VAX Message Router VMSmail Gateway

Installation Guide

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Preface

Purpose of This Book

This book describes how to install the Message Router™ VMSmail Gateway Version 3.5. It also describes how to upgrade from Version 3.3A of the Gateway.

Intended Audience

This book is for the person responsible for installing and maintaining the Message Router VMSmail Gateway. That person should be familiar with operating system management and DECnet™, and have access to the SYSTEM account on the OpenVMS™ VAX™ system where the Gateway is to be installed.

How to Use this Book

Read Chapter 1 and Chapter 2 to understand the preparations required before installation.

Read Chapter 3 for a step-by-step description of the interactive installation procedure.

Refer to Appendix A for a list of the files supplied as part of the Message Router VMSmail Gateway distribution kit.

Refer to Appendix B for an example of a successful Gateway installation on OpenVMS Version 5.5-2.

Related Documents

Before installing the Gateway, as described in Chapter 3, you must install Message Router Version 3.5 as described in the *VAX Message Router Installation Guide*.

You may also need to refer to:

VAX Message Router VMSmail Gateway Release Notes

The Release Notes are found in the following location:

SYS$HELP:MRGATE035.RELEASE_NOTES

The Message Router VMSmail Gateway documentation consists of the following guides:

- *VAX Message Router VMSmail Gateway Installation Guide* - this guide
- *VAX Message Router VMSmail Gateway Management Guide* - explains how to configure and manage the Gateway
- *VAX Message Router VMSmail Gateway User's Guide* - explains how to address mail using various User Agents

You may also need to refer to the following books for information on the software products with which the Gateway interacts:

- *Introduction to Message Router*
- *VAX Message Router Configuration Guide*
- *VAX Message Router Management Guide*
- *VAX Message Router Management Reference Manual*
- *VAX Message Router Release Notes*
- *VMS Authorize Utility Manual*
- *VMS License Management Utility Manual*
- *OpenVMS Version 5.5 Upgrade and Installation Manual*

Alternatively, you can complete the prepaid Reader's Comments form at the end of this guide.

Conventions

The following conventions are used in this book:

this typeface	Indicates commands or responses that you type. Unless otherwise stated, press Return after each command or response.
variable	Represents variables to type in commands or responses.
`this typeface`	Indicates prompts and messages from the computer and also an example of code.
`$`	A dollar sign ($) is the default user prompt.

[ ]	Brackets are used after questions to enclose the default answer. Press Return to accept the default. Brackets also denote a directory specification.
...	Horizontal ellipses indicate that additional text can be entered. In the MB$CONTROL command, horizontal ellipses indicate that you can add identifiers for other MAILbus™ Gateways, for example, MRX for the Message Router X.400 Gateway.
VMSmail	Refers to the OpenVMS Mail Utility.
Press	Indicates that you make one keystroke with an editing or command key, for example, press Return.
Type	Indicates characters that you type at the keyboard.
Ctrl/Z	Indicates that you hold down the Ctrl key while pressing the other key (Z).

1 Introduction

1.1 Introducing the Gateway

The Message Router VMSmail Gateway is part of MAILbus. MAILbus comprises Message Router and its Gateways, of which the VMSmail Gateway is one. The Message Router VMSmail Gateway Kit contains the Message Router VMSmail Gateway and Message Router.

The Gateway allows you to exchange mail between VMSmail and a Message Router system. Using the Gateway, a VMSmail user and a user of a Message Router based mail system can send mail to each other.

VMSmail users can also use the Gateway when exchanging mail with each other. This enables them to take advantage of Message Router's store-and-forward capability, which is useful if a node is not operating.

1.2 Installing and Configuring

You must install Message Router Version 3.5 before you install the Gateway. You cannot use the Gateway until you have first installed and then configured it. You must configure Message Router before you configure the Gateway.

You do not have to configure the Gateway immediately after installing it. If you have other MAILbus components that you want to install, such as other Gateways, you can install these first and configure all the components, including Message Router, together. However, there is one exception to this: the Message Router X.400 Gateway (MRX) needs Message Router to be configured before it can be installed.

Before starting the installation procedure, you must use the VMS License Management Utility to register and load the Product Authorization Key (PAK) for the Gateway, MR-VMSMAIL-GATEWAY. If you install the Gateway without first loading and registering its PAK, the installation verification procedure fails. Refer to the *VMS License Management Utility Manual* for information on how to use the VMS License Management Utility.

1.2.1 The Installation Procedure

This guide explains how to install the Message Router VMSmail Gateway on an OpenVMS operating system using VMSINSTAL. VMSINSTAL is a command procedure used to install optional software products on an OpenVMS operating system. Basic knowledge of VMSINSTAL is required to perform the installation. This procedure is interactive and takes you through the installation step by step. Each step is described fully in Chapter 3.

You can check that the installation has succeeded by running the installation verification procedure (IVP) after the installation is complete. The IVP, if you request it, runs automatically after the installation, and is described fully in Chapter 3. If the IVP runs successfully, the Gateway software resides on your system, but cannot be used until it is configured.

Installing the Gateway and running the IVP should take about 15 minutes, depending on the system configuration and type of media used. The installation procedure is the same, regardless of the distribution media.

The installation procedure varies slightly, according to whether you are performing a new or an upgrade installation. The differences are fully described in Chapter 2.

Prepare your system for installation by following the instructions in Chapter 2.

1.2.2 The Configuration Procedure

After installing the Gateway, configure it as described in the *VAX Message Router VMSmail Gateway Management Guide*. You will not be able to use the Gateway until it has been configured.

The configuration procedure allows you to customize the Gateway to meet the requirements of your system.

1.3 Handling Installation Errors

It is a good idea to take a log of the installation procedure to keep a record of any errors. If you receive an unexpected error message during installation, do the following:

1. Check that you have responded to the prompts correctly
2. If you have made a mistake and are re-prompted, enter the correct information
3. If re-entering the information fails, restart the installation
4. If the installation fails again at the same point, contact Digital as follows:
   - Contact your Customer Support Center, if you have a service contract

- Contact your local Digital office to arrange for a service contract, if you do not have one

Turn to Chapter 2 to prepare for installation.

2
Preparing to Install the Gateway

2.1 Preparation Checklist

Complete the steps in the following checklist to prepare your OpenVMS VAX system for the new or upgrade installation:

1. Ensure that your Gateway distribution kit contains everything listed on the bill of materials, which is included with the kit.

   The distribution medium may be a magnetic tape or disk(s), or an optical disk, containing all the files listed in Appendix A. The type of media depends on your system hardware.

2. Ensure that your system has the prerequisite software and hardware. See Section 2.2.

3. Ensure that the SYSTEM account is setup with sufficient quota. See Section 2.3.

4. Ensure that the Product Authorization Key (PAK) for your Gateway is registered and active. See Section 2.3.

5. Prepare the system for installation. See Section 2.3.

6. Make sure Message Router Version 3.5 that has been successfully installed on your system. You can do this by running the Message Router IVP during the Message Router installation. You do not have to configure Message Router Version 3.5 before installing the Gateway.

   If you run the Gateway IVP during the Gateway installation, Message Router is set running on the node where you are installing the Gateway. Message Router and the Gateway are shut down after the Gateway IVP has been run.

2.2 Prerequisite Software and Hardware

To install the Message Router VMSmail Gateway Version 3.5, you must have:

- Version 5.5-2, 6.2 and 7.1 Year 2000 ECO patches installed
- Message Router Version 3.5 installed.
- OpenVMS™ for VAX™ Version 5.5-2, Version 6.2, or Version 7.1
- OpenVMS™/VAX Version 5.5-2 either DECnet VAX Version 5.5-2 or DECnet/OSI ® Version 5.6B.
- OpenVMS™/VAX Version 6.2 either DECnet VAX Version 6.2 or DECnet /OSI ® Version 6.3.
- OpenVMS™/VAX Version 7.1 either DECnet VAX or DECnet/OSI ® Version 7.1.
- You need a valid license (MR-VMSMAIL-GATEWAY) to use V3.5 of the Gateway.

  The Gateway runs on either Phase IV DECnet or DECnet/OSI for OpenVMS. If the Gateway is running on DECnet/OSI, there are some restrictions to how messages can be addressed. See Section 6.2 in the Release Notes for Message Router VMSmail Gateway V3.5 for details of these restrictions in addressing.

  It is not supported to run V3.5 of the Gateway on a VAXcluster™ that is running a mixture of DECnet/VAX Phase IV and DECnet/OSI for OpenVMS VAX.
- A valid VAX or MicroVAX system configuration.

  Note that you cannot use node names longer than six characters with the Message Router VMSmail Gateway. Therefore, on DECnet/OSI systems, the node name synonym database must be accessible on the node where the Message Router VMSmail Gateway is installed.
- Optional: DECwindows MOTIF installed (required for the support of CDA documents).
- A minimum of 5000 free blocks on the system disk available for installation and 700 free blocks available after installation.
- About 6000 free blocks on the target disk. This is the disk where the Gateway directory is to be created.

2.2.1 Tailoring OpenVMS

You must check that appropriate OpenVMS software is available on your system. Do this using the OpenVMS Tailoring utility. The tailoring utility enables you to add and remove software from the OpenVMS Version 5.5-2 system. You can use the OpenVMS Tailoring utility on any VAX system, but you are more likely to need it on a MicroVAX.

Message Router Version 3.5 requires the following classes of OpenVMS files:

- OpenVMS Required Saveset
- Network Support
- Programming Support
- Secure User's Environment
- Utilities

If any of these classes are missing, use the OpenVMS Tailoring utility (VMSTAILOR) to install them. Refer to *OpenVMS Version 5.5 Upgrade and Installation Manual* for details of VMSTAILOR. When you have completed these preparations, go to Section 2.3.

2.3 Preparing Your System for Installation

Before installation, ensure you are logged on to the SYSTEM, or suitably privileged, account.

To install the Gateway, use VMSINSTAL. Before invoking VMSINSTAL, prepare your system, as follows:

1. Check that the Gateway PAK is registered and active, by typing the following command:

   ```
   $ LICENSE LIST MR-VMSMAIL-GATEWAY /FULL
   ```

   The license for your Gateway should be displayed. If it is not displayed, you need to register and load your Gateway PAK. For details of how to do this, see the *VMS License Management Utility Manual*.

2. If you have not already done so, check that there are no active users on the system using the following command:

   ```
   $ SHOW USERS
   ```

   The system lists the active users currently on the system.

   If there are any users active on the system, ask them to log out by typing:

   ```
   $ REPLY /BELL /USERNAME "PLEASE LOG OUT"
   ```

3. You may want to keep a log of the installation procedure. You can do this either by using the operator's console, which is usually a hardcopy terminal, or by keeping a log, as follows:

   ```
   $ SET HOST 0 /LOG=filename
   ```

   where ***filename*** is the name of the file that is to contain the installation log.

4. Backup your system disk.

   If a system failure occurs at a critical point during the installation, some files can be corrupted. Also, you are given the choice of purging old files during the installation.

5. Ensure that there are at least 5000 blocks available on the system disk for the installation of the Gateway. After installation, the Gateway needs at least 700 blocks on the system disk and about 6000 blocks on the target disk. Of this 6000 blocks on the target disk, the installed Gateway software uses 1800 blocks. The remaining 4200 blocks are used to hold messages, database and queue files.

6. You must ensure that the SYSTEM account is set up with sufficient quota. The quotas that you set to install and run Message Router are sufficient to install and run the Gateway.

7. The Gateway requires the following minimum free global pages and global sections:

   ```
   100 GBLPAGES available
     2 GBLSECTIONS available
   ```

   Use the following commands to find the number of available global pages and global sections:

   ```
   $ WRITE SYS$OUTPUT F$GETSYI("FREE_GBLPAGES")
   $ WRITE SYS$OUTPUT F$GETSYI("FREE_GBLSECTS")
   ```

   If necessary, make incremental changes to the parameter values. Edit the file SYS$SYSTEM:MODPARAMS.DAT to include the following lines:

   ```
   ADD_GBLPAGES=100
   ADD_GBLSECTIONS=2
   ```

8. You must ensure that the account that VMSmail uses is set up with sufficient quota. By default, VMSmail uses the MAIL$SERVER account.

   Set FILLM for the account that VMSmail uses to at least 20.

   Set BYTLM for the account to 512 multiplied by FILLM.

To set the quota for these parameters, use the Authorize utility as follows:

a. Invoke the Authorize utility:

```
$ RUN SYS$SYSTEM:AUTHORIZE
```

b. Modify the FILLM quota:

```
UAF> MODIFY accountname /FILLM=quota1
```

where:

- ***accountname*** is the name of the account that VMSmail uses
- ***quota1*** is the quota you want to specify for FILLM, and should be at least 20

c. Modify the BYTLM quota:

```
UAF> MODIFY accountname /BYTLM=quota2
```

where:

- ***accountname*** is the name of the account that VMSmail uses
- ***quota2*** is 512 multiplied by the ***quota1*** you specified for FILLM

d. Exit from the Authorize utility:

```
UAF> EXIT
```

If these quotas for the account that VMSmail uses are not set sufficiently high, a message sent to many recipients on many nodes might not be delivered efficiently.

Note

During the configuration procedure, you can specify the number of nodes that the Gateway can connect to at one time. The default is 5 nodes. You must set the FILLM quota for the account that VMSmail uses to the number of nodes that can be connected to at any one time, plus 4. If you choose to increase the number of nodes during the configuration, you will need to modify the FILLM and BYTLM quotas accordingly.

9. Check that VMSmail is working by sending a mail message to 0::SYSTEM. If the message arrives at the SYSTEM account, VMSmail is working.

10. If Message Router Version 3.5 is running on your system, you must stop it and all MAILbus components as follows:

    ```
    $ @SYS$MANAGER:MB$CONTROL STOP=(ER,...,TS,DDS,MS)
    ```

    where . . . is a list of the identifiers of other MAILbus components that are installed on your system. If this is not a new installation, include MRG in this command.

    You must use this command on every node in a VAXcluster™.

If you are upgrading the Gateway from Version 3.2, or reinstalling Version 3.3 of the Gateway, complete the further preparations described in Section 2.4.

If you are installing the Gateway on a VAXcluster or Local Area VAXcluster, complete the further preparations described in Section 2.5.

Otherwise, turn to the next chapter to install the Gateway.

2.4 Further Preparations for an Upgrade Installation or a Reinstallation

Customers who have Message Router VMSmail Gateway V3.2 or later can upgrade to V3.5 directly. Customers who have earlier Versions need to install atleast V3.2 and then upgrade to V3.5.

When you install V3.5 of the Gateway, VMSINSTAL asks you whether you have a Product Authorization Key (PAK) for V3.5. Answer **YES** if you have a License PAK for V3.2 or V3.3 of the Gateway, because V3.5 uses the same PAK as V3.2 and V3.3. If you have a License PAK for V3.2 or V3.3 of the Gateway, you do not need a new PAK for V3.5 of the Gateway.

However, if you have a Nonlicense PAK for V3.2 or V3.3 of the Gateway, you must update the PAK to allow you to run V3.5 of the Gateway. If you are not sure whether you have a License PAK or Nonlicense PAK, examine the Authorization Number data field on the PAK. If the second and third characters correspond to the list below, you have a Nonlicense PAK:

FT, IM, QM, RE, SI, SP, TC, TP, TS, WS

In addition to the above list, a PAK that has the letters CS as the second and third characters is not valid unless it was generated by ALL–IN–1™ IOS or MailWorks™.

Prepare your system for installation as follows:

1. If you are upgrading the Gateway from Version 3.2, you must remove MRTOVMS from the batch queue.

During the installation procedure, you are asked if you want to purge files replaced by this installation. If you are reinstalling Version 3.3 of the Gateway and purge your files, as recommended, you must also remove MRTOVMS from the batch queue.

To remove MRTOVMS from the batch queue, log in to the SYSTEM account, and type:

```
$ SHOW QUEUE queuename /ALL
```

where ***queuename*** is the name of the batch queue MRTOVMS is running on. The default queue name is MB$BATCH.

This command shows the list of jobs queued to run on the batch queue.

Examine the queue for the MRTOVMS entry and make a note of the entry number. Delete this entry from the queue by typing:

```
$ DELETE /ENTRY=entrynumber queuename
```

where ***entrynumber*** is the entry number noted above and ***queuename*** is the name of the queue.

2. If you configured the Gateway to run with exception reporting, you must also delete MB$MRG from the batch queue. Do this in the same way as you deleted MRTOVMS from the batch queue.

   If either of these two entries are in the batch queue, the old batch jobs will fail if you select the purge option during the installation procedure.

3. If you are installing the Gateway on a VAXcluster or Local Area VAXcluster, complete the further preparations described in Section 2.5. Otherwise, turn to Chapter 3 to install the Gateway.

2.5 Preparing to Install the Gateway on a VAXcluster or Local Area VAXcluster

You can run the Gateway on any OpenVMS VAXcluster or Local Area VAXcluster configuration. For each Gateway in the cluster, you need to register and load your Gateway Product Authorization Key (PAK), using the VMS License Management Utility. The *VMS License Management Utility Manual* describes how to register and load your PAK.

In a VAXcluster, all the nodes may share a single SYSUAF.DAT file and DECnet database or one group of nodes may share one set of resources, and another group may share a different set of resources. Also, in a cluster, there may be a single system disk or multiple system disks.

Irrespective of how your cluster is defined, there must be only one Message Router VMSmail Gateway environment within the cluster. However, the Gateway does not need to be installed and configured on all nodes in a cluster.

Choose the set of nodes that you want the Message Router VMSmail Gateway to run on, and make sure you install it such that the installation satisfies the following two constraints:

- It modifies all the SYSUAF.DAT files and DECnet databases that are shared by those nodes
- It modifies all the system disks that are used by those nodes

To satisfy both of these constraints, you may need to perform more than one installation. However, all the installations of the Gateway on a cluster must use the same Message Router VMSmail Gateway environment, that is, the same MB$ directory structure and associated data files.

When you have installed the Gateway, you must configure it. As part of configuration you can choose whether to enable the use of the cluster alias, if one is defined. You can also choose to start a minimum set of Message Router VMSmail Gateway processes on some of the nodes in the cluster. (See the *VAX Message Router VMSmail Gateway Management Guide*.)

Turn to Chapter 3 to install the Gateway.

3
Installing the Gateway

This chapter explains how to install the Gateway.

3.1 Overview of VMSINSTAL

VMSINSTAL is a procedure that can be used to install optional software products on the OpenVMS operating system. VMSINSTAL requires at least two parameters:

- The name of the product(s) being installed
- The name of the device where the distribution medium is mounted or loaded

3.2 Installation Procedure

If possible, use a hardcopy terminal when performing the installation, to preserve a record of the procedure in case of failure.

Remember that you can call on-line help by typing a question mark (?) in response to any prompt.

Complete the following steps:

1. Log in to the SYSTEM account, and type the following command:

   ```
   $ @SYS$UPDATE:VMSINSTAL MRGATE035 device OPTIONS N
   ```

   where:

   - **MRGATE035** is the identity of the product being installed
   - ***device*** is the name of the device where the distribution medium is to be mounted, for example, MTA0
   - **OPTIONS N** provides the option of reading or printing the on-line release notes

Note

Do not use the VMSINSTAL alternate root option, OPTION R. The Message Router VMSmail Gateway does not support this option in VMSINSTAL.

If this is a reinstallation of the Gateway Version 3.5, you can omit the parameter OPTIONS N, provided you have already read the release notes.

2. The procedure starts, and displays:

```
        VAX/VMS Software Product Installation Procedure Vx.x

It is dd-mmm-yyyy at hh:mm.

Enter a question mark (?) at any time for help.
```

   where *dd-mmm-yyyy* and *hh:mm* are the current date and time, and *x.x* is the OpenVMS version number.

3. You may receive the following warning message:

```
%VMSINSTAL-W-ACTIVE, The following processes are still active.

* Do you want to continue anyway [NO]?
```

   If you receive any warning messages, you are advised to exit from the installation procedure, by pressing RETURN, and correct the problem, as described in Chapter 2. Then restart the installation.

   If any processes are still active, you are advised to shut them down. To do this, press RETURN to accept the default answer of NO and to exit from the installation procedure. Ask users with active processes to log out, as described in step 2 of Section 2.3. Then restart the installation.

   If you want to continue the installation regardless of the warning messages, type **YES**.

4. You may receive one or more of the following error messages:

```
%VMSINSTAL-E-LOWQUOTA, The following account quotas for Message
Router VMSmail Gateway V3.5 are too low.
%VMSINSTAL-E-LOWSYSGEN, The following SYSGEN parameters for Message
Router VMSmail Gateway V3.5 are too low.
```

   In this case, the installation will cease immediately. You are not given the option to continue.

   A list of the incorrect quotas and/or parameters is displayed. You must set these quotas and/or parameters to the values stated in Chapter 2.

5. The procedure asks:

```
* Are you satisfied with the backup of your system disk [YES]?
```

   If the system disk has not recently been backed up, type **NO** to abort the installation and make a backup copy.

   Otherwise, press RETURN to accept the default answer of YES.

6. The procedure instructs you to mount the distribution volume:

```
* Please mount the first volume of the set on device

* Are you ready?
```

   where *device* is the device name you supplied in Step 1.

   When you have mounted the distribution volume, type **YES**.

7. The procedure confirms that the volume has been successfully mounted and displays:

```
%MOUNT-I-MOUNTED, Message Router VMSmail Gateway mounted on _device

The following products will be processed:
   MRGATE V3.5

 Beginning installation of MRGATE V3.5 at hh:mm

%VMSINSTAL-I-RESTORE, Restoring product save set A ...

    Release notes included with this kit are always copied to SYS$HELP.

    Additional Release Notes Options:

 1.  Display release notes
 2.  Print release notes
 3.  Both 1 and 2
 4.  None of the above

* Select option [2]:
```

8. If you specified option 4, the procedure continues at Step 9.

   Otherwise, the procedure displays a list of options relating to the release notes. Select the option that prints the release notes.

   If you select the option that prints the release notes, the procedure displays:

```
* Queue name[SYS$PRINT]:
```

Enter the name of a print queue where you want the release notes to be printed. The procedure then displays a message telling you that the release notes have been successfully queued to the printer. If you do not specify the name of a print queue, the output is directed by default to SYS$PRINT.

9. The procedure asks:

   ```
   * Do you want to continue the installation [NO]?
   ```

   You are advised to exit from the installation and read the release notes. Press RETURN to accept the default answer of NO.

   Otherwise, type **YES** and press RETURN.

   When you have read the release notes you can restart the installation, omitting the parameter OPTIONS N.

10. The procedure confirms that the product's release notes have been moved to SYS$HELP.

    ```
    %VMSINSTAL-I-RELMOVED, Product's release notes have been successfully
    moved to SYS$HELP
    ```

11. The procedure displays copyright information followed by details of the product that you want to install:

    ```
    Product:          MR-VMSMAIL-GATEWAY
    Producer:         DEC
    Version:          3.5
    Release Date:     dd-mmm-yyyy
    ```

    where *dd-mmm-yyyy* is the release date.

    VMSINSTAL displays:

    ```
    * Does this product have an authorization key registered and loaded?
    ```

    If you have not registered and loaded the Gateway PAK, type **NO** to abort the installation, and refer to the *VMS License Management Utility Manual* for a description of how to register and load the Gateway PAK. When you have registered and loaded the PAK, restart the installation.

    If the Gateway PAK is already registered and loaded, type **YES**.

12. The procedure asks:

    ```
    * Do you want help text printed before every question [NO]?
    ```

    Help text is available for all questions asked during the installation. If you want the help text displayed before each question, type **YES** and press RETURN.

    Otherwise, press RETURN to accept the default answer of NO.

Remember that you can still type a question mark (?) in response to any prompt, to call on-line help if you do not want help text printed automatically.

13. The procedure asks:

    ```
    * Do you want to purge files replaced by this installation [YES]?
    ```

    Press RETURN to accept the default answer of YES. Otherwise, type **NO**.

14. The procedure asks:

    ```
    * Do you want to run the IVP after the installation [YES]?
    ```

    You are advised to run the IVP to check that the installation has been successful. Press RETURN to accept the default answer of YES.

    Otherwise, type **NO**.

15. If the procedure finds a previous Message Router VMSmail Gateway installation, VMSINSTAL displays:

    ```
    A Message Router VMSmail Gateway V3.* system has been found.
    Any data from this system will be included in the current
    installation.
    ```

16. The procedure displays:

    ```
    You have answered all the questions for the
    Message Router VMSmail Gateway installation.
    The Message Router VMSmail Gateway is now being installed.
    The installation will take approximately 15 minutes
    depending on system configuration and media type.
    ```

17. The procedure displays a series of messages that tell you that the generation phase of the Gateway installation is proceeding. There is a pause between each message.

    If this is a reinstallation of Version 3.5 of the Gateway, or an upgrade from an earlier version, the procedure continues at Step 18. Otherwise, for a new installation, the procedure displays:

    ```
    %MRG-I-CHECDIRS, Checking Directories
    %MRGATE-I-CREMBDIR, Creating directory device:[MB$.MRG]

    %VMSINSTAL-I-RESTORE, Restoring product save set B ...


    %MRG-I-SETMRGFILES, Setting Message Router VMSmail Gateway file
    ownership and protection
    %MRG-I-ASIGNMRGATE, Assigning Message Router VMSmail Gateway files
    to target directories
    ```

If the installation procedure finds an account or directory it does not expect, the following message is displayed:

```
%MRG-I-ACCEXIST, MRGATE account already existed.

        The account already exists. It should only exist when
        the Message Router VMSmail Gateway is re-installed.

        Check that the account does not have another use.
```

The installation procedure continues at Step 19.

18. If this is a reinstallation of Version 3.5, or an upgrade from an earlier version of the Gateway, the procedure displays:

```
%MRG-I-MODACC, Modifying the MRGATE account
%MRG-I-CHECDIRS, Checking Directories

%VMSINSTAL-I-RESTORE, Restoring product save set B ...


%MRG-I-SETMRGFILES, Setting Message Router VMSmail Gateway file
ownership and protection
%MRG-I-ASIGNMRGATE, Assigning Message Router VMSmail Gateway files
to target directories
```

19. After VMSINSTAL has marked the files for moving to the Gateway, more messages are displayed:

```
 The generation phase of the Message Router VMSmail Gateway
 installation is now complete.

    In order to tailor the Message Router VMSmail Gateway to your
    requirements, you must use the MAILbus configuration procedure,
    SYS$MANAGER:MB$CONFIG.COM.
```

You will not have a working system until the Gateway has been configured. The configuration procedure is described in the *VAX Message Router VMSmail Gateway Management Guide*. You also need to refer to the *VAX Message Router Configuration Guide* and other gateway management guides, if you want to configure all the MAILbus products together.

20. The procedure moves the Gateway files to their specified directories:

```
%VMSINSTAL-I-MOVEFILES, Files will now be moved to their target
directories...
```

When this message appears, the installation is completing.

3.3 Running the Installation Verification Procedure (IVP)

The IVP runs automatically after the installation is complete, if you requested it. It checks that the installation was successful. The following is an example of the Gateway installation verification procedure.

```
          IVP for Message Router VMSmail Gateway

                    Version V3.5-402

    This is the installation verification procedure (IVP) for
    the Message Router VMSmail Gateway. It checks that the Gateway is
    successfully installed on your system.

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================================================================


Message Router VMSmail Gateway Version V3.5-402 IVP
This verification procedure is in four stages:

Stage 1 checks that all the Gateway files exist, and are the right size.

Stage 2 sets DECnet running if necessary.

Stage 3 tests the Gateway by sending a mail message from VMSmail to
Message Router.  When this stage is complete, a message is displayed
on the screen.

Stage 4 tests the Gateway by sending a mail message from Message Router
to VMSmail.  When this stage is complete, you will receive a mail
message.  This message is sent to the account from which you are
performing the verification.

The verification procedure has not completed successfully
until you have seen both the screen message and the mail message.

----------------------------------------------------------------

Message Router VMSmail Gateway V3.5-402 file check
The total number of files is 17.
All files exist and are the correct size.
End of Message Router VMSmail Gateway V3.5-402 file check.

----------------------------------------------------------------

Checking MOURYA VMSmail network response
Succeeded in activating VMSmail DECnet object 27 on node MOURYA

        Starting Management Service

%JBC-I-QUENOTMOD, modifications not made to running queue

        Starting Transfer Service
```

```
Starting the Message Router VMSmail Gateway

Stage 3 of the installation verification procedure for
the Message Router VMSmail Gateway V3.5-402 successful

Waiting for delivery of VMSmail sent through Gateway V3.5-402.
The IVP waits for a maximum of 2 minutes before timing out.
New mail on node MOURYA from MOURYA::MRGATE::"MRGATE::SYSTEM"

Stage 4 of the installation verification procedure for
the Message Router VMSmail Gateway V3.5-402 successful

Shutting down the Message Router VMSmail Gateway
Shutting down Transfer Service
Shutting down Management Service

The Message Router VMSmail Gateway V3.5-402 IVP completed successfully
Installation of MRGATE V3.5 completed at hh:mm
VMSINSTAL procedure done at hh:mm
```

If you performed the installation from the console medium, you are asked to remove the distribution volume from the console device and replace it with the console volume:

```
Please mount the console volume on device:
Are you ready?
```

where *device* is the device name that you specified in Step 1 of Section 3.2.

When you have replaced the console volume, type **YES**.

The system confirms that the console volume has been mounted, and then exits from VMSINSTAL:

```
%MOUNT-I-MOUNTED, CONSOLE mounted on _device:

          VMSINSTAL procedure done at hh:mm
```

Provided you have received the mail message from stage 4 of the IVP, the installation was successful. You must now complete the installation as described in Section 3.4.

If you do not receive the mail message from stage 4, you must reinstall the Gateway. If the IVP did not indicate the reason for the failure of the installation, you can set VERIFY on the installation procedure, so that the IVP displays more information on your screen.

To set VERIFY on the Gateway installation procedure, use the following command:

```
$ VFY$MRGCVP=1
```

You then install the Gateway again in the usual way.

3.4 Completing the Installation

Following the successful completion of the installation and the IVP, check the location of the software (described in Section 3.5). You must then configure the Gateway as described in the *VAX Message Router VMSmail Gateway Management Guide*. If you do not configure the Gateway you will not be able to use it.

If you do not want to configure the Gateway immediately, restart Message Router and other MAILbus products that you stopped, using the command:

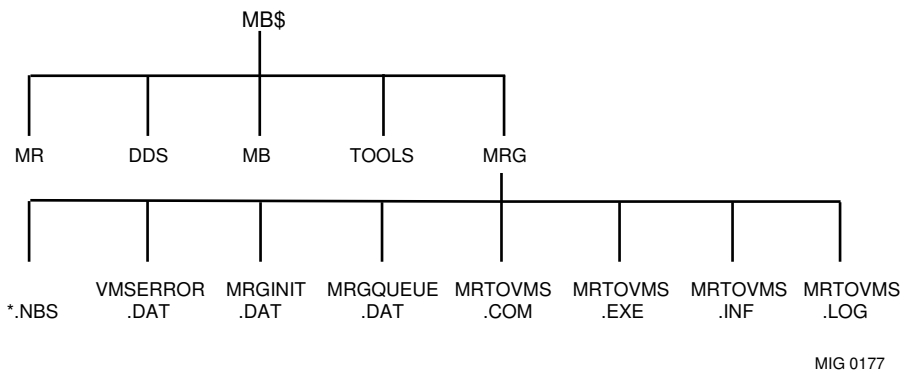
```
$ @SYS$MANAGER:MB$CONTROL START=(MS,DDS,TS,...,ER)
```

You must restart MAILbus on every node in a cluster.

3.5 Location of the Gateway Software

Figure 3–1 shows the directory structure of the Gateway software in relation to other MAILbus software.

Figure 3–1 Directory Structure of the MRGATE Account



Of the files shown in [MB$.MRG], only VMSERROR.DAT, MRTOVMS.COM, and MRTOVMS.EXE are installed during the installation procedure. The remaining files are created during the configuration or operation of the Gateway.

If you are reinstalling or upgrading the Gateway, new versions of VMSERROR.DAT, MRTOVMS.COM, and MRTOVMS.EXE are installed. The other files shown in [MB$.MRG] are not affected by the reinstallation or upgrade installation.

During configuration, MRGINIT.DAT is recreated, with new configuration data, or data from the previous MRGINIT.DAT, depending on whether you specify that you want to keep old data.

Initially, allow a disk quota of at least 5000 blocks for the MRGATE account. When required, the quota should be raised to allow for any increase in the volume of message traffic.

Table 3–1 shows how the Gateway software is distributed after the installation. The file protection codes are the recommended settings that are issued in the distribution kit.

Table 3–1 Location of Gateway Files

Directory and File	Protection (S,O,G,W)
[MB$.TOOLS]	
MRGATE$CVP.DAT	(RWED,RWED,RE,)
MB$MRGATE.COM	(RWED,RWED,RE,RE)
[MB$.MB.MB$COM]	
MB$MRG_ER.COM	(RWED,RWED,RE,RE)
MB$MRG_ERRORS.DAT	(RWED,RWED,RE,RE)
[MB$.MB.MB$WORK]	
MBMRGCONFIG$CUSTOMIZED.DAT	(RWED,RWED,RE,RE)
MBMRGCONFIG$DEFAULT.DAT	(RWED,RWED,RE,RE)

(continued on next page)

Table 3–1 (Cont.) Location of Gateway Files

Directory and File	Protection (S,O,G,W)
[MB$.MRG]	
MRTOVMS.COM	(RWED,RWED,RWED,RE)
MRTOVMS.EXE	(RWED,RWED,RWED,RE)
VMSERROR.DAT	(RWED,RWED,RWED,RE)
SYS$COMMON:[SYSHLP]	
MRGATE035.RELEASE_NOTES	(RWED,RWED,RWED,RE)
MB$MRG_CONFIG.HLB	(RWED,RWED,RE,RE)
SYS$COMMON:[SYSLIB]	
MRFROMVMS.EXE	(RWED,RWED,RE,RE)
SYS$COMMON:[SYSMGR]	
MB$$MRG_CONFIG.COM	(RWED,RWED,RE,RE)
MB$$MRG_START.COM	(RWED,RWED,RE,RE)
MB$$MRG_STOP.COM	(RWED,RWED,RE,E)
MRGATE$DELETE_SPECIFIC.COM	(RWED,RWED,,RE)
SYS$COMMON:[SYSMSG]	
MRGATE$MSG.EXE	(RWED,RWED,RE,RE)
SYS$COMMON:[SYSTEST.MB]	
MB$MRGCVP.COM	(RWED,RE,RE,)

A
Distribution Media

This appendix contains a list of the files contained in the installation save sets.

The files supplied in the installation save set A are:

MRGATE$PROTN.COM
MRGATE$FILES.DAT
MRGATE$IMAGES.DAT
MRGATE$DELETE_SPECIFIC.COM
KITINSTAL.COM
MRGATE$SYSGEN.DAT
MRGATE035.RELEASE_NOTES
MB$MRGCVP.COM
MRFROMVMS.EXE
MRGATE$MSG.EXE
MRTOVMS.EXE

The files supplied in the installation save set B are:

MB$MRG_CONFIG.HLB
MB$$MRG_CONFIG.COM
MBMRGCONFIG$CUSTOMIZED.DAT
MBMRGCONFIG$DEFAULT.DAT
MB$$MRG_START.COM
MB$$MRG_STOP.COM
MB$MRG_ER.COM
MB$MRG_ERRORS.DAT
MB$MRGATE.COM
MRTOVMS.COM
VMSERROR.DAT
MRGATE$STOP.DAT
MRGATE$CVP.DAT
MRGINIT.DAT
MB$CNFDB_IVP.DAT
MRINIT.DAT
MRSTOP.DAT

B

Sample Installation Procedure

This appendix gives an example of the log of a new installation of the Gateway on OpenVMS Version 5.5-2. It also gives an example of the test mail message sent through the Gateway.

```
$ @sys$update:vmsinstal mrgate035 DUAO: OPTIONS N

        OpenVMS VAX Software Product Installation Procedure V7.1

It is 30-JUN-1998 at 11:22.

Enter a question mark (?) at any time for help.

%VMSINSTAL-W-ACTIVE, The following processes are still active:
        SERVER_00BC
* Do you want to continue anyway [NO]? y

* Are you satisfied with the backup of your system disk [YES]?

The following products will be processed:

  MRGATE V3.5

        Beginning installation of MRGATE V3.5 at 11:22

%VMSINSTAL-I-RESTORE, Restoring product save set A ...
%VMSINSTAL-I-RELMOVED, Product's release notes have been moved to SYS$HELP.

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or an authorized sublicensor.

        Product:      MR-VMSMAIL-GATEWAY

        Producer:     DEC
```

```
        Version:      3.5

        Release Date: 26-JUN-1998

* Does this product have an authorization key registered and loaded? y

* Do you want help text printed before every question [NO]?

* Do you want to purge files replaced by this installation [YES]?

* Do you want to run the IVP after the installation [YES]?

        You have answered all the questions for the
        Message Router VMSmail Gateway installation.
        The Message Router VMSmail Gateway is now being installed.
        The installation will take approximately 15 minutes
        depending on system configuration and media type.

%MRGATE-I-CHECDIRS, Checking Directories
%MRGATE-I-CREMBDIR, Creating directory DKA100:[MB$.MRG]
%VMSINSTAL-I-SYSDIR, This product creates system disk directory  DKA100:[MB$.MRG].

%VMSINSTAL-I-RESTORE, Restoring product save set B ...

%MRGATE-I-SETMRGFILES, Setting Message Router VMSmail Gateway file ownership and protection
%MRGATE-I-ASIGNMRGATE, Assigning Message Router VMSmail Gateway files to target directories

 The generation phase of the Message Router VMSmail Gateway
 installation is now complete.

    In order to tailor the Message Router VMSmail Gateway to your
    requirements, you must use the MAILbus configuration procedure,
    SYS$MANAGER:MB$CONFIG.COM.

%VMSINSTAL-I-MOVEFILES, Files will now be moved to their target directories...


           IVP for Message Router VMSmail Gateway

                       Version V3.5-402

    This is the installation verification procedure (IVP) for
    the Message Router VMSmail Gateway. It checks that the Gateway is
    successfully installed on your system.

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================================================================


        Message Router VMSmail Gateway Version V3.5-402 IVP

This verification procedure is in four stages:

Stage 1 checks that all the Gateway files exist, and are the right size.

Stage 2 sets DECnet running if necessary.
```

```
Stage 3 tests the Gateway by sending a mail message from VMSmail to
Message Router.  When this stage is complete, a message is displayed
on the screen.

Stage 4 tests the Gateway by sending a mail message from Message Router
to VMSmail.  When this stage is complete, you will receive a mail
message.  This message is sent to the account from which you are
performing the verification.

The verification procedure has not completed successfully
until you have seen both the screen message and the mail message.

------------------------------------------------------------------

        Message Router VMSmail Gateway V3.5-402 file check
        The total number of files is 17.
        All files exist and are the correct size.
        End of Message Router VMSmail Gateway V3.5-402 file check.

------------------------------------------------------------------

Checking MOURYA VMSmail network response
Succeeded in activating VMSmail DECnet object 27 on node MOURYA

        Starting Management Service

%JBC-I-QUENOTMOD, modifications not made to running queue

        Starting Transfer Service

        Starting the Message Router VMSmail Gateway

        Stage 3 of the installation verification procedure for
        the Message Router VMSmail Gateway V3.5-402 successful

        Waiting for delivery of VMSmail sent through Gateway V3.5-402.

        The IVP waits for a maximum of 2 minutes before timing out.

 New mail on node MOURYA from MOURYA::MRGATE::"MRGATE::SYSTEM"

        Stage 4 of the installation verification procedure for

        the Message Router VMSmail Gateway V3.5-402 successful

Shutting down the Message Router VMSmail Gateway

Shutting down Transfer Service

Shutting down Management Service


        The Message Router VMSmail Gateway V3.5-402 IVP completed successfully

        Installation of MRGATE V3.5 completed at hh:mm

        VMSINSTAL procedure done at hh:mm

$ mail

You have 1 new message.
```

```
MAIL> read /new

From:   MOURYA::MRGATE::"MRGATE::SYSTEM" 30-JUN-1998 11:22:42.68
To:     MOURYA::SYSTEM
CC:
Subj:   Message Router VMSmail Gateway V3.5 CVP

From:   NAME: SYSTEM <SYSTEM@MRGATE@MOURYA>
To:     SYSTEM@MOURYA@MRGATE

This is a Gateway test message.

If you receive this message, stage 4 of the verification
procedure has successfully completed.

All stages of the verification procedure have now
completed successfully

MAIL>
```

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