PATHWORKS for Macintosh

digital

Planning and Installation Guide

Order Number: AA–PBFDB–TE

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About This Guide

Manual Objectives

The purpose of this manual is to help the system administrator install PATHWORKS software for Macintosh computers after all the network hardware components are installed and connected.

Intended Reader

This manual is intended for the system administrator of PATHWORKS software for Macintosh computers. This person should be an experienced user of the Macintosh computer, the VMS operating system, and the VAX computer, and knowledgable about:

- Using the Digital Command Language (DCL)
- Configuring and monitoring the VAX computer's performance
- Analyzing problems that might occur with a VAX computer

The system administrator should also be familiar with the hardware and software configuration of the network and the specific software needs of the users.

Associated Documents

The system administrator should have the following documents available:

- *Introduction to the AppleTalk Network System*
- *System Administrator's Guide*

- *Network Services User's Guide*
- *DECnet for Macintosh User's Guide*

Manual Organization

The following table can help you find information in this manual.

Chapter 1	Provides an overview and a chart of the steps involved in installing and configuring PATHWORKS software for Macintosh computers.
Chapter 2	Describes how to prepare for the installation of PATHWORKS software for Macintosh computers.
Chapter 3	Describes how to install PATHWORKS software for Macintosh computers.
Chapter 4	Describes the tasks you need to perform after installation. You need to perform these tasks before you can use PATHWORKS software for Macintosh computers.
Chapter 5	Describes what you need to do to configure other servers in the VAXcluster system.
Appendix A	Provides the script for a sample installation procedure.
Appendix B	Lists the files installed on your system.
Appendix C	Lists the DECnet objects created by PATHWORKS software for Macintosh computers.

Conventions Used

Follow these conventions while using this manual:

Convention	Meaning
/	A forward slash (/) indicates that a command qualifier follows.
Return	Press the Return or Enter key on your keyboard.
. . .	A vertical ellipsis means that not all the data is shown that the system would display in response to the command, or that not all the data is shown that a user would enter.
black type	In examples of dialog between you and the workstation, what the workstation displays on the screen is printed in black.
CTRL/Y	While you hold down the Ctrl key, press the Y key.
teal blue type	In examples of dialog between you and the workstation, teal blue type indicates information that you must enter from the keyboard. For online versions, user input is shown in **bold**.
case	You can enter commands and parameters in uppercase or lowercase letters, or in a combination of both.
enter	Enter all letters, spaces, and punctuation marks exactly as they are printed. Then press the Return or Enter key, as appropriate.
numbers	All numbers shown in this manual are in decimal form, unless otherwise noted.
two-line commands	Some commands are continued on a second line. In VMS, a continued command may be indicated by a hyphen (-) at the end of the first line. Enter the hyphen, and press Return. The system displays the _$ prompt. Continue entering the text that follows the _$ prompt in your manual.
NOTE	Contains information of special importance.
CAUTION	Contains information to prevent damage to equipment or software.
WARNING	Contains information essential to the safety of personnel.

1

Introduction

This chapter provides:

- An overview and chart of the steps involved in installing and configuring PATHWORKS for Macintosh
- A brief introduction to planning the physical layout of a network

Overview of Installation and Configuration Tasks

The installation of PATHWORKS for Macintosh involves installing software on:

- The VAX server
- Additional VAX servers, if you have a VAXcluster system
- Macintosh computers

Figure 1–1 shows the steps involved in installing and configuring PATHWORKS for Macintosh. The order of the steps is indicated, and the book that describes how to perform the installation or configuration task is displayed to the left of the task.

The installation procedures described in this book establish default values for system parameters that work for any network configuration. However, you may discover that the needs of your site require you to make changes to those default values. For information about changing the network configuration, see the *System Administrator's Guide*.

Planning the Physical Layout of a Network

PATHWORKS for Macintosh includes AppleTalk for VMS. AppleTalk for VMS is networking software which allows a VAX to participate in an AppleTalk network.

Prior to installation, you should be familiar with concepts of the AppleTalk networking system.

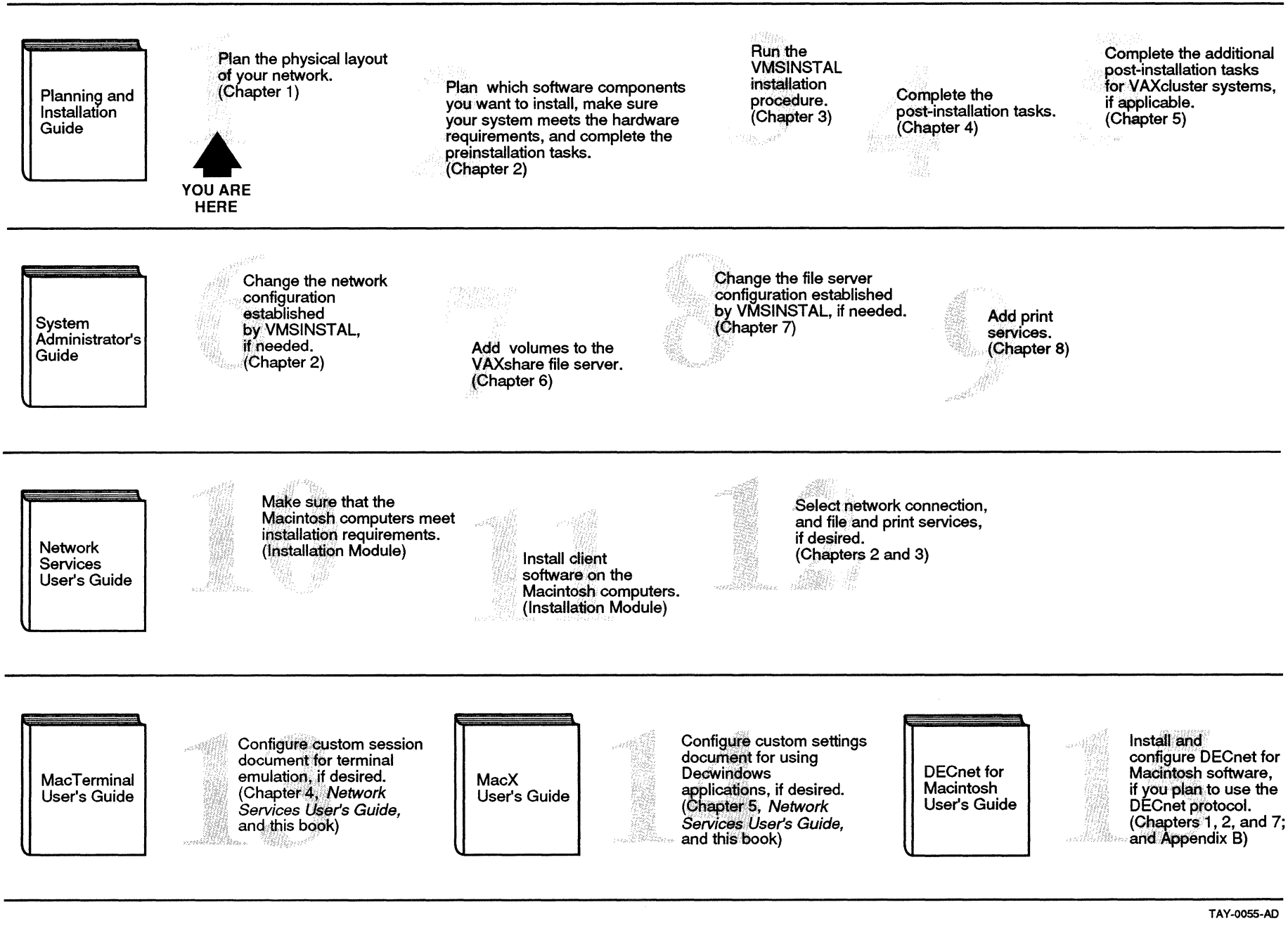
If you are planning a new network, be sure to plan for growth, efficiency, and high performance. Although a new network may be small and easy to maintain, you probably will connect more networks and devices in the future.

To help you plan the physical layout, draw a map of the network, including cables, devices such as printers and workstations, and network locations.

The *System Administrator's Guide* provides valuable information about AppleTalk network concepts. Before setting up a network, you should understand the following terms:

- Primary port
- Network numbers and ranges
- AppleTalk zones
- Routing

Figure 1–1 Map of Installation and Configuration Tasks



2

Preparing to Install PATHWORKS Software for Macintosh Computers

This chapter discusses the requirements and preparations necessary for installing PATHWORKS for Macintosh.

Table 2–1 is a checklist of the steps you need to follow to prepare for the installation procedure.

Table 2–1 Checklist for Preparing to Install

☐	Plan which software components you want to install and verify your kit contents.
☐	Make sure your system meets the hardware and software requirements of PATHWORKS for Macintosh.
☐	Complete the following preinstallation tasks:
	☐ Log in to a fully privileged SYSTEM account.
	☐ Back up your system disk.
	☐ Make sure you have sufficient disk space available for installation of selected components.
	☐ Make sure your system meets the system parameter requirements.

Planning Which Components to Install

You can install all of the components or only those you need.

The PATHWORKS for Macintosh software package consists of several components. Table 2–2 provides a brief description of each component and specifies prerequisite components. For example, the PATHWORKS V1.0 client volume component requires AppleTalk for VMS and the VAXshare File Server.

Table 2–2 Components of PATHWORKS for Macintosh

Component	Description and Dependencies
AppleTalk for VMS, Version 3.0	The network transport for most of the components of PATHWORKS for Macintosh software that reside on the VMS server. It is used by the VAXshare file and print servers, the DECnet gateway, DECwindows AppleTalk Data Stream Protocol (ADSP) Transport, and the Data Access Language Server.
AppleTalk/DECnet Gateway	Provides a network transport relay between the AppleTalk and DECnet networks. To use the AppleTalk/DECnet Gateway, you must also install AppleTalk for VMS.
VAXshare File Server	Provides AppleShare-compatible Macintosh volumes to Macintosh clients. To use the VAXshare File Server, you must also install AppleTalk for VMS.
VAXshare Print Server	Provides printer spooling for Macintosh clients. The spooled printers can be connected directly to the VAX server, available to the VAX server over an DECnet network, or on the AppleTalk network. To use the VAXshare Print Server, you must also install AppleTalk for VMS.
PATHWORKS V1.0 client volume	Contains programming support and several Macintosh applications, including: MacX, MacTerminal 3.0, and the Communications Toolbox. To use the PATHWORKS V1.0 client volume, you must also install AppleTalk for VMS and the VAXshare File Server.

(continued on next page)

Table 2–2 (Cont.) Components of PATHWORKS for Macintosh

Component	Description and Dependencies
DECwindows AppleTalk (ADSP) Transport	Provides a transport for Macintosh MacX servers to allow access to DECwindows applications. To use the ADSP Transport, you must also install AppleTalk for VMS and the AppleTalk/DECnet Gateway.
VMS Mail Server	Allows access to VMS Mail from Macintosh clients. To use the VMS Mail Server, you must also install the AppleTalk/DECnet Gateway.
Data Access Language Server	Allows access to VAX Rdb/VMS from Macintosh Data Access Language clients. To use the Data Access Language Server, you must also install AppleTalk for VMS.

Verify your kit contents.

Your software bill of materials specifies the number and contents of your media. Be sure to verify the contents of your kit with this information. If your kit is damaged or if you find that parts of it are missing, contact your Digital representative.

What You Need

This section describes the hardware and software requirements of PATHWORKS for Macintosh.

Prerequisite Hardware

Be sure that the network, including cables, Macintosh computers, workstations, servers, and other hardware, is connected.

You may need to configure your VAX server as a DECnet routing phase IV node.

If your server supports both Ethernet and asynchronous DECnet clients on the same network, your VAX computer must be configured as a DECnet phase IV routing node so it can relay data to its appropriate destination.

Note *For optimum system performance, configure your VAX computer as a DECnet routing phase IV node only if necessary.*

1 To determine whether your VAX computer is configured as a DECnet phase IV routing node, enter at the server:

```
$ MCR NCP SHOW EXECUTOR CHARACTERISTICS
```

If the VAX computer is configured as a DECnet phase IV routing node, the "Type" line contains the following information:

```
Type              = routing IV
```

Configuring your VAX computer as a DECnet phase IV routing node

2 To configure your VAX computer as a DECnet phase IV routing node, enter:

```
$ MCR NCP DEFINE EXECUTOR TYPE ROUTING IV
```

Note *A DECnet routing license is required.*

3 Restart DECnet by entering:

```
$ MCR NCP SET EXEC STATE OFF
$ @SYS$MANAGER:STARTNET
```

Prerequisite Software

The following software must be installed on your VMS server before you install PATHWORKS for Macintosh software:

- VMS Version 5.3, or greater
- DECnet-VAX software (DECnet) is required to use:
  - AppleTalk for VMS, if you plan to turn on its router and use DECnet tunnels
  - AppleTalk/DECnet Gateway
  - VMS Mail Server
  - VAXshare remote management (MSA$MANAGER)
- VAX Rdb/VMS and VAX SQL/Services, to use the Data Access Language Server

Software product requirements depend on the components you install.

Depending on the PATHWORKS for Macintosh components you install, the following software products are required:

- VAX PrintServer software, to use the VAXshare Print Server to support these printers:
  - PrintServer 20
  - PrintServer 40
  - PrintServer 40 Plus

- VAX ScriptPrinter software, to use the VAXshare Print Server with the ScriptPrinter (LN03R)
- DECwindows (which is optional part of VMS), to use the DECwindows AppleTalk Transport

AppleTalk Phase 2 is required.

Two versions of the AppleTalk network protocol are currently available: AppleTalk Phase 1 and AppleTalk Phase 2. PATHWORKS for Macintosh uses AppleTalk Phase 2.

If you have an AppleTalk Phase 1, you need to plan your migration to Phase 2. A migration utility is available with the AppleTalk Internet Router for large AppleTalk internetworks that plan to upgrade in steps, rather than all at one time. For smaller networks, you can upgrade to Phase 2 in one step.

Note *If you previously installed AppleTalk for VMS Version 2.1, you cannot run it with this product. (PATHWORKS for Macintosh contains AppleTalk for VMS Version 3.0, which is incompatible with AppleTalk for VMS Version 2.1.)*

Preinstallation Tasks

Before installing PATHWORKS for Macintosh:

1. Log in to a system account with full system privileges.
2. Back up the system disk.
3. Check the disk space on your system.
4. Make sure your system meets the system parameter requirements.

Logging In to a Privileged Account

Install PATHWORKS for Macintosh from the SYSTEM account at the VMS server. You need full system privileges.

Backing Up Your System Disk

Digital recommends that you do a system backup before installing any layered product on the operating system.

Use the backup procedures that have been established at your site.

Determining Disk Space Requirements

You need up to 29,900 blocks of disk space to install the software.

The VMS server requires a larger amount of free disk space during installation than it requires after installation.

Depending on the PATHWORKS for Macintosh components you install, you need up to 29,900 blocks of available disk space on the system disk during the installation. Table 2–3 specifies the amount of space required by each component after installation.

Determining free disk space

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
```

Note *All components except the PATHWORKS V1.0 client volume and some Data Access Language Server files must reside on the system disk.*

Table 2–3 Disk Space Requirements for Individual Components

Component	Blocks Required After Installation
AppleTalk for VMS	900
AppleTalk/DECnet Gateway	150
VAXshare File Server	1200
VAXshare Print Server	1000
PATHWORKS V1.0 Client Volume	23000
DECwindows AppleTalk Data Stream Protocol (ADSP) Transport	200
VMS Mail Server	100
Data Access Language Server	2200
Miscellaneous Files	350
Total Blocks Required After Installation	29100
Maximum Blocks Needed During Installation	29900

Setting Process Account Quotas

PATHWORKS for Macintosh places no special requirements on process account quotas. Default SYSTEM process account quotas are sufficient for installing PATHWORKS for Macintosh.

Setting System Parameters

You must set required values.

PATHWORKS for Macintosh requires values for some system parameters:

- Set the value of PQL_MBYTLM to 16384.
- If you are using the VAXshare Print Server for serial printing, set the value of MAXBUF to 8192.
- If you are not using the VAXshare Print Server for serial printing, you can set the value of MAXBUF to 2048. For maximum performance, however, Digital recommends that you set it to 8192.
- If you are going to install the VAXshare File Server, set the value of CHANNELCNT to 256 or higher.

The rest of this section describes how to:

- Check the current value of system parameters
- Modify the value of a system parameter

Checking the Current Value Use the SYSGEN utility to check the current value of system parameters:

1 Start the SYSGEN utility by entering:

```
$ RUN SYS$SYSTEM:SYSGEN
SYSGEN>
```

2 Determine the current value of a system parameter by entering:

```
SYSGEN> SHOW parameter
```

Where:

parameter	Is the name of the system parameter.

For example, to determine the current value of the PQL_MBYTLM system parameter, enter:

```
SYSGEN> SHOW PQL_MBYTLM
```

The Current column contains the current value.

Following is an example of the information that is displayed. The information on your screen may differ slightly, depending on the configuration of your VAX computer. This example shows a current value of 1700:

```
Parameter Name Current Default Minimum Maximum Unit Dynamic
______________ _______ _______ _______ _______ ____ _______
PQL_MBYTLM        1700    1024      -1      -1 Bytes       D
```

3 Exit the SYSGEN utility and return to the DCL prompt by entering:

```
SYSGEN>  EXIT
$
```

Modifying the Value To modify the value of a system parameter:

1 Using any text editor, edit the line in the SYS$SYSTEM:MODPARAMS.DAT file. For example:

```
MIN_PQL_MBYTLM = 16384
```

2 Use the AUTOGEN command procedure to recalculate your system parameter values by entering:

```
$  @SYS$UPDATE:AUTOGEN GETDATA REBOOT NOFEEDBACK
```

The AUTOGEN procedure:

- Gets new values from MODPARAMS.DAT
- Runs SYSGEN to update the new system parameter values
- Installs the new system parameter values on the system
- Reboots the system so that all of the changes take effect

The NOFEEDBACK qualifier causes AUTOGEN to recalculate only the new system parameter values.

Note *Running AUTOGEN with the NOFEEDBACK qualifier does not modify the system files (page file, swap file, and dump file).*

Next Steps

Now you are ready to install PATHWORKS for Macintosh according to the instructions in Chapter 3.

3

Installing PATHWORKS Software for Macintosh Computers

VMSINSTAL is the standard installation procedure for VMS layered products. It consists of a series of questions and informational messages.

This chapter describes how to use VMSINSTAL to install PATHWORKS for Macintosh.

Table 3–1 is a checklist of the steps you need to follow to install PATHWORKS for Macintosh.

Caution *Be sure you understand the information and complete the tasks described in Chapter 2 before you perform the installation tasks in this chapter.*

Table 3–1 Checklist for Installing PATHWORKS for Macintosh

☐	Start VMSINSTAL.
☐	Respond to installation questions.
☐	Understand error messages.

Starting VMSINSTAL

Allow 30 to 60 minutes to complete the instructions in this chapter.

To start the installation procedure:

1. Log into a privileged account on the server, such as the SYSTEM account.
2. Set the default directory by entering:

```
$ SET DEFAULT SYS$UPDATE
```

3. Start VMSINSTAL by entering:

```
$ @VMSINSTAL MSA010 device_name OPTIONS N
```

For information on other VMSINSTAL options, see the VMS System Manager's Manual.

Where:

MSA010	Identifies the product.
device_name	Is the name of the device on which you plan to mount the media. For example, MTA0, MUA0, or MKA500 (depending on the media) is the device name for a tape drive.
OPTIONS N	Is an optional parameter that causes the installation procedure to prompt you about accessing online Release Notes during the installation. Because the online Release Notes can contain important information about changes to the installation procedure, Digital recommends that you specify OPTIONS N.

Note *You can interrupt the installation procedure at any time by pressing Ctrl/Y. The installation procedure deletes all the files it has created and exits. You can start the installation again.*

Responding to VMSINSTAL Questions

Default responses are displayed in brackets.

Each VMSINSTAL question you need to answer is marked with an asterisk (*) at the beginning of the line. Some questions show a default response in brackets. Following is a example of a VMSINSTAL question with a default answer:

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

Press return to accept a default response.

To accept a default response, press Return.

The following sections list the questions in the order that they appear during the installation.

Note *Depending on the configuration of your VAX computer, the dialog that occurs during your installation can differ slightly from the examples that appear in this section.*

General VMSINSTAL Questions

See Appendix A for a sample installation script.

1 Active Processes

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

Answer YES to this question.

The active processes and the installation procedure do not interfere with each other.

2 System Backup

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

If you have not made a backup, or are not satisfied with the backup you made, enter NO to discontinue the installation. After you back up your system disk, restart the installation.

If you are satisfied with the backup of your system disk, press Return.

Sample installation messages

VMSINSTAL displays a message that the installation of PATHWORKS for Macintosh is beginning. The following example shows a series of messages displayed as the installation begins:

```
The following products will be processed:

  MSA V1.0

    Beginning installation of MSA V1.0 at hh:mm

%VMSINSTAL-I-RESTORE, Restoring product saveset A ...
```

The OPTIONS N parameter provides these release notes options.

3 Release Notes Options

```
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]:
```

VMSINSTAL prompts you about release notes only if you specified OPTIONS N when you started VMSINSTAL.

- If you select option 1 or 3, VMSINSTAL displays the Release Notes immediately on the console terminal.

  You can terminate the display at any time by pressing Ctrl/C.

- If you select option 2 or 3, VMSINSTAL prompts you for the name of the print queue that you want to use:

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

  Enter a queue name, or press Return to send the file to the default output print device.

File name and location of release notes

The file name for the release notes is MSA010.RELEASE_NOTES. VMSINSTAL moves the release notes to SYS$HELP, whether or not you specified OPTIONS N.

4 Choosing to Run the Installation Verification Procedure (IVP)

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

- To run the IVP automatically after the installation procedure, press Return.
- To run the IVP independently of the installation procedure, enter NO. Instructions for running the IVP independently of the installation procedure are in Chapter 4.

5 Purging Files

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

Purging deletes the old versions of the files replaced by the installation and saves disk space. If you choose not to have the installation procedure purge files, you can purge the files manually after you complete the installation successfully.

Questions About Components

To help you determine which components to install, see Table 2–2 in Chapter 2.

1 Selecting Components for Installation

```
Component #  Component Name                          Requires
-------------------------------------------------------------
   1         AppleTalk for VMS
   2         AppleTalk/DECnet Gateway                 [1]
   3         VAXshare File Server                     [1]
   4         VAXshare Print Server                    [1]
   5         PATHWORKS Client Volume                 [1,3]
   6         DECwindows AppleTalk (ADSP) Transport    [1]
   7         VMS Mail Server
   8         Data Access Language Server              [1]

* Do you wish to install all components [YES]?
```

The column on the right identifies prerequisite components. For example, the PATHWORKS V1.0 client volume component requires AppleTalk for VMS (Component #1) and VAXshare File Server (Component #3).

- To install all components, press Return.
- To install some, but not all, components, enter NO.

  VMSINSTAL then displays a series of questions, so that you can select individual components for installation.

```
* Do you wish to install AppleTalk for VMS [YES]?
* Do you wish to install the AppleTalk/DECnet
  Gateway [YES]?
* Do you wish to install the VAXshare File
  Server [YES]?
* Do you wish to install the VAXshare Print
  Server [YES]?
* Do you wish to install the PATHWORKS V1.0 client
  volume [YES]?
* Do you wish to install the DECwindows AppleTalk
  (ADSP) Transport [YES]?
* Do you wish to install the VMS Mail Server [YES]?
* Do you wish to install the Data Access Language
Server [YES]?
```

  - To install a component, press Return.
  - If you do not want to install a particular component, enter NO.

VMSINSTAL verifies the individual components you selected.

2 Verification of Components

If you chose to install some–but not all–components, VMSINSTAL displays the components you selected and asks if the list is correct. For example:

```
The following components have been selected to be
installed:

    AppleTalk for VMS
    AppleTalk/DECnet Gateway
    VAXshare File Server
    VAXshare Print Server
    PATHWORKS V1.0 client volume
    DECwindows AppleTalk Transport

* Is this correct [YES]?
```

- If the list of components being installed is correct, press Return.
- If the list is incorrect, enter NO.

  VMSINSTAL displays the series of questions again, so that you can select individual components for installation.

VMSINSTAL checks component requirements.

3 System Check for Component Requirements

VMSINSTAL checks the system to make sure it meets the requirements of the components you selected:

```
%MSA-I-CHECKSYS, Now checking component requirements
against system...
```

- If all requirements are met, the installation proceeds.
- If the system does not meet the requirements of any component, the installation fails.

  After you correct the condition, you can start the installation again.

AppleTalk for VMS Question

- If there are multiple Ethernet controllers installed on your server, VMSINSTAL lists them and asks which one you want to use. For example:

```
The following Ethernet devices were found on your
system:

                        XQA0
                        XQB0

* Which device do you want used as the AppleTalk
primary port? [XQA0]:
```

If you want to use AppleTalk for VMS on multiple Ethernet devices, you need to set up your system as an AppleTalk router after you complete the installation procedure. For instructions on setting up your system as an AppleTalk router, see the *System Administrator's Guide*.

- If you have only one Ethernet controller installed on your server, the following informational message is displayed, and VMSINSTAL continues to the next component:

```
%MSA-I-ONEETHER, Only one Ethernet controller was
found on this system
-MSA-I-ONEETHER, AppleTalk will configure device
ESA0 as its primary port

%MSA-I-ENDATKQ, End of AppleTalk for VMS questions
```

AppleTalk/DECnet Gateway Question

```
* Enter the name for the gateway [DECnet on nodename]:
```

VMSINSTAL automatically retains the case of the letters you use for the Chooser name. Do not use quotation marks.

The name you enter is the name that later appears in the Macintosh Chooser dialog box. The default answer is "DECnet on nodename," where nodename is the DECnet node name of your VMS server.

The gateway name must be 32 characters or less and must be unique among DECnet gateways in the same AppleTalk zone.

Note *The Macintosh Chooser is a tool that lets you connect your Macintosh computer to the network and select devices that are connected to the network.*

VAXshare File Server Questions

1 Server Name

```
* Enter the server name for VAXshare [VAXshare
on nodename]:
```

The name you enter is the name that later appears in the Macintosh Chooser dialog box.

The default answer is "VAXshare on nodename," where nodename is the DECnet node name of your VMS server.

The server name must be 32 characters or less and must be unique among AppleShare file servers in the same AppleTalk zone.

2 Guest Access

```
* Do you want to allow guest access to VAXshare [NO]?
```

Be sure to consider security issues before allowing guest access.

Guest access allows all Macintosh users access to the VAXshare File Server without entering a user name and password.

If you enable guest access, VMSINSTAL creates an account named MSAF$GUEST and asks you to specify the user identification code (UIC) for the guest account:

```
* Enter the UIC for the MSAF$GUEST account [[360,200]]:
```

If you are reinstalling PATHWORKS for Macintosh, and if the MSAF$GUEST account is already defined, this question is not displayed.

The user identification code (UIC) consists of a group number and a member number separated by a comma and enclosed within brackets. The UIC is used to determine whether the account has access to files.

Accept the default UIC unless one of the following is true:

- You already have [360,200] assigned to a different account.
- You follow a different assignment scheme for user identification codes.

VAXshare Print Server Question

The VAXshare Print Server requires an account which will be used for printing jobs received from Macintosh computers.

If you chose to install the VAXshare Print Server, VMSINSTAL creates an account named MSAP$ACCOUNT and asks you to specify the user identification code (UIC) for the account:

```
* Enter the UIC for the MSAP$ACCOUNT account [[360,210]]
```

If you are reinstalling PATHWORKS for Macintosh, and if the MSAP$ACCOUNT account is already defined, this question is not displayed.

The user identification code (UIC) consists of a group number and a member number separated by a comma and enclosed within brackets. The UIC is used to determine whether the account has access to files.

Accept the default user identification code unless one of the following is true:

- You already have [360,210] assigned to a different account.
- You follow a different assignment scheme for user identification codes.

PATHWORKS V1.0 Client Volume Questions

1 Install on Another Device?

The default location for the PATHWORKS V1.0 client volume is the system disk. However, if there is not enough space on the system disk for the client volume, VMSINSTAL asks if you want to install the volume on a different disk:

```
*Do you wish to install the volume on another
device [NO]?
```

You can install the volume on another device, or you can choose not to install it at this time.

2 Target Disk Device

You need a minimum of 23,000 available blocks for the PATHWORKS V1.0 client volume.

The PATHWORKS V1.0 client volume contains several Macintosh applications that are part of PATHWORKS for Macintosh. You can install the volume on any local device that has a minimum of 23,000 free blocks:

```
* Enter the target disk device name [SYS$SYSDEVICE]:
```

Enter the device name for the disk on which you want to install the PATHWORKS V1.0 client volume. For example,

```
SRVR1$DUA1:
```

Data Access Language Server Questions

1 Data Access Language System Root

```
* Enter DAL system root [SYS$SYSROOT:[MSA.MSAD$SYSTEM]]:
```

By default, VMSINSTAL places all files associated with the Data Access Language in the system root directory SYS$SYSROOT:[MSA.MSAD$SYSTEM]. If you prefer to place them in a different system root directory, specify the root directory.

2 Test Database

```
* Do you want the DAL test database installed [YES]?
```

The test database verifies successful installation of the Data Access Language and allows you to test your database server.

If you have only a run-time Rdb/VMS license, you should install this test database so you can test your database server.

Completing the Installation

VMSINSTAL displays a series of messages as it:

1. Restores the product save set.
2. Installs the files and images for the selected components.
3. Creates directories.
4. Moves files to their target directories.
5. Runs the IVP and starts components (if you specified that the IVP should run automatically after the installation procedure).

IVP messages

If you chose to run the IVP automatically after the installation procedure, the following message is displayed:

```
************************************************************
*Now starting the Installation Verification Procedure for*
*PATHWORKS for Macintosh V1.0.                             *
************************************************************

Starting AppleTalk for VMS IVP...

Performing Installation Verification on AppleTalk for VMS

               version 03.00-xxxx

Installation Verification Completed Successfully

Starting VAXshare File Server IVP..
.
.
.
************************************************************
*                                                          *
* Installation Verification Procedure for PATHWORKS        *
* for Macintosh V1.0 has completed successfully.           *
*                                                          *
************************************************************
```

Completed installation message

When the installation is complete, the following message is displayed:

```
Installation of MSA V1.0 completed at hh:mm

VMSINSTAL procedure done at hh:mm
```

Logging Out

Log out of the privileged account:

```
$ LOGOUT
SYSTEM       logged out at dd-mmm-yyyy hh:mm:ss.ss
```

Error Messages and Conditions

Installation failure message

If errors occur during the installation VMSINSTAL displays the following failure message:

```
%VMSINSTAL-E-INSFAIL, The installation of MSA V1.0
has failed.
```

Possible conditions causing errors

Errors can occur during the installation if any of the following conditions exist:

- The operating system version is incorrect.
- A prerequisite software version is missing.
- Quotas necessary for successful installation are insufficient.
- System parameter values for successful installation are insufficient.
- Disk space is inadequate.

Installation requirements are described in Chapter 2.

If you are notified that any of these conditions exist, take the appropriate action described in the message. For example, you might need to change a system parameter value or install prerequisite software.

This manual cannot cover all possible VMS error situations. For more information about the error messages that can be generated by these conditions, see your VMS documentation on system messages, recovery procedures, and VMS software installation.

Next Steps

Now that you have installed the PATHWORKS for Macintosh software, perform the post-installation tasks described in Chapter 4, Post-Installation Tasks.

4

Post-Installation Tasks

Before you can use PATHWORKS for Macintosh, you must perform some post-installation tasks.

Table 4–1 is a checklist of the steps you need to follow for post-installation tasks.

Table 4–1 Checklist for Post-Installation Tasks

☐	If you are going to run the IVP independently of the VMSINSTAL procedure, start PATHWORKS for Macintosh.
☐	Run the IVP if you have not already done so.
☐	Modify your system startup procedure.
☐	Determine the steps you need to complete next.

Starting PATHWORKS Software for Macintosh Computers

If you chose to run the IVP automatically, the software is already running.

If you chose *not* to run the IVP automatically with VMSINSTAL, you need to start the network and the components of PATHWORKS for Macintosh you installed:

1. Log in to the SYSTEM account at the server.
2. Enter the following:

   ```
   $ @SYS$STARTUP:MSA$STARTUP
   ```

   Messages are displayed, identifying the components being started.
3. When the DCL prompt ($) is displayed, you can log out of the SYSTEM account:

   ```
   $ LOGOUT
   ```

Running the IVP Independently of Installation

If you ran the IVP automatically with the installation procedure, it is unnecessary to run it again.

The Installation Verification Program (IVP) verifies the installation.

If you chose to run the IVP independent of the installation procedure, run it now by entering:

```
$ @SYS$TEST:MSA$IVP.COM
```

When the IVP successfully completes all tests, a message is displayed notifying you that the Installation Verification Procedure was completed successfully.

Modifying Your System Startup Procedure

You must modify the SYSTARTUP_V5.COM file so that the components of PATHWORKS for Macintosh start automatically whenever your system is booted.

Use any text editor to edit the SYS$MANAGER:SYSTARTUP_V5.COM file. Edit the file to start PATHWORKS for Macintosh after the:

- DECnet network
- Queue manager, if you installed the VAXshare Print Server

If you use a batch procedure to submit network startup, edit the line that starts the batch procedure. For example:

```
$ IF F$SEARCH("SYS$SYSTEM:NETACP.EXE") .NES "" -
_$ THEN SUBMIT SYS$MANAGER:STARTNET.COM, -
_$ SYS$STARTUP:MSA$STARTUP
```

Otherwise, edit the file by placing the command $ @SYS$STARTUP:MSA$STARTUP after the command that starts the network. For example:

```
$ IF F$SEARCH("SYS$SYSTEM:NETACP.EXE") .NES ""-
_$THEN @SYS$MANAGER:STARTNET
_$ @SYS$STARTUP:MSA$STARTUP
```

Next Steps

This section describes what you need to do next if you have a:

- VAXcluster system
- Standalone system

VAXcluster Systems

If you have a VAXcluster system you need to configure the VAXcluster system as described in Chapter 5.

Standalone Systems

If you have a standalone system:

1. Make changes to the default network configuration established by VMSINSTAL, if needed.

   See Chapter 2 in the *System Administrator's Guide*.

2. Add volumes to the VAXshare file server.

   See Chapter 6 in the *System Administrator's Guide*.

3. Change the default file server configuration established by VMSINSTAL, if needed.

   See Chapter 7 in the *System Administrator's Guide*.

4. Add print services.

   See Chapter 8 in the *System Administrator's Guide*.

5. Make sure the Macintosh computers meet installation requirements.

   See the Installation Module in the *Network Services User's Guide*.

6. Install client software on the Macintosh computers.

   See the Installation Module in the *Network Services User's Guide*.

7. Select network connection, and file and print services, if desired.

   See Chapters 2 and 3 in the *Network Services User's Guide*.

8 Configure custom session document for terminal emulation, if desired.

See the *MacTerminal User's Guide* and Chapter 4 in the the *Network Services User's Guide*.

9 Configure custom settings document for using DECwindows applications, if desired.

See the *MacX User's Guide* and Chapter 5 in the *Network Services User's Guide*.

10 Configure the Macintosh computers for DECnet if you plan to use the DECnet protocol.

See the *DECnet for Macintosh User's Guide*.

5

Configuring a VAXcluster System

If you have a VAXcluster system, there are additional configuration tasks you must perform at each of the other servers on the VAXcluster system.

Table 5–1 is a checklist of the steps you need to follow to configure a VAXcluster system.

Table 5–1 Checklist for Configuring VAXcluster Systems

☐	Replace the DCL tables at each server on the VAXcluster system.
☐	Run the ATK$CONFIG configuration procedure at each server where you want to run PATHWORKS for Macintosh.
☐	Create a VAXshare File Server on each server.
☐	Determine the steps you need to complete next.

Replacing DCL Tables

To use PATHWORKS for Macintosh on other servers in the VAXcluster system, you must replace the version of the DCL tables that is installed on the other VAXcluster servers.

To replace the version of the DCL tables:

1. Log in to the SYSTEM account on a server.
2. Start the INSTALL program, by entering:

   ```
   $ INSTALL
   ```

3. At the INSTALL prompt, enter:

   ```
   INSTALL> REPLACE SYS$LIBRARY:DCLTABLES.EXE
   ```

4. Repeat steps 1 through 3 at each server in the VAXcluster system.

Running the ATK$CONFIG Configuration Procedure

Use the ATK$CONFIG configuration procedure to configure additional nodes in a cluster where you want to run PATHWORKS for Macintosh.

The VMSINSTAL procedure configures your system to run PATHWORKS for Macintosh at one server. If you have a VAXcluster system, you need to run the ATK$CONFIG configuration procedure at each additional server node where you want to run PATHWORKS for Macintosh.

ATK$CONFIG uses the same default values for parameters that are used by the VMSINSTAL installation procedure. If you accept the defaults displayed by the ATK$CONFIG procedure, you will have equivalent setups.

The procedure leads you through a series of prompts. Default answers appear in brackets [ ] after the questions. To accept a default, press Return. The procedure accomplishes the following:

- Sets up the primary port
- Assigns network ranges for the primary port
- Controls whether to enable event logging
- Sets up the AppleTalk gateway

The procedure does not set up AppleTalk routing.

Starting ATK$CONFIG

To start the ATK$CONFIG configuration procedure:

1 Log in to the VMS SYSTEM account.

2 Start the configuration procedure by entering:

```
$ @SYS$MANAGER:ATK$CONFIG
```

The screen displays a series of questions. Some questions show a default response. To accept a default response, press Return.

The following sections list the questions in the order they appear during the configuration procedure.

Note *You can interrupt the configuration procedure at any time by pressing Ctrl/Y. The configuration procedure deletes all the files it has created and exits. You can start the procedure again.*

Setting Up the Primary Port

Use the default answers to obtain a configuration equivalent to that established by VMSINSTAL.

1 Primary Port Name

```
What name do you want for your primary port? [Primary]:
```

Enter a name or use the default name "Primary" that appears in brackets after the prompt.

The primary port is where AppleTalk name registrations occur and where AppleTalk node addresses are acquired. The primary port must always be an Ethernet port.

2 Zone Name

```
What zone name do you want for your primary port?
```

Enter a valid zone name for the primary port. Or you can use "*" to select the default zone name, where the default zone name is defined by another router.

If you enter an invalid zone name, AppleTalk for VMS uses the default zone as the primary port when it is started.

Assigning Network Ranges

1 Start of Network Range

```
What do you want for the start of the network
range? [65280]
```

Enter a valid number for the start of the network range or use the default value, 65280. The start of the network range must be less than or equal to the end of the range.

If the primary port is a seed port on a seed router, the start and end of the network range must match other routers on the same Ethernet.

Otherwise, accept the defaults for the start and end of the network range.

2 End of Network Range

```
What do you want for the end of the network
range? [65534]
```

Enter a valid number for end of the network range or use the default value, 65534.

If you enter a number which conflicts with the already-established range for the network, AppleTalk for VMS uses the network's correct range provided by a router on the network.

You can manually reconfigure the permanent database.

Enabling/Disabling Event Logging

1 Logging

```
Do you want to enable logging?
```

All error messages are displayed on the console screen.

- To store these messages in a log file, press Return.
- If you do not want to store messages in a log file, enter No.

2 Name of Log File

If you chose to store error messages in a log file, ATK$CONFIG prompts you for the name of the file.

```
What log file do you want? [SYS$MANAGER:ATK$EVENT.LOG]
```

Use the default file name or enter a different file name.

Defining the AppleTalk/DECnet Gateway

1 Start AppleTalk Gateway?

```
Do you want to start the AppleTalk Gateway?
```

Enter Yes or No.

2 Gateway Name

```
What gateway name do you want?
```

Use the default name or enter a name such as DECnet on BOSTON.

3 Device for AppleTalk for VMS

After you enter the gateway name, ATK$CONFIG displays a list of the Ethernet devices on your system.

```
Which device will be your AppleTalk primary port?
```

Select the device from the list.

Completing the Configuration Procedure

1 Continue?

ATK$CONFIG gives you the opportunity to cancel the configuration procedure.

```
Do you want to continue?
```

To cancel, enter NO.

To complete the configuration procedure, enter YES.

2 Execute Commands?

If you choose to complete the configuration procedure, ATK$CONFIG displays the VMS commands that execute the answers you entered to prompts. For example:

```
Here are the commands necessary to set up your system.
$DEFINE/USER SYS$OUTPUT NL:
$DEFINE/USER SYS$ERROR NL:
$RUN SYS$SYSTEM:ATK$MANAGER
 DEFINE EXECUTOR STATE ON
 DEFINE LOGGING FILE NAME "SYS$MANAGER:ATK$EVENT.LOG"
 DEFINE LOGGING FILE STATE ON
 DEFINE GATEWAY APPLETALK NAME "DECNET ON BOSTON"
 DEFINE GATEWAY STATE ON
 DEFINE PORT DEVICE XQA0: NAME "Primary" STATE ON
 DEFINE PORT NAME "Primary" PRIMARY ON ZONE "*"
 DEFINE PORT NAME "Primary" NETWORK RANGE 65280 65534
 EXIT

Do you want these commands to be executed?
```

- To execute the commands, enter Yes.

  A message is displayed, notifying you that the changes to your configuration have been made.

- To cancel the configuration procedure, enter No.

3 Start AppleTalk?

```
Do you want AppleTalk started?
```

Enter No. AppleTalk will be started when you start PATHWORKS for Macintosh in the next section.

Starting PATHWORKS Software for Macintosh Computers

You need need to start the network and the components of PATHWORKS for Macintosh at each server you configured with the ATK$CONFIG configuration procedure:

1 Log in to the SYSTEM account at the server.

2 Enter the following:

```
$ @SYS$STARTUP:MSA$STARTUP
```

Messages are displayed, identifying the components being started.

3 When the DCL prompt ($) is displayed, you can log out of the SYSTEM account:

```
$ LOGOUT
```

Creating a VAXshare File Server on Other Servers

To balance the load on servers in a VAXcluster system, it is a good idea to create a VAXshare File Server on each server.

To create and make available a VAXshare File Server:

1 Log in to the SYSTEM account on a server.

2 Start the VAXshare Manager by entering:

```
$ ADMINISTER/MSA
```

Add a VAXshare File Server

3 Add a VAXshare File Server by entering:

```
MSA$MANAGER> ADD FILE_SERVER servername
```

Where:

servername	Is the name of the new file server as it appears to AppleShare workstations. The server name must be unique and can be from 1 to 32 characters long. If you include spaces in the file name, enclose the file name in quotation marks (").

For example, to add a VAXhare File Server with the name VAXshare on SRVR1, enter:

```
MSA$MANAGER>  ADD FILE_SERVER "VAXshare on SRVR1"
```

Add a volume

4 Make a VMS file directory for users by adding a volume.

To add a volume, enter:

```
MSA$MANAGER>  ADD VOLUME volumename-
_MSA$MANAGER> /ROOT=disk:[directory]
```

Where:

volumename	Is the name of the volume you are adding as it appears to AppleShare workstations. The volume name must be unique among all volumes managed by a file server and can be from 1 to 27 characters long. If you include spaces in the volume name, enclose the volume name in quotation marks (").
disk:[directory]	Is the location for the files for you volume you are creating.

For example, to add a volume with the name VOL1 and place the files for the volume in the MAC_V0L1 directory on DUA0:, enter:

```
MSA$MANAGER>  ADD FILE_SERVER
_MSA$MANAGER>  VOL1/ROOT=DUA0:[MAC_VOL1]
```

Note *VAXshare volumes cannot be shared by servers across nodes in a cluster. Each volume can only be served by a single server.*

For more information about adding file server volumes, see the *System Administrator's Guide*.

Start the VAXshare File Server

5 Start the file server by entering:

```
MSA$MANAGER>  START FILE_SERVER servername
```

Where:

servername	Is the VAXshare File Server to start. If spaces are part of the file server's name, use double quotation marks to preserve the format.

For example, to start the VAXshare File Server named VAXshare on SRVR1, enter:

```
MSA$MANAGER> START FILE_SERVER "VAXshare on SRVR1"
```

6 Repeat steps 1 through 5 at each server in the VAXcluster system.

Next Steps

Now that you have configured your VAXcluster system, you must:

1 Make changes to the default network configuration established by VMSINSTAL, if needed.

See Chapter 2 in the *System Administrator's Guide.*

2 Add volumes to the VAXshare file server.

See Chapter 6 in the *System Administrator's Guide.*

3 Change the default file server configuration established by VMSINSTAL, if needed.

See Chapter 7 in the *System Administrator's Guide.*

4 Add print services.

See Chapter 8 in the *System Administrator's Guide.*

5 Make sure the Macintosh computers meet installation requirements.

See the Installation Module in the *Network Services User's Guide.*

6 Install client software on the Macintosh computers.

See the Installation Module in the *Network Services User's Guide.*

7 Select network connection, and file and print services, if desired.

See Chapters 2 and 3 in the *Network Services User's Guide.*

8 Configure custom session document for terminal emulation, if desired.

See the *MacTerminal User's Guide* and Chapter 4 in the the *Network Services User's Guide.*

9 Configure custom settings document for using DECwindows applications, if desired.

See the *MacX User's Guide* and Chapter 5 in the *Network Services User's Guide.*

10 Configure the Macintosh computers for DECnet if you plan to use the DECnet protocol.

See the *DECnet for Macintosh User's Guide.*

A

Sample Installation Script

```
Username: SYSTEM
Password:
 Welcome to VAX/VMS V5.3

$ SET DEFAULT SYS$UPDATE
$ @VMSINSTAL MSA010 MUA0 OPTIONS N

       VAX/VMS Software Product Installation Procedure V5.3

It is 25-JUN-1990 at 12:14.

Enter a question mark (?) at any time for help.
* Are you satisfied with the backup of your system disk [YES]?

The following products will be processed:

  MSA V1.0

      Beginning installation of MSA V1.0 at 12:30

%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]: 2
* Queue name [SYS$PRINT]:
Job MSA010 (queue SYS$PRINT, entry 184) pending

* Do you want to continue the installation [NO]? y
%VMSINSTAL-I-RELMOVED , The product's release notes have been
successfully moved to SYS$HELP.

        +-----------------------------------------+
        | PATHWORKS for Macintosh, Version V1.0a  |
        +-----------------------------------------+
```

```
  ****************************************************************
  *                                                              *
  *                Copyright (c) 1990, 1991 by                   *
  *    Digital Equipment Corporation, Maynard, Massachusetts     *
  *                            and                               *
  *          Apple Computer, Inc., Cupertino, California         *
  *                    All rights reserved.                      *
  *                                                              *
  ****************************************************************

* Do you want to run the IVP after the installation [YES]?
* Do you want to purge files replaced by this installation [YES]?

 PATHWORKS for Macintosh is composed of several components.
 This installation allows you to select which of these components
 you wish to install on your system.

 Note that many of these components will require that AppleTalk for
 VMS be installed. These dependencies are noted in the table below
 in parenthesis (where [1] indicates that 'AppleTalk for VMS' is
 required; [1,3] indicates 'AppleTalk for VMS' and 'VAXshare File
 Server' are required).

 Component #     Component Name                              Requires
 ------------------------------------------------------------------
     1           AppleTalk for VMS
     2           AppleTalk/DECnet Gateway                      [1]
     3           VAXshare File Server                          [1]
     4           VAXshare Print Server                         [1]
     5           PATHWORKS V1.0 Client Volume                [1,3]
     6           DECwindows AppleTalk (ADSP) Transport         [1]
     7           VMS Mail Server
     8           Data Access Language Server                   [1]

* Do you wish to install all components [YES]?

%MSA-I-CHECKSYS, Now checking component requirements against system...

%MSA-I-SYSOK, System appears to have met our requirements.  Continuing...

     Questions will now be asked for the selected components.

   *********************************
   *                               *
   *  AppleTalk for VMS Questions  *
   *                               *
   *********************************

%MSA-I-ATKCONFIG, Now configuring AppleTalk for VMS...

     The following Ethernet devices were found on your system:

                          XQA0
                          XQB0

* Which device do you want used as the AppleTalk primary port? [XQA0]:

%MSA-I-ENDATKQ, End of AppleTalk for VMS questions
```

```
   ****************************************
   *                                      *
   *  AppleTalk/DECnet Gateway Questions  *
   *                                      *
   ****************************************
```

The AppleTalk/DECnet Gateway allows you to specify a Macintosh name which will identify the gateway in the Macintosh Chooser. The name you specify can be up to 32 characters long and must be unique among DECnet Gateways in the same AppleTalk zone.

```
* Enter the name for the gateway [DECnet on SRVR2]:

%MSA-I-ENDATKGWQ, End of AppleTalk/DECnet Gateway questions
```

```
   ***********************************
   *                                 *
   *  VAXshare File Server Questions *
   *                                 *
   ***********************************
```

You will now be asked for the name of the VAXshare File Server. This is the name that appears in the Macintosh Chooser dialog box. It must be a unique name (32 characters or less) that isn't the same as any other AppleShare file server's name in the same AppleTalk zone.

```
* Enter the server name for VAXshare [VAXshare on SRVR2]:
```

The VAXshare File Server will allow guest access for Macintosh users if you wish to enable it. Enabling guest access requires creating a non-privileged account (MSAF$GUEST) which will be used as the VAXshare guest account.

```
* Do you want to allow guest access to VAXshare [NO]? y
* Enter the UIC for the MSAF$GUEST account [[360,210]]:
%VMSINSTAL-I-ACCOUNT, This installation creates an ACCOUNT named
MSAF$GUEST.
%UAF-I-ADDMSG, user record successfully added
%UAF-I-RDBADDMSGU, identifier MSAF$GUEST value: [000360,000200] added to
rights
%UAF-I-RDBADDMSGU, identifier MSA value: [000360,177777] added to rights
data b
%VMSINSTAL-I-ACCOUNT, This installation updates an ACCOUNT named
MSAF$GUEST.
%UAF-I-MDFYMSG, user record(s) updated
%VMSINSTAL-I-ACCOUNT, This installation updates an ACCOUNT named
MSAF$GUEST.
%UAF-I-MDFYMSG, user record(s) updated

%MSA-I-ENDMSAFQ, End of VAXshare File Server questions
```

```
   ************************************
   *                                  *
   *  VAXshare Print Server Questions  *
   *                                  *
   ************************************

   The  VAXshare Print Server  requires an account which will be used
   for printing jobs received from the Macintosh.  You must now enter
   a unique non-system UIC for this account.

* Enter the UIC for the MSAP$ACCOUNT account [[360,210]]:
%VMSINSTAL-I-ACCOUNT, This installation creates an ACCOUNT named
MSAP$ACCOUNT.
%UAF-I-ADDMSG, user record successfully added
%UAF-I-RDBADDMSGU, identifier MSAP$ACCOUNT value: [000360,000210] added to
right s data base
%VMSINSTAL-I-ACCOUNT, This installation updates an ACCOUNT named
MSAP$ACCOUNT.
%UAF-I-MDFYMSG, user record(s) updated
%VMSINSTAL-I-ACCOUNT, This installation updates an ACCOUNT named
MSAP$ACCOUNT.
%UAF-I-MDFYMSG, user record(s) updated

%MSA-I-ENDMSAPQ, End of VAXshare Print Server questions

   ****************************************************
   *                                                  *
   *  PATHWORKS V1.0 Client Volume Questions          *
   *                                                  *
   ****************************************************

   The PATHWORKS V1.0 client volume  can be installed on a disk other
   than the system disk if you wish.  In order to install the volume,
   the target disk must have at least 23000 free blocks.

   You will now be asked to enter the device name for the target disk
   where the PATHWORKS V1.0 client volume will be installed.

* Enter the target disk device name [SYS$SYSDEVICE]:

   The  PATHWORKS V1.0 client volume will  be  installed  in  the
   following location:

           SYS$SYSDEVICE:[MSA$010A_APPS]

%MSA-I-ENDMSAVQ, End of PATHWORKS V1.0 Client Volume questions

   ****************************************
   *                                      *
   *  Data Access Language Server Questions  *
   *                                      *
   ****************************************

   You may now  specify an  alternate  directory  for the Data Access
   Language (DAL) Server  system root (MSAD$SYSTEM)  where  the  test
   database  and other files  will be installed.
```

```
* Enter DAL system root [SYS$SYSROOT:[MSA.MSAD$SYSTEM]]:

   A  pre-compiled  DAL test database  is included with  this kit for
   sites running the run-time only version of VAX Rdb/VMS.

* Do you want the DAL test database installed [YES]?

%MSA-I-ENDDALQ, End of Data Access Language Server questions

  After this installation procedure completes, you will need to edit
  your  SYSTARTUP_V5.COM  file in  SYS$MANAGER  to add the following
  line:
                  $ @SYS$STARTUP:MSA$STARTUP.COM

  This command procedure  will start all components of  VMS Services
  for Macintosh which have been installed on this system.

                        * * *  N O T E  * * *

            PATHWORKS for Macintosh should be started
            only after DECnet and the queue manager have
            been started.

  We will  now  begin the installation of files  and  images for the
  selected components.

%MSA101-I-NOMORE, No further questions will be asked

%VMSINSTAL-I-RESTORE, Restoring product save set B ...
%MSA-I-ATKFILES, Now installing AppleTalk for VMS files...
%MSA-I-ATKIMAGES, Now installing AppleTalk for VMS images...
%MSA-I-ATKGWFILES, Now installing AppleTalk/DECnet Gateway files...
%MSA-I-ATKGWIMAGES, Now installing AppleTalk/DECnet Gateway images...
%MSA-I-MSAFFILES, Now installing VAXshare File Server files...

%VMSINSTAL-I-SYSDIR, This product creates system directory [MSA].

 If you intend to execute this layered product on other nodes in your
 VAXcluster, and you have the appropriate software license, you must
 prepare the system-specific roots on the other nodes by issuing the
 following command on each node (using a suitably privileged account):

    $ CREATE /DIRECTORY SYS$SPECIFIC:[MSA]/OWNER_UIC=[1,4]
```

```
%VMSINSTAL-I-SYSDIR, This product creates system directory
[MSA.MSAF$ICONS].
%VMSINSTAL-I-SYSDIR, This product creates system specific directory
[MSA.MSAF$SERVER0].
%MSA-I-MSAMGIMAGES, Now installing VAXshare management images...
%MSA-I-MSAFIMAGES, Now installing VAXshare File Server images...
%MSA-I-MSAPFILES, Now installing VAXshare Print Server files...
%VMSINSTAL-I-SYSDIR, This product creates system directory
[MSA.MSAP$UTILITY].
%VMSINSTAL-I-SYSDIR, This product creates system specific directory
[MSA.MSAP$SPOOL].
%MSA-I-MSAPIMAGES, Now installing VAXshare Print Server images...
%MSA-I-MSAVFILES, Now restoring PATHWORKS Client Volume...
%VMSINSTAL-I-SYSDIR, This product creates system disk directory
SYS$SYSDEVICE:[MSA$010A_APPLS].
%MSA-I-MSAVFILES, Now installing PATHWORKS Client Volume files...
%MSA-I-DECWFILES, Now installing DECwindows AppleTalk (ADSP)
Transport files...

%VMSINSTAL-I-SYSDIR, This product creates system directory
[SYSTEST.MSAX$IVP].
%VMSINSTAL-I-SYSDIR, This product creates system directory
[SYSHLP.EXAMPLES.MSA].
%MSA-I-DECWIMAGES, Now installing DECwindows AppleTalk (ADSP)
Transport images...
%MSA-I-MAILIMAGES, Now installing VMS Mail Server images...
%MSA-I-DALFILES, Now installing Data Access Language Server files...
%VMSINSTAL-I-SYSDIR, This product creates system directory
[MSA.MSAD$SYSTEM].

 If you intend to execute this layered product on other nodes in your
 VAXcluster, and you have the appropriate software license, you must
 prepare the system-specific roots on the other nodes by issuing the
 following command on each node (using a suitably privileged account):

        $ CREATE /DIRECTORY SYS$SPECIFIC:[MSA.MSAD$SYSTEM]
%MSA-I-MSADIMAGES, Now installing Data Access Language Server
images...
%MSA-I-MISCFILES, Now installing miscellaneous files...
%MSA-I-MISCIMAGES, Now installing miscellaneous images...
%VMSINSTAL-I-MOVEFILES, Files will now be moved to their target
directories...

Starting AppleTalk for VMS...


Starting AppleTalk/DECnet Gateway...
Gateway ACP created, process ID = 00000036


Starting VAXshare File Server...
%MSA-I-STARTING, "VAXshare on SRVR2" is starting"

Starting VAXshare Print Server...
```

```
%LIBRAR-S-INSERTED, module MSAP$PROCSET1 inserted in SYS$COMMON:
[SYSLIB]MSAP$DEVCTL.TMP_TLB;1
%LIBRAR-S-INSERTED, module MSAP$PROCSET2 inserted in SYS$COMMON:
[SYSLIB]MSAP$DEVCTL.TMP_TLB;1
%LIBRAR-S-INSERTED, module MSAP$PROCSET3 inserted in SYS$COMMON:
[SYSLIB]MSAP$DEVCTL.TMP_TLB;1
%LIBRAR-S-INSERTED, module MSAP$PROCSET4 inserted in SYS$COMMON:
[SYSLIB]MSAP$DEVCTL.TMP_TLB;1
%RENAME-I-RENAMED, SYS$COMMON:[SYSLIB]MSAP$DEVCTL.TMP_TLB;1 renamed
to SYS$COMMON:[SYSLIB]MSAP$DEVCTL.TLB;2
%PURGE-I-NOFILPURG, no files purged
%MSA-E-PRTDATNOTFOUND, printer data file not found

Starting DECwindows AppleTalk (ADSP) Transport...

Starting Data Access Language Server...
%RUN-S-PROC_ID, identification of created process is 00000042
DAL AppleTalk Listener Started!

   ************************************************************
   *                                                          *
   *    Now starting Installation Verification Procedure for  *
   *    PATHWORKS for Macintosh V1.0                          *
   *                                                          *
   ************************************************************


Starting AppleTalk for VMS IVP...

 Performing Installation Verification on AppleTalk for VMS
                  version 03.00-006B

 Installation Verification Completed Successfully


Starting VAXshare File Server IVP...

Beginning installation verification of the VAXshare file server at
25-JUN-1990 12:41
%MSA-I-STARTING, "IVP Test Server" is starting"
%MSA-I-STOPPING, "IVP Test Server" is stopping"
Installation verification of the VAXshare file server has completed
succesfully


Starting VAXshare Print Server IVP...
%MSA-I-STARTING, "MSAP$IVP SRVR2 Receiver" is starting"
%MSA-I-STARTING, "MSAP$IVP SRVR2 Symbiont" is starting"
Job MSAP$IVP (queue MSAP$IVP_SRVR2_SYMBIONT, entry 377) started on
MSAP$IVP_SRVR2_SYMBIONT
%MSA-I-STOPPING, "MSAP$IVP SRVR2 Symbiont" is stopping"
%MSA-I-STOPPING, "MSAP$IVP SRVR2 Receiver" is stopping"

   ************************************************************
   *                                                          *
   *   The installation verification procedure for the VAXshare  *
   *   Print Server V1.0 has completed successfully.          *
   *                                                          *
   ************************************************************
```

```
Starting DAL Database Server IVP...
 ... Verifying DAL RDB adapter ...
 ... DAL RDB Adapter passed ...

 ... Verifying DAL Server ...
 ... DAL Server passed ...


Starting DECwindows AppleTalk (ADSP) Transport IVP...
%MSAX$IVP-I-REQUEST,  DECwindows connection request via ADSP received
%MSAX$IVP-I-ACCEPT,   DECwindows connection via ADSP accepted
%MSAX$IVP-I-TRAFFIC,  Sending & Receiving DECwindows messages via ADSP
%MSAX$IVP-I-FINISHED, Installation Verification Procedure Finished
%MSAX$IVP-I-SUCCESS,  Installation Verification Procedure Successful

   ************************************************************
   *                                                          *
   *    Installation Verification Procedure for PATHWORKS     *
   *    for Macintosh V1.0 has completed successfully.        *
   *                                                          *
   ************************************************************

   Installation of MSA V1.0 completed at 12:45

   VMSINSTAL procedure done at 12:45

$ logout
  SYSTEM       logged out at 25-JUN-1990 12:47:28.01
```

B

Files Installed on Your System

Your directories contain only those files associated with the components you chose to install.

The PATHWORKS for Macintosh installation procedure installs a number of files in your SYS$COMMON root device.

This appendix lists the files installed and identifies the:

- File location
- Component with which each file is associated

Table B–1 Directory: SYS$COMMON:(MSA)

File Name	Component
MSAF$CLEANUP.COM	VAXshare File Server
MSAF$CONVERT_ALISASHARE.COM	VAXshare File Server
MSAF$EXCLUDE.DAT	VAXshare File Server
MSAF$FILE_TYPES.DAT	VAXshare File Server
MSAF$ICONS.DAT	VAXshare File Server
MSAF$RUN.COM	VAXshare File Server

Note *If you specified a different Data Access Language system root directory during the installation procedure, the files listed in Table B–2 are located in the directory you specified.*

Table B–2 Directory: SYS$COMMON:(MSA.MSAD$SYSTEM)

File Name	Component
BUILDDB.EXE	Data Access Language Server
DALSHARE.COM	Data Access Language Server
CONTROL.DAT	Data Access Language Server
CUSTOMER.DAT	Data Access Language Server
MAKEDEMO.COM	Data Access Language Server
MSAD$LOGICALS.COM	Data Access Language Server
MSAD$MSG.COM	Data Access Language Server
MSAD$MSG.MSG	Data Access Language Server
MSAD$PROCEDURES.DAT	Data Access Language Server
MSAD$SERVER.COM	Data Access Language Server
MSAD$SERVER_VIA_ATK.COM	Data Access Language Server
MSAD$START_ATK_SVR.COM	Data Access Language Server
MSAD$STOP_ATK_SVR.COM	Data Access Language Server
MSAD$TEST.EXE	Data Access Language Server
OFFICES.DAT	Data Access Language Server
ORDERS.DAT	Data Access Language Server
STAFF.DAT	Data Access Language Server
STORES.DAT	Data Access Language Server
STORE_INV.DAT	Data Access Language Server
WAREHOUSES.DAT	Data Access Language Server
WARE_INV.DAT	Data Access Language Server

Table B–3 Directory: SYS$COMMON:(MSAF$ICONS)

File Name	Component
COM_VMSS.DAT	VAXshare File Server
DDIF_CDAD.DAT	VAXshare File Server
DOTS_CDAD.DAT	VAXshare File Server
DTIF_CDAD.DAT	VAXshare File Server
EXE_VMSS.DAT	VAXshare File Server
MBIN_DECM.DAT	VAXshare File Server
NOGO_MSAF.DAT	VAXshare File Server
OBJ_VMSS.DAT	VAXshare File Server
OLB_VMSS.DAT	VAXshare File Server
PICT_MDRW.DAT	VAXshare File Server
PNTG_MPNT.DAT	VAXshare File Server
TEXT_TTXT.DAT	VAXshare File Server
TEXT_XCEL.DAT	VAXshare File Server
UNKN_MSAF.DAT	VAXshare File Server
WDBM_MSWD.DAT	VAXshare File Server
WORD_MACA.DAT	VAXshare File Server

Table B–4 Directory: SYS$COMMON:(MSAP$UTILITY)

File Name	Component
MSAP$BUILD_FORM.COM	VAXshare Print Server
MSAP$DECPREP5_0.PS	VAXshare Print Server
MSAP$DECPREP5_1.PS	VAXshare Print Server
MSAP$DECPREP5_2.PS	VAXshare Print Server
MSAP$DECPREP6_0.PS	VAXshare Print Server
MSAP$DEFAULT_APPLE_FONTS.TXT	VAXshare Print Server
MSAP$DEFAULT_DIGITAL_FONTS.TXT	VAXshare Print Server
MSAP$FONTLIST_DEC29.TXT	VAXshare Print Server
MSAP$FONTLIST_DEC43.TXT	VAXshare Print Server
MSAP$FONTLIST_APPLE13.TXT	VAXshare Print Server

(continued on next page)

Table B–4 (Cont.) Directory: SYS$COMMON:(MSAP$UTILITY)

File Name	Component
MSAP$FONTLIST_APPLE35.TXT	VAXshare Print Server
MSAP$INSERT_DECPREP.COM	VAXshare Print Server
MSAP$SET_PARAMS.PS	VAXshare Print Server
MSAP$SHOW_PARAMS.PS	VAXshare Print Server

Table B–5 Directory: SYS$COMMON:(SYS$LDR)

File Name	Component
ATK$APPLETALK_PROTOCOL_STACK.EXE	AppleTalk for VMS
GWDRIVER.EXE	AppleTalk/DECnet Gateway
PSDRIVER.EXE	AppleTalk for VMS

Table B–6 Directory: SYS$COMMON:(SYS$STARTUP)

File Name	Component
ATK$STARTUP.COM	AppleTalk for VMS
ATKGW$STARTUP.COM	AppleTalk/DECnet Gateway
MSAD$STARTUP.COM	Data Access Language Server
MSA$STARTUP.COM	For all components
MSAF$STARTUP.COM	VAXshare File Server
MSAP$STARTUP.COM	VAXshare Print Server
MSAX$STARTUP.COM	DECwindows AppleTalk (ADSP) Transport

Table B–7 Directory: SYS$COMMON:(SYSEXE)

File Name	Component
ATK$MANAGER.EXE	AppleTalk for VMS
ATK$APPLETALK_ACP.EXE	AppleTalk for VMS
ATKGW$APPLETALK_GATEWAY.EXE	AppleTalk/DECnet Gateway

(continued on next page)

Table B–7 (Cont.) Directory: SYS$COMMON:(SYSEXE)

File Name	Component
MSA$MANAGER.EXE	VAXshare Management
MSA$RMI_AGENT.EXE	VAXshare Management
MSA$STOP_DEVICE_OWNERS.EXE	For all components
MSAD$ATK_SVR.EXE	Data Access Language Server
MSAD$SERVER.EXE	Data Access Language Server
MSAF$SERVER.EXE	VAXshare File Server
MSAP$RECEIVER.EXE	VAXshare Print Server
MSAP$SYMBIONT.EXE	VAXshare Print Server
MSAX$CLIENT.COM	For all components
MSAX$ERROR.EXE	For all components
MSAX$MODMAP.EXE	DECwindows AppleTalk (ADSP) Transport
MSAX$TEST.COM	For all components
MSAX$VERIFY.EXE	For all components

Table B–8 Directory: SYS$COMMON:(SYSHLP)

File Name	Component
ATK$HELP.HLB	AppleTalk for VMS

Table B–9 Directory: SYS$COMMON:(SYSHLP.EXAMPLES.MSA)

File Name	Component
MSAX$INSCRIPTIONAL_EXTENDED_KEYBOARD.DAT	DECwindows AppleTalk (ADSP) Transport
MSAX$POSITIONAL_EXTENDED_KEYBOARD.DAT	DECwindows AppleTalk (ADSP) Transport
MSAX$STANDARD_EXTENDED_KEYBOARD.DAT	DECwindows AppleTalk (ADSP) Transport

Table B–10 Directory: SYS$COMMON:(SYSLIB)

File Name	Component
ATK$API_SYMBOLS.ADA	AppleTalk for VMS
ATK$API_SYMBOLS.FOR	AppleTalk for VMS
ATK$API_SYMBOLS.H	AppleTalk for VMS
ATK$API_SYMBOLS.MAR	AppleTalk for VMS
ATK$API_SYMBOLS.PAS	AppleTalk for VMS
ATK$API_SYMBOLS.PLI	AppleTalk for VMS
ATK$API_SYMBOLS.R32	AppleTalk for VMS
ATK$APPLETALK_RTL.EXE	AppleTalk for VMS
ATK$PAP_RTL.EXE	AppleTalk for VMS
ATKGW$SSI_ROUTINES.OLB	AppleTalk/DECnet Gateway
ATKGW$SSI_SYMBOLS.ADA	AppleTalk/DECnet Gateway
ATKGW$SSI_SYMBOLS.FOR	AppleTalk/DECnet Gateway
ATKGW$SSI_SYMBOLS.H	AppleTalk/DECnet Gateway
ATKGW$SSI_SYMBOLS.MAR	AppleTalk/DECnet Gateway
ATKGW$SSI_SYMBOLS.PAS	AppleTalk/DECnet Gateway
ATKGW$SSI_SYMBOLS.PLI	AppleTalk/DECnet Gateway
ATKGW$SSI_SYMBOLS.R32	AppleTalk/DECnet Gateway
DECW$TRANSPORT_ADSP.EXE	DECwindows AppleTalk (ADSP) Transport
MSA$MI_SHR.EXE	VAXshare Management
MSAD$CM_ATK_SHR.EXE	Data Access Language Server
MSAD$CM_PKTASYNC_SHR.EXE	Data Access Language Server
MSAD$DB_RDB_SHR.EXE	Data Access Language Server
MSAP$DEVCTL.TLB	VAXshare Print Server
MSAD$TEST.EXE	Data Access Language Server
MSAP$TRANS_POSTSCRIPT.EXE	VAXshare Print Server
MSAP$TRANS_TEXT.EXE	VAXshare Print Server

Table B–11 Directory: SYS$COMMON:(SYSMGR)

File Name	Component
ATK$CONFIG.COM	AppleTalk for VMS
MSA$SHUTDOWN.COM	For all components

Table B–12 Directory: SYS$COMMON:(SYSMSG)

File Name	Component
ATK$MESSAGES.EXE	AppleTalk for VMS
ATKGW$MSG.EXE	AppleTalk/DECnet Gateway
MSA$MI_MSG.EXE	VAXshare Management
MSAD$MSG.EXE	Data Access Language Server
MSAF$MSG.EXE	VAXshare File Server
MSAP$MSG.EXE	VAXshare Print Server
MSAX$ADSP_MSG.EXE	DECwindows AppleTalk (ADSP) Transport

Table B–13 Directory: SYS$COMMON:(SYSTEST)

File Name	Component
ATK$IVP.COM	AppleTalk for VMS
ATKGW$IVP.COM	AppleTalk/DECnet Gateway
MSA$IVP.COM	For all components
MSAD$IVP.COM	Data Access Language Server
MSAF$IVP.COM	VAXshare File Server
MSAP$IVP.COM	VAXshare Print Server
MSAX$IVP.COM	DECwindows AppleTalk (ADSP) Transport

Table B–14 Directory: SYS$COMMON:(SYSTEST.ATK)

File Name	Component
ATK$IVP.EXE	AppleTalk for VMS

Table B–15 Directory: SYS$COMMON:(SYSTEST.ATKGW)

File Name	Component
ATKGW$IVP.EXE	AppleTalk/DECnet Gateway

Table B–16 Directory: SYS$COMMON:(SYSTEST.MSAX$IVP)

File Name	Component
MSAX$IVP.DAT	DECwindows AppleTalk (ADSP) Transport
MSAX$IVP.EXE	DECwindows AppleTalk (ADSP) Transport

C

DECnet Objects Created by PATHWORKS Software for Macintosh Computers

The following DECnet objects are created by PATHWORKS for Macintosh:

Object Name:	ATK$ROUTER
Object Number:	85
Description:	Used by the router for DECnet tunnel ports.
Used by:	AppleTalk for VMS
Object Name:	ATKGW$GWAY
Object Number:	0
Description:	Used to make DECnet to AppleTalk gateway connections.
Used by:	AppleTalk/DECnet Gateway
Object Name:	MSA$RMI
Object Number:	0
Description:	A VAXshare remote management interface object used for remote management of VAXshare file and print servers.
Used by:	VAXshare File and Print Servers

Object Name:	MSAX$CLIENT
Object Number:	0
Description:	Used for starting DECwindows client applications.
Used by:	MacX X-windows server (Macintosh application)

Object Name:	PCSA$MAIL
Object Number:	0
Description:	Used for accessing VMS Mail from the Macintosh.
Used by:	VMS Mail Server

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PATHWORKS for Macintosh
Planning and Installation Guide
AA–PBFDB–TE

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