DEC InfoServer Client Software for VMS Installation_Guide

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This manual explains how to install the DEC InfoServer Client Software for VMS on a VMS system.

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Contents

Preface v

1 Preparing to Install DEC InfoServer Client Software for VMS

1.1 Required Operating System Components 1–1
1.2 Prerequisite Hardware 1–1
1.3 License Registration 1–2
1.4 Installation Procedure Requirements 1–2
1.4.1 Privileges and Disk Space 1–2
1.4.2 Process Account Quotas 1–3
1.4.3 VMSINSTAL Requirements 1–4
1.4.4 Backing Up Your System Disk 1–5
1.4.5 DEC InfoServer Client Software for VMS Requirements 1–5

2 Installing DEC InfoServer Client Software for VMS

2.1 The Installation Procedure 2–1
2.2 Error Recovery 2–7

3 After Installing DEC InfoServer Client Software for VMS

3.1 Running the Installation Verification Procedure Separately 3–1
3.2 Editing the System Files 3–1
3.2.1 Startup Restrictions: PCSA and RSM 3–2
3.2.2 Startup Restrictions: SYSMAN 3–3
3.3 VAXcluster Considerations 3–3
3.4 User Account Requirements 3–3
3.4.1 Privileges 3–3
3.4.2 User Account Quotas 3–3
3.5 Determining and Reporting Problems 3–4

A Sample Installation: Run-Time Kit

B Files and Logical Names Installed on Your System

B.1 File Names B–1
B.2 Logical Names B–2

C Release Notes

C.1 Overview of the InfoServer 100 . . . . . C–1
C.2 VMS Upgrade Considerations C–2
C.3 VAXcluster Restrictions C–2
C.4 Upgrading to VMS V5.4 from an InfoServer C–2

Tables

1–1 Disk Space Requirements 1–3
1–2 Process Account Quotas for the Installing Account 1–3

Preface

This manual explains how to install the DEC InfoServer Client Software for VMS on a VMS system.

Intended Audience

This manual is intended for VMS system managers and managers of an InfoServer 100.

Related Documents

The *VMS LAD Control Program Manual* describes the commands for configuring and controlling the Local Area Disk (LAD) protocol on VMS systems. The *InfoServer 100 System Operations Guide*, included with your InfoServer 100 hardware, describes how to set up and operate an InfoServer 100.

Conventions

The following conventions are used in this manual:

Convention	Meaning
Return	In examples, a key name is shown within a box to indicate that you press a key on the keyboard. Return is not usually shown in syntax statements or in all examples; however, assume that you must press Return after entering a command or responding to a prompt.
Ctrl/C	For control key sequences, hold down the Ctrl key while you press the second key.
$ **SHOW TIME**	In examples, user input appears in bold.

Convention	Meaning
[ ]	Brackets in installation dialog enclose default answers. To choose the default, press the Return key. To specify another answer, type the answer after the question and press Return.

1

Preparing to Install DEC InfoServer Client Software for VMS

This chapter discusses the preparations and requirements necessary for installing DEC InfoServer Client Software for VMS.

This manual applies to Version 1.0 of DEC InfoServer Client Software for VMS and all subsequent maintenance releases up to the next major product release.

Your bill of materials (BOM) and indented bills report (BIL) specify 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.

DEC InfoServer Client Software for VMS provides online release notes. Digital strongly recommends that you read the release notes before proceeding with the installation. For information on accessing the online release notes, see Section 2.1. The release notes are also included as Appendix C of this document.

1.1 Required Operating System Components

The VMS operating system comes with a variety of support options, or classes. Classes include such features as networking and RMS journaling. To use DEC InfoServer Client Software for VMS, your system should be running VMS Version 5.0 to Version 5.3–2 software that includes the Base Operating System.

For a complete list of the required classes, see the Software Support Addendum (SSA), which comes with the Software Product Description (SPD).

1.2 Prerequisite Hardware

DEC InfoServer Client Software for VMS requires that the system have an Ethernet device installed.

1.3 License Registration

DEC InfoServer Client Software for VMS does not require a license to be registered with the VMS License Management Facility. Every InfoServer is sold with license capacity for four concurrent client accesses. If this is found to be insufficient, contact your Digital sales representative to purchase additional client licenses for the InfoServer.

1.4 Installation Procedure Requirements

This section and those that follow discuss various requirements for installing DEC InfoServer Client Software for VMS.

The installation takes approximately 5 to 30 minutes, depending on your type of media and your system configuration.

Installing DEC InfoServer Client Software for VMS and running the Installation Verification Procedure (IVP) on a standalone VAXstation 2000 system takes 10 minutes.

1.4.1 Privileges and Disk Space

To install DEC InfoServer Client Software for VMS, you must be logged in to an account that has SETPRV or at least the following privileges:

- CMKRNL
- WORLD
- SYSPRV
- SYSNAM

Note that VMSINSTAL turns off BYPASS privilege at the start of the installation.

DEC InfoServer Client Software for VMS requirements for free disk storage space are different during installation and after installation. Table 1–1 summarizes the storage requirements.

Table 1–1 Disk Space Requirements

Kit	Blocks During Installation	Blocks After Installation
DEC InfoServer Client Software for VMS Version 1.0	1500	625

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
```

1.4.2 Process Account Quotas

The account you use to install DEC InfoServer Client Software for VMS must have sufficient quotas to enable you to perform the installation. Table 1–2 summarizes the process quotas required for the installation account.

Table 1–2 Process Account Quotas for the Installing Account

Account Quota	Value
ASTLM	24
BIOLM	18
BYTLM	18,000
DIOLM	18
ENQLM	30
FILLM	20
WSDEF	300[1]

[1]The values for WSEXT and WSQUO must be equal to or greater than the WSDEF value.

User account quotas are stored in the file SYSUAF.DAT. Use the VMS Authorize Utility (AUTHORIZE) to verify and change user account quotas. First set your directory to SYS$SYSTEM and then run AUTHORIZE:

```
$ SET DEFAULT SYS$SYSTEM
$ RUN AUTHORIZE
UAF>
```

At the UAF> prompt, enter the SHOW command with an account name to check a particular account. For example:

```
UAF> SHOW SMITH
```

To change a quota, enter the MODIFY command. The following example changes the FILLM quota for the SMITH account and then exits from the utility:

```
UAF> MODIFY SMITH /FILLM=50
UAF> EXIT
```

After you exit from the utility, the system displays messages indicating whether or not changes were made. Once the changes have been made, you must log out and log in again for the new quotas to take effect.

For more information on modifying account quotas, see the description of the Authorize Utility in the VMS System Management Subkit.

1.4.3 VMSINSTAL Requirements

When you invoke VMSINSTAL, it checks the following:

- Whether you have set your default device and directory to SYS$UPDATE
- Whether you are logged in to a privileged account
- Whether you have adequate quotas for installation
- Whether DECnet is running
- Whether any users are logged in to the system

Note that VMSINSTAL requires that the installation account have a minimum of the following quotas:

ASTLM = 24
BIOLM = 18
BYTLM = 18,000
DIOLM = 18
ENQLM = 30
FILLM = 20

If VMSINSTAL detects any problems during the installation, it notifies you and asks if you want to continue the installation. In some instances, you can enter YES to continue. To stop the installation process and correct the situation, enter NO or press RETURN. Then correct the problem and restart the installation.

1.4.4 Backing Up Your System Disk

At the beginning of the installation, VMSINSTAL asks if you have backed up your system disk. Digital recommends that you do a system disk backup before installing any software.

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 in the VMS System Management Subkit.

1.4.5 DEC InfoServer Client Software for VMS Requirements

DEC InfoServer Client Software for VMS will check if either VMS Services for PCs (PCSA) or Remote System Manager (RSM) has been installed on the system. The installation will print a warning message if any PCSA or RSM drivers or control programs are found.

```
%ESS$CLIENT-W-FILFND, The following drivers were found in SYS$LOADABLE_IMAGES.
-ESS$CLIENT-W-FILFND,    LASTDRIVER.EXE LADDRIVER.EXE LADCDRIVER.EXE


    This installation  has  found  drivers on your system that indicate that
    you  are  using  either  RSM  or PCSA.  This installation will continue;
    however,  the InfoServer client will not be able to start up if the PCSA
    or RSM startup is executed before the InfoServer client startup.


%ESS$CLIENT-W-FILFND, The following control programs were found in SYS$SYSTEM.
-ESS$CLIENT-W-FILFND, LASTCP.EXE


    This installation has found versions of Control Programs that may not be
    compatible  with  the  new drivers. New versions of the control programs
    will  be  provided  by this installation. If these control programs were
    provided  by  either  the  RSM or PCSA products, you will want to review
    Appendix  C  and the post-installation chapter of the installation guide
    that  came  with  this  kit  detailing  the ordering of startups for the
    InfoServer client, RSM and PCSA server.
```

If the startup procedure for the DEC InfoServer Client Software for VMS finds that the RSM startup procedure SYS$STARTUP:RSM$SERVER_ STARTUP.COM has not been conditioned to work with the DEC InfoServer Client Software for VMS, the procedure SYS$EXAMPLES:ESS$RSM$SERVER_ STARTUP.COM will be copied to SYS$STARTUP:RSM$SERVER_ STARTUP.COM and a message will be written to the following file: SYS$MANAGER:ESS$STARTUP.LOG.

2

Installing DEC InfoServer Client Software for VMS

This chapter explains how to install DEC InfoServer Client Software for VMS. Section 2.1 contains a step-by-step description of the installation procedure.

The last section covers postinstallation considerations.

2.1 The Installation Procedure

The DEC InfoServer Client Software for VMS installation procedure consists of a series of questions and informational messages. See Appendix A for a sample installation.

To abort 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 start the installation again.

1. **Invoke VMSINSTAL.**

   @SYS$UPDATE:VMSINSTAL saveset-name device-name OPTIONS N

   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. The following list defines the elements of the VMSINSTAL command procedure:

   saveset-name
   The installation name for the component. For DEC InfoServer Client Software for VMS, use the following installation name:

   ESS010

   device-name
   The name of the device on which you plan to mount the media. For example, MTA0: is the device name for a tape drive. It is not necessary to use the console drive for this installation. However, if you do use

the console drive, you should replace any media you removed once the installation is complete.

OPTIONS N
An optional parameter that indicates you want to see the question on release notes. If you do not include the OPTIONS N parameter, VMSINSTAL does not ask you about the release notes. You should review the release notes before proceeding with the installation in case they contain additional information about the installation. If you are restarting the installation and have already reviewed the release notes, you do not need to specify OPTIONS N.

Note that there are several other options you can select when you invoke VMSINSTAL:

- Auto-answer option (A): Initially creates a file that contains your answers to VMSINSTAL questions and prompts. You can then use the option (and the answer file) to save time during a reinstallation (typically after upgrading your system).
- Get save set option (G): Lets you store product save sets temporarily on a magnetic tape or in a disk directory.
- File log option (L): Logs all activity to the terminal during installation.
- Alternate root option (R): Lets you install the product to a system root other than that of the running system.

See the VMS documentation on software installation in the VMS System Management Subkit for detailed information on these options. If you specify more than one option, separate the options with commas (OPTIONS A,N).

The following example invokes VMSINSTAL to install DEC InfoServer Client Software for VMS from tape drive MTA0: and shows the system response. This example uses the OPTIONS N release note parameter.

```
$ @SYS$UPDATE:VMSINSTAL ESS010 MTA0: OPTIONS N

      VAX/VMS Software Product Installation Procedure V5.3


It is 1-Nov-1990 at 15:00.
Enter a question mark (?) at any time for help.
```

If you do not supply either the product name or the device name, VMSINSTAL prompts you for this information later in the installation procedure. VMSINSTAL does not prompt you for any options, so be sure to include OPTIONS N on the VMSINSTAL command line to access the release notes during the installation.

2. **Confirm DECnet status.**

```
%VMSINSTAL-W-DECNET, Your DECnet network is up and running.
    .
    .
    .
* Do you want to continue anyway [NO]?
```

VMSINSTAL notifies you if your DECnet network is running and displays a list of all active processes. It then asks if you want to continue the installation. You should install DEC InfoServer Client Software for VMS on a standalone system or cluster with DECnet shut down. NO is the default response to the question.

If you are installing on VMS Version 5.2 or higher, VMSINSTAL does not check the DECnet status. You can install DEC InfoServer Client Software for VMS while DECnet is up and running.

3. **Confirm system backup.**

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

VMSINSTAL asks if you are satisfied with your system backup. You should always back up your system disk before performing an installation. If you are satisfied with the backup of your system disk, press the Return key. Otherwise, enter NO to discontinue the installation. After you back up your system disk, you can restart the installation.

4. **Mount the media.**

```
Please mount the first volume of the set on MTA0:.
* Are you ready?  YES
%MOUNT-I-MOUNTED, ESS MOUNTED ON _$$MTA0:  (NODE1)
The following products will be processed:
  ESS V1.0

    Beginning installation of ESS V1.0 at 20:01

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

You should now mount the first distribution volume on the device you specified when you invoked VMSINSTAL. The device name appears in the line preceding the question. VMSINSTAL then asks you if you are ready to continue with the installation.

If you respond YES to indicate that you are ready, VMSINSTAL displays a message that the media containing DEC InfoServer Client Software for VMS has been mounted on the specified device and that the installation has begun.

If you entered the wrong device name when you invoked VMSINSTAL and need to restart the installation, enter NO in response to the ''Are you ready?'' question. To abort the installation for other reasons, press Ctrl/Y.

5. **Mount additional media volumes.**

```
%BACKUP-I-READYREAD, mount volume 2 on _MTA0: for reading

Enter "YES" when ready:
```

If your installation kit contains more than one volume, VMSINSTAL prompts you to mount the additional volumes and then asks you to indicate that you are ready for the installation to proceed.

6. **Select a release notes option.**

If you specified OPTIONS N when you started the installation, VMSINSTAL asks a question on release notes. You have five options for handling the release notes under VMS Versions 5.0 and 5.1. There are only four options under VMS Version 5.2 or higher.

For VMS Versions 5.0 and 5.1, you see the following display:

```
Release Notes Options:

 1.  Display release notes
 2.  Print release notes
 3.  Both 1 and 2
 4.  Copy release notes to SYS$HELP
 5.  Do not display, print or copy release notes

* Select option [2]:
```

For VMS Version 5.2 or higher, you see the following display:

```
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]:
```

If you select option 1, 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, VMSINSTAL prompts you for the name of the print queue:

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

You can press the Return key to send the file to the default output print device or you can enter another queue name.

If you select option 3, VMSINSTAL displays the release notes immediately on the console terminal and then prompts you for a queue name for the printed version.

Option 4 under VMS Versions 5.0 and 5.1 causes the installation to copy the release notes to the system help directory. Under VMS V5.2 or higher, release notes are always copied to the system help directory.

Select option 4 (VMS Version 5.2 or higher) or option 5 (VMS Version 5.0 or 5.1) if you reviewed the release notes and are restarting the installation.

Note that hardcopy release notes are included as Appendix C in this document.

Next, VMSINSTAL displays the following question:

```
* Do you want to continue the installation [N]?:  YES
%VMSINSTAL-I-RELMOVED, The product's release notes have been
                                  successfully moved to SYS$HELP.
```

To continue the installation, enter YES. Otherwise, press the Return key. In either case, the release notes are copied to a file in the SYS$HELP directory:

```
SYS$HELP:ESS010.RELEASE_NOTES
```

After the installation, you can enter the following command to review the release notes.

```
$ TYPE SYS$HELP:ESS010.RELEASE_NOTES
```

Note

The name of the release notes file installed by VMSINSTAL consists of the current product name and version number. Do not delete release notes for previous versions of DEC InfoServer Client Software for VMS.

7. **Purge files.**

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

   You have the option to purge files from previous versions of DEC InfoServer Client Software for VMS that are superseded by this installation. Purging is recommended; however, if you need to keep files from the previous version, enter NO in response to the question.

8. **Choose the Installation Verification Procedure (IVP) option.**

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

   The installation procedure now asks if you want to run the IVP. The IVP for DEC InfoServer Client Software for VMS checks to be sure that the installation is successful. It is recommended that you run the IVP.

   After DEC InfoServer Client Software for VMS is installed, you can run the IVP independently to verify that the software is available on your system. You might need to run the IVP after a system failure to make sure that users can access DEC InfoServer Client Software for VMS.

9. **Read informational messages.**

   At this point, the installation procedure displays a number of informational messages that report on the progress of the installation. There are no further questions. 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. The following messages are displayed:

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

10. **Observe the Installation Verification Procedure (IVP).**

    If you chose to run the IVP, VMSINSTAL runs it now. When the IVP runs successfully, you see the following display:

    ```
    Starting IVP for DEC InfoServer Client Software for VMS V1.0.

    %LASTCP-I-ADAPINIT, Initializing adapter ESA2: for LASTDRIVER
    %LASTCP-I-STARTED, LASTDRIVER X1.5 started on node NODE1
    %LASTCP-I-VERSION, LASTDRIVER X1.5 is running

    The DEC InfoServer Client Software for VMS V1.0 IVP has completed
    successfully.

    IVP for DEC InfoServer Client Software for VMS V1.0 completed.
    ```

11. **End the installation procedure.**

```
Installation of ESS V1.0 completed at 15:14

VMSINSTAL procedure done at 15:16
```

The previous messages indicate that the entire installation procedure is complete.

You can now log out of the privileged account:

```
$ LOGOUT
SYSTEM     logged out at 1-Nov-1990 15:20:03.78
```

Note that 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, you should log out and log in again.

2.2 Error Recovery

If errors occur during the installation itself or when the Installation Verification Procedure (IVP) is running, VMSINSTAL displays failure messages. If the installation fails, you see the following message:

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

If the IVP fails, you see these messages:

```
The DEC InfoServer Client Software for VMS V1.0 IVP has failed.
Check the console and SYS$MANAGER:ESS$STARTUP.LOG for diagnostic messages.
The most common problem is that the SYSGEN parameter SCSNODE is blank.
```

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

- 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.
- The VMS help library is currently in use.
- The product license has not been registered and loaded.

For descriptions of the error messages generated by these conditions, see the VMS documentation on system messages, recovery procedures, and VMS software installation. If you are notified that any of these conditions exist, you should take the appropriate action as described in the message. For information on installation requirements, see Chapter 1.

3

After Installing DEC InfoServer Client Software for VMS

The following tasks take place after installing DEC InfoServer Client Software for VMS:

- Running the Installation Verification Procedure separately.
- Editing the system startup and shutdown files.
- Making the product usable on a VAXcluster.
- Setting user account quotas.
- Reporting problems.

3.1 Running the Installation Verification Procedure Separately

You usually run the Installation Verification Procedure (IVP) during installation. If you want to run the IVP separately to ensure the integrity of installed files should system problems occur, execute the following command procedure:

```
$ @SYS$TEST:ESS010_IVP
```

3.2 Editing the System Files

You must edit the system startup files to provide for automatic startup and shutdown of DEC InfoServer Client Software for VMS when your system is rebooted.

Add the command line that starts DEC InfoServer Client Software for VMS to the system startup file, SYS$MANAGER:SYSTARTUP_V5.COM. You must position this new command line *after* the line that invokes the DECnet network startup command procedure. The following example shows the network startup

command line followed by the DEC InfoServer Client Software for VMS startup command line:

```
$ @SYS$MANAGER:STARTNET
      .
      .
      .
$ @SYS$STARTUP:ESS$STARTUP CLIENT
```

3.2.1 Startup Restrictions: PCSA and RSM

If PCSA or RSM or both are installed, the DEC InfoServer Client Software for VMS startup must be run before the startup for PCSA or RSM or both.

```
$ @SYS$MANAGER:STARTNET
      .
      .
      .
$ @SYS$STARTUP:ESS$STARTUP CLIENT
$ @SYS$STARTUP:RSM$SERVER_STARTUP
$ @SYS$STARTUP:PCFS_STARTUP
```

The DEC InfoServer Client Software for VMS provides device drivers and control programs that are shared by both the PCSA and RSM products. All of the components of the DEC InfoServer Client Software for VMS are prefixed with ESS$. The drivers and control programs provided in the DEC InfoServer Client Software for VMS provide all necessary support for both PCSA and RSM in addition to InfoServer Client support. It is necessary that the DEC InfoServer Client Software for VMS startup be executed in the site-specific startup before either the PCSA or RSM startup procedures. If the DEC InfoServer Client Software for VMS is started after either the PCSA or RSM startup procedure is run, the startup will fail with an informational message indicating the file or files in conflict.

```
$ @SYS$STARTUP:ESS$STARTUP CLIENT

 Device LAST using driver LASTDRIVER.


 Device LAD using driver LADDRIVER.

%SYSTEM-E-UNSUPPORTED, unsupported operation or function
```

A message indicating that the client was not started will also be sent to the console.

```
Reply received on NODE1 from user SYSTEM at NODE1$OPA0:   15:08:23

%ESS-I-OLDVER VMS InfoServer client not started.

Reply received on NODE1 from user SYSTEM at NODE1$OPA0:   15:08:23
%ESS-I-OLDVER Check SYS$SYSROOT:[SYSMGR]ESS$STARTUP.LOG;1 for errors.
```

3.2.2 Startup Restrictions: SYSMAN

The startup for DEC InfoServer Client Software for VMS from a subprocess will fail. Because the VMS System Management Utility (SYSMAN) uses subprocesses to complete its tasks on remote nodes, SYSMAN cannot be used to execute the SYS$STARTUP:ESS$STARTUP procedure.

3.3 VAXcluster Considerations

DEC InfoServer Client Software for VMS supplies a new version of SYS$SHARE:MOUNTSHR.EXE that is an installed image. Before the DEC InfoServer Client Software for VMS is started, this image will need to be replaced on all nodes in the cluster. A command file that uses SYSMAN to perform this operation on all nodes in a cluster has been provided with the kit and placed in SYS$UPDATE. The procedure needs to be executed from an account with at least CMKRNL privilege. To execute the procedure, enter the following command:

```
$ @SYS$UPDATE:ESS$CLUSTER_INSTALL_MOUNT
```

3.4 User Account Requirements

To work with DEC InfoServer Client Software for VMS, user accounts on your system must have certain privileges and quotas. The next two sections contain information on these requirements.

3.4.1 Privileges

To use DEC InfoServer Client Software for VMS, a user needs GRPNAM privilege if the /GROUP qualifier of the LAD Control Program (LADCP) BIND command is used and SYSNAM privilege is required if the /SYSTEM qualifier of the LADCP BIND command is used.

3.4.2 User Account Quotas

To use DEC InfoServer Client Software for VMS, the UAF account quotas that are in the DEFAULT UAF record are the minimum values.

See Section 1.4.2 for a description of how to verify and change account quotas.

3.5 Determining and Reporting Problems

If you encounter a problem while using DEC InfoServer Client Software for VMS, report it to Digital. Depending on the nature of the problem and the type of support you have, you can take one of the following actions:

- Call Digital if your software contract or warranty agreement entitles you to telephone support.
- Submit a Software Performance Report (SPR).
- Fill out and submit a Reader's Comments form if the problem has to do with the DEC InfoServer Client Software for VMS documentation. There are Reader's Comments forms at the back of each manual. Use the form from the manual in which you found the error. Include the section and page number.

Review the Software Product Description (SPD) and Warranty Addendum for an explanation of warranty. If you encounter a problem during the warranty period, report the problem as indicated above or follow alternate instructions provided by Digital for reporting SPD nonconformance problems.

A

Sample Installation: Run-Time Kit

This appendix contains a sample installation of DEC InfoServer Client Software for VMS. This sample was run on a system that had no previous version of DEC InfoServer Client Software for VMS installed. Depending on which layered products you have on your system, you might see additional messages and questions when you perform your installation.

The sample installation assumes that your DECnet network is up, that no users are logged on to your system, and that OPTIONS N is specified to print the release notes.

```
 Welcome to VAX/VMS V5.2

Username:  SYSTEM
Password:
 Welcome to VAX/VMS version V5.2 on node NODE1
    Last interactive login on Tuesday, 4-DEC-1990 10:08
    Last non-interactive login on Tuesday, 21-NOV-1990 10:38

$  @SYS$UPDATE:VMSINSTAL ESS010 MUA0: OPTIONS N

 VAX/VMS Software Product Installation Procedure V5.2


It is 4-DEC-1990 at 10:10.

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

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

The following products will be processed:

  ESS V1.0

 Beginning installation of ESS V1.0 at 10:11

Please mount the first volume of the set on MTA0:.
* Are you ready?  YES
%MOUNT-I-MOUNTED, ESS mounted on _MUA0:
%VMSINSTAL-I-RESTORE, Restoring product saveset A ...
```

Sample Installation: Run-Time Kit

```
    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]:  Return
* Queue name [SYS$PRINT]:  Return
Job ESS010 (queue SYS$PRINT, entry 1) pending
* Do you want to continue the installation [NO]?  YES
%VMSINSTAL-I-RELMOVED , The product's release notes have been successfully
                                                    moved to SYS$HELP.
* Do you want to run the IVP after the installation [YES]?  YES
* Do you want to purge files replaced by this installation [YES]?  YES
%ESS-I-CONTINUE, No more questions will be asked.
%ESS-I-MOVFIL, Providing IVP SYS$TEST:ESS010_IVP.COM
%VMSINSTAL-I-SYSDIR, This product creates system directory [SYSTEST.ESS010].
%ESS-I-MOVFIL, Providing startup and configuration files.
%ESS-I-MOVFIL, Providing help files.
%ESS-I-LINK, Linking drivers and control programs.
%ESS-I-MOVFIL, Providing control programs.
%ESS-I-MOVFIL, Providing drivers.
%VMSINSTAL-I-RESTORE, Restoring product saveset D ...
%ESS-I-MOVFIL, Providing MOUNTSHR image.

    After this  installation  completes, be sure to edit SYSTARTUP_V5.COM to
    invoke

    $@SYS$STARTUP:ESS$STARTUP.COM

    to start  the  protocols.   If this is executed before DECnet is started
    with  STARTNET.COM, then the SYSGEN parameter SCSSYSTEMID must be set up
    correctly to allow DECnet to start normally.  If this parameter is zero,
    then  execute ESS$STARTUP after STARTNET.  If you do not start DECnet be
    sure  that  the  SYSGEN  parameter  SCSNODE  is  non-blank  or  the LAST
    transport will not be able to start.

    You may  also  want  to  execute  ESS$STARTUP  when the kit installation
    completes to be able to access the network CD-ROMs without rebooting.

    Another command procedure template is provided:

    SYS$MANAGER:ESS$MOUNT.TEMPLATE

    This file  contains  sample  commands  neccessary  to  make  the CD-ROMs
    available  as  local  disks.   Use this as a guide to create the command
    file:
```

```
    SYS$MANAGER:ESS$MOUNT.COM

    You may  then  execute  the  procedure at the end of the installation to
    make  use of the network CD-ROMs.  After this installation completes, be
    sure to edit SYSTARTUP_V5.COM to invoke

    $@SYS$MANAGER:ESS$MOUNT.COM


    If this  system  has  RSM or PCSA or both installed, be sure to read the
    Install Guide that came with this product for IMPORTANT startup ordering
    information.   If you install either PCSA or RSM after this kit has been
    installed,  it may be necessary to re-install this kit.  See the Install
    Guide for this product for specific information.

    A new version of MOUNTSHR.EXE has been provided and installed as part of
    this  installation.   If  you  are installing this kit on a cluster, you
    will need to install the new MOUNTSHR.EXE on each member of the cluster.
    A  command procedure, ESS$CLUSTER_INSTALL_MOUNT.COM has been provided in
    SYS$UPDATE  to  accomplish  this.   If  you are installing this kit on a
    cluster, please execute the command:

    $ @SYS$UPDATE:ESS$CLUSTER_INSTALL_MOUNT.COM

    when the  installation  completes.   This  procedure  uses SYSMAN to re-
    install MOUNTSHR on every node in the cluster; you need only execute the
    procedure on your local node.

    Continuing installation...

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

Starting IVP for DEC InfoServer Client Software for VMS V1.0 .

%LAST-I-RUNNING,  is already running
%LASTCP-I-VERSION, LASTDRIVER X1.5 is running

The DEC InfoServer Client Software for VMS V1.0 IVP has completed successfully.


IVP for DEC InfoServer Client Software for VMS V1.0 completed.

 Installation of ESS V1.0 completed at 11:41

Enter the products to be processed from the next distribution volume set.
* Products:  Return
 VMSINSTAL procedure done at 10:42


$  LOGOUT
  SYSTEM       logged out at 4-DEC-1990 11:44:18.01
```

B

Files and Logical Names Installed on Your System

The DEC InfoServer Client Software for VMS installation procedure installs a number of files on your system and defines some logical names. Section B.1 lists the files installed. Section B.2 lists the logical names that are added to the system logical name table.

B.1 File Names

The following list contains the names of all files created on your system when DEC InfoServer Client Software for VMS is installed.

- SYS$HELP:ESS$LADCP.HLB
- SYS$HELP:ESS$LASTCPHELP.HLB
- SYS$HELP:[EXAMPLES]ESS$RSM$SERVER_STARTUP.COM
- SYS$HELP:ESS010.RELEASE_NOTES
- SYS$LIBRARY:MOUNTSHR.EXE
- SYS$LOADABLE_IMAGES:ESS$LADDRIVER.EXE
- SYS$LOADABLE_IMAGES:ESS$DADDRIVER.EXE
- SYS$LOADABLE_IMAGES:ESS$LADCDRIVER.EXE
- SYS$LOADABLE_IMAGES:ESS$LASTDRIVER.EXE
- SYS$MANAGER:ESS$MOUNT.TEMPLATE
- SYS$STARTUP:ESS$STARTUP.COM
- SYS$STARTUP:ESS$LAD_STARTUP.COM
- SYS$STARTUP:ESS$LAD_STARTUP.DAT
- SYS$STARTUP:ESS$LAST_STARTUP.COM
- SYS$STARTUP:ESS$LAST_STARTUP.DAT

- SYS$SYSTEM:ESS$TESTDEV.EXE
- SYS$SYSTEM:ESS$LASTCP.EXE
- SYS$SYSTEM:ESS$LADCP.EXE
- SYS$TEST:ESS010.DIR
- SYS$TEST:ESS010_IVP.COM
- SYS$UPDATE:ESS$CLUSTER_INSTALL_MOUNT.COM

B.2 Logical Names

DEC InfoServer Client Software for VMS creates logical names in the appropriate table whenever the LADCP bind command is executed. In order to place logical names in any table other than the process table, the appropriate privileges are required. See Section 3.4.1 for the specific requirements.

Creating a logical in the process table:

```
$  RUN SYS$SYSTEM:ESS$LADCP
LADCP> BIND CDDOC05SEP01
%LADCP-I-BIND, service bound to logical unit DAD$CDDOC05SEP01 (_DAD20:)
LADCP> EXIT
$  SHOW LOGICAL/FULL DAD$CDDOC05SEP01
   "DAD$CDDOC05SEP01" [super] = "_DAD20:" [concealed] (LNM$PROCESS_TABLE)
```

Creating a logical in the group table:

```
$  RUN SYS$SYSTEM:ESS$LADCP
LADCP> BIND/GROUP CDDOC05SEP01
%LADCP-I-BIND, service bound to logical unit DAD$CDDOC05SEP01 (_DAD21:)
LADCP> EXIT
$  SHOW LOGICAL/FULL DAD$CDDOC05SEP01
   "DAD$CDDOC05SEP01" [super] = "_DAD21:" [concealed] (LNM$GROUP_000104)
```

Creating a logical in the system table:

```
$  RUN SYS$SYSTEM:ESS$LADCP
LADCP> BIND/SYSTEM CDDOC05SEP01
%LADCP-I-BIND, service bound to logical unit DAD$CDDOC05SEP01 (_DAD22:)
LADCP> EXIT
$  SHOW LOGICAL/FULL DAD$CDDOC05SEP01
   "DAD$CDDOC05SEP01" [exec] = "_DAD22:" [concealed] (LNM$SYSTEM_TABLE)
```

C
Release Notes

The DEC InfoServer Client Software for VMS provides a VAX system running VMS Version 5.0 to Version 5.3–2 software the capability to access the virtual disk services of an InfoServer 100.

C.1 Overview of the InfoServer 100

The InfoServer 100 is an Ethernet-based, high performance virtual disk server. Physical disk media and sets of logical disk blocks can be served to the network by the InfoServer. Host systems running the appropriate client software can connect to virtual disks served by the InfoServer 100, and utilize them as though they were locally attached devices.

The InfoServer 100 is a virtual disk server. Unlike a file server, the InfoServer does not impose a file system on the virtual disks that it serves. This means that the InfoServer can serve a disk with any type of on-disk file structure. The client system interprets the on-disk structure itself, allowing any client system to access the served disk using a native file system. Multiple on-disk structures can be served on a single InfoServer 100 simultaneously.

One of the primary functions of the InfoServer 100 is to make CD-ROMs available to clients on the network. The InfoServer will automatically serve CD-ROMs under their volume labels when the server is booted, or when CD-ROMs are inserted into their drives. No management action needs to be taken on the InfoServer. Client systems simply bind to and mount the CD-ROMs under their volume labels. The InfoServer is capable of automatically serving CD-ROMs that are ODS-2, ISO-9660, or High Sierra format. Other media types can be served manually through the InfoServer management interface.

The InfoServer 100 can also serve read/write disk partitions. A partition is a logical subset of a read/write disk. A single disk can be subdivided into several partitions, each of which can be served to the network independently. These partitions appear to be whole disks to the remote client systems. For example, an MS-DOS personal computer utilizing the PCSA product can access InfoServer partitions, and use them as though they were a local hard disk.

C.2 VMS Upgrade Considerations

The DEC InfoServer Client Software for VMS will install on all released versions of VMS from Version 5.0 to Version 5.3–2. The kit will have to be re-installed if a system is upgraded within the range of supported versions. With VMS V5.4 and all subsequent versions, the InfoServer Client Software is an integral part of the base VMS operating system.

If you install VMS Services for PCs (PCSA) or Remote System Manager (RSM) after the DEC InfoServer Client Software for VMS has been installed, you will need to re-install the DEC InfoServer Client Software for VMS. This is necessary to ensure that the proper versions of the control programs are in place.

C.3 VAXcluster Restrictions

The virtual disks created by the DEC InfoServer Client Software for VMS cannot be mounted with the /CLUSTER qualifier in the Mount Utility. An attempt to use this qualifier will cause the mount to fail, as in the following example:

```
$  RUN SYS$SYSTEM:ESS$LADCP
LADCP>  BIND CD_BIN_00121
%LADCP-I-BIND, service bound to logical unit DAD$CD_BIN_00121 (_DAD7:)
LADCP>   EXIT
$  MOUNT/CLUSTER DAD7: CD_BIN_00121
%MOUNT-F-NOTACLU, _DAD7: (NODE1) is not a cluster-wide device
```

It is therefore necessary to execute the client startup procedure and the ESS$MOUNT procedure on all VAXcluster nodes that will require access to InfoServer disks.

C.4 Upgrading to VMS V5.4 from an InfoServer

The DEC InfoServer Client Software for VMS will enable the system disk on which it is installed to be upgraded to VMS V5.4 from the VMS V5.4 CD-ROM served by an InfoServer. Once a system is upgraded to V5.4, it is no longer necessary to install the DEC InfoServer Client Software for VMS because the InfoServer Client is an integral part of VMS V5.4.

To perform the upgrade, the target system must have the DEC InfoServer Client Software for VMS installed and meet the disk space requirements as detailed in the VMS V5.4 installation guide. The VMS V5.4 CD-ROM must be served from an available InfoServer. You must also ensure that the SYSGEN parameter SCSNODE is non-blank on the system to be upgraded.

Once the system has been properly prepared, follow the V5.4 guidelines to the step where the device containing the distribution medium is to be configured. The DEC InfoServer Client Software for VMS requires that the Ethernet device be configured:

```
$  RUN SYS$SYSTEM:SYSGEN
SYSGEN>  AUTOCONFIGURE ALL
SYSGEN>  EXIT
```

You must now load the DEC InfoServer Client Software for VMS by invoking the DEC InfoServer Client Software for VMS startup procedure:

```
$  @SYS$STARTUP:ESS$STARTUP CLIENT
%LASTCP-I-VERSION, LASTDRIVER X1.5 is stopped
%LASTCP-I-ADAPINIT, Initializing adapter ESA1: for LASTDRIVER
%LASTCP-I-STARTED, LASTDRIVER X1.5 started on node NODE1
```

To verify that the VMS V5.4 CD-ROM is being served, you can perform the following command:

```
$  RUN SYS$SYSTEM:ESS$LADCP
LADCP>  SHOW SERVICE
Interrogating network, please wait...

Services offered by node ESS_TST (LAD V3.0, Address: 08-00-2B-15-05-89)
                                                          Current   Writes
Service:                                Device:    Rating: Connects: Allowed?:
VMS054                                   RRD40      65007       2     No
```

If the service VMS054 is available, you can bind to the service and mount the virtual device:

```
$  RUN SYS$SYSTEM:ESS$LADCP
LADCP>  BIND VMS054
%LADCP-I-BIND, service bound to logical unit DAD$VMS054 (_DAD1:)
LADCP>   EXIT
$   MOUNT DAD1: VMS054
%MOUNT-I-WRITELOCK, volume is write locked
%MOUNT-I-MOUNTED, VMS054       mounted on _DAD1:
```

You may now proceed with the installation, specifying the [000000] directory of the DAD device that was just mounted as the distribution volume location:

C.4 Upgrading to VMS V5.4 from an InfoServer

```
$ @SYS$UPDATE:VMSINSTAL

        VAX/VMS Software Product Installation Procedure V5.3


It is 15-OCT-1990 at 08:04.

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

* Are you satisfied with the backup of your system disk [YES]? YES
* Where will the distribution volumes be mounted:  DAD1:[000000]

Enter the products to be processed from the first distribution volume set.
* Products:  VMS054
```

The upgrade to VMS V5.4 will continue for your processor as detailed in the V5.4 installation guide.