MAE configurations onto diskette.
- Importing your MAE configurations from diskette into the new version of CCM on an upgraded service processor.

Prerequisites

The prerequisites for this migration path are as follows:

- The CD-ROM (P/N 26L0246) that comes with this guide, containing the new version of CCM and the current version of the MAE Configuration Program.
- Blank 1.44 MB, double-density diskette(s).

The steps to this procedure are as follows:

- 1. Record MAE IP configuration parameters in worksheets.
- 2. Export existing MAE configurations to diskette.
- Open new version of CCM on upgraded service processor and import MAE configurations from diskette.
- 4. Enter MAE IP parameters as needed from worksheets or MAE Configuration Program.
- 5. Save new configuration(s) in CCM.

MAE Configurations

The MAE configuration files (.cdb) need to be saved and exported to diskette before the MAE hardware connection and microcode upgrade installation can begin.

– Important! -

It is strongly recommended that you make backup copies of your configuration files on diskette.

Configuration Diskettes

For saving your configuration files, you must use 1.44 MB, high-density diskettes. Other types of diskette will not work with the service processor.

Exporting MAE Configurations to Diskette

- **Step 1.** Insert a diskette into the service processor floppy disk drive.
- Step 2. On your service processor in MOSS-E View, open the 3746 menu.
- Step 3. Click Multiaccess Enclosure (MAE) Management.

	MAE IP addres:	<u>Configurator</u>	MOS ASCI	<u>D</u> ebug			
9.100.77.94		Change Management					
11 ME 11	Apply	Upgrade code	Backup code	<u>R</u> estore code			
CA12222 RIP2222 DA12222 Reading		(NŃP) (2080)					

Step 4. Double-click Manage Multiaccess Enclosure.

- Step 5. In the Multiaccess Enclosure (MAE) Management window, click the Configurator button.
- **Step 6.** The MAE Configuration Program opens.
- Step 7. From the Configure menu, select Open configuration.

New configuration	
Open configuration	Alt+O
Save configuration	41t19
Save configuration as	
Delete configuration	
Create router configurati	en
Bead toutal configuration	m.
Communications	+
ASCII (ile	-
Egit	AL-X

Step 8. Select the drive letter of the floppy disk drive in the Database path field, the name of the database file in the Database file name field, and the configuration name in the Configurations field, and click OK.

Open		
Database path	D:\Devin0\	
Database file name	config odb	
Databases	Configurations	Configuration Summary
Contigued david2.edb david2.edb david2.edb david2.edb testappr.cdb		Model: 2216-490 Veision No. MAS VI R2.0 June 3, 1958 8 46-42 am
(Emms the displayed Mod	· · · · · ·	e Configurations list above)
8 8210 MSS 2210-	Server Module 121	
	ок	Cancel

Step 9. When the configuration opens, click Save configuration as from the Configure menu.

Save As	
Database path	a
Database file name	conlig odb
Configuration name	contig
Databases	Configurations
Conforceb davi0.1.odb davi0.2.odb davi2.2.odb testapon.cdb	
OK	

- **Step 10.** In the **Database path** field, change the drive letter to the diskette drive. Then click **OK**. This will take a few minutes.
- Step 11. Close the MAE Configuration Program.
- Step 12. Label the diskette with the name of the MAE configuration file.

Step 13. Go to "Importing Existing Feature Code 3000 MAE Configurations" on page 4-4.

Importing Existing Feature Code 3000 MAE Configurations

It is assumed that the MAE hardware connection to the 3746 has been successfully installed, and that the microcode on the service processor has been upgraded to level F12430.

Step 1. Insert the diskette labelled with the name of your existing feature code 3000 MAE configuration file (.cdb) into the floppy disk drive.

〕浅 CCM							• 🖾
File Configu	ration		<u>O</u> ptions	Help			
<u>N</u> ew							
Open	k						
		ne					
		lie					
<u>I</u> mport a cor	figuration						
Exit		2880	2912	2944	2976	3008 3040	3072 31 0 4
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	//////////////////////////////////////					
2368 2400	2432 2464	2496	2528	2560	2592	2624 2656	2688 2720
	2048 2080	2112	2144	2176	2208	2240 2272	2304 2336
Open configur	ation choice						

Step 2. Open CCM, and from the File menu, click Open.

Step 3. Select a configuration and click Open selected configuration.

Step 4. When the configuration opens in the CCM window, select the coupler link between the 3746 and the MAE, and click the right mouse button to display the coupler menu.

- Coupler Number

This number is the same as the slot number in the controller.

党 CCM File Configuration Manage	<u>O</u> ptions	<u>H</u> elp		• •
Opened configuration is:a Opened reference CDF-E is:n	one	(Jan-15-1	1998)	
2752 2784 2816 2848	2880 2912	2944 2976	3008 3040	3072 3104
Opened configuration is: a Opened reference CDF-E is:n 2752 2784 2816 2848 Configure coupler Set coupler type 2368 Impart MAE configure				
2368 Import MAE configur	ation, 2528	2560 2592	2624 2656	26 8 8 2720
2048 2080 Tic3	2112 2144 TIC3 TIC3	2176 2208	2240 2272	2304 2336
	1100			

Step 5. Click Import MAE configuration.

Step 6. After a few moments, a grey box appears on the screen. Click once with the mouse to display the **Convert CDB** window.

Directory Containing CDB File	Destination Directory
ai	USIMPROS
Select CDB File	Convert
Select Configuration	
confia	

Step 7. In the Convert CDB window, select the drive letter of the MAE configuration file (.cdb) on diskette in the Directory Containing CDB File field and press Enter.

This displays the MAE .cdb file list on diskette.

Step 8. Select a .cdb file, select a configuration, and click Convert!.

The import of the MAE configuration file takes a few minutes.

- **Step 9.** In CCM, the coupler appears with a check mark, indicating that the MAE configuration files have been imported successfully.
- Step 10. From the File menu, click Save and click Yes.
- **Step 11.** A message displays, indicating that the new configuration is being saved. This takes a few minutes.
- Step 12. When the new configuration is saved, open the MOSS-E View. The MAE Link icon appears green.
- Step 13. Save your configuration.
- **Step 14.** Go to "Updating MAE Configuration Parameters in an Upgraded Service Processor."

Updating MAE Configuration Parameters in an Upgraded Service Processor

Your 3746 configurations are now merged with your MAE configurations. However, you still need to enter any MAE IP parameters that were made in the worksheets.

與 ССМ									• 🗉
File Configura	ation		<u>O</u> ptions	Help					
Open	k								
		ne							
Import a conf	ilguration								
Exit		2880	2912	2944	2976	3008	3040	3072	3104
2368 2400	2432 2464	2496	2528	2560	2592	2624	2656	268 8	2720
	2048 2080	2112	2144	2176	2208	2240	2272	2304	2336
Open configura	tion choice								

Step 1. Open CCM, and from the File menu, click Open.

- Step 2. Select a configuration and click Open selected configuration.
- **Step 3.** When the configuration opens, use the worksheets, and following the steps in the **CCM** column, enter the MAE IP parameters that you have recorded.

Step 4. After you have finished making entries from the worksheets, save the configuration in CCM.

- Removing Token-ring Connections

Although this is not mandatory, you might want to remove the token-ring connection (feature code 5713 or feature code 9713) between the 3746 and the MAE. To remove the token-ring connection:

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

3746 Nways Multiprotocol Controller Models 900 and 950 Multiaccess Enclosure (MAE) MAE Migration Guide: Feature Code 3000 to Feature Code 3001

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