VAX Message Router X.400 Gateway

Installation Guide

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Preface

Purpose of this Guide

This guide explains how to install the VAX™ Message Router™ X.400 Gateway (MRX) Version 3.5 on network nodes or clusters that run under the OpenVMS™ operating system. You should read the whole of this guide before installing the product.

After installing MRX, but before configuring it, you need to know the structure of the X.400 networks that you are joining. *VAX Message Router X.400 Gateway Management Guide* gives some examples of X.400 network configurations. You should not attempt the MRX configuration tasks described in Chapter 3 of this guide without reading the configuration and planning sections of the *VAX Message Router X.400 Gateway Management Guide* first.

Related Documents

The MRX documentation consists of the following guides:

- *VAX Message Router X.400 Gateway Installation Guide* — this guide
- *VAX Message Router X.400 Gateway Management Guide* — a complete, detailed guide to configuring and managing MRX
- *VAX Message Router X.400 Gateway Problem Solving Guide*—a guide to solving problems that may occur with MRX
- *VAX Message Router X.400 Gateway User's Guide* — a guide to addressing mail when using various user agents

You may also need to refer to the following guides for information on the software products with which MRX interacts: in particular how to install them. (Note that this is not an exhaustive bibliography for these products.)

- *Introduction to Message Router*
- *VAX Message Router Installation Guide*
- *VAX Message Router Configuration Guide*
- *VAX Message Router Management Guide*

- *DECnet/OSI for VMS Introduction, Planning and Glossary*
- *DECnet/OSI for VMS Network Management*
- *DECnet/OSI for VMS Network Control Language Reference*
- *DECnet/OSI for VMS X.25 Management*
- *OpenVMS Version 5.5 Upgrade and Installation Manual*
- *Introduction to VMS System Management*
- *Guide to VMS Files and Devices*
- *VMS License Management Utility Manual*
- *VMS Backup Utility Manual*

How to Use this Guide

Read the following chapters and appendixes in sequence:

- Chapter 1 gives a checklist of things you must do before installing MRX
- Chapter 2 gives a step-by-step guide to installing MRX, using the VMSINSTAL procedure
- Chapter 3 explains the things you must do after installing MRX
- Section A.1 lists the files supplied in the MRX distribution kit
- Appendix B gives an example log of a successful installation

Conventions

The following conventions are used in this book:

$	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, MRG for the Message Router VMSmail Gateway.
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
Preparing to Install MRX

This chapter explains how to prepare the system before installing the Message Router X.400 Gateway (MRX). It starts with an outline of the main tasks involved in the installation process.

1.1 The Tasks Involved

Before installing the MRX software, you need to carry out the following preparatory tasks:

- Read this manual throughout
- Check that the distribution kit is complete and correct, as described in Section 1.2
- Check that your system has the required hardware and software resources, as described in Section 1.3
- Prepare the system to receive the new software, as described in Section 1.4

When these tasks are complete, install MRX as described in Chapter 2. You do this using VMSINSTAL, an OpenVMS utility for installing optional software products in an OpenVMS environment. When the installation is complete, carry out the post-installation tasks described in Chapter 3.

You need to install MRX on at least one Message Router node in every Message Router network that requires MRX services. You can install MRX on more than one Message Router node in a network but not on more than one node in a VAXcluster™, if this is required for improving throughput. In this case, the installation procedure is the same for each node in turn.

If you are upgrading from an earlier version of MRX, then the procedure is much the same as when installing MRX for the first time. You can directly upgrade from V2.3 to V3.5. If you are running versions earlier than V2.3 you need to first upgrade to V2.3 and then to V3.5.

1.2 Checking the Distribution Kit

Make sure you have a complete kit, by checking the contents of the kit against the bill of materials. All kits should contain:

- A magnetic tape or a TK50 cartridge, containing the two save sets that contain the files listed in Section A.1
- A Software Product Description (SPD)
- The following MRX guides:
  - *VAX Message Router X.400 Gateway Installation Guide* — Version 3.5
  - *VAX Message Router X.400 Gateway Management Guide* — Version 2.3
  - *VAX Message Router X.400 Gateway Problem Solving Guide*— Version 2.3
  - *VAX Message Router X.400 Gateway User's Guide* — Version 2.3

Each kit should also contain the manuals for any other software products that are shipped with MRX.

One of the supplied files contains the MRX Release Notes. This is a short introductory document describing the features that are new to the current version of MRX. It also contains last-minute information about MRX, some of which may be relevant to the installation procedure. Therefore when you come to run VMSINSTAL, print the Release Notes as described in Chapter 2, and read them before installing MRX; alternatively you can view them on-screen.

1.3 Checking Hardware and Software Resources

To install MRX you need a valid VAX or MicroVAX™ hardware configuration. This must have sufficient disk space to install MRX and the prerequisite software products. For MRX itself you need to ensure the following space is available:

- At least 25000 blocks temporarily free on the disk that holds the SYS$UPDATE directory. VMSINSTAL uses this space to store the product saveset for the duration of the installation.

  If you used the OpenVMS Tailoring Utility to remove any software libraries after you installed OpenVMS on your system, you must make sure that the following OpenVMS classes are present for MRX to perform correctly:

  - OpenVMS required saveset
  - Programming support
  - Secure user's environment

- Network support
- Utilities
- OpenVMS DECwindows

  For more information on OpenVMS classes and tailoring, see the *OpenVMS Version 5.5 Upgrade and Installation Manual*.

  After replacing these libraries, make sure that you still have 25000 blocks temporarily free on the disk.

- 4800 blocks on the system disk. This is for MRX's permanent use to hold the MRX images and data files.
- At least 200 free blocks on the disk that holds the MAILbus files. This is to hold the MRX$ directory.

  This space is sufficient for the initial MRX$ directory, but you may need extra space for growth. As a guide, allow three blocks for each subscriber you intend to add.

  The installation procedure creates the MRX$ directory as a sub-directory of the MB$ directory. This means that you might need to increase the quota of the MBMANAGER account.

You also need the following prerequisite software installed on your system (with at least the given version numbers) before you install MRX:

MRX V3.5 requires:

- OpenVMS™ for VAX™ Version 6.2.
- For OpenVMS™/VAX Version 6.2 the DECnet/OSI ®required is Version 6.3
- Message Router Version 3.5

  Not only must Message Router be installed, but it must also be configured before you can install MRX. Refer to the *VAX Message Router Configuration Guide*.

- The ODA CDA Gateway Version 1.0, if you want MRX to handle ODIF documents.

You must also check that the Product Authorization Key (PAK) for MRX (MESSAGE-ROUTER-X.400) is registered and active by typing the following command:

```
$ LICENSE LIST /FULL MESSAGE-ROUTER-X.400
```

Details of the MESSAGE-ROUTER-X.400 license are displayed. Check that the license is active and if it is not, you must load and register the PAK for MRX as described in the *VMS License Management Utility Manual*.

1.4 Preparing the System

Before starting the installation, you must prepare the system to receive the new software as follows:

1. Log in to the SYSTEM account. If you want a record of the installation procedure, then use the command SET HOST with the /LOG qualifier: for example:

   ```
   $ SET HOST 0 /LOG=SYS$LOGIN:MRX_INSTALL.LOG
   ```

2. Use the OpenVMS Backup Utility to make a copy of the system disk and the disk on which you are installing MRX (if other than the system disk).

   If a system failure occurs at a critical point during installation, the disks could be corrupted. Preparing a backup copy enables you to recover the disks. Also, you are given the opportunity to purge old files during installation; the backup copy enables you to recover any files purged in error. Backup and recovery procedures are described in *VMS Backup Utility Manual*.

3. Make sure that you have the necessary prerequisite software installed and configured on your system. If any of the components of your MAILbus system are running, stop them by using the MAILbus command:

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

   where ... is replaced by other gateways such as MRG, MRP and MRS. If this is not a new installation, include MRX in this command.

4. Use the DCL command SHOW DEVICE to make sure that you have the necessary disk space, as listed in Section 1.3; for example:

   ```
   $ SHOW DEVICE SYS$SYSDEVICE

   Device        Device  Error   Volume        Free    Trans   Mnt
   Name          Status  Count   Label         Blocks  Count   Cnt

   $1$DOA0       Mounted   0     VAXVMSRL055   36895    210     4
   ```

5. If you used the OpenVMS Tailoring Utility to remove any software libraries after you installed OpenVMS on your system, you must make sure that the following OpenVMS classes are present for MRX to perform correctly:

   - OpenVMS required saveset
   - Programming support

- Secure user's environment
- Network support
- Utilities
- OpenVMS DECwindows

For more information on OpenVMS classes and tailoring, see the *OpenVMS Version 5.5 Upgrade and Installation Manual*.

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 MRX.

1.5 Installing MRX on a VAXcluster

If you install MRX on a VAXcluster, you must ensure that the VAXcluster complies with all the requirements for installing Message Router on a VAXcluster. These requirements are described in the *VAX Message Router Installation Guide*.

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 MRX environment within the cluster. However, MRX does not need to be installed and configured on all nodes in a cluster.

Choose the set of nodes that you want MRX 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 MRX on a cluster must use the same MRX environment, that is, the same MRX$ directory structure and associated data files.

If you have configured Message Router to use a cluster alias, you must set the /CLUSTER_ALIAS MRX control parameter. See the *VAX Message Router X.400 Gateway Management Guide* for information about the MRX parameters.

Digital recommends that only one MRX in a cluster should be connected to the OSI tower. If you install more than one MRX in a cluster, the rest should operate as slave translators, that is, they should not be connected to the OSI tower on their node.

For more information about managing MRX in a VAXcluster, refer to the *VAX Message Router X.400 Gateway Management Guide*.

2
Installing MRX

This chapter explains the procedure for installing the MRX software. Before you start, make sure that you have prepared the system as described in Section 1.4. Then work through the sections in this chapter:

- Section 2.1 explains the overall method of using the VMSINSTAL procedure to install MRX.
- Section 2.2 explains the type of errors that can arise in the course of running VMSINSTAL.
- Section 2.3 gives a step-by-step account of the VMSINSTAL procedure, explaining how to call the procedure, what happens at each step, and the responses you are required to make.

With the exception of the VMSINSTAL command (shown below) to install MRX V3.5, the installation procedure is the same as for MRX V2.3.

The command to install MRX V3.5 is:

```
@SYS$UPDATE:VMSINSTAL MRX035 device OPTIONS N
```

where *device* is the name of the device where the distribution medium is to be mounted.

2.1 How to Use VMSINSTAL

The MRX software consists of two save sets. You install the software from the save sets on to the system by using VMSINSTAL; this is an OpenVMS procedure for installing optional software products in an OpenVMS environment. The main steps are as follows:

- Log in to the SYSTEM account, and execute VMSINSTAL.
- The VMSINSTAL procedure takes the form of a dialogue in which you are asked a sequence of questions about the way MRX is to be installed. In response to each question you type the appropriate details and press RETURN.

The VMSINSTAL procedure is self-explanatory, but Appendix B contains a sample log of the VMSINSTAL procedure for the purposes of reference.

- Some questions offer a default answer, enclosed in square brackets [ ]. You can accept this default by pressing RETURN without typing anything.
- At any step you can get on-line help by typing a question mark (?) and pressing RETURN.
- You can abort the VMSINSTAL procedure at any time by pressing CTRL/Y. If, subsequently, you want to run VMSINSTAL again, you must start again from the beginning.
- The whole procedure should take about 20 minutes on a MICROVAX II. The installation verification procedure (IVP) runs automatically if you request it. The IVP checks that the MRX components are correctly installed. If you do not want to run the IVP automatically when MRX is installed, you can run it separately at a later date by entering the following command:

```
$ @MB$CVPDIR:MB$MRXIVP
```

VMSINSTAL distinguishes among the following kinds of installation, and installs the MRX files accordingly:

- First-time installation — that is, MRX has never been installed before
- Upgrade installation — an earlier version of MRX is already installed, and you are now installing Version 3.5
- Reinstallation — MRX Version 3.5 has been installed before, and is now being reinstalled, perhaps because of an earlier error

The list of MRX files in Table A-2 of the *VAX Message Router X.400 Gateway Installation Guide* should not include the MRX$MTA_CONVERT.EXE file. This file is no longer included in MRX.

The MRX CVP and IVP both check that all the MRX files are present. The total number of files now included in MRX is 30.

2.2 Error Handling

During the installation procedure, VMSINSTAL displays a number of cautionary messages and general information messages. Read all messages carefully and follow the advice they offer. If you are not sure how to answer a question, ask for explanatory text by typing a question mark (?) and pressing RETURN.

If you get an error message during installation, check that you have responded to the prompts correctly; you may have made a typing error or given an incorrect response. Also check that you have prepared the system properly beforehand, and that the required resources are all available.

If your responses are correct, but the error recurs, then restart the installation. If the installation fails again at the same point, you should contact:

- Your Customer Support Center, if you have a service contract with Digital
- Your local Digital office, if you do not have a service contract and want to arrange one

2.3 Installation Procedure

From the SYSTEM account on the node where you want to install MRX, enter:

```
$ @SYS$UPDATE:VMSINSTAL MRX035 device OPTIONS N
```

where *device* denotes the name of the device where you will mount the supplied software: for example, MTA0. If you omit the device name, VMSINSTAL will prompt you for it during the dialogue.

The `OPTIONS N` parameter enables you to print the Release Notes or view them on-screen, when the file is unbundled in the course of the procedure. If you have already read the Release Notes then omit this parameter.

The installation procedure starts.

3
After Installing MRX

After the installation is complete you should perform the following tasks:

- Configure MRX as described in the *VAX Message Router X.400 Gateway Management Guide*. If you do not want to configure MRX immediately, start the rest of MAILbus by entering the following command:

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

  Include the identifiers of any gateways installed other than MRX.

- If you operate on a cluster, identify the nodes on which you want MRXMAN to run, in addition to the node where the main MRX software is installed. (MRXMAN is the MRX management utility.)

A

MRX Files and Privileges

This appendix lists the files that are supplied on the MRX distribution media and the files that remain on your system after installation. It also describes the MRX images that are installed with privileges.

A.1 MRX Files

This section has two tables of MRX files:

- Table A–1 lists the files that make up MRX, as supplied on the MRX distribution media. The files are in two save sets: A and B.
- Table A–2 lists the files that are present on your system after installing MRX.

  The file protection codes apply respectively to System, Owner, Group, and World levels, and are the recommended settings applied in the distributed software.

Table A–1 MRX Files Supplied on Distribution Media

Files in Save Set A	
KITINSTAL.COM	MRX$COUNTRY_CODES.DAT
MRX$INIT.DAT	MRX$MTA_CONVERT.OBJ
MRX$PROV_FILES.DAT	MRX$PROV_IMAGES.DAT
MRX$SECURE_FILES.COM	MRX035.RELEASE_NOTES
MRXACTIVE.OBJ	MRXVERSION.OBJ
MRXVERSION.OPT	MRX$MTA_OPTIONS.OBJ

(continued on next page)

Table A–1 (Cont.) MRX Files Supplied on Distribution Media

Files in Save Set B	
Files in Save Set B	
DCF_BASE.OLB	DCF_BASE_X400.OLB
DCF_DSAF.OLB	DCF_MAIL_CONVERSIONS.OLB
DCF_MAIL_OPTIONS.OPT	DCF_MRX_CONVERSIONS.OLB
DCF_TRANSLATE.OLB	DCF_TRANSLATE_X400.OLB
KOAVMS.OLB	MB$$MRX_CONFIG.COM
MB$$MRX_START.COM	MB$$MRX_STOP.COM
MBMRXCONFIG$CUSTOMIZED.DAT	MBMRXCONFIG$DEFAULT.DAT
MB$MRXCVP.COM	MB$MRX_CONFIG.HLB
MB$MRX_ER.COM	MB$MRX_ERRORS.DAT
MRX$CONFIG_MSG.OBJ	MRX$CONTROL.OLB
MRX$CVP.DAT	MRX$DELETE_SPECIFIC.COM
MRX$MAN.OLB	MRX$NDN.OLB
MRX$PDU.OLB	MRX$PREPARE.COM
MRX$REQFREEOBJ.OLB	MRX$RTS.OLB
MRX$RUN.COM	MRX$SUBPROC.OLB
MRX$TBED.OLB	MRX$THREAD.OLB
MRX$TRN.OLB	MRX$WARNING.TXT
MRX.OPT	MRXCONFIG.COM
MRXMAN.HLB	MRXMAN.OPT
MRXM_ADDMRMBX.COM	MRXSUBPROC.OPT
MRXTBED.OPT	MRX_DUMPER.COM
OALIBR.OLB	OALLV.OLB
WPABASE.OLB	WPADOC.OLB
X400.CMU	X400A1INSTALL.COM
X400COUNTRY_CODES.DAT	X400COUNTRY_CODES.FRM
X400FM.FRM	X400FM1.FRM
X400HELP.MEM	XPORT.OLB

Table A–2 MRX Files Present After Installation

Directory & File	Protection	Description
SYS$SYSTEM		
MRX.EXE	RWED,RWED,RE,RE	MRX system image
MRXMAN.EXE	RWED,RWED,RE,RE	MRXMAN image
MRXTBED.EXE	RWED,RWED,RE,RE	MRX testbed image
MRXSUBPROC.EXE	RWED,RWED,RE,RE	MRX internal program
SYS$MANAGER		
MB$$MRX_START.COM	RWED,RWED,RE,RE	MRX start-up file
MB$$MRX_STOP.COM	RWED,RWED,RE,RE	MRX shutdown file
MB$$MRX_CONFIG.COM	RWED,RWED,RE,RE	MRX configuration procedure
MRX$DELETE_SPECIFIC.COM	RWED,RWED,RE,RE	procedure to remove unwanted files
SYS$HELP		
MRXMAN.HLB	RWED,RWED,RE,RE	MRXMAN help file
MRX035.RELEASE_NOTES	RWED,RWED,RE,RE	release notes
MB$MRX_CONFIG.HLB	RWED,RWED,RE,RE	configuration help file
SYS$MESSAGE		
MRX$CONFIG_MSG.EXE	RWED,RWED,RE,RE	configuration messages

(continued on next page)

Table A–2 (Cont.) MRX Files Present After Installation

Directory & File	Protection	Description
MRX$		
MRX$INIT.DAT	RWED,RWED,RE,RE	Initialization data file
MRX$COUNTRY_CODES.DAT	RWED,RWED,RE,RE	MRX country codes
MRX_DUMPER.COM	RWED,RWED,RE,RE	file dump utility
MRX$MTA_OPTIONS.EXE	RWED,RWED,RWED,RE	creates ODA CDA options files
MRX$CVP.DAT	RWED,RWED,RE,RE	MRX CVP data file
MRXM_ADDMRMBX.COM	RWED,RWED,RE,RE	MRXMAN support file
MRX$WARNING.TXT	RWED,RWED,RE,RE	default warning text
MRX$RUN.COM	RWED,RWED,RE,RE	MRX start-up file
MRX$ODIF_OPTIONS_*mta-name*.DAT	RWED,RWED,RWED,RE	ODIF options file
MRX$ (ALL–IN–1 files)		
X400FM.FRM	RWED,RWED,RE,RE	main form
X400FM1.FRM	RWED,RWED,RE,RE	DDA form
X400.CMU	RWED,RWED,RE,RE	form processor
X400HELP.MEM	RWED,RWED,RE,RE	help file
X400COUNTRY_CODES.FRM	RWED,RWED,RE,RE	country code validation form
X400COUNTRY_CODES.DAT	RWED,RWED,RE,RE	country code data file
X400A1INSTALL.COM	RWED,RWED,RE,RE	installation procedure
SYS$COMMON:[SYSTEST.MB]		
MB$MRXCVP.COM	RWED,RWED,RE,RE	MRX CVP file
MB$MRXIVP.COM	RWED,RWED,RE,RE	MRX IVP file

(continued on next page)

Table A–2 (Cont.) MRX Files Present After Installation

Directory & File	Protection	Description
[MB$.MB.MB$COM]		
MB$MRX_ERRORS.DAT	RWED,RWED,RE,RE	exception reporting messages
MB$MRX_ER.COM	RWED,RWED,RE,RE	exception reporting procedure
[MB$.MB.MB$WORK]		
MBMRXCONFIG$ CUSTOMIZED.DAT	RWED,RWED,RE,-	configuration data file
MBMRXCONFIG$ DEFAULT.DAT	RWED,RWED,RE,-	configuration data file

A.2 MRX Images Installed with Privileges

Only one MRX image is installed with privileges, MRXMAN. MRXMAN is installed with the following privileges:

- SYSMAN
- TMPMBX
- SYSGBL
- SYSLCK

B

Example VMSINSTAL Dialogue

This appendix gives an example of the VMSINSTAL dialogue for a successful first-time installation of MRX Version 3.5. The example installation includes an IVP dialogue.

```
$ @SYS$UPDATE:VMSINSTAL MRX035 SYS$UPDATE OPTIONS N

    OpenVMS VAX Software Product Installation Procedure V7.1

It is 1-JUL-1998 at 13:22.

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

%VMSINSTAL-W-ACTIVE, The following processes are still active:
        Server_00BC
        Server_00B8
        Server_00B7
        Server_00B6
* 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:

  MRX V3.5

        Beginning installation of MRX V3.5 at 13:23

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

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

        Product:      MESSAGE-ROUTER-X.400
        Producer:     DEC
        Version:      3.5
        Release Date: 26-JUN-1998

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

%MRX-I-CHKMB, Checking for Message Router Version 3.5
%MRX-I-CHKOSAK, Checking for OSAK Version 3.0

VMSINSTAL is about to check for running MRX or MRXMAN processes.

If any MRX processes are running, the installation will abort. If any
MRXMAN processes are running, they will not abort the installation,
although you are advised to stop these processes before continuing.


%MRX-I-MRXCHKDONE, Check for running MRX processes complete
Creating directory DKA200:[MB$.MRX]
%VMSINSTAL-I-SYSDIR, This product creates system disk directory  DKA200:[MB$.MRX].

The installation procedure will now run unattended for
approximately 20 minutes, depending on system load.

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

Linking MRXMAN V3.5 utility....

%LINK-I-DATMISMCH, creation date of 16-OCT-1997 12:17 in shareable image SYS$COMMON:[SYSLIB]LBRSHR.EXE;2

        differs from date of 24-NOV-1996 19:18 in shareable image library SYS$COMMON:[SYSLIB]IMAGELIB.OLB;1

Linking MRX V3.5 ...

        The generation phase of the MRX installation is now complete.

        In order to configure MRX to your requirements, you must use
        the configuration procedure, SYS$MANAGER:MB$CONFIG.COM. Refer
        to the Management Guide for details.

        To start MRX in future, run:

        $ @SYS$MANAGER:MB$CONTROL START=MRX

        after starting DECnet/OSI, OSAK, Message Router and
        optionally P.S.I.

        If you want MRX to start when the system reboots, put the
        following line in your system startup file:

        $ @SYS$MANAGER:MB$CONTROL SYSTART=MRX

        This line must occur after the commands that start up DECnet/OSI,
        OSAK, Message Router and optionally P.S.I.

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

                        IVP for MRX V3.5
```

```
        This is the installation verification procedure (IVP) for
        the Message Router X.400 Gateway.

        It checks that the Gateway is successfully installed on your system.

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

        Beginning the IVP for MRX V3.5-000

    The verification procedure does the following:

    1.  Checks that all the MRX files are present.

----------------------------------------------------------------
        MRX V3.5-000 file check
        The total number of files is 30.
        All files exist and are the correct size.
        End of MRX V3.5-000 file check.
----------------------------------------------------------------

        The MRX V3.5 IVP has completed successfully

        Installation of MRX V3.5 completed at 13:26

        VMSINSTAL procedure done at 13:26
```

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