



# BEA MessageQ

## Installation Guide for OpenVMS

BEA MessageQ for OpenVMS V5.0  
Document Edition 5.0  
March 2000

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### BEA MessageQ Installation Guide for OpenVMS

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# Preface

## Purpose of This Document

This document gives instructions for installing the BEA MessageQ for OpenVMS software.

## Who Should Read This Document

This document is intended for BEA MessageQ for OpenVMS software installers and system administrators.

## How This Document Is Organized

The BEA MessageQ Installation Guide for OpenVMS is organized as follows:

- ◆ Chapter 1, “Preparing for BEA MessageQ Installation,” defines basic terms and concepts, and describes the planning, preparations, and systems requirements necessary to install BEA MessageQ software on OpenVMS systems.
- ◆ Chapter 2, “Installing BEA MessageQ,” provides a detailed description of the BEA MessageQ installation procedure, describes postinstallation tasks, and describes how to upgrade an existing BEA MessageQ installation to Release 5.0.
- ◆ Appendix A, “Files Installed on Your System,” lists the files created on your system during a BEA MessageQ installation, depending on the kit installed.

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# How to Use This Document

This document, *BEA MessageQ Installation Guide for OpenVMS*, is designed primarily as an online, hypertext document. If you are reading this as a paper publication, note that to get full use from this document you should install and access it as an online document via a Web browser.

The following sections explain how to view this document online, and how to print a copy of this document.

## Opening the Document in a Web Browser

To access the online version of this document, refer to the BEA MessageQ Online Documentation CD. The online documentation requires a Web browser that supports HTML version 3.0. Netscape Navigator version 3.0 or Microsoft Internet Explorer version 3.0 or later is recommended.

## Printing from a Web Browser

You can print a copy of this document, one file at a time, from the Web browser. Before you print, make sure that the chapter or appendix you want is displayed and *selected* in your browser. (To select a chapter or appendix, click anywhere inside the chapter or appendix you want to print. If your browser offers a Print Preview feature, you can use the feature to verify which chapter or appendix you are about to print.)

The BEA MessageQ Online Documentation CD also includes Adobe Acrobat PDF files of all of the online documents. You can use the Adobe Acrobat Reader to print all or a portion of each document.

## Documentation Conventions

The following documentation conventions are used throughout this document.

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Convention	Item
<b>boldface text</b>	Indicates terms defined in the glossary in the <i>BEA MessageQ Introduction to Message Queuing</i> .
Ctrl+Tab	Indicates that you must press two or more keys sequentially.
<i>italics</i>	Indicate emphasis or book titles.
monospace text	Indicates code samples, commands and their options, data structures and their members, data types, directories, and file names and their extensions. Monospace text also indicates text that you must enter from the keyboard. <i>Examples:</i> #include stdio pams_attach_q \bmq\lu62_40a\include .htm bmq.doc BITMAP float
<b>monospace boldface text</b>	Identifies significant words in code. <i>Example:</i> put_msg(msg_ptr, <b>class</b> , type)
<i>monospace italic text</i>	Identifies variables in code. <i>Example:</i> String <i>expr</i>
UPPERCASE TEXT	Indicates device names, environment variables, and logical operators. <i>Examples:</i> LPT1 PATH OR
{ }	Indicates a set of choices in a syntax line. The braces themselves should never be typed.

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Convention	Item
[ ]	Indicates optional items in a syntax line. The brackets themselves should never be typed. <i>Example:</i> <pre>int32 pams_get_msg (msg_area, priority ... [sel_filter] [psb] [show_buffer]...)</pre>
	Separates mutually exclusive choices in a syntax line. The symbol itself should never be typed.
...	Indicates one of the following in a command line: <ul style="list-style-type: none"><li>◆ That an argument can be repeated several times in a command line</li><li>◆ That the statement omits additional optional arguments</li><li>◆ That you can enter additional parameters, values, or other information</li></ul> The ellipsis itself should never be typed. <i>Example:</i> <pre>int32 pams_get_msg (msg_area, priority ... [sel_filter] [psb] [show_buffer]...)</pre>
.	Indicates the omission of items from a code example or from a syntax line. The vertical ellipsis itself should never be typed.

---

## Related Documentation

The following sections list the documentation provided with the BEA MessageQ for OpenVMS software.

## BEA MessageQ for OpenVMS Documentation

The BEA MessageQ for OpenVMS information set consists of the following documents:

*BEA MessageQ Introduction to Message Queuing*



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*BEA MessageQ Programmer's Guide*

*BEA MessageQ Installation Guide for OpenVMS*

*BEA MessageQ Configuration Guide for OpenVMS*

*BEA MessageQ System Messages*

*BEA MessageQ FML Programmer's Guide*

*BEA MessageQ Reference Manual*

*BEA MessageQ Client for OpenVMS User's Guide*

**Note:** The BEA MessageQ Online Documentation CD also includes Adobe Acrobat PDF files of all of the online documents. You can use the Adobe Acrobat Reader to print all or a portion of each document.

## Contact Information

The following sections provide information about how to obtain support for the documentation and software.

## Documentation Support

If you have questions or comments on the documentation, you can contact the BEA Information Engineering Group by e-mail at **docsupport@beasys.com**. (For information about how to contact Customer Support, refer to the following section.)

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# Customer Support

If you have any questions about this version of BEA MessageQ, or if you have problems installing and running BEA MessageQ, contact BEA Customer Support through BEA WebSupport at [www.beasys.com](http://www.beasys.com). You can also contact Customer Support by using the contact information provided on the Customer Support Card, which is included in the product package.

When contacting Customer Support, be prepared to provide the following information:

- ◆ Your name, e-mail address, phone number, and fax number
- ◆ Your company name and company address
- ◆ Your machine type and authorization codes
- ◆ The name and version of the product you are using
- ◆ A description of the problem and the content of pertinent error messages

# 1 Preparing for BEA MessageQ Installation

This chapter discusses preparations and systems requirements necessary for a successful installation of BEA MessageQ software on OpenVMS systems.

The following topics are covered in this chapter:

- ◆ Getting Ready to Install BEA MessageQ
- ◆ Installation Procedure Requirements

## Getting Ready to Install BEA MessageQ

The following topics are covered in this section:

- ◆ Checking the Software Distribution Kit
- ◆ Reading Release Notes
- ◆ Installing Optional Software for OpenVMS Systems
- ◆ Licensing
- ◆ Checking System Parameter Values
- ◆ Calculating Values for GBLPAGES and GBLSECTIONS

# Checking the Software Distribution Kit

Your BEA MessageQ media kit should contain the following:

Kit Component	Description
Release Notes	Your distribution kit includes release notes, which provide late-breaking information you should read before installing, configuring, or using BEA MessageQ software.
Media	Your media kit supplies BEA MessageQ software on CDROM.
License and Registration Card	The kit also contains licensing and product registration information.
Hardcopy and Online Documentation	<p>The BEA MessageQ for OpenVMS documentation set contains the following manuals:</p> <ul style="list-style-type: none"><li>◆ <i>Introduction to Message Queuing</i></li><li>◆ <i>Programmer's Guide</i></li><li>◆ <i>Installation Guide for OpenVMS</i></li><li>◆ <i>Configuration Guide for OpenVMS</i></li><li>◆ <i>Client for OpenVMS User's Guide</i></li></ul>

BEA MessageQ provides all documentation online in HTML format. For more information on how to install and access the online documentation, refer to the booklet included with the *BEA MessageQ Online Documentation* CD.

## Reading Release Notes

We strongly recommend that you read the release notes before starting the installation. Refer to the printed copy of the release notes provided with your BEA MessageQ software kit, or download an HTML version of the release notes from BEA WebSupport at [www.beasys.com](http://www.beasys.com).

## Installing Optional Software for OpenVMS Systems

If you plan to use BEA MessageQ for OpenVMS software to communicate with UNIX systems, Windows NT systems, or other systems that support the Transmission Control Protocol/Internet Protocol (TCP/IP) and NFS protocol suites, install one of the following products on your system prior to installing BEA MessageQ software:

- ◆ Compaq TCP/IP Services for OpenVMS, version 4.0 or higher
- ◆ TCPware for OpenVMS, version 5.0-4 or higher
- ◆ MultiNet for OpenVMS, version 3.3A or higher

During installation, the system automatically builds the TCP/IP link drivers. The Compaq TCP/IP link driver is the default. You can choose other link drivers by editing the `DMQ$BOOT.COM` command procedure.

**Note:** BEA MessageQ links to all supported TCP/IP link drivers that it finds. Therefore, TCP/IP must be installed and started prior to this installation.

## Licensing

The BEA MessageQ for OpenVMS installation procedure does not prompt you to for license information during the installation. You must place a valid license file in the `udataobj` subdirectory after the installation is complete. The Installation Verification Procedure cannot be run until the license is applied. See Chapter 2, “Installing BEA MessageQ,” for complete instructions on how to install BEA MessageQ software.

**Note:** You will need access to a machine running Windows to copy the license file from the diskette supplied with the BEA MessageQ kit.

## Checking System Parameter Values

To check the values of your system parameters, use the `SYSGEN` utility, as shown in the example below:

# 1 Preparing for BEA MessageQ Installation

```
$ RUN SYS$SYSTEM:SYSGEN
SYSGEN> SHOW GBLPAGFIL
SYSGEN> EXIT
```

For BEA MessageQ, the values displayed should equal or exceed the value of each system parameter listed in Table 1-1. This table uses the symbol *n* to represent the current setting value. The number *n* plus the number listed in the Minimum Value column of the table is the minimum required system parameter values for the BEA MessageQ installation. Depending on the kinds of programs and applications running at your site, you may need higher values for some settings.

**Table 1-1 Minimum Required System Parameter Values**

System Parameter	Minimum Value
GBLPAGES <sup>a</sup>	$n + 10,200$
GBLPAGFIL	$n + 1000$
GBLSECTIONS <sup>b</sup>	$n + 18$

a. The value listed for this system parameter represents the number of free global pages required for the installation, not the total number you need to run your system and other software. This value has changed from 2000 in release 4.0A to 10,200 in release 5.0 based on the increase in the number of queues and the extended priority range.

b. The value listed for this system parameter represents the number of free global sections required for the installation, not the total number you need to run your system and other software.

## Calculating Values for GBLPAGES and GBLSECTIONS

To install and run BEA MessageQ, you must have sufficient free global pages and global sections. To find the number of free global pages and global sections, use the WRITE command with the F\$GETSYI lexical function. The following example shows how to get this information at your terminal (the default for SYS\$OUTPUT):

```
$ WRITE SYS$OUTPUT F$GETSYI("FREE_GBLPAGES")
24048
$ WRITE SYS$OUTPUT F$GETSYI("FREE_GBLSECTS")
24
```

If the values displayed by the system are greater than the values in Checking System Parameter Values, you need not increase the values for these parameters. If the value of free global pages or global sections is less than the value in Checking System Parameter Values you must increase the system parameter setting. To increase the GBLPAGES and GBLSECTIONS system parameters, use the AUTOGEN utility.

# Installation Procedure Requirements

The following topics are covered in this section:

- ◆ Installation Time
- ◆ Privileges
- ◆ Disk Space
- ◆ Process Account Quotas
- ◆ VMSINSTAL Requirements
- ◆ System Backup

## Installation Time

Table 1-2 includes the approximate times needed for installing BEA MessageQ for OpenVMS.

**Table 1-2 Installation Time Examples**

Examples			
Platform	Time Range	System	Time
Alpha	5-60 minutes	AlphaStation 200 4/233	23 minutes
		AlphaServer DS20 500 MHz	8 minutes
VAX	15-120 minutes	VAXstation 4000 Model 90	87 minutes

# Privileges

To install BEA MessageQ, you must be logged on to an account that has SETPRV.

**Note:** The VMSINSTAL command procedure turns off the BYPASS privilege at the start of the installation.

# Disk Space

Table 1-3 summarizes BEA MessageQ disk space requirements:

**Table 1-3 Disk Space Requirements**

Kit	Blocks Used During Installation	Blocks Required After Installation
<b>Alpha Platform</b>		
OpenVMS Alpha Base Kit	195,000	156,500
BEA MessageQ / Tuxedo Bridge (optional for Base Kit of OpenVMS Alpha 7.1 only)	1,000	900
Client Library Kit Support (included in Base Kit, but may be installed by itself)	41,000	23,500
<b>VAX Platform</b>		
OpenVMS VAX Base Kit	144,500	118,500
Client Library Kit Support (included in Base Kit, but may be installed by itself)	61,000	51,000

To determine the number of free disk blocks on the current system disk, enter the following command at the DCL prompt:

```
$ SHOW DEVICE SYS$SYSDEVICE
```



An *alternate working device* (AWD) may be specified as part of the `VMSINSTAL` procedure. This option may be used when the system disk does not have the device space needed to install BEA MessageQ for OpenVMS. However, even with the AWD option the installation requires at least 1,000 blocks of space on the system disk.

```
@SYS$UPDATE:VMSINSTAL MQVAX050 source_device: OPTIONS AWD=device:
```

## Process Account Quotas

The account you use to install BEA MessageQ must have sufficient quotas to enable you to perform the installation. Table 1-4 lists the process quotas required for the installation account executing the `VMSINSTAL` command procedure.

**Table 1-4 Process Quota Requirements**

Account Quota	#Value
ASTLM	24
BIOLM	18
BYTLM	18,000
DIOLM	18

Use the `AUTHORIZE` utility to verify and change user account quotas. User account quotas are stored in the `SYSUAF.DAT` file.

## VMSINSTAL Requirements

When you invoke `VMSINSTAL`, it checks the following:

- ◆ Your default device and directory to `SYS$UPDATE`
- ◆ Your account privileges
- ◆ Your account quotas
- ◆ Any users logged in to the system

If VMSINSTAL detects any problems during the installation, it notifies you and asks if you want to continue the installation. To stop the installation process and correct the situation, enter NO or press Return. Correct the problem and restart the installation.

### System Backup

At the beginning of the installation, VMSINSTAL asks if you have backed up your system disk. We recommend that you back up the system disk before installing any software. You should also back up the target disk where BEA MessageQ will be installed.

Use the backup procedures that are established at your site. For details on performing a system disk backup, see the section on the Backup Utility (BACKUP) in the System Management Subkit.

### BEA MessageQ / BEA TUXEDO Bridge

BEA MessageQ V5.0 include a messaging bridge that allows the exchange of messages between BEA MessageQ V5.0 and BEA TUXEDO V6.5. The messaging bridge is available only on OpenVMS Alpha 7.1 systems.

When installing BEA MessageQ on an OpenVMS Alpha 7.1 system, you are prompted to select either the base kit or the client kit. If you choose to install the base kit, you are given the option of installing the messaging bridge, as follows:

```
--- Part 1: Select Base Kit Support ---
* Install the Base kit (195000 blks) [NO]: y
* Install the MessageQ/Tuxedo Bridge (1000 blks) [NO]: y
```

BEA TUXEDO must be installed and configured on the system on which you are performing the BEA MessageQ installation. The VMSINSTAL procedure requires that the TUXDIR logical name is defined before the messaging bridge is installed. If TUXDIR is not defined, the messaging bridge is not installed and the following messages are displayed:

```
%VMSINSTAL-E-NOTUXDIR Cannot locate logical TUXDIR
%VMSINSTAL-E-NOTUXDIR MessageQ/TUXEDO bridge cannot be installed
```

# 2 Installing BEA MessageQ

This chapter provides a detailed description of the BEA MessageQ installation procedure and related topics.

The following topics are covered in this chapter:

- ◆ The Installation Procedure
- ◆ Installation Error Messages
- ◆ PostInstallation Tasks for BEA MessageQ
- ◆ Upgrading to BEA MessageQ Version 5.0

## The Installation Procedure

BEA MessageQ for OpenVMS is installed by invoking the `VMSINSTAL` utility. This command procedure will prompt you for various installation options. When it is complete, the BEA MessageQ for OpenVMS application is installed on your system. Then you can perform system configuration as described in Part II of this manual.

**Note:** To end the installation procedure at any time, press Ctrl + Y. When you press Ctrl + Y, the installation procedure deletes all files it has created up to that point and exits. You can then restart the installation.

This section describes the installation procedure, as summarized in Table 2-1

**Table 2-1 Installation Steps**

Step	Action
1.	Shut Down Running BEA MessageQ Groups
2.	Invoking VMSINSTAL
3.	Confirming Backup
4.	Specifying Where Distribution Media is Mounted
5.	Specifying the Product to Install
6.	Entering VMSINSTAL Options
7.	Selecting Kit Type
8.	Selecting Target Device for Installation
9.	Purging Files
10.	Viewing Informational Messages

## Shut Down Running BEA MessageQ Groups

If you are installing over an existing BEA MessageQ installation, ensure that no BEA MessageQ groups are running on the target machine, and that run-time libraries and images are deinstalled. Shut down running groups by issuing the following command, where *bbbb* is the bus ID, *ggggg* is the group ID, and *Y* indicates that run-time libraries and images for the group are to be deinstalled:

```
@DMQ$EXE:DMQ$SHUTDOWN bbbb ggggg Y
```

## Invoking VMSINSTAL

To invoke VMSINSTAL, use the following command:

```
@SYS$UPDATE:VMSINSTAL
```

To start the installation, invoke the `VMSINSTAL` command procedure from a privileged account, such as the `SYSTEM` account. `VMSINSTAL` is in the `SYS$UPDATE` directory. `VMSINSTAL` issues a warning notifying you of any active processes on the system and prompts you for a confirmation before proceeding.

## Confirming Backup

The procedure requests that you confirm system backup:

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

We recommend that you always back up your system disk before performing an installation.

If you are satisfied with the backup of your system disk, press Return. Otherwise, enter `NO` to discontinue the installation. After you back up your system disk, you can restart the installation.

**Note:** BEA MessageQ software can be installed on any disk. Be sure to backup the disk on which BEA MessageQ is installed.

## Specifying Where Distribution Media is Mounted

You are prompted to enter the location where the distribution CDROM is mounted. Insert the CDROM distribution media into the system's CDROM drive. Enter the file specification for the distribution media including the device name of the CDROM drive and the directory name from the software distribution medium as follows:

```
* Where will the distribution volumes be mounted:
```

and press Return.

## Specifying the Product to Install

The installation procedure then prompts for the name of the product that you want to install as follows:

Enter the products to be processed from the first distribution volume set.

\* Products:

The following table shows the product kit names by platform.

Platform	Kit Name
Compaq Alpha systems	MQAXP050
Compaq VAX systems	MQVAX050

## Entering VMSINSTAL Options

After you select the product to install, you can choose to enter one of the VMSINSTAL options. For example, option -N which enables users to view or print the release notes before the installation.

An *alternate working device* (AWD) may be specified as part of the VMSINSTAL procedure. This option may be used when the system disk does not have the device space needed to install BEA MessageQ for OpenVMS. However, even with the AWD option the installation requires at least 1,000 blocks of space on the system disk. The following sample shows VMSINSTAL being run with the AWD option:

```
@SYS$UPDATE:VMSINSTAL MQVAX050 source_device: OPTIONS AWD=device:
```

Next, VMSINSTAL begins the installation, displaying the following information:

The following products will be processed:

```
MQAXP V5.0
```

```
Beginning installation of MQAXP V5.0 at 14:45
```

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

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

The release notes are copied to a file in the SYS\$HELP directory as

```
SYS$HELP:MQAXP050.RELEASE_NOTES or SYS$HELP:MQVAX050.RELEASE_NOTES.
```

## Selecting Kit Type

Choose the kit to be installed: the Base Kit or the Client Library. The Base Kit includes the BEA MessageQ sever and client and an option to install the MessageQ / Tuxedo Bridge. The Client Library includes that portion of the Base Kit software which supports the BEA MessageQ Client for OpenVMS. If the Base Kit is selected, the procedure notifies you that client support is included in the Base Kit. The installation procedure displays the following options:

```
=====
The MessageQ for OpenVMS Alpha installation is divided into two parts:
Part 1: Base kit installation
Part 2: Client Library installation
=====
--- Part 1: Select Base Kit Support ---
* Install the Base kit (195000 blks) [NO]: y
* Install the MessageQ/Tuxedo Bridge (1000 blks) [NO]: n
--- Part 2: Select Client Library Kit Support ---

%MQAXP-I-CLSUPPORT, Client Library support is included with the Base kit

%MQAXP-I-BLKSREQ, Blocks required for installation is 195000
%MQAXP-I-DECTCP, DEC TCP/IP support will be built
Confirming License Registration
```

## Selecting Target Device for Installation

Next, enter the name of the device on which you want to install BEA MessageQ software as follows:

```
* Device where MessageQ will reside [SYS$SYSDEVICE]:
```

Press return to install BEA MessageQ on the default target device SYS\$SYSDEVICE. Or, enter the name of the device on which you want to install BEA MessageQ and press Return.

**Note:** Installing BEA MessageQ software on rooted directories will produce unpredictable results. Specify a device name or a logical name of a device.

### Purging Files

You have the option to purge files from previous versions of BEA MessageQ that are superseded by this installation.

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

Purging is recommended; however, if you need to keep files from a previous installation of this version of BEA MessageQ software, enter NO in response to the question.

### Viewing Informational Messages

The installation procedure now displays a number of informational messages that report on the progress of the installation. There are no further questions that require a user response.

If the installation procedure has been successful up to this point, VMSINSTAL moves the new or modified files to their target directories, updates help files, and updates DCL tables, if necessary. If you chose to have files purged, that work is done now.

When the installation completes successfully, the installation procedure displays the following information:

```
The MessageQ for OpenVMS Alpha Installation has completed successfully.
```

```
Please refer to the "MessageQ for VMS Configuration Guide" for details
on how to setup and access MessageQ for OpenVMS.
```

```
The Installation Verification Procedure DMQ$IVP.COM has been
placed in $111$DKC300:[DMQ$V50.EXE].
```

```
A copy of the Release Notes MQAXP050.RELEASE_NOTES has been
placed in $111$DKC300:[DMQ$V50.DOC].
```

```
Please don't forget to manually copy the contents of the license file
to $111$DKC300:[DMQ$V50.UDATAOBJ]LIC.TXT. The MessageQ
group will not start without a valid license file in this directory.
Refer to the "MessageQ for VMS Installation Guide" for details
on how to copy the license file from the distribution media provided.
```

```
Please don't forget to fill out and send in your registration card.
```

```
=====
```



```
%VMSINSTAL-I-MOVEFILES, Files will now be moved to their target directories...  
Installation of MQAXP V5.0 completed at 15:06
```

```
Adding history entry in VMI$ROOT:[SYSUPD]VMSINSTAL.HISTORY
```

```
Creating installation data file: VMI$ROOT:[SYSUPD]MQAXP050.VMI_DATA
```

These messages indicate that the entire installation procedure is complete.

**Note:** VMSINSTAL deletes or changes entries in the process symbol tables during the installation. Therefore, if you are going to continue using the system manager's account and you want to restore these symbols, log out and log in again.

**Note:** The BEA MessageQ message header format has been revised, requiring that journal files from release 4.0A or earlier be converted before they are used with BEA MessageQ release 5.0. See “Upgrading to BEA MessageQ Version 5.0” for instructions on upgrading your BEA MessageQ for OpenVMS installation.

**Warning:** If you have been using a previous version of BEA MessageQ and wish to continue to use your user areas, you **MUST** perform the upgrade conversion before you can run your applications using BEA MessageQ for OpenVMS, Version 5.0. Refer to “Upgrading to BEA MessageQ Version 5.0,” for more information.

# Installation Error Messages

The following topics are covered in this section:

- ◆ Error messages
- ◆ Error conditions
- ◆ Additional information

# Major Failure Messages

If errors occur during the installation, `VMSINSTAL` displays failure messages. If the installation fails, you see the following message:

```
%VMSINSTAL-E-INSFAIL, The installation of MessageQ Version 5.0  
has failed.
```

## Error Conditions

Any of the following error conditions may cause the installation to fail:

- ◆ Insufficient free space on the system disk.
- ◆ The operating system version is incorrect.
- ◆ A prerequisite software version is incorrect.
- ◆ Quotas necessary for successful installation are insufficient.
- ◆ System parameter values for successful installation are insufficient.

For descriptions of the error messages generated by these conditions, refer to the OpenVMS documentation on system messages, recovery procedures, and OpenVMS software installation. For information on installation requirements, see Chapter 1, “Preparing for BEA MessageQ Installation.”

# PostInstallation Tasks for BEA MessageQ

This section describes the tasks to be performed after installing BEA MessageQ:

- ◆ Applying the BEA MessageQ License
- ◆ Editing System Startup and Shutdown Files
- ◆ Configuring and Managing the System
- ◆ Determining and Reporting Problems

## Applying the BEA MessageQ License

Locate the license diskette supplied as part of the BEA MessageQ kit. The diskette contains the license file (`LIC.TXT`). Copy the license file to  
`DMQ$DISK:[DMQ$V50.UDATAOBJ].`

**Note:** Read the floppy onto a Windows machine and transfer the license file to the OpenVMS machine.

If you have an existing BEA MessageQ license in place, make a copy of the new portion of your license file and append it to the existing license file in  
`DMQ$DISK:[DMQ$V50.UDATAOBJ]LIC.TXT.`

## Editing System Startup and Shutdown Files

After BEA MessageQ is installed and properly configured, you can add automatic startup and shutdown command procedures to the `SYSTARTUP` and `SYSHUTDOWN` command procedures. Placing the BEA MessageQ startup commands in `SYSTARTUP` automatically starts BEA MessageQ when the OpenVMS system boots. Placing the BEA MessageQ shutdown commands in `SYSHUTDOWN` causes a clean BEA MessageQ shutdown on a OpenVMS system shutdown.

## Configuring and Managing the System

See the *BEA MessageQ Configuration Guide for OpenVMS* for information on the following tasks:

- ◆ Modifying the system parameters to run BEA MessageQ software and ensure optimal system performance
- ◆ Modifying user account privileges and quotas
- ◆ Tuning the system
- ◆ Installing BEA MessageQ software as a shared image

# Determining and Reporting Problems

If you encounter a problem while using BEA MessageQ, report it to technical support using the contact information provided in the preface of this manual.

# Upgrading to BEA MessageQ Version 5.0

The following topics are covered in this section:

- ◆ Purpose of Upgrade
- ◆ Conversion Requirements
- ◆ Conversion Major Steps
- ◆ Executing the BEA MessageQ Conversion Utility
- ◆ Using the Conversion Main Menu

## Purpose of Upgrade

To continue to use your BEA MessageQ groups created with previous versions of BEA MessageQ, you must perform the upgrade conversion before you can run your applications using BEA MessageQ for OpenVMS, Version 5.0.

After you have successfully installed BEA MessageQ for OpenVMS, Version 5.0, use the BEA MessageQ conversion utility (`DMQ$CVT.COM`) to upgrade the group initialization file for a BEA MessageQ Version message queuing group created with a previous version to the new BEA MessageQ for OpenVMS Version 5.0 format. You can also build new BEA MessageQ groups from the beginning by running the BEA MessageQ management utilities as described in the *BEA MessageQ Configuration Guide for OpenVMS*.

## Conversion Requirements

The conversion utility has the following requirements:

- ◆ BEA MessageQ for OpenVMS, Version 5.0 must be successfully installed.
- ◆ The message queuing group you wish to convert must be shutdown. This means that all processes using BEA MessageQ for this group must be exited and the BEA MessageQ Server processes must be shutdown.
- ◆ After a conversion utility has successfully completed, you must carefully review the updated fields in the `DMQ$INIT.TXT` file before the group is restarted.

## Conversion Major Steps

The Conversion utility performs the following functions with some user input:

- ◆ Prompts the user to enter the name of the device that stores the Version 2, Version 3, or Version 4 configuration data.
- ◆ Locates the existing groups on the specified disk.
- ◆ Prompts the user for the disk to contain the BEA MessageQ Version 5.0 directory.
- ◆ Creates a configuration file used to track the conversion process.
- ◆ Enables the user to select one group to convert, to select all the groups on one bus, or to select the manual conversion process.
- ◆ Creates the new Version 5.0 directory tree.
- ◆ Converts the `DMQ$INIT.TXT` and `DMQ$TYPCLS.TXT` files.
- ◆ Updates the include files and text libraries.
- ◆ Converts any DQF or SAF files for this group to Version 5.0 format.

# Conversion Utility Considerations

Running the conversion utility affects some aspects of the BEA MessageQ configuration in the following areas:

- ◆ reserved queues
- ◆ cross-group node names
- ◆ MRS file locations

Some reserved queues are removed when the conversion program is run. These reserved queues are removed for reasons related to the loader and the naming agent. For example, older `DMQ$INIT.TXT` files on VMS can include multiple alias names for the COM server, which could be loaded inconsistently, therefore resulting in incorrect name resolution. In addition, these queues (without alias) are included in the `DMQ$INIT.TXT` template file shipped with BEA MessageQ V5.0.

When the conversion utility is run, the definition for queues 93-96, 98-100, 150, 152, 153, 155, and 156 is removed, as well as the definition for MOT queues in the range 4000-6000. The MOT queue names are relocated to the Group Name Table (GNT).

The conversion utility limits node names in the cross group (`%XGROUP`) section to a maximum of 20 characters. Node names longer than 20 characters are truncated during the conversion.

The conversion utility expects the Message Recovery System (MRS) files to be located in the default directory. The location of the MRS files may have been changed during configuration. The following logical names are defined if the standard `DMQ$MRS` logical has been redefined to an alternate location:

- ◆ `DMQ$MRSV2`—Directory file specification for the BEA MessageQ V2 MRS files
- ◆ `DMQ$MRSV3`—Directory file specification for the BEA MessageQ V3 MRS files
- ◆ `DMQ$MRSV4`—Directory file specification for the BEA MessageQ V4 MRS files

# Executing the BEA MessageQ Conversion Utility

To execute the conversion utility, enter at the DCL prompt:

```
$ @DMQ$DISK:[DMQ$V50.CVT]DMQ$CVT.COM
```

This command invokes the BEA MessageQ Conversion Utility and allows you to access the utility's menus.

## Using the Conversion Main Menu

After you invoke the utility, the system displays the Conversion main menu as shown in Listing 2-1.

### Listing 2-1 BEA MessageQ Version 4.0 Conversion Utility

---

-----

```
Welcome to the BEA MessageQ V5 Conversion Utility
```

Option	Description
-----	-----
HELP	Display information about the conversion
SETUP	Setup the conversion environment. **DO THIS FIRST**
ALL	Convert all known BUS and GROUPs.
CONVERT	Convert one BUS or GROUP at a time.
MANUAL	Select each phase of the conversion.
EXIT	Return to DCL

```
Please select a menu option:
```

-----

---

Table 2-2 describes the conversion utility main menu options:

**Table 2-2 Conversion Utility Menu Options**

Option	Use it to...
HELP	Provide online help information about the utility.
SETUP	<p>Locate the groups on the desired disk. Run the setup first, before starting any conversions.</p> <p>This option asks you questions to determine what disk drive holds the BEA MessageQ Version 2, Version 3, and Version 4 directories. The specified disk is then searched for BEA MessageQ groups. A list of the groups is created and placed in a configuration file. This configuration file is used throughout the conversion to track the process. The configuration file is named <code>DMQ\$CVT_V5_node.CFG</code>.</p> <p>Each group entry in the configuration file carries a status field which is updated on the successful completion of each phase of the conversion. The states are described as follows:</p> <ul style="list-style-type: none"><li>◆ NONE—Nothing has been done.</li><li>◆ FILE—The new files have been created with <code>DMQ\$CREATE_GROUP</code>.</li><li>◆ INIT—The <code>DMQ\$INIT.TXT</code> file has been converted.</li><li>◆ SYMB—The <code>DMQ\$TYPCLS.TXT</code> file has been converted.</li><li>◆ MAKE—The include files and text libraries have been created.</li><li>◆ RMSG—Recoverable messages in the DQF and SAF files have been converted.</li><li>◆ DONE—Group conversion is completed.</li></ul>
ALL	Convert all groups to the new format. This menu option begins the automatic conversion of all BEA MessageQ groups that were located in the <code>SETUP</code> . The conversion continues until all groups reach the <code>DONE</code> status, indicating completion.
CONVERT	This menu option allows the user to pick a specific BEA MessageQ BUS or GROUP to convert. By selecting a BUS, the conversion utility automatically converts any groups matching the desired BUS number. By selecting a GROUP, the user selects a single BUS/GROUP for conversion.



---

MANUAL

Select each phase of the conversion for every group allowing you to walk through each phase of the conversion. The phases of a manual conversion are as follows:

- ◆ PICK—Select a BUS /GROUP from the configuration file created in the SETUP phase.
  - ◆ FILE—Execute the DMQ\$CREATE\_GROUP procedure to create the directory tree and populate the DMQ\$USER files.
  - ◆ INIT—Convert the DMQ\$INIT.TXT file. All user-supplied information in the file is preserved. It is highly recommended to review this file before restarting the group.
  - ◆ SYMB—Convert the DMQ\$TYPCLS.TXT file.
  - ◆ MAKE—Create the language include file and text libraries if you have a BEA MessageQ license loaded.
  - ◆ RMSG—Read any recoverable messages remaining in the SAF and/or DQF files and transfer these messages to the new MRS format.
- 

For more detailed information about each option, you can select Help from each of the conversion utility menus.



# A Files Installed on Your System

The BEA MessageQ installation procedure installs a number of files on your system. This appendix lists the files created on your system, depending on the kit installed. All files are installed on the device indicated by the logical name `DMQ$DISK` which is assigned during the installation.

Depending on the platform you use, the installed files are:

- ◆ Alpha Kit files
- ◆ VAX Kit files

# Alpha Kit Files

Table A-1 and Table A-2 list the names of the files created on your Alpha Server system when the BEA MessageQ base kit is installed.

**Table A-1 Standard Alpha Base Kit Files**

DMQ\$DISK:[DMQ\$V50.CVT]	
DMQ\$CVT.COM	DMQ\$CVT_V2TO3_INIT.COM
DMQ\$CVT_V2TO3_LU62.TXT	DMQ\$CVT_V2TO3_NEWQS.TXT
DMQ\$CVT_V2TO3_RMSG.COM	DMQ\$CVT_V3TO4_RMSG.COM
DMQ\$CVT_V3TO4_INIT.COM	DMQ\$CVT_V3TO4_SBSYM.TXT
DMQ\$CVT_V5_ALL.COM	DMQ\$CVT_V5_DOIT.COM
DMQ\$CVT_V5_HLP1.TXT	DMQ\$CVT_V5_HLP2.TXT
DMQ\$CVT_V5_HLP3.TXT	DMQ\$CVT_V5_HLP4.TXT
DMQ\$CVT_V5_MAIN.MNU	DMQ\$CVT_V5_MAKE.COM
DMQ\$CVT_V5_MAN.MNU	DMQ\$CVT_V5_MCHK.COM
DMQ\$CVT_V5_MENU.COM	DMQ\$CVT_V5_MFILE.COM
DMQ\$CVT_V5_MINIT.COM	DMQ\$CVT_V5_MJRN.COM
DMQ\$CVT_V5_MMAKE.COM	DMQ\$CVT_V5_MMRS.COM
DMQ\$CVT_V5_MPICK.COM	DMQ\$CVT_V5_MRMSG.COM
DMQ\$CVT_V5_MRS.MNU	DMQ\$CVT_V5_MSymb.COM
DMQ\$CVT_V5_ONE.MNU	DMQ\$CVT_V5_PICKABUS.COM
DMQ\$CVT_V5_PICKAGRP.COM	DMQ\$CVT_V5_RULES.TXT
DMQ\$CVT_V5_SET.COM	DMQ\$CVT_V5_SYMB.COM

<b>DMQ\$DISK:[DMQ\$V50.DMQNS]</b>	<b>DMQ\$DMQNS</b>
<b>DMQ\$DISK:[DMQ\$V50.DOC]</b>	<b>DMQ\$DOC:</b>
MQAXP050.RELEASE_NOTES	MQAXP050.PS
<b>DMQ\$DISK:[DMQ\$V50.EXAMPLES]</b>	<b>DMQ\$EXAMPLES:</b>
BOUNCE.C	BOUNCE_ROUNDTRIP.README
BUILD_EXAMPLES.COM	BUILD_PAMS_TASK_EXAMPLES.COM
BUILD_PASCAL_PEN_FILE.COM	COBOL_RECEIVER.COB
COBOL_SENDER.COB	ECHO.PSS
GETMSG_AST.C	GETMSG_EF.C
LINK_MGT.C	LINK_MGT.H
PAMSAMPLE.FOR	PAMSAMPLE_C.C
PAMSAMPLE_C.LNK	PAMSSLEEP.C
PAMS_EXAMPLE.PLI	PAMS_TASK_PKG.ADA
PAMS_TASK_PKG_ADA	PAMS_TASK_SENDER.ADA
PAMS_TASK_TESTER.ADA	PRECOMPILE.COM
PRECOMPILED_SAMPLE.PAS	ROUNDTRIP.C
SENDER.C	SENDER.PSS
SIMPLE.C	SIMPLE_ADA_RUN_SERVER.COM
SIMPLE_BUILD.COM	SIMPLE_CLIENT.ADA
SIMPLE_CLIENT.C	SIMPLE_CLIENT.FOR
SIMPLE_RUN_SERVER.COM	SIMPLE_SERVER.ADA
SIMPLE_SERVER.C	SIMPLE_SERVER.FOR
WATCH_SERVERS.C	X_ATTNAM.C
X_ATTNUM.C	X_ATTTMP.C

## **A** *Files Installed on Your System*

---

X_AVAIL.C	X_BASIC.C
X_BIND.C	X_BUILD.COM
X_EXIT.C	X_FML.C
X_FMLTBL.H	X_GET.C
X_GETALL.C	X_GETEM.C
X_GETPRI.C	X_GETSEL.C
X_GETSHO.C	X_GETW.C
X_LOCATE.C	X_MSG.H
X_PUTBIG.C	X_PUTDLJ.C
X_PUTSLF.C	X_RECOVR.C
X_SBSDER.C	X_SBSREG.C
X_SBSREZ.C	X_SBSTAT.C
X_SDM.C	X_SELECT.C
X_SHOPND.C	X_TIMER.C
<b>DMQ\$DISK:[DMQ\$V50.EXE]</b>	<b>DMQ\$EXE:</b>
DMQ\$ATTACH_PERM_Q.LNK	DMQ\$CHECK_LICENSE.EXE
DMQ\$CHECK_LICENSE.LNK	DMQ\$CLCONF.EXE
DMQ\$CLCONF.LNK	DMQ\$CLMRSU.EXE
DMQ\$CLMRSU.LNK	DMQ\$CLRTL.LNK
DMQ\$CLS.LNK	DMQ\$CLS_DECNET.EXE
DMQ\$CLS_START.COM	DMQ\$CLTEST.EXE
DMQ\$CLTEST.LNK	DMQ\$CLWATCH.EXE
DMQ\$CLWATCH.LNK	DMQ\$CL_SET_LNM_TABLE.COM
DMQ\$CL_STARTUP.COMK	DMQ\$CNV_INIT.COM

DMQ\$COM_SERVER.EXE	DMQ\$COM_SERVER.LNK
DMQ\$COM_START.COM	DMQ\$CONVERT_V30_TO_V32.COM
DMQ\$COPY_LNM_TABLE.COM	DMQ\$CREATE_ANSI_COBOL_FILES.COM
DMQ\$CREATE_GROUP.COM	DMQ\$CUSTOMIZE.COM
DMQ\$CVT_V2TO3_JMSG.EXE	DMQ\$CVT_V2TO3_JMSG.LNK
DMQ\$CVT_V2TO3_RMSG.EXE	DMQ\$CVT_V2TO3_RMSG.LNK
DMQ\$CVT_V3TO4_JMSG.EXE	DMQ\$CVT_V3TO4_JMSG.LNK
DMQ\$CVT_V3TO4_RMSG.EXE	DMQ\$CVT_V3TO4_RMSG.LNK
DMQ\$CVT_V4TO5_JMSG.EXE	DMQ\$CVT_V4TO5_JMSG.LNK
DMQ\$CVT_V4TO5_RMSG.EXE	DMQ\$CVT_V4TO5_RMSG.LNK
DMQ\$DEASSIGN.COM	DMQ\$DECNET_CLRTL50.EXE
DMQ\$DECNET_LD.EXE	DMQ\$DELETE_GROUP.COM
DMQ\$DETACH_PROCESS.COM	DMQ\$DMQCS_DUMP_GSECT.LNK
DMQ\$DSPBLK.EXE	DMQ\$DSPBLK.LNK
DMQ\$ENTRYRTL-AXP.OPT	DMQ\$ENTRYRTL.LNK
DMQ\$ENTRYRTL2-AXP.OPT	DMQ\$ENTRYRTL50.EXE
DMQ\$ETHTEST.LNK	DMQ\$EVENT_LOGGER.EXE
DMQ\$EVENT_LOGGER.LNK	DMQ\$EXECRTL.LNK
DMQ\$EXECRTL50.EXE	DMQ\$FORCEX.COM
DMQ\$FORCEX.EXE	DMQ\$FORCEX.LNK
DMQ\$FULLTEST.COM	DMQ\$FULLTEST_SPAWN.COM
DMQ\$IVP.COM	DMQ\$IVP.EXE
DMQ\$IVP.LNK	DMQ\$JRN_CONTROL.LNK
DMQ\$JRN_SERVER.EXE	DMQ\$JRN_SERVER.LNK

## **A** *Files Installed on Your System*

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DMQ\$JTEST.LNK	DMQ\$LD.LNK
DMQ\$LIBFML32-AXP.OPT	DMQ\$LIBFML32.LNK
DMQ\$LIBFML32V50.EXE	DMQ\$LIBGP-AXP.OPT
DMQ\$LIBGP.LNK	DMQ\$LIBGPV50.EXE
DMQ\$LLS_VERIFY.EXE	DMQ\$LLS_VERIFY.LNK
DMQ\$LOADER.EXE	DMQ\$LOADER.LNK
DMQ\$LOOP.EXE	DMQ\$LOOP.LNK
DMQ\$MENU.COM	DMQ\$MGR_UTILITY.EXE
DMQ\$MGR_UTILITY.LNK	DMQ\$MONITOR.EXE
DMQ\$MONITOR.LNK	DMQ\$MRQ_TEST.EXE
DMQ\$MRQ_TEST.LNK	DMQ\$MRS_SERVER.EXE
DMQ\$MRS_SERVER.LNK	DMQ\$MSGSHR.LNK
DMQ\$MSGSHR.OBJ	DMQ\$MSGSHRV50.EXE
DMQ\$MSGTBLBLD.COM	DMQ\$NA_MGR.EXE
DMQ\$NA_MGR.LNK	DMQ\$NA_SERVER.EXE
DMQ\$NA_SERVER.LNK	DMQ\$PERFTEST.EXE
DMQ\$PERFTEST.LNK	DMQ\$PEXIT.LNK
DMQ\$PRCTBLBLD.COM	DMQ\$PROCESS_START.COM
DMQ\$PSSVFY.EXE	DMQ\$PSSVFY.LNK
DMQ\$PSSVFYD.LNK	DMQ\$QMENU.EXE
DMQ\$QMENU.LNK	DMQ\$QTRANSFER.EXE
DMQ\$QTRANSFER.LNK	DMQ\$QTRANSFER_START.COM
DMQ\$RTEST.LNK	DMQ\$SBS.LNK
DMQ\$SBS_EXAMPLE.EXE	DMQ\$SBS_SERVER.EXE



DMQ\$SCAN_SYSTEM_FOR_DMQ.COM	DMQ\$SET_LNM_TABLE.COM
DMQ\$SET_LNM_TABLE.LNK	DMQ\$SET_LNM_TABLEV50.EXE
DMQ\$SHUTDOWN.COM	DMQ\$SINK.EXE
DMQ\$SINK.LNK	DMQ\$SRC.EXE
DMQ\$SRC.LNK	DMQ\$STARTUP.COM
DMQ\$START_SERVER.COM	DMQ\$STOP_GROUP.EXE
DMQ\$STOP_GROUP.LNK	DMQ\$TEST.EXE
DMQ\$TEST.LNK	DMQ\$TEST_LOCATE.LNK
DMQ\$VALID.EXE	DMQ\$VALID.LNK
DMQ\$VPS_EXEC.LNK	DMQ\$VPS_EXECSV50.EXE
DMQ\$VPS_USER.LNK	DMQ\$VPS_USERV50.EXE
DMQ\$WAIT_FOR_SERVICE.EXE	DMQ\$WAIT_FOR_SERVICE.LNK
DMQ_FIND_RTLS.COM	LINK.COM
LINKALL.COM	LINKCL.COM
MKFLDHDR32.EXE	MKFLDHDR32.LNK
MKFLDHDR32.OBJ	PAMPRTMSG_STUB.OBJ
<b>DMQ\$DISK:[DMQ\$V50.LIB]</b>	<b>DMQ\$LIB:</b>
CL.OLB	CLS.OLB
CLS.OPT	CNV.OLB
DMQ\$DNS_LINK.OPT	DMQ\$IVP.TLB
DMQ\$OLB.OPT	DMQ.MLB
DMQ.OPT	DMQ.TLB
DNV_STUBS.OLB	EXEC.OLB
LIBFML32.OLB	LIBGP.OLB

## **A** *Files Installed on Your System*

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MRS.OLB	MSG.OLB
NA.OLB	PSS.OLB
RTEST.OLB	SBS.OLB
VPSE.OLB	VPSU.OLB
<b>DMQ\$DISK:[DMQ\$V50.LOCALE.C]</b>	
LIBFML.TXT	LIBFML_CAT
<b>DMQ\$DISK:[DMQ\$V50.UDATAOBJ]</b>	
<b>DMQ\$DISK:[DMQ\$V50.USER.CLIENT]</b>	
DMQ.INI	P_ENTRY.H
P_GROUP.H	P_MSG.H
P_PROCES.H	P_RETURN.H
P_SYMBOL.H	P_TYPECL.H
<b>DMQ\$DISK:[DMQ\$V50.USER.TEMPLATE]</b>	
DMQ\$BOOT.COM	DMQ\$INIT.TXT
DMQ\$SET_SERVER_LOGICALS.COM	DMQ\$SET_SERVER_QUOTAS.COM
DMQ\$TYPCLS.TXT	DMQCLSEC.TXT
FML32.H	HIDDEN_DATA_TYPES.PAS
PAIENTBLI.TXT	PAIENTPAS.TXT
PAIGRPBLI.TXT	PAIGRPPAS.TXT
PAIMSGBLI.TXT	PAIMSGPAS.TXT
PAIPRCBLI.TXT	PAIPRCPAS.TXT
PAISTSBLI.TXT	PAISTSDBLI.TXT
PAISTSDPAS.TXT	PAISTSPAS.TXT
PAISYMBLI.TXT	PAISYMPAS.TXT

---

PAITYPBLI.TXT	PAITYPPAS.TXT
PAMS_ADA_ENTRY_POINT_.ADA	PAMS_ADA_GROUP_.ADA
PAMS_ADA_MSG_.ADA	PAMS_ADA_PROCESS_.ADA
PAMS_ADA_RETURN_STATUS_.ADA	PAMS_ADA_RETURN_STATUS_DEF_.ADA
PAMS_ADA_RETURN_STATUS_.ADA	PAMS_ADA_TYPE_CLASS_.ADA
PAMS_ADA_SYMBOL_DEF_.ADA	P_GROUP.H
P_ENTRY.H	P_PROCES.H
P_MSG.H	P_SYMBOL.H
P_RETURN.H	SYCUSTOMIZE.COM
TMENV.H	P_TYPECL.H

---

**Table A-2 Optional Alpha Base Kit Files**

<b>DMQ\$DISK:[DMQ\$V50.EXE]</b>	<b>DMQ\$EXE:</b>
<b>Optional Alpha Files—DEC TCP/IP Installed</b>	
DMQ\$UCX_TCPIP_LD.EXE	DMQ\$UCX_CLRTL50.EXE
DMQ\$CLS_UCX.EXE	
<b>Optional Alpha Files—PSC MultiNet TCP/IP Installed</b>	
DMQ\$TGV_TCPIP_LD.EXE	DMQ\$TGV_CLRTL50.EXE
DMQ\$CLS_TGV.EXE	
<b>Optional Alpha Files—PSC TCPware TCP/IP Installed</b>	
DMQ\$PSC_TCPIP_LD.EXE	DMQ\$PSC_CLRTL50.EXE
DMQ\$CLS_TCP.EXE	
<b>Optional Alpha 7.1 Files—BEA MessageQ / BEA TUXEDO Bridge</b>	
TMQUEUE_BMQ.LNK	TMQFORWARD_BMQ.LNK
<b>DMQ\$DISK:[DMQ\$V50.LIB]</b>	
<b>DMQ\$LIB:</b>	
FWD64.OLB	
<b>TUXDIR (BEA TUXEDO Root Directory)</b>	
[.BIN]TMQUEUE_BMQ.EXE	[.BIN]TMQFORWARD_BMQ.EXE
[.LOCALE]CATNAMES.	[.LOCALE.C]BMQ.TEXT
[.LOCALE.C]BMQ_CAT.	

# VAX Base Kit Files

Table A-3 and Table A-4 list the names of the files created on your VAX Server system when the BEA MessageQ base kit is installed.

**Table A-3 Standard VAX Base Kit Files**

DMQ\$DISK:[DMQ\$V50.CVT]	
DMQ\$CVT.COM	DMQ\$CVT_V2TO3_INIT.COM
DMQ\$CVT_V2TO3_LU62.TXT	DMQ\$CVT_V2TO3_NEWQS.TXT
DMQ\$CVT_V2TO3_RMSG.COM	DMQ\$CVT_V3TO4_RMSG.COM
DMQ\$CVT_V3TO4_INIT.COM	DMQ\$CVT_V3TO4_SBSYM.TXT
DMQ\$CVT_V5_ALL.COM	DMQ\$CVT_V5_DOIT.COM
DMQ\$CVT_V5_HLP1.TXT	DMQ\$CVT_V5_HLP2.TXT
DMQ\$CVT_V5_HLP3.TXT	DMQ\$CVT_V5_HLP4.TXT
DMQ\$CVT_V5_MAIN.MNU	DMQ\$CVT_V5_MAKE.COM
DMQ\$CVT_V5_MAN.MNU	DMQ\$CVT_V5_MCHK.COM
DMQ\$CVT_V5_MENU.COM	DMQ\$CVT_V5_MFILE.COM
DMQ\$CVT_V5_MINIT.COM	DMQ\$CVT_V5_MJRN.COM
DMQ\$CVT_V5_MMAKE.COM	DMQ\$CVT_V5_MMRS.COM
DMQ\$CVT_V5_MPICK.COM	DMQ\$CVT_V5_MRMSG.COM
DMQ\$CVT_V5_MRS.MNU	DMQ\$CVT_V5_MSymb.COM
DMQ\$CVT_V5_ONE.MNU	DMQ\$CVT_V5_PICKABUS.COM
DMQ\$CVT_V5_PICKAGRP.COM	DMQ\$CVT_V5_RULES.TXT
DMQ\$CVT_V5_SET.COM	DMQ\$CVT_V5_Symb.COM

## **A** *Files Installed on Your System*

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<b>DMQ\$DISK:[DMQ\$V50.DMQNS]</b>	
<b>DMQ\$DISK:[DMQ\$V50.DOC]</b>	<b>DMQ\$DOC:</b>
MQVAX050.RELEASE_NOTES	MQVAX050.PS
<b>DMQ\$DISK:[DMQ\$V50.EXAMPLES]</b>	<b>DMQ\$EXAMPLES:</b>
BOUNCE.C	BOUNCE_ROUNDTRIP.README
BUILD_EXAMPLES.COM	BUILD_PAMS_TASK_EXAMPLES.COM
BUILD_PASCAL_PEN_FILE.COM	COBOL_RECEIVER.COB
COBOL_SENDER.COB	ECHO.PSS
GETMSG_AST.C	GETMSG_EF.C
LINK_MGT.C	LINK_MGT.H
PAMSAMPLE.FOR	PAMSAMPLE_C.C
PAMSAMPLE_C.LNK	PAMSSLEEP.C
PAMS_EXAMPLE.PLI	PAMS_TASK_PKG.ADA
PAMS_TASK_PKG_.ADA	PAMS_TASK_SENDER.ADA
PAMS_TASK_TESTER.ADA	PRECOMPILE.COM
PRECOMPILED_SAMPLE.PAS	ROUNDTRIP.C
SENDER.C	SENDER.PSS
SIMPLE.C	SIMPLE_ADA_RUN_SERVER.COM
SIMPLE_BUILD.COM	SIMPLE_CLIENT.ADA
SIMPLE_CLIENT.C	SIMPLE_CLIENT.FOR
SIMPLE_RUN_SERVER.COM	SIMPLE_SERVER.ADA
SIMPLE_SERVER.C	SIMPLE_SERVER.FOR
WATCH_SERVERS.C	X_ATTNUM.C
X_ATTNUM.C	X_ATTTMP.C

X_AVAIL.C	X_BASIC.C
X_BIND.C	X_BUILD.COM
X_EXIT.C	X_FML.C
X_FMLTBL.H	X_GET.C
X_GETALL.C	X_GETEM.C
X_GETPRI.C	X_GETSEL.C
X_GETSHO.C	X_GETW.C
X_LOCATE.C	X_MSG.H
X_PUTBIG.C	X_PUTDLJ.C
X_PUTSLF.C	X_RECOVR.C
X_SBSDER.C	X_SBSREG.C
X_SBSREZ.C	X_SBSTAT.C
X_SDM.C	X_SELECT.C
X_SHOPND.C	X_TIMER.C

**DMQ\$DISK:[DMQ\$V50.EXE]****DMQ\$EXE:**

DMQ\$ATTACH_PERM_Q.LNK	DMQ\$CHECK_LICENSE.EXE
DMQ\$CHECK_LICENSE.LNK	DMQ\$CLCONF.EXE
DMQ\$CLCONF.LNK	DMQ\$CLMRSU.EXE
DMQ\$CLMRSU.LNK	DMQ\$CLRTL.LNK
DMQ\$CLS.LNK	DMQ\$CLS_DECNET.EXE
DMQ\$CLS_START.COM	DMQ\$CLTEST.EXE
DMQ\$CLTEST.LNK	DMQ\$CLWATCH.EXE
DMQ\$CLWATCH.LNK	DMQ\$CL_SET_LNM_TABLE.COM
DMQ\$CL_STARTUP.COMK	DMQ\$CNV_INIT.COM

## **A** *Files Installed on Your System*

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DMQ\$COM_SERVER.EXE	DMQ\$COM_SERVER.LNK
DMQ\$COM_START.COM	DMQ\$CONVERT_V30_TO_V32.COM
DMQ\$COPY_LNM_TABLE.COM	DMQ\$CREATE_ANSI_COBOL_FILES.COM
DMQ\$CREATE_GROUP.COM	DMQ\$CUSTOMIZE.COM
DMQ\$CVT_V2TO3_JMSG.EXE	DMQ\$CVT_V2TO3_JMSG.LNK
DMQ\$CVT_V2TO3_RMSG.EXE	DMQ\$CVT_V2TO3_RMSG.LNK
DMQ\$CVT_V3TO4_JMSG.EXE	DMQ\$CVT_V3TO4_JMSG.LNK
DMQ\$CVT_V3TO4_RMSG.EXE	DMQ\$CVT_V3TO4_RMSG.LNK
DMQ\$CVT_V4TO5_JMSG.EXE	DMQ\$CVT_V4TO5_JMSG.LNK
DMQ\$CVT_V4TO5_RMSG.EXE	DMQ\$CVT_V4TO5_RMSG.LNK
DMQ\$DEASSIGN.COM	DMQ\$DECNET_CLRTL50.EXE
DMQ\$DECNET_LD.EXE	DMQ\$DELETE_GROUP.COM
DMQ\$DETACH_PROCESS.COM	DMQ\$DMQCS_DUMP_GSECT.LNK
DMQ\$DSPBLK.EXE	DMQ\$DSPBLK.LNK
DMQ\$ENTRYRTL-VAX.OPT	DMQ\$ENTRYRTL.LNK
DMQ\$ENTRYRTL2-VAX.OPT	DMQ\$ENTRYRTL50.EXE
DMQ\$ETHTEST.LNK	DMQ\$EVENT_LOGGER.EXE
DMQ\$EVENT_LOGGER.LNK	DMQ\$EXECRTL.LNK
DMQ\$EXECRTL50.EXE	DMQ\$FORCEX.COM
DMQ\$FORCEX.EXE	DMQ\$FORCEX.LNK
DMQ\$FULLTEST.COM	DMQ\$FULLTEST_SPAWN.COM
DMQ\$IVP.COM	DMQ\$IVP.EXE
DMQ\$IVP.LNK	DMQ\$JRN_CONTROL.LNK
DMQ\$JRN_SERVER.EXE	DMQ\$JRN_SERVER.LNK



DMQ\$JTEST.LNK	DMQ\$LD.LNK
DMQ\$LIBFML32-VAX.OPT	DMQ\$LIBFML32.LNK
DMQ\$LIBFML32V50.EXE	DMQ\$LIBGP-VAX.OPT
DMQ\$LIBGP.LNK	DMQ\$LIBGPV50.EXE
DMQ\$LLS_VERIFY.EXE	DMQ\$LLS_VERIFY.LNK
DMQ\$LOADER.EXE	DMQ\$LOADER.LNK
DMQ\$LOOP.EXE	DMQ\$LOOP.LNK
DMQ\$MENU.COM	DMQ\$MGR_UTILITY.EXE
DMQ\$MGR_UTILITY.LNK	DMQ\$MONITOR.EXE
DMQ\$MONITOR.LNK	DMQ\$MRQ_TEST.EXE
DMQ\$MRQ_TEST.LNK	DMQ\$MRS_SERVER.EXE
DMQ\$MRS_SERVER.LNK	DMQ\$MSGSHR.LNK
DMQ\$MSGSHR.OBJ	DMQ\$MSGSHRV50.EXE
DMQ\$MSGTBLBLD.COM	DMQ\$NA_MGR.EXE
DMQ\$NA_MGR.LNK	DMQ\$NA_SERVER.EXE
DMQ\$NA_SERVER.LNK	DMQ\$PERFTEST.EXE
DMQ\$PERFTEST.LNK	DMQ\$PEXIT.LNK
DMQ\$PRCTBLBLD.COM	DMQ\$PROCESS_START.COM
DMQ\$PSSVFY.EXE	DMQ\$PSSVFY.LNK
DMQ\$PSSVFYD.LNK	DMQ\$QMENU.EXE
DMQ\$QMENU.LNK	DMQ\$QTRANSFER.EXE
DMQ\$QTRANSFER.LNK	DMQ\$QTRANSFER_START.COM
DMQ\$RTEST.LNK	DMQ\$SBS.LNK
DMQ\$SBS_EXAMPLE.EXE	DMQ\$SBS_SERVER.EXE

## **A** *Files Installed on Your System*

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DMQ\$SCAN_SYSTEM_FOR_DMQ.COM	DMQ\$SET_LNM_TABLE.COM
DMQ\$SET_LNM_TABLE.LNK	DMQ\$SET_LNM_TABLEV50.EXE
DMQ\$SHUTDOWN.COM	DMQ\$SINK.EXE
DMQ\$SINK.LNK	DMQ\$SRC.EXE
DMQ\$SRC.LNK	DMQ\$STARTUP.COM
DMQ\$START_SERVER.COM	DMQ\$STOP_GROUP.EXE
DMQ\$STOP_GROUP.LNK	DMQ\$TEST.EXE
DMQ\$TEST.LNK	DMQ\$TEST_LOCATE.LNK
DMQ\$VALID.EXE	DMQ\$VALID.LNK
DMQ\$VPS_EXEC.LNK	DMQ\$VPS_EXEVCV50.EXE
DMQ\$VPS_USER.LNK	DMQ\$VPS_USERV50.EXE
DMQ\$WAIT_FOR_SERVICE.EXE	DMQ\$WAIT_FOR_SERVICE.LNK
DMQ_FIND_RTLS.COM	LINK.COM
LINKALL.COM	LINKCL.COM
MKFLDHDR32.EXE	MKFLDHDR32.LNK
MKFLDHDR32.OBJ	PAMPRTMSG_STUB.OBJ
<b>DMQ\$DISK:[DMQ\$V50.LIB]</b>	<b>DMQ\$LIB:</b>
CL.OLB	CLS.OLB
CLS.OPT	CNV.OLB
DMQ\$DNS_LINK.OPT	DMQ\$IVP.TLB
DMQ\$OLB.OPT	DMQ.MLB
DMQ.OPT	DMQ.TLB
DNV_STUBS.OLB	EXEC.OLB
LIBFML32.OLB	LIBGP.OLB

MRS.OLB	MSG.OLB
NA.OLB	PSS.OLB
RTEST.OLB	SBS.OLB
VPSE.OLB	VPSU.OLB
<b>DMQ\$DISK:[DMQ\$V50.UDATAOBJ]</b>	
<b>DMQ\$DISK:[DMQ\$V50.USER.CLIENT]</b>	
DMQ.INI	P_ENTRY.H
P_GROUP.H	P_MSG.H
P_PROCES.H	P_RETURN.H
P_SYMBOL.H	P_TYPECL.H
<b>DMQ\$DISK:[DMQ\$V50.USER.TEMPLATE]</b>	
DMQ\$BOOT.COM	DMQ\$INIT.TXT
DMQ\$SET_SERVER_LOGICALS.COM	DMQ\$SET_SERVER_QUOTAS.COM
DMQ\$TYPCLS.TXT	DMQCLSEC.TXT
FML32.H	HIDDEN_DATA_TYPES.PAS
PAIENTBLI.TXT	PAIENTPAS.TXT
PAIGRPBLI.TXT	PAIGRPPAS.TXT

**Table A-4 Optional VAX Base Kit Files**

<b>DMQ\$DISK:[DMQ\$V50.EXE]</b>	<b>DMQ\$EXE:</b>
<b>Optional VAX Files—DEC TCP/IP Installed</b>	
DMQ\$UCX_TCPIP_LD.EXE	DMQ\$UCX_CLRTL50.EXE
DMQ\$CLS_UCX.EXE	
<b>Optional VAX Files—PSC MultiNet TCP/IP Installed</b>	
DMQ\$TGV_TCPIP_LD.EXE	DMQ\$TGV_CLRTL50.EXE
DMQ\$CLS_TGV.EXE	
<b>Optional VAX Files—PSC TCPware TCP/IP Installed</b>	
DMQ\$PSC_TCPIP_LD.EXE	DMQ\$PSC_CLRTL50.EXE
DMQ\$CLS_TCP.EXE	
<b>TUXDIR (BEA TUXEDO Root Directory)</b>	
[.LOCALE]CATNAMES.	[.LOCALE.C]BMQ.TEXT
[.LOCALE.C]BMQ_CAT.	