

HP TP Desktop Connector for ACMS

Installation Guide

January 2006

This document provides information about installing the *HP TP Desktop Connector* software on desktop systems, and about installing the HP TP Desktop Connector Gateway for ACMS software on systems running the OpenVMS operating system and HP ACMS software. It also describes activities associated with these installations, such as the verification procedure.

Revision/Update Information:	This is a revised manual.
Operating System:	OpenVMS Alpha Version 8.2 OpenVMS I64 Version 8.2-1
Software Version:	<i>HP TP Desktop Connector for ACMS</i> , Version 5.0

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Preface

This guide presents information about installing the *HP TP Desktop Connector* software on desktop platforms, and the TP Desktop Connector Gateway for ACMS software on OpenVMS platforms.

Intended Audience

This document is intended for:

- System managers responsible for HP ACMS transaction processing installations.
- Programmers developing client applications with *HP TP Desktop Connector* software.

To perform the installation and deinstallation procedures described in this guide, you must have administrator (for Windows platforms), SYSTEM (for OpenVMS platforms), or superuser (for Tru64 UNIX platforms) privileges, and you should be familiar with your operating system's installation procedure.

Related Software

HP TP Desktop Connector is part of a transaction processing software suite that also contains the following product variants:

- *HP TP Web Connector*

Complete information about the relationships of other software products with TP Desktop Connector software is available in the *Software Product Description* (SPD). The SPD also identifies which versions of your operating system are compatible with TP Desktop Connector software.

You can find it on the HP Web site at <http://h71000.www7.hp.com> by searching for TP Desktop Connector in Software Product Descriptions.

Related Documents

The following manuals contain information about building client applications with TP Desktop Connector products:

- ***HP TP Desktop Connector Getting Started***
- ***HP TP Web Connector Getting Started***

The following documents contain information on the TP Desktop Connector Client Services Interface:

- ***HP TP Desktop Connector for ACMS Client Application Programming Guide***
- ***HP TP Desktop Connector for ACMS Client Services Reference Manual***
- ***HP TP Desktop Connector for ACMS Gateway Management Guide***

Other manuals contain information about installing and managing your ACMS system and TP Desktop Connector Gateway for ACMS software:

- ***HP ACMS for OpenVMS Installation***
Describes the installation of ACMS software on OpenVMS systems.
- ***HP ACMS for OpenVMS Managing Applications***
Explains how to start and stop the ACMS system, monitor system performance, and perform some tuning operations. It also tells how to install applications and how to authorize users, devices, and applications.

Finally, the ***HP TP Desktop Connector Release Notes*** contain information about new features and current restrictions for TP Desktop Connector software. In your Web browser, open the `dskcon_release_notes.htm` file in the TPware Product Installation Package, the *Release Notes* are contained in the installation procedures. HP recommends that you read the *Release Notes* before you install the software.

Structure

This manual contains multiple parts, as shown in the following table:

Component	Description
Part I: Using the TPware Product Installation Package	
Chapter 1	Explains how to prepare your OpenVMS system for installing TP Desktop Connector software from the TPware Product Installation Package.
Chapter 2	Explains how to install TP Desktop Connector and gateway software from the TPware Product Installation Package.
Chapter 3	Describes tasks that might be needed on your OpenVMS system after installing TP Desktop Connector software from the TPware Product Installation Package. It also provides references to information on post-installation tasks for TP Desktop Connector client software on other platforms.
Part II: Installing the TP Desktop Connector Client Software	
Chapter 4	Describes the Client Saveset on which TP Desktop Connector software is distributed and which portions apply to installing TP Desktop Connector software and related components.
Chapter 5	Explains how to prepare your system for installing TP Desktop Connector software from the Client Saveset.
Chapter 6	Describes how to install the TP Desktop Connector software on a Windows operating system.
Chapter 7	Describes how to install the TP Desktop Connector Client Services Interface software and sample client applications on the following desktop platforms: OpenVMS Tru64 UNIX

Component	Description
Part III: Installing the Gateway Software	
Chapter 8	Explains how to prepare your OpenVMS system for installing TP Desktop Connector gateway for ACMS software.
Chapter 9	Describes how to install the TP Desktop Connector gateway for ACMS software and sample server-side applications and run the Installation Verification Procedure (IVP). It also tells you how to recover from system and installation failures.
Chapter 10	Describes postinstallation procedures that prepare the OpenVMS system for running gateway software.
Chapter 11	Describes how to run the installation verification procedure (IVP) separately from the installation procedure.
Part IV: Appendixes	
Appendix A	Lists the files that are installed on your system for the various sample programs.
Appendix B	Contains helpful hints about errors that might occur when you run one of the sample applications.

Conventions

This manual uses the following conventions:

Convention	Description
TP Desktop Connector Gateway	Represents the <i>HP TP Desktop Connector</i> product software.
UPPERCASE	Represents the HP TP Desktop Connector Gateway for ACMS software.
FTP	In text, the names of OpenVMS directories, commands, logicals, and so on, are set in all capital letters.
<i>italics</i>	Represents the file transfer program of your choice, not necessarily File Transfer Protocol. You can substitute any method that works on your installation and target platforms.
<code>courier</code>	In text, italics indicate emphasis, a product name, or the title of a book.
user input	This font indicates a command, programming language, or an object on your screen.
	In examples, letters that you actually type are highlighted in boldface type.

Convention	Description
<i>node</i>	In syntax format and examples, italic type indicates variables, parameters, or arguments. You need to substitute the appropriate value.
C:\TPware\	This is the default destination for the TPware Product Suite installation program. Most examples in this book use the default. If you choose a different folder during the installation, substitute that drive and folder name.
.	In examples, a vertical ellipsis indicates that information not directly related to the example has been omitted.
Microsoft Windows	When used alone, Windows indicates any supported member of the family of Microsoft Windows operating systems. Where necessary, specific Windows operating systems are mentioned. For a list of Microsoft Windows operating systems supported by TPware products, see the product's <i>Software Product Description</i> (SPD).

Part I

Using the TPware Product Installation Package

Part I describes how to install *HP TP Desktop Connector* and HP TP Desktop Connector Gateway for ACMS software from the TPware Product Installation Package. Part I presents the following major topics:

- Before Installing TP Desktop Connector from the TPware Product Installation Package
- Installing TP Desktop Connector from the TPware Product Installation Package
- After Installing from the TPware Product Installation Package

For client installations using the Client Saveset, see Part II. For TP Desktop Connector Gateway for ACMS software installation using the Gateway Saveset, see Part III.

Before Installing TP Desktop Connector from the TPware Product Installation Package

This chapter discusses the preparations and requirements necessary for installing *HP TP Desktop Connector* and TP Desktop Connector Gateway for ACMS software on an OpenVMS system from the TPware Product Installation Package and also provides a general overview of the installation process.

TP Desktop Connector software includes online *Release Notes* and gives you the option of printing or displaying them during the installation procedure. HP strongly recommends that you read the *Release Notes* before proceeding with the installation, in case they contain important information regarding the installation procedure.

1.1 Overview of the TPware Product Installation Package

The *HP TP Desktop Connector* software is delivered in two distinct product savesets, one for the gateway software that runs on the OpenVMS platform and one for all types of desktop clients:

- The gateway saveset (ACMSDI050.*)
Delivers the software required on an OpenVMS system to enable access to HP ACMS from the desktop systems. Also includes server-side sample applications.
You install the gateway software with a regular VMSINSTAL command.
- The client saveset (TPW050.A)
Delivers the software required for application development in a multiplatform, networked, desktop systems environment. Also includes sample client applications.

You install the client software by starting with a VMSINSTAL command on an OpenVMS system. This places on the OpenVMS system the client software in the form of self-extracting archive files. The next steps depend on your target desktop platform.

The use of the TPware Product Installation Package and VMSINSTAL is described in Chapter 2.

The procedure for installing the client software and the accompanying sample client application files consists of the following general steps (described in Chapter 3):

1. Transfer from your OpenVMS system to your target desktop system a file or files created when you run VMSINSTAL. You use a file transfer program such as FTP.

If your target desktop is an OpenVMS system, all the files are in place in a public systemwide directory (see Section 3.2).

2. On the target desktop system, expand the file that you transferred from the OpenVMS system.
 - If your target desktop is a Windows system, expand the self-extracting archive file as explained in Section 3.2.2.1.
 - If your target desktop is a Tru64 UNIX system, expand the self-extracting archive file as explained in Section 3.2.2.2.
3. Run the sample application to verify that the installation functions properly.

The following sections discuss the requirements necessary before installing the *HP TP Desktop Connector* software.

1.2 Software and Hardware Prerequisites

The HP TP Desktop Connector *Software Product Description* (SPD), contains complete information on software products, networks, and systems required for installing and using TP Desktop Connector client and gateway software.

In addition, installing TP Desktop Connector software requires a certain amount of free storage space. Table 1–1 summarizes the storage requirements for TP Desktop Connector during and after installation.

Table 1–1 TP Desktop Connector Disk Space Requirements

	Blocks During Installation	Blocks After Installation
TP Desktop Connector Gateway for ACMS software	23,304	6,500
OpenVMS client files	34,383	3,300

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
```

In the output column under the heading Free Blocks is the number of 512-byte blocks available on the device.

1.3 Installation Procedure Requirements

Both the gateway and client installations from the TPware Product Installation Package use the VMSINSTAL command. Section 2.1 describes the gateway and server-side instructions. Section 2.2 describes the client installation process.

2

Installing TP Desktop Connector from the TPware Product Installation Package

This chapter explains how to install *HP TP Desktop Connector* and HP TP Desktop Connector gateway for ACMS from the Tpware Product Installation Package and Table 2–1 shows the contents of the TP Desktop Connector directory on the TPware Product Installation Package.

Table 2–1 TP Desktop Connector Files on the TPware Product Installation Package

Directory	Name	Description
[KITS]	ACMSDI050.*	TP Desktop Connector Gateway for ACMS savesets
	TPW050.*	TP Desktop Connector client savesets
[DOCUMENTATION]	dskcon_release_notes.htm	<i>HP TP Desktop Connector</i> Release Notes (HTML and PDF editions)
	dskcon_release_notes.pdf	
	tpware_readme.txt	Text file to read before proceeding with product installation
	webcon_release_notes.htm	<i>HP TP Web Connector</i> Release Notes (HTML and PDF editions)
	webcon_release_notes.pdf	
	install_guides	PDF Version of Tpware Product Installation guides

2.1 Installing the TP Desktop Connector Gateway for ACMS Software

To install the gateway kit on the OpenVMS system, while logged in under the SYSTEM account at the DCL prompt, type a command in the following format:

```
$@SYS$UPDATE:VMSINSTAL ACMSDI050 [directory-name]
```

The value of *directory-name* is the location of the product saveset on the OpenVMS node.

2.2 Installing the Client Kit

To install the client kit on the OpenVMS system, while logged in under the SYSTEM account at the DCL prompt, type a command in the following format:

```
$@SYS$UPDATE:VMSINSTAL TPW050 [directory-name]
```

The value of *directory-name* is the location of the product saveset on the OpenVMS node.

See Chapter 3 to continue with postinstallation tasks.

After Installing from the TPware Product Installation Package

This chapter describes the procedures, on both the OpenVMS system where the gateway kit was installed and on your target desktop system, that are required for server-side and client-side applications to run and communicate.

3.1 After Installing the Gateway Software

For TP Desktop Connector on the TPware Product Installation Package, the server-side sample application is part of the client software, not the gateway software. The client services files for OpenVMS are laid down when you use VMSINSTAL on the TPW050 savesets. See Section 3.3 for information on the server-side Avertz sample application.

3.2 After Installing TP Desktop Connector Client Software

After installing the client software from the TPware Product Installation Package, all the files needed for the OpenVMS client and its sample applications are in place. If you are developing an OpenVMS client application, you should edit a startup file as shown in Section 3.2.1.

If you are developing a client application for a non-OpenVMS desktop platform, you should follow the instructions in Sections 3.2.1 and 3.2.2.

3.2.1 Editing Startup Files

If TP Desktop Connector Gateway for ACMS is already installed on the same system, edit the gateway startup file, SYS\$STARTUP:ACMSDI\$STARTUP.COM. Remove the comment character (!) from the following logical name definitions for the client directories:

```
$! The next three logical name definitions pertain to TP Desktop Connector
$! client libraries and Motif samples and should be defined only after installing
$! clients on the same system where the Gateway is installed.
$!
$! define/system acmsdi$vms sys$common:[acmsdi.vms_clients]
$! define/system acmsdi$nonvms_clients sys$common:[acmsdi.nonvms_clients]
$! define/system acmsdi$examples_avertz_motif -
$! sys$common:[syshlp.examples.acmsdi.avertz.motif]
```

If the gateway is on a different system, add the following logical name definitions to your system startup file:

```
$ define/system acmsdi$vms sys$common:[acmsdi.vms_clients]
$ define/system acmsdi$nonvms_clients sys$common:[acmsdi.nonvms_clients]
$ define/system acmsdi$examples_avertz_motif -
  sys$common:[syshlp.examples.acmsdi.avertz.motif]
```

3.2.2 After Installing Non-VMS Clients

In addition to OpenVMS client libraries, the client installation loads the self-extracting archive files on your OpenVMS system (see Table 3–1). (The logical name ACMSDI\$NONVMS_CLIENTS is defined as described in Section 3.2.1.)

Table 3–1 Contents of ACMSDI\$NONVMS_CLIENTS

DUNIX.EXE	TP Desktop Connector client services ¹ and samples for Tru64 UNIX systems
INTEL32.EXE	Runtime and development software for the entire TPware product suite on platforms running Windows systems.

¹Formerly known as the ACMS Desktop “portable API” services.

After installing the TP Desktop Connector client software on an OpenVMS system, transfer the appropriate archive file to your desktop system and execute it (see Sections 3.2.2.1 through 3.2.2.2). After you expand the appropriate archive, the resulting files can then be used.

3.2.2.1 Transferring Client Files to a Windows System

To place the client files on a Windows system, transfer the appropriate archive file from the ACMSDI\$NONVMS_CLIENTS directory on the OpenVMS system. For example:

- 1. Use a network file transfer utility such as FTP to copy from the OpenVMS system the INTEL32.EXE file (see Table 3–1). For example:
 - a. On the client system, create a subdirectory to store the software:

```
> mkdir c:\tpw050
```


- b. Change directory to the newly created subdirectory:

```
> cd c:\tpw050
```

- c. Connect to the OpenVMS system that contains the archive file:

```
> ftp nodename
```

```
.  
. .  
login to host  
. .  
FTP>
```

The value of *nodename* is the name of the OpenVMS system on which the archive is installed. At the FTP prompts, supply the OpenVMS user name and password. If you successfully log on to the OpenVMS system, type commands at the FTP prompt to copy the archive file from the OpenVMS directory to the client system and close the FTP utility. For example:

```
FTP> binary  
FTP> cd ACMSDI$NONVMS_CLIENTS:  
FTP> get intel32.exe  
FTP> quit
```

2. On the client system, expand the archive file and delete it to recover disk space. For example:

```
> intel32  
> del intel32.exe
```

To continue TP Desktop Connector software installation and setup, see Section 6.1 on running the `setup` program and Section 6.2 on setting up an environment for Windows systems.

3.2.2.2 Transferring Client Files to a Tru64 UNIX System

To place the client files on a Tru64 UNIX system, transfer the appropriate archive file from the ACMSDI\$NONVMS_CLIENTS directory on the OpenVMS system. For example:

1. Use a network file transfer utility such as FTP to copy from the OpenVMS system the `dunix.exe` file (see Table 3–1). For example:

- a. On the client system, create a directory under your home directory:

```
> mkdir tpw050dir
```

- b. Change to the new directory.

```
> cd tpw050dir
```

- c. Connect to the OpenVMS system that contains the archive file.

```
> ftp nodename
```

```
.  
. .  
login to host  
. .  
. .  
ftp>
```

The value of *nodename* is the name of the OpenVMS system on which the archive is installed. At the FTP prompts, supply the OpenVMS user name and password. If you successfully log on, type commands at the FTP prompt to copy the archive file and close the FTP utility. For example:

```
ftp> binary  
ftp> cd ACMSDI$NONVMS_CLIENTS:  
ftp> get dunix.exe  
ftp> quit
```

2. On the client system, expand the archive file and delete it to recover disk space. For example:

```
> chmod 755 dunix.exe  
> ./dunix.exe  
> rm dunix.exe
```

The archive expands into two tar files. To continue installation and setup, see Section 7.3.

3.2.3 Installing the Client Services Interface on OpenVMS Systems

The client services library is preconfigured for DECnet network access. To build applications that use TCP/IP as a transport, you must reconfigure the library before creating executable programs.

The following steps are necessary to set up the client services library for TCP/IP access:

1. Copy the library and related files to your home directory with the following command:

```
$ copy/log ACMSDI$VMS:*. * []
```

2. Remove the DECnet object from the library with the following command:

```
$ library/delete = net_decnet acmsdi$client_objlib.olb
```

Insert the TCP/IP transport access module into the library with the following command:

```
$ library/insert acmsdi$client_objlib.olb net_tcpip.obj
```

After these steps, you are ready to build TP Desktop Connector applications that use TCP/IP as a transport. Table A-1 shows the files that are added to your desktop system during the installation of the TP Desktop Connector client services for OpenVMS.

3.2.4 Verifying the Motif Client Sample on OpenVMS

Copy, compile, link, and run the source code for the sample client program to verify your capability to build applications.

To build the sample application, follow these steps:

1. Copy the client sample files to your home directory using the following command:

```
$ copy/log ACMSDI$EXAMPLES_AVERTZ_MOTIF:*. * []
```

Table A-2 lists the files that are added to your desktop system.

2. If you have MMS, use the MMS makefile provided to build the m_avertz sample application. In the sample directory, run MMS using the following command:

```
$ MMS/DESC=M_AVERTZ
```

If you download TP Desktop Connector libraries to a different location, edit the makefile to indicate the new location of the libraries.

Note

On OpenVMS Alpha systems, the makefile expects the logical ACMSDI\$VMS_ALPHA to point to the directory that contains the TP Desktop Connector client library. In addition, on OpenVMS Alpha systems, the first time that the makefile tries to create the HP DECwindows library, the makefile fails. When this happens, rerun MMS to continue the build.

If you do not have MMS, use the makefile as a guide to build the application yourself.

3. Run the application by entering the following command:

```
> run m_avertz/nodebug
```

The `m_avertz` application displays the menu bar of the AVERTZ Car Reservation System. If you want the sample desktop client program to communicate with the ACMS application, follow the procedures in Section 7.2.4 to set up the sample application on the ACMS system. After you set up the ACMS system, use the Session menu to sign in to the ACMS system. After you sign in, you can use the Rental menu to run the reserve task of the AVERTZ application.

The installation procedure is now complete and verified.

3.3 Setting Up the Avertz ACMS Sample Application on an OpenVMS System

The command procedure `VR_DA_RUNTIME_SETUP.COM` sets up the sample application. You need `SYSPRV` privilege to run the procedure. Refer to the file `ACMSDI$VR_APPLICATION_INFO.TXT` in the `ACMSDI$EXAMPLES_AVERTZ` directory for more information on setting up the sample.

To prepare the AVERTZ sample application on the OpenVMS system, do the following:

1. Run the command procedure to set up the application:

```
$ @ACMSDI$EXAMPLES_AVERTZ:VR_DA_RUNTIME_SETUP
.
.
.
$
```

2. Start the ACMS system (if necessary) and the application:

```
$ ACMS/START SYSTEM
$ ACMS/START APPLICATION VR_DA_APPL
```

3. Perform other management tasks related to your system, for example, authorizing user accounts. Refer to the management information in ***HP TP Desktop Connector for ACMS Client Application Programming Guide***.

The following sections provide additional information about using the Avertz sample application on the ACMS OpenVMS system.

3.3.1 Using the Avertz ACMS Sample with Rdb Version 6.0 with Multiversion

When you execute the VR_DA_RUNTIME_SETUP.COM file to set up the sample application, this command file invokes two option files, VR_READ_SERVER.OPT and VR_UPDATE_SERVER.OPT, which refer to the SYS\$LIBRARY:SQL\$USER library. On a system with Rdb Version 6.0 with multiversion installed, the SYS\$LIBRARY:SQL\$USER file is not available. Instead, the version number is appended to the file name, for instance, SYS\$LIBRARY:SQL\$USER60.

To work around this naming mismatch problem, you can define the logical name SQL\$USER to reference the appropriate library file. For example:

```
$ DEFINE SQL$USER SYS$LIBRARY:SQL$USER60
```

Modify the linker options files:

```
ACMSDI$EXAMPLES_AVERTZ:VR_READ_SERVER.OPT
ACMSDI$EXAMPLES_AVERTZ:VR_UPDATE_SERVER.OPT
```

Replace the line

```
SYS$LIBRARY:SQL$USERnn.OLB/LIBRARY
```

with the following:

```
SYS$USER/LIBRARY
```

3.3.2 User Name Quotas for the Avertz ACMS Sample

The VR_DA_RUNTIME_SETUP.COM command file assigns quotas for the AVERTZ_EXC, AVERTZ_UPD, and AVERTZ_READ user names that are adequate for running the VR_DA_APPL sample application. If your system already has these user names defined, the quotas for these user names might be inadequate for VR_DA_APPL. If you are using the AVERTZ sample application, delete the AVERTZ_EXC, AVERTZ_UPD, and AVERTZ_READ user names before running VR_DA_RUNTIME_SETUP.COM to ensure that you get appropriate quotas for these user names.

To ensure the success of the operations in the VR_DA_RUNTIME_SETUP.COM command procedure, run it from the system account.

3.3.3 Access Control List for the Avertz ACMS Sample

The VR_DA_RUNTIME_SETUP.COM procedure adds the AVERTZ application name VR_DA_APPL to the ACMS database. The command line to do so includes the ACL qualifier and assigns the ID as /ID=SYSTEM. This might fail on your system.

To ensure that the VR_DA_RUNTIME_SETUP.COM procedure works, change the ID=SYSTEM to ID=[UIC], where UIC is that of the account SYSTEM; for example, ID=[1,4].

3.3.4 Rebuilding the Avertz ACMS Sample

Executables are provided for the sample. You do not need to rebuild the sample to run it. However, a DEC/MMS description file is provided for rebuilding the sample to incorporate any changes you make to the sample.

To modify and rebuild the sample, follow these steps:

1. Copy the sample sources to another directory.
2. Use the command procedure VR_DA_BLD_MMS.COM to rebuild the sample under a different ADB name in that directory:
 - a. Create the CDD directories for the AVERTZ components.
 - b. Define logical names.

If you are using a directory other than ACMSDI\$EXAMPLES_AVERTZ for rebuilding the sample, edit the logical name definitions in the VR_DA_BLD_LOGICALS.COM command procedure to point to your file and CDD directories. Make these edits before running the BLD portion of the VR_DA_BLD_MMS.COM command procedure.
 - c. Perform other setup and build activities.
3. Run the command procedure VR_DA_BLD_MMS.COM without parameters:

```
$ @ACMSDI$EXAMPLES:VR_DA_BLD_MMS
```

All the setup and build activities are performed.

To perform a specific activity, specify one of the parameters in Table 7-1.

Table 3–2 VR_DA_BLD_MMS.COM Parameters

Keyword	Activity
BLD	Run MMS to build VR_DA_APPL
CDD	Set up the CDD dictionary and directories for VR_DA_APPL
DB	Create the VEHICLE_RENTALS database

Part II

Installing the TP Desktop Connector Client Software

Part II describes *HP TP Desktop Connector* software installation on a client system and presents the following major topics:

- Overview of TPware Client Saveset
- Before Installing TP Desktop Connector Software
- Installing TP Desktop Connector Software on Windows Operating Systems
- Installing the TP Desktop Connector Client Services on Non-Windows Systems

Part II covers only the client-side software and samples, but not the server-side software and samples. See Part III for the server-side instructions.

Overview of TPware Client Saveset

This chapter describes the Client Saveset from which you install TP Desktop Connector software and related components.

4.1 TPware Client Saveset Contents

The Client Saveset contains all the software required for development and deployment of TP Desktop Connector client applications. The gateway software needed to connect to an ACMS system (see Part III) is included on a separate kit in the TPware Installation Package. Table 4–1 lists the contents of the Client Saveset.

Table 4–1 Contents of the TPware Client Saveset

Name	Contents
dunix.exe	TP Desktop Connector client services ¹ and samples for Tru64 UNIX systems
intel32.exe	Runtime and development kit for the entire TPware product suite on platforms running 32-bit Microsoft Windows operating systems
vmsalpha.exe	TP Desktop Connector client services ¹ and samples for OpenVMS Alpha systems
vmsi64.exe	TP Desktop Connector client services ¹ and samples for for OpenVMS I64 systems
TPW050.RELEASE_NOTES	<i>HP TP Desktop Connector</i> Release Notes for Client Software

¹Formerly known as the ACMS Desktop “portable API” services.

Chapter 5 describes the preparations for and requirements for installing the client software.

Chapters 6 through 7 contain complete descriptions of the installation procedures for TP Desktop Connector client software, according to the platform on which your client program runs. Part III contains the description of the installation procedure for the TP Desktop Connector Gateway for ACMS software.

5

Before Installing TP Desktop Connector Software

This chapter describes the preparations and requirements necessary for installing *HP TP Desktop Connector* software and also contains information on removing TP Desktop Connector software from Windows platforms. Be sure to verify the contents of your kit with this information. If your kit is damaged or incomplete, contact your HP representative.

5.1 Installation Overview

The Client Saveset contains all the software required for development or deployment of TP Desktop Connector client applications. The gateway software needed to connect to an ACMS system is included on a separate Saveset. The gateway software installation is described in Part III. Chapter 4 describes the contents of the Client Saveset.

For a list of the client platforms supported by the TP Desktop Connector product, see the *TP Desktop Connector Software Product Description*.

If you are developing TP Desktop Connector client applications for a non-Windows system, you must install the client services files yourself (proceed to Chapter 7).

5.2 Preparing to Install TP Desktop Connector Software

Ensure that your system meets the software requirements. Minimum software requirements needed to install the TP Desktop Connector software and build client applications that run with ACMS systems are shown in the *Software Product Description* (SPD).

5.2.1 Disk Space

Installing TP Desktop Connector software requires a certain amount of free storage space, which depends on the platform you use.

5.2.1.1 Windows Platforms

Installation on Windows platforms requires 6,063 Kilobytes (KB) of free storage space.

Note

This is the minimum disk space requirement. This estimate, though conservative, is not always an accurate indicator of the disk space used on a particular machine. System disk configuration, including the size of the disk sector and the number of sectors per cluster, cannot be determined by the installation program. Therefore, some systems require more space.

5.2.1.2 Non-Windows Platforms

Table 5–1 shows the disk space required for TP Desktop Connector client services software on each of the non-Windows systems.

Table 5–1 TP Desktop Connector Client Services Disk Space Requirements on Non-Windows Systems

OpenVMS Alpha Client	Number of Blocks
Client services library and network software	709
Common headers	31
Motif sample files	489
OpenVMS I64 Client	Number of Blocks
Client services library and network software	1135
Common headers	70
Samples	10

(continued on next page)

Table 5–1 (Cont.) TP Desktop Connector Client Services Disk Space Requirements on Non-Windows Systems

Tru64 UNIX Client	Number of Bytes
Client services library and TCP/IP module	261,748
Motif sample files	291,826
Common headers	30,206

5.3 Removing the Installed Software

You might decide to remove the installed TPware software to upgrade to a new TPware software version, or for other reasons. Note that when you remove the software, you lose the settings defined in the TPware Management Utility. Before removing the software, refer to the *Release Notes* for instructions on saving your management settings.

You can remove the installed TP Desktop Connector software from your system using either the shortcut provided in the TPware products program group, or the system Add/Remove Programs utility.

Note

The uninstall procedure removes all currently installed TPware products.

- To remove the software using the shortcut provided in the TPware program group:
 1. Click the Start button.
 2. Choose the Programs menu.
 3. Choose the TPware Products program group.

If you chose a different program group while installing *HP TP Desktop Connector*, that group name is displayed on the Programs menu in place of TPware Products.
 4. Choose the Uninstall TPware item.

- To remove the software using the system Add/Remove Programs utility:
 1. Double click the Add/Remove Programs icon in the Control Panel window.
 2. Choose the HP TPware item.
 3. Click the Add/Remove... button.

6

Installing TP Desktop Connector Software on Windows Operating Systems

This chapter describes the procedures for installing or reinstalling the *HP TP Desktop Connector* software on a Windows system and also contains information on postinstallation tasks on Windows systems.

For information on installing TP Desktop Connector software on non-Windows platforms, see Chapter 7.

For information on installing TP Desktop Connector Gateway for ACMS software, see Part III of this guide (Chapters 8 through 11).

6.1 Installation Procedure on Windows Operating Systems

To install TP Desktop Connector software, run the setup program.

If you install from the TPware Product Installation Package, run the setup program from the directory in which you expanded the archive file that you copied from the OpenVMS system (see Section 3.2.2.1).

The setup program displays a splash screen and a progress indicator while it initializes its wizard. When setup starts, you see a series of dialog boxes. The following table lists the operations associated with the command buttons in the dialog boxes.

To do this...	Click this button:
Complete the choices in a dialog box and continue	Next
Return to a previous dialog box	Back
Exit without completing the installation	Cancel

Follow the instructions in the dialog boxes to select installation of *HP TP Desktop Connector*.

The setup program checks whether there is sufficient disk storage, copies appropriate files, and performs registry operations.

If setup finds that a requisite software product is not installed or that the minimum version of a requisite product is not on the system, it displays a Warning box showing the product name and version. The installation might continue after the warning or it might fail, depending on the prerequisite. If the installation continues, you must install the prerequisite software before you can actually use TP Desktop Connector software.

After you successfully install TP Desktop Connector software, follow the instructions in Section 6.2 to set up the TPware environment.

6.2 After Installing TP Desktop Connector Software

This section describes some procedures you might want to perform after you copy files from the OpenVMS system (see Section 3.2.2.1) or after the setup program finishes (see Section 6.1).

6.2.1 Setting Up the TPware Environment

Before developing TPware client applications, you must set up the environment variables that TPware software requires. To do this, run the command file installed by the setup program:

```
C:\TPware\stdl\bin\stdl_set_version.bat
```

Note

All examples show the default location. If you chose a different destination while running setup, substitute your own drive and folder for C:\TPware.

6.2.2 Accessing the ACMS System

For access to a HP ACMS transaction processing system, the TP Desktop Connector Gateway for ACMS must be installed on the OpenVMS system. The gateway software is distributed on a separate kit; instructions for installing it are in Part III.

6.2.3 Defining the Network Transport for the Client Services Interface

TP Desktop Connector software supports the TCP/IP network transport for Windows clients. The product files include the client application's TCP/IP dynamic link library (DLL). This file is installed, by default, in:

```
C:\TPware\stdl_rt\bin\acmsdiWS.dll
```

To set up the TP Desktop Connector software for the TCP/IP transport, copy the TCP/IP DLL from the installation folder to your working directory, and rename it `acmsdi.dll`. The `acmsdiWS.dll` provides TCP/IP support through the Windows WINsock facility.

6.2.4 Verifying the TP Desktop Connector Installation

To verify that your TP Desktop Connector software is installed correctly, you can run one of the sample applications provided.

If you are developing an application that uses the Adapter Interface (refer to *HP TP Desktop Connector Getting Started*), both the sample applications and the instructions for running them are online. To read the instructions, choose the ACMS Samples item from the TP Desktop Connector for ACMS menu in the TPware Products program group.

If you are developing a TP Desktop Connector client application that uses the Client Services Interface on a Windows system, the client services files are installed on your desktop by the setup program with the rest of the development tools. The instructions for setting up the client services and running the sample programs are in Sections 6.2.5).

6.2.5 Running the Windows Sample Client Application

HP TP Desktop Connector client services includes the same Visual Basic AVERTZ sample that was provided for ACMS Desktop V2.0; it is a blocking, no exchange I/O client. Table A-3 describes the contents of the Visual Basic sample folder `TPware\STD\Samples\acmsdi\VB`.

The following files provide memory copy procedures and can be used to help with interfacing Visual Basic Windows programs with the TP Desktop Connector client services:

```
C:\TPware\STD\lib\ divb.lib
C:\TPware\STD_RT \bin\divb.dll
```

To verify the success of your TP Desktop Connector client services installation, you can run the Visual Basic sample application. Follow these steps:

1. Open the VBAVERTZ project.
2. Verify that all the required files were loaded (see the VBAVERTZ project window):

```
vbavertz.bas
mainmenu.frm
reserve.frm
signin.frm
```

Double click each item in the project window to verify that it loads properly.

3. Run the interpreted version of VBAVERTZ (choose the Start command from the Run menu).

Installing the TP Desktop Connector Client Services on Non-Windows Systems

The TP Desktop Connector client services software was previously released as the ACMS Desktop “portable API” services. It allows client applications running on a variety of desktop platforms to call ACMS tasks. For the current TP Desktop Connector release, the client services software is distributed on the Client Saveset in folders (directories) according to the desktop platform (see Chapter 4).

Section 7.1 presents a general overview of the installation process and its prerequisites.

For information on how to design and develop client applications using the TP Desktop Connector client services software, refer to the following ACMS books:

- ***HP TP Desktop Connector for ACMS Client Application Programming Guide***
- ***HP TP Desktop Connector for ACMS Client Services Reference Manual***

7.1 Overview of the Client Services Installation

The procedure for installing the client services and accompanying sample client application files consists of the following general steps:

1. Transfer a client services archive to your desktop platform
2. Execute it
3. Set up your system for the TPware environment
4. Set up the client services for your network transport
5. Transfer and execute a sample client archive
6. Run the sample to verify that the installation functions properly.

Sections 7.1.1 through 7.1.3 discuss the prerequisites and requirements necessary before installing the TP Desktop Connector client services and sample files. Installation instructions are organized by platform:

For this platform	See . . .
OpenVMS systems	Section 7.2
Tru64 UNIX systems	Section 7.3

7.1.1 Software Prerequisites

The TP Desktop Connector *Software Product Description* (SPD) contains information on software prerequisites for installing TP Desktop Connector software.

7.1.2 Disk Space

Table 5–1 lists the disk space required for each of the desktop systems.

7.1.3 Resources

Before you start the installation procedure, obtain the following:

- DECnet node name (host name on TCP/IP) for the OpenVMS system on which the TP Desktop Connector Gateway for ACMS is installed
- Valid account (user name and password) on the OpenVMS system on which the TP Desktop Connector Gateway for ACMS is installed
- Directory in which to install the client services software
- Sufficient disk space, as shown in Table 5–1
- Host name for TCP/IP

7.2 Installing the Client Services for OpenVMS

The client services files for OpenVMS are provided as a compressed saveset. After you copy the client services software to the client system, decompress the file and restore the saveset.

7.2.1 Setting Up the Client Services

Follow these instructions to install the client services for OpenVMS systems:

1. Create the client services directory on the desktop system.

Note

This directory must be created from a user account, not from the system account.

```
$ create/dir [.acmsdi]
```

2. Copy the file to the newly created directory.

For OpenVMS Alpha systems:

```
$ set def [.acmsdi]
$ copy vmsalpha.exe []
$ run vmsalpha.exe
```

.

.

.

accept the default output filename

.

.

.

```
$ backup vms_client.sav/save *.* /log
```

For OpenVMS I64 systems:

```
$ set def [.acmsdi]
$ copy vmsi64.exe []
$ run vmsi64.exe
```

.

.

.

accept the default output filename

.

.

.

```
$ backup vms_client.sav/save *.* /log
```

3. The TP Desktop Connector library is preconfigured for DECnet network access. To build applications that use TCP/IP as a transport, you must reconfigure the library before creating executable programs.

The following steps are necessary to set up the TP Desktop Connector library for TCP/IP access:

- a. Remove the DECnet object from the library with the following command:

```
$ library/delete = net_decnet acmsdi$client_objlib.olb
```

Insert the TCP/IP transport access module into the library with the following command:

```
$ library/insert acmsdi$client_objlib.olb net_tcpip.obj
```

After these steps, you are ready to build TP Desktop Connector applications that use TCP/IP as a transport. Table A-1 shows the files that are added to your desktop system during the installation of the TP Desktop Connector client services for OpenVMS.

Follow the applicable steps in Sections 7.2.2 and 7.2.4.

7.2.2 Installing the Motif Sample Client for OpenVMS

To install the Motif sample files on the OpenVMS desktop system, perform the following steps:

1. Create a directory on the desktop system to contain the sample files and move to that directory:

```
$ create/dir [.motif_avertz]
$ set def [.motif_avertz]
```

2. Copy the Motif sample file.

For OpenVMS Alpha systems:

```
$ copy vmsalpha.exe []
```

3. Restore the saveset:

```
$ run vmsalpha.exe
.
.
.
Return accept the default output filename
.
.
.
$ backup/restore vms_avertz.sav/save *.* /log
```

4. Copy the Motif resource file to your home directory:

```
$ copy m_avertz.dat sys$login:m_avertz.dat
```


Table A–2 lists the files that are added to your desktop system.

7.2.3 Verifying the Motif Sample Installation on OpenVMS

Compile, link, and run the source code for the sample client program to verify your capability to build applications.

To build the sample application, follow these steps:

1. If you have MMS, use the MMS makefile provided to build the `m_avertz` sample application. In the sample directory, run MMS using the following command:

```
$ MMS
```

If you download TP Desktop Connector libraries to a different location, edit the makefile to indicate the new location of the libraries.

Note

On OpenVMS Alpha systems, the makefile expects the logical `ACMSDI$VMS_ALPHA` to point to the directory that contains the TP Desktop Connector client library. In addition, on OpenVMS Alpha systems, the first time that the makefile tries to create the HP DECwindows library, the makefile fails. When this happens, rerun MMS to continue the build.

If you do not have MMS, use the makefile as a guide to build the application yourself.

2. Run the application by entering the following command:

```
> run m_avertz/nodebug
```

The `m_avertz` application displays the menu bar of the AVERTZ Car Reservation System. If you want the sample desktop client program to communicate with the ACMS application, follow the procedures in Section 7.2.4 to set up the sample application on the ACMS system. After you set up the ACMS system, use the Session menu to sign in to the ACMS system. After you sign in, you can use the Rental menu to run the reserve task of the AVERTZ application.

The installation procedure is now complete and verified.

7.2.4 Setting Up the Avertz ACMS Sample Application on an OpenVMS System

The command procedure VR_DA_RUNTIME_SETUP.COM sets up the sample application. You need SYSPRV privilege to run the procedure. See the file ACMSDI\$VR_APPLICATION_INFO.TXT in the ACMSDI\$EXAMPLES_AVERTZ directory for more information on setting up the sample.

To prepare the AVERTZ sample application on a OpenVMS system, do the following:

1. Run the command procedure to set up the application:

```
$ @ACMSDI$EXAMPLES_AVERTZ:VR_DA_RUNTIME_SETUP
.
.
.
$
```

2. Start the ACMS system (if necessary) and the application:

```
$ ACMS/START SYSTEM
$ ACMS/START APPLICATION VR_DA_APPL
```

3. Perform other management tasks related to your system, for example, authorizing user accounts. Refer to the management information in *HP TP Desktop Connector for ACMS Client Application Programming Guide*.

The following sections provide additional information about using the Avertz sample application on the ACMS OpenVMS system.

7.2.4.1 Using the Avertz ACMS Sample with Rdb Version 6.0 with Multi-Version

When you execute the VR_DA_RUNTIME_SETUP.COM file to set up the sample application, this command file invokes two option files, VR_READ_SERVER.OPT and VR_UPDATE_SERVER.OPT, which reference the SYS\$LIBRARY:SQL\$USER library. On a system with Rdb Version 6.0 with multi-version installed, the SYS\$LIBRARY:SQL\$USER file is not available. Instead, the version number is appended to the file name, for instance, SYS\$LIBRARY:SQL\$USER60.

To work around this naming mismatch problem, you can define the logical name SQL\$USER to reference the appropriate library file. For example:

```
$ DEFINE SQL$USER SYS$LIBRARY:SQL$USER60
```

Modify the linker options files:

```
ACMSDI$EXAMPLES_AVERTZ:VR_READ_SERVER.OPT  
ACMSDI$EXAMPLES_AVERTZ:VR_UPDATE_SERVER.OPT
```

Replace the line

```
SY$LIBRARY:SQL$USERnn.OLB/LIBRARY
```

with the following:

```
SY$USER/LIBRARY
```

7.2.4.2 User Name Quotas for the Avertz ACMS Sample

The VR_DA_RUNTIME_SETUP.COM command file assigns quotas for the AVERTZ_EXC, AVERTZ_UPD, and AVERTZ_READ user names that are adequate for running the VR_DA_APPL sample application. If your system already has these user names defined, the quotas for these user names might be inadequate for VR_DA_APPL. If you are using the AVERTZ sample application, delete AVERTZ_EXC, AVERTZ_UPD, and AVERTZ_READ user names before running VR_DA_RUNTIME_SETUP.COM to ensure that you get appropriate quotas for these user names.

To ensure the success of the operations in the VR_DA_RUNTIME_SETUP.COM command procedure, run it from the system account.

7.2.4.3 Access Control List for the Avertz ACMS Sample

The VR_DA_RUNTIME_SETUP.COM procedure adds the AVERTZ application name VR_DA_APPL to the ACMS database. The command line to do so includes the ACL qualifier and assigns the ID as /ID=SYSTEM. This might fail on your system.

To ensure that the VR_DA_RUNTIME_SETUP.COM procedure works, change the ID=SYSTEM to ID=[UIC], where UIC is that of the account SYSTEM; for example, ID=[1,4].

7.2.4.4 Rebuilding the Avertz ACMS Sample

Executables are provided for the sample. You do not need to rebuild the sample to run it. However, a DEC/MMS description file is provided for rebuilding the sample to incorporate any changes you make to the sample.

To modify and rebuild the sample, follow these steps:

1. Copy the sample sources to another directory.
2. Use the command procedure VR_DA_BLD_MMS.COM to rebuild the sample under a different ADB name in that directory:
 - a. Create the CDD directories for the AVERTZ components.

- b. Define logical names.

If you are using a directory other than ACMSDI\$EXAMPLES_AVERTZ for rebuilding the sample, edit the logical name definitions in the VR_DA_BLD_LOGICALS.COM command procedure to point to your file and CDD directories. Make these edits before running the BLD portion of the VR_DA_BLD_MMS.COM command procedure.

- c. Perform other setup and build activities.

3. Run the command procedure VR_DA_BLD_MMS.COM without parameters:

```
$ @ACMSDI$EXAMPLES:VR_DA_BLD_MMS
```

All the setup and build activities are performed.

To perform a specific activity, specify one of the parameters in Table 7–1.

Table 7–1 VR_DA_BLD_MMS.COM Parameters

Keyword	Activity
BLD	Run MMS to build VR_DA_APPL
CDD	Set up the CDD dictionary and directories for VR_DA_APPL
DB	Create the VEHICLE_RENTALS database

7.2.5 Installing the ADD_ACMS_APPL sample client for OpenVMS I64

ADD_ACMS_APPL application running on the VMS site, uses TCP/IP as the mode of transport for communication.

Note

The VMSI64.exe, consists of two savesets VMS_ADD_ACMS_AP PL.SAV and VMS_CLIENT.SAV. The VMS_ADD_ACMS_APPL.SAV saveset consists of files required for running the add_acms_appl application on the OpenVMS node. and the VMS_CLIENT.SAV saveset consists of files which are required for building the OpenVMS I64 client applications.

To Install the ADD_ACMS_APPL sample client for OpenVMS I64 follow these steps:

1. Create a directory on the desktop system to contain the sample files and move to that directory:

```
$ create/dir [.add_acms_appl]
$ set def [.add_acms_appl]
```

2. Extract the files in the VMS_ADD_ACMS_APPL.SAV to the directory created.
3. Ensure that ADD_ACMS_APPL application and ACMSDI\$SERVER gateway process are running in the backend node.
4. Run the m_add.com build script for generating the output executable file m_add.exe
5. Run m_add.exe
6. Enter the Nodename, Username and Password.
7. Enter the numbers to be added to get the required result.

7.3 Installing the Tru64 UNIX Client Software

If you are installing the software from the Client Saveset(see Section 5.1), you have two tar files that you transfer to a Tru64 UNIX desktop system. Perform the following steps.

1. Create the client services directory on the desktop system, and change to that directory. For example:

```
> mkdir acmsdi
> cd acmsdi
```

2. Copy the du_client.tar file from the Client Saveset to the client services directory. For example:

```
> cp cd/dunix/du_client.tar .
```

If you install the client files from the TPware Product Installation Package, change directory to the location in which you expanded the archive file that you copied from the OpenVMS system (see Section 3.2.2.2).

The du_client.tar file contains the client files. Perform the following steps.

1. Extract the files from the archive. For example:

```
acmsdi> tar xvf du_client.tar
.
.
.
```

The list of files printed because of the v flag should match the list of files in Table A-5.

2. If you want to use the DECnet transport, change the client library. For example:

```
> su
# ar d libacmsdi.a net_tcpip.o
# ar r libacmsdi.a net_decnet.o
# ar t libacmsdi.a
.
.
.
# ar qs libacmsdi.a
```

Also edit the Makefile to add `-ldnet` to the link library list.

3. You can copy the client services library to `/usr/lib/libacmsdi.a`, so that you can refer to it in your link command as `'-lacmsdi'`. You need superuser privileges to copy into the `/usr/lib` directory.

Copy the TP Desktop Connector client library to the system directory:

```
# cp libacmsdi.a /usr/lib/libacmsdi.a
.
.
.
```

You can leave the TP Desktop Connector library in the client services directory. If you do, use the full path to the library in your link command, instead of using the `'-lacmsdi'` option.

4. Update the copied library file:

```
# ar qs /usr/lib/libacmsdi.a
```

5. Exit superuser mode:

```
# Ctrl/D
>
```

See Section 7.3.1 for instructions on installing sample files.

7.3.1 Installing the Motif Sample Client on Tru64 UNIX Platforms

To install the Motif sample files on the Tru64 UNIX system, perform the following steps:

1. Create a directory on the desktop to contain the sample files and change to that directory:

```
> mkdir avertz
> cd avertz
```

2. Copy the sample tar file from the Client Saveset:

```
> cp cd/dunix/samples/du_avertz.tar .
```

If you install the client files from the TPware Product Installation Package, change directory to the location in which you expanded the archive file that you copied from the OpenVMS system (see Section 3.2.2.2).

The du_avertz.tar file contains the sample files. Extract the sample files:

```
> tar xvf du_avertz.tar
.
.
.
```

The list of files printed should match the list in Table A–6.

The sample makefile and executables for Motif on Tru64 UNIX use TCP/IP as the default transport. If you have changed the client services library to use DECnet, you must relink the sample application before you run it.

7.3.2 Verifying the Motif Sample Installation on Tru64 UNIX Platforms

Compile, link, and run the source code for the sample client program to verify your capability to build applications. To build the sample application, follow these steps:

1. Use the makefile provided to build the m_avertz sample application. In the sample directory, run make:

```
> make
```

2. Run the application by entering the following command:

```
> m_avertz
```

The m_avertz application displays the menu bar of the AVERTZ Car Reservation System. If you want the sample desktop client program to communicate with the ACMS application, follow the procedures in Section 7.2.4 to set up the sample application on the ACMS system. After you set up the ACMS system, use the Session menu to sign in to the ACMS system. After you sign in, you can use the Rental menu to run the reserve task of the AVERTZ application.

The installation procedure is now complete and verified.

Part III

Installing the Gateway Software

Part III describes TP Desktop Connector Gateway for ACMS software installation from the Gateway Saveset on an OpenVMS system and presents the following major topics:

- Preparing to Install TP Desktop Connector Gateway for ACMS Software
- Installing TP Desktop Connector Gateway for ACMS Software
- After Installing TP Desktop Connector Gateway for ACMS Software
- Running the TP Desktop Connector Gateway for ACMS IVP

This part covers only the server-side software and samples, but not the client-side software and samples. For client installations using the Client Saveset, see Part II.

Preparing to Install TP Desktop Connector Gateway for ACMS Software

This chapter discusses the preparations and requirements necessary for installing TP Desktop Connector gateway for ACMS software. Be sure to verify the contents of your kit with this information. If your kit is damaged or incomplete, contact your HP representative.

The gateway software includes online *Release Notes* and gives you the option of printing or displaying them during the installation procedure. HP strongly recommends that you read the *Release Notes* before proceeding with the installation, in case they contain important information regarding the installation procedure.

8.1 Required Operating System Components

See the *HP TP Desktop Connector Software Product Description* (SPD) for a complete list of required operating systems for the TP Desktop Connector gateway for ACMS.

8.2 Prerequisite Software

The *Software Product Description* (SPD), contains a list of the prerequisite software, and a complete list of the products that are compatible with this version of gateway software.

8.3 Installation Procedure Requirements

The installation procedure, VMSINSTAL, checks for various conditions on your system. If VMSINSTAL detects any problems during the installation, it notifies you of the problem and asks whether you want to continue the installation. In some instances, you can answer YES to continue. To stop the installation process and correct the situation, answer NO or press **Return**.

You can avoid having to stop and restart VMSINSTAL by following the directions in this section before you run VMSINSTAL. The time required for installing gateway software is approximately five minutes.

8.3.1 Disk Space

Installing gateway software requires a certain amount of free storage space during the installation. Table 8–1 summarizes the storage requirements for gateway software during and after installation.

Table 8–1 Disk Space Requirements

	Blocks During Installation	Blocks After Installation
Gateway	23,304	6,500

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
```

In the output column under the heading Free Blocks is the number of 512-byte blocks available on the device.

8.3.2 Privileges and Authorization

To install gateway software, you must be logged in to an account with the following privileges:

```
NETMBX
SETPRV
TMPMBX
```

The SYSTEM account has all the privileges you require for the installation.

VMSINSTAL turns off the BYPASS privilege at the start of the installation and sets whatever privileges it needs during the installation.

At the end of the installation procedure, if the gateway system components were installed, the gateway process on OpenVMS is started using the same user name that you use to install the product. HP recommends that you run the gateway under the user name SYSTEM or another user name with a [1,4] UIC.

For the gateway process to be properly started, the user name under which the installation is done must be an authorized ACMS agent. Use the ACMSUDU Utility to authorize the user name. For example:

```
$ SET DEFAULT SYS$SYSTEM
$ RUN ACMSUDU
UDU> ADD SYSTEM/AGENT
UDU>
```

If the user name is not authorized as a ACMS agent, the IVP can fail and TP Desktop Connector client programs cannot sign in to the ACMS system. To allow client programs to successfully sign in to the ACMS system, stop the gateway, and restart it under a user name that is an authorized ACMS agent.

8.3.3 System Disk Backup

At the beginning of the installation, VMSINSTAL asks whether your system disk is backed up. HP recommends that you always do a system disk backup before installing new software on the operating system.

Use the backup procedures that are established at your site to do this backup. For details on performing a system disk backup, see the section on the Backup Utility in the OpenVMS documentation set.

8.3.4 Stopping the ACMS System and Gateway

If you have TPware components already installed and running, shut them down. While logged in to the system under an account having the appropriate privileges as described in Section 8.3.2, execute the following commands.

1. Stop the TP Desktop Connector Gateway for ACMS process. For example:

```
$ @SYS$STARTUP:ACMSDI$SHUTDOWN
$
```

2. If you have ACMS software already installed and running, shut it down. Execute the following commands.

- a. Stop the ACMS system. For example:

```
$ ACMS/STOP SYSTEM
.
.
.
$
```

- b. Stop the ACMS controller. For example:

```
$ @SYS$STARTUP:ACMSTOP
.
.
.
$
```

9

Installing TP Desktop Connector Gateway for ACMS Software

This chapter describes how to install TP Desktop Connector gateway for ACMS software. Section 9.1 provides helpful information about installing the gateway software. Section 9.2 contains a step-by-step description of the installation procedure.

9.1 General Installation Information

This section includes the following information.

- Accessing *Release Notes* (see Section 9.1.1)
- Determining the files and logical names added to your system (see Section 9.1.2)
- Running the Installation Verification Procedure (IVP) (see Section 9.1.3)
- Aborting the installation (see Section 9.1.4)

9.1.1 Accessing the Online *Release Notes*

The gateway software provides online *Release Notes*. To activate the prompt about displaying or printing the *Release Notes*, invoke VMSINSTAL with the OPTIONS N parameter.

After the gateway software has been installed, the *Release Notes* are located in a directory with public access.

9.1.2 Files and Logical Names Installed on Your System

The following files contain a list of the files added to your system by the gateway installation:

```
SYS$COMMON:[SYSTEST.ACMSDI]ACMSDI$FIRST_FILES.DAT
SYS$COMMON:[SYSTEST.ACMSDI]ACMSDI$SAMPLE_ADD_FILES.DAT
SYS$COMMON:[SYSTEST.ACMSDI]ACMSDI$SAMPLE_AVERTZ_FILES.DAT
SYS$COMMON:[SYSTEST.ACMSDI]ACMSDI$SAMPLE_COMMON_FILES.DAT
SYS$COMMON:[SYSTEST.ACMSDI]ACMSDI$SAMPLE_EMPLOYEE_FILES.DAT
SYS$COMMON:[SYSTEST.ACMSDI]ACMSDI$SYSTEM_FILES.DAT
```

You can display or print these files after you install the gateway software.

After the installation, if the gateway is started (by ACMSDI\$STARTUP.COM), the following logical names are added to your system:

```
ACMSDI$EXAMPLES
ACMSDI$EXAMPLES_ACMS
ACMSDI$EXAMPLES_ADD
ACMSDI$EXAMPLES_AVERTZ
ACMSDI$EXAMPLES_EMPLOYEE
ACMSDI_AVERTZ_DEFAULT
AVERTZ_TDB
```

These logical names are entered into the system logical name table. The names are used in various gateway startup files. Thus, they are automatically entered into the system logical name table whenever the gateway startup command file is executed.

9.1.3 Installation Verification Procedure

The Installation Verification Procedure (IVP) for gateway software verifies the installation. During the installation, you are asked whether you want to run the IVP as part of the installation. If you answer YES, VMSINSTAL runs the IVP. It is recommended that you run the IVP to be sure that the software is installed correctly.

After you install the gateway software, you can run the IVP independently to verify that the software is available on your system. You might also want to run the IVP after a system failure to be sure that users can access gateway software. See Chapter 11 for information about running the IVP separately from the installation procedure.

9.1.4 Aborting the 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.

9.2 Installation Procedure

Perform the steps in the following sections to install the gateway software.

9.2.1 Invoking VMSINSTAL

If your system is prepared as described in Chapter 8, perform the following steps to start the installation process.

1. Log into the system under a privileged account (see Section 8.3.2) and set the default to the desired directory. For example:

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

`SYS$UPDATE` is used in this example.

2. Use the following syntax to invoke `VMSINSTAL`:

```
@SYS$UPDATE:VMSINSTAL saveset-name directory-name OPTIONS N
```

The parameter *saveset-name* represents the installation name for the component. For the gateway software, use the following installation name:

```
ACMSDI
```

If you do not supply the *saveset* name, `VMSINSTAL` prompts you for it later in the installation procedure.

The parameter *directory-name* represents the location of the *saveset* files on the OpenVMS Node.

- If you install from the TPware Installation Package, use the location obtained from following the steps described in Section 2.1.

If you do not supply *directory-name*, `VMSINSTAL` prompts you for this information later in the installation procedure.

`OPTIONS N` is an optional parameter indicating that you want to be prompted to display or print the *Release Notes*. If you do not include the `OPTIONS N` parameter, `VMSINSTAL` does not prompt you to display or print the *Release Notes*.

`VMSINSTAL` supports several other options. For information, refer to the OpenVMS documentation on software installation.

3. Execute the installation procedure.

VMSINSTAL asks several installation questions as described in Section 9.2.2.

9.2.2 Installation Questions

This section discusses the questions that appear during the installation. Each question in the installation is marked with an asterisk (***) at the beginning of the line. Some questions show the default response in brackets, for example, [YES]. To give the default response, press `[Return]`.

1. Confirming active processes

VMSINSTAL displays a list of all active processes. It then asks whether you want to continue the installation. Install the gateway software on a standalone system or cluster with DECnet shut down to minimize possible installation problems.

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

```
.  
.
.
```

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

2. Confirm system backup

VMSINSTAL asks whether you are satisfied with your system backup. Always back up your system disk before performing an installation. If you are satisfied with the backup of your system disk, press `[Return]`. Answer NO to discontinue the installation. After you back up your system disk, restart the installation.

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

3. *Release Notes*

If you specified OPTIONS N when you invoked VMSINSTAL, you see several options for reviewing the *Release Notes*. The following options are displayed:

```
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]: 1
```

- Option 1

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**. Because the *Release Notes* are several pages long, it is recommended that you choose option 2 to print the *Release Notes* rather than reviewing them on line.

- Option 2

If you select option 2, VMSINSTAL prompts for the name of the print queue to use:

* Queue name [SYS\$PRINT]:

Enter the name of an ANSI print queue on your system, or press **Return** to send the file to the default queue shown within the square brackets.

- Option 3

If you select option 3, VMSINSTAL displays the *Release Notes* and prompts for a queue name for the printed version.

- Option 4

If you select option 4, VMSINSTAL continues the installation.

4. Continuing the installation

The installation procedure asks whether you want to continue the installation. To continue, answer YES. Otherwise, press **Return**. In either case, the *Release Notes* are copied to a file in the SYS\$HELP directory.

The name of the *Release Notes* file installed by VMSINSTAL consists of the current product name and version number. If you plan to compare previous versions of gateway software, do not delete the *Release Notes* for previous versions of the gateway.

5. Choosing to purge files

You can purge files from previous versions of the gateway that are superseded by this installation. Purging is recommended, however, if you need to keep files from a previous version, answer NO in response to this question:

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

6. Choosing to run the IVP

If you are installing the gateway system components, the installation procedure asks whether you want to run the IVP. The IVP checks that the software is installed correctly. It is recommended that you run the IVP.

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

Press **Return** to run the IVP after installing gateway software. Answer NO to omit the IVP. Run the IVP independently after the installation to check the consistency of the gateway software. See Chapter 11 for information about how to run the gateway IVP independently of the installation procedure.

9.2.3 Informational Messages

At this point, the installation procedure displays a number of informational messages that report on the progress of the installation and advise about different uses of the product. There are no further questions.

```
%ACMSDI-I-PROCEED, There are no further questions and all checks have been completed.
-ACMSDI-I-PROCEED, It will take approximately 15 minutes to complete the
installation.
%VMSINSTAL-I-ACCOUNT, This installation updates an identifier named ACMSDI$CLIENT.
%UAF-I-RDBMDFYMSG, identifier ACMSDI$CLIENT modified
.
.
.
```

Read the instructions, because they might apply to your installation.

If the installation procedure has been successful up to this point, VMSINSTAL moves the new or modified files to their target directories and updates help files. If you asked for files to be purged, that work is done. The following message is displayed:

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

If you are installing gateway software on a system disk that has limited free space, VMSINSTAL might not be operating in safety mode. In this case, VMSINSTAL processes all files immediately and does not display the %VMSINSTAL-I-MOVEFILES... message.

If the disk has quotas enabled, a message is displayed. The account must have sufficient disk quotas to install. Refer to Table 8–1.

9.2.4 Running the Installation Verification Procedure

If you chose to run the IVP, VMSINSTAL runs it next. When the IVP runs successfully, you see the following messages displayed:

```
%RUN-S-PROC_ID, identification of created process is 210031D5
Starting Server ACMSDI$SERVER
The TP Desktop Connector V5.0 Gateway for ACMS IVP completed successfully
      Installation of ACMSDI V5.0 completed at 13:32
.
.
.
The TP Desktop Connector V5.0 Gateway for ACMS IVP completed successfully
```

9.2.5 Completing the Installation Procedure

The following messages indicate that the installation procedure is complete:

```
      Installation of ACMSDI V5.0 completed at 13:32
VMSINSTAL procedure done at 13:33
$
```

You can now log out of the privileged account:

```
$ LOGOUT
SYSTEM      logged out at 31-AUG-1999 13:34:12.28
```

VMSINSTAL deletes or changes entries in the process symbol tables during the installation. Therefore, to continue using the system account and restore these symbols, log out and log in again. Proceed to Chapter 10 to follow postinstallation procedures.

9.3 Recovering from System and Installation Failures

An unsuccessful installation can result from a system failure (see Section 9.3.1) or errors encountered during the installation procedure (see Section 9.3.2).

9.3.1 System Failures

If you experience a system failure, such as a power loss during installation, VMSINSTAL attempts to continue the installation when you reboot the system. Depending on the point in the installation at which the system fails, one of three conditions exists:

- The system disk did not undergo any changes before the system failure. VMSINSTAL instructs you to restart the installation.
- The system disk used by the installation was corrupted. VMSINSTAL instructs you to restore the system disk from the backup copy and restart the installation.

- VMSINSTAL continues the installation and can tell you to manually purge replaced files, even if you request that they be purged automatically. You can purge files, but remember that purging deletes all but the latest version of all files on your system disk. If you have multiple versions of system files to save, you can delete just the gateway files you want to remove from system directories.

To purge files, perform the following steps:

1. Reboot the system.
2. Log in to the SYSTEM account.
3. Purge all system files using the following command:

```
$ PURGE/LOG SYS$SYSROOT:[*...]*.*
.
.
.
```

After you perform this task, the installation is complete.

After you see the message that indicates the beginning of the IVP, the installation of the component software is complete. If the system fails subsequently, VMSINSTAL displays the following message when you reboot.

```
%VMSINSTAL-I-RECOVER, TP Desktop Gateway for ACMS was being installed when the system crashed.
```

The installation completed satisfactorily.

This message indicates that VMSINSTAL finished successfully, not that the installation of the gateway was successful.

VMSINSTAL does not automatically restart the IVP. Run the IVP independently by following the steps described in Chapter 11.

9.3.2 Installation Failures

If the installation of the gateway software or a TP Desktop Connector sample application fails for some reason other than a system failure, the installation procedure displays a message describing the cause of the failure. To continue with the installation, correct the condition causing the error and restart the installation procedure from the beginning.

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 OpenVMS help library is currently in use.

For descriptions of the error messages generated by these conditions, see the OpenVMS documentation on system messages, recovery procedures, and OpenVMS software installations. If you are notified that any of these conditions exist, take the appropriate action as described in the message. (You might need to change a system parameter or increase a quota value.) For information on installation requirements, see Chapter 8.

If the installation of the component software completes satisfactorily, but a test fails during the IVP, the IVP displays a message describing the failure and suggests a course of action.

In most cases, the suggested course of action is to reinstall the gateway software. If the IVP fails after you reinstall the gateway software, contact your HP software specialist.

9.3.3 IVP Error Recovery

As the IVP executes, it checks the success of each test and operation it performs. If any test or operation fails, the IVP displays a message describing the failure and suggests a course of action.

Follow the suggested course of action and then restart the IVP as described in Chapter 11. If you reinstall gateway software, the IVP runs automatically if you answer YES to the IVP question. If you still cannot successfully run the IVP, contact your HP software specialist.

10

After Installing TP Desktop Connector Gateway for ACMS Software

After installing gateway software, perform the following tasks:

- Edit OpenVMS system startup and shutdown files (see Section 10.1).
- Perform any cluster operations (see Section 10.2).
- Match client and server versions (see Section 10.3).
- Read the management chapters in the appropriate document:
 - *HP TP Desktop Connector for ACMS Client Application Programming Guide*
 - *HP TP Desktop Connector Getting Started*

See Chapter 11 for information about how to run the Installation Verification Procedure (IVP) after the software has been installed.

10.1 Editing the OpenVMS System Files

You must edit the OpenVMS system startup and shutdown files to provide for automatic startup and shutdown of TP Desktop software when your system is rebooted. (This step is usually not necessary for system upgrades.)

10.1.1 Editing the System Startup File

The following files are located in the SYS\$STARTUP directory.

ACMSDI\$SHUTDOWN.COM
ACMSDI\$STARTUP.COM

Add to the OpenVMS system startup file the command line that starts TP Desktop. If you separate the startup procedures into modules, be sure that you add the lines to the correct file.

Position the TP Desktop startup command line *after* the line that invokes the ACMS startup command procedure. For example:

```
$ @SYS$STARTUP:ACMSTART.COM
.
.
.
$ @SYS$STARTUP:ACMSDI$STARTUP.COM
```

Note

Start ACMS software before you start TP Desktop software.

Starting TP Desktop software automatically enables the use of the DECnet communication transport. To use TCP/IP protocols as well, or instead of DECnet, list the transports you want to use in a parameter file. Specify the parameter file as a qualifier on the TP Desktop startup command line.

The parameter file is a simple ASCII text file that lists your overrides to TP Desktop run-time quotas and defaults. These overrides can include the specification of the communication libraries that have been installed on the OpenVMS system. For example, to enable TP Desktop to use all transports, perform the following steps.

1. Create the following file in the SYS\$MANAGER directory:

```
ACMS_DESKTOP_SERVER.DAT
```

2. Include in the file the following line:

```
transport=(tcpip,decnet)
```

3. Modify the startup command line to specify the parameter file. For example:

```
$ @SYS$STARTUP:ACMSDI$STARTUP.COM SYS$MANAGER:ACMS_DESKTOP_SERVER.DAT
```

To perform this same function in batch from DCL-level, issue a SUBMIT command. For example:

```
$ SUBMIT/USER=SYSTEM/NOLOG SYS$STARTUP:ACMSDI$STARTUP-
_$ /PARAMETER=(SYS$MANAGER:ACMS_DESKTOP_SERVER.DAT)
```

This command starts a batch job that runs the startup command procedure using the input file specified in the parameter qualifier. When the batch job completes, the TP Desktop software is started.

10.1.2 Editing the System Shutdown File

Find the following line, which stops the ACMS system, in the OpenVMS system shutdown file:

```
$ @ACMSTOP.COM
```

At some point before this line, add the following command line:

```
$ @SYS$STARTUP:ACMSDI$SHUTDOWN.COM
```

The command procedure cancels all active tasks and shuts down the TP Desktop process. This ensures that the TP Desktop system processes are run down properly. The command procedure also deinstalls TP Desktop images (using the Install Utility of OpenVMS) and deassigns the logical names.

10.2 Performing Cluster Procedures

Because TP Desktop software treats a VMScluster system as if it were a local area network (LAN), you must prepare system-specific roots on each node of the cluster. For example:

```
$ CREATE/DIRECTORY SYS$SPECIFIC:[ACMSDI]/OWNER_UIC=SYSTEM-  
_$/PROTECTION=(S:RWE,O:RWE,G:RE,W:RE)  
$ CREATE/DIRECTORY SYS$SPECIFIC:[SYSTEST.ACMSDI]/OWNER_UIC=SYSTEM-  
_$/PROTECTION=(S:RWE,O:RWE,G:RE,W:RE)  
$ CREATE/DIRECTORY SYS$SPECIFIC:[SYSHLP.EXAMPLES.ACMSDI]/OWNER_UIC=SYSTEM-  
_$/PROTECTION=(S:RWE,O:RWE,G:RE,W:RE)  
$
```

Executed on each node in the cluster, these commands create directory roots for the TP Desktop software. See Section 9.1.2 for the locations of files describing the directories added to your system.

10.3 Matching Client and Server Versions

If you are upgrading from ACMS Desktop Version 3.n/4.n to TP Desktop Version 5.m, you can use your existing client programs with the new server. But, if you build a new client program under TP Desktop Version 5.m, you cannot use this new program with the old ACMS Desktop Version 3.n/4.n server.

When the ACMS communication protocols do not match those of the desktop client, the gateway rejects the attempted connection. The gateway writes a message to the software event log (SWL).

The error code returned on the client side depends on the nature of the mismatch. The following error codes can indicate a mismatched condition:

ACMSDI_SRVDEAD	-3020
ACMSDI_INVPROTOCOL	-3025

Running the TP Desktop Connector Gateway for ACMS IVP

This chapter describes how to run the gateway installation verification procedure (IVP) separately from the installation procedure. The IVP can be run as a part of the normal installation when you answer YES to the IVP question. If the IVP fails for any reason, correct the error and rerun the IVP. See Chapter 9 for information on providing the IVP with information required for the installation procedure. Run separately from the installation procedure, the IVP can check the integrity of installed files on the system.

11.1 IVP Operations

The IVP checks that:

1. The installation procedure successfully completed installing TP Desktop software.
2. The installed software can be used to set up and run TP Desktop software.
3. All the necessary files are on the system.

The IVP does not check that the applications run correctly.

11.2 Running the IVP Independently

This section describes the requirements and steps to run the IVP.

11.2.1 IVP Requirements

If disk quotas are enabled, the IVP cannot run. The procedure checks to see whether disk quotas are enabled just after checking the process quotas. If disk quotas are enabled, the procedure provides an informational message to that effect and terminates.

11.2.2 IVP Steps

To run the IVP independently of the installation procedure, follow these steps:

1. Log in to the SYSTEM account:

```
Username: SYSTEM  
Password:
```

2. Set your default to the test directory:

```
$ SET DEFAULT SYS$TEST  
$
```

3. Run the IVP using the following file specification:

```
ACMSDI$IVP.COM
```

You can run the IVP only on your current booted system. You cannot run the IVP over a networked connection.

To start the IVP, enter the following command:

```
$ @ACMSDI$IVP  
The TP Desktop Connector V5.0 Gateway for ACMS IVP completed successfully  
.  
.  
.  
The TP Desktop Connector V5.0 Gateway for ACMS IVP completed successfully  
  
The IVP takes no more than 30 seconds to run, depending on the current  
system load.
```

11.2.3 IVP Error Recovery

As the IVP executes, it checks the success of each test and operation it performs. If any test or operation fails, the IVP does the following:

1. Stops processing.
2. Displays a message describing the failure.
3. Suggests a course of action to eliminate the cause of the failure.

Follow the suggested course of action and then restart the IVP.

Part IV

Appendixes

Part IV provides reference material related to software installation on a system.

Appendix A lists the files that are installed on your system for the various sample programs.

Appendix B contains helpful hints about errors that might occur when you run one of the sample applications.

A

Files Installed

The following tables list the files that are installed on your systems for the various sample applications.

Table A–1 Files Installed for TP Desktop Connector Client Services for OpenVMS Systems

Files	Description
ACMSDI.H	Include file for the TP Desktop Connector client services declarations
ACMSDI\$CLIENT_OBJLIB.OLB	Library for the TP Desktop Connector client services
FORMS.H	Include file for HP DECforms
NET_DECNET.OBJ	DECnet object file
NET_TCPIP.OBJ	TCP/IP object file
PPSTUBS.C	Presentation procedure and action routine stubs
TDMS.H	Include file for TDMS

Table A–2 Files Installed for the Motif Sample for OpenVMS Systems

Name	Description
Makefile	Makefile for building the sample
acmsdi.h	Include file for the TP Desktop Connector client services
forms.h	Sample include file with HP DECforms status values
help.txt	Overview of the AVERTZ user interface
sys\$login:m_avertz.dat	Motif sample resource file

(continued on next page)

Table A–2 (Cont.) Files Installed for the Motif Sample for OpenVMS Systems

Name	Description
m_avertz.c	Entry point for the sample; manages the main window of the sample
m_avertz.h	AVERTZ header file; defines global names
m_avertz.opt	Linker-purge options file for building the sample
m_avertz.uid	Runtime representation of the sample's UIL definition
m_avertz.uil	User interface template; defines the layout of the main window and the session dialog box
m_avertzpp.c	Reserve task presentation procedures; stubs for the checkin and the checkout tasks' presentation procedures
m_avertzpp.h	Header file for m_avertzpp.c
m_disable.c	Presentation procedure stub
m_enable.c	Presentation procedure stub
m_icons.uil	User interface template; defines the various session icons
m_list_pkg.c	Provides linked list feature
m_list_pkg.h	Header file for list_pkg.c
m_message.c	Performs message box handling in the sample
m_message.h	Header file for m_message.c
m_read_write.c	Presentation procedure stub
m_receive.c	Presentation procedure stub
m_request.c	Presentation procedure stub
m_resvform.c	Management and convenience routines for handling the reservation form
m_resvform.h	Header file for m_resvform.c
m_resvform.uil	User interface template; defines the layout of the reservation form
m_send.c	Presentation procedure to dispatch to specific routines in m_avertzpp.c
m_session.c	Manages multiple sessions; switches context for using TP Desktop Connector gateway for ACMS routines and updates the user interface
m_session.h	Header file for m_session.c

(continued on next page)

Table A–2 (Cont.) Files Installed for the Motif Sample for OpenVMS Systems

Name	Description
m_sitelist.c	Creates (using m_sites.dat) and manages the list box of AVERTZ sites
m_sitelist.h	Header file for m_sitelist.c
m_sites.dat	Contains data about AVERTZ sites; read in at run time
m_transceive.c	Presentation procedure that dispatches to specific routines in avertzpp
m_version.c	Version-checking action routine stub
m_wkspaces.c	Support routines for AVERTZ workspace structures
m_wkspaces.h	Defines the AVERTZ workspace structures
tdms.h	Sample include file with TDMS status values

Table A–3 Files Installed for the Visual Basic Windows Sample

Name	Description
mainmenu.frm	GUI objects and code for the main window of Visual Basic AVERTZ
reserve.frm	GUI objects and code for the car rental reservations screen of Visual Basic AVERTZ
signin.frm	GUI objects and code for the session-login screen of Visual Basic AVERTZ
readme.lst	Contents of the folder in text format
readme.txt	Text document that explains how to use the helper DLL, divb.dll
vbavertz.bas	Global source code for Visual Basic AVERTZ
vbavertz.exe	Executable version of Visual Basic AVERTZ
vbavertz.mak	Project makefile for Visual Basic AVERTZ

Table A–4 Files Installed for the Forced NonBlocking Tutorial

Name	Description
ACMSDI.BAS	ACMSDI declarations for Visual Basic applications
FORM1.FRM	GUI objects and code for the Forced Nonblocking Tutorial main window
FORMS.BAS	HP DECforms message code definitions for Visual Basic
FNBSAMPL.MAK	Visual Basic make file for the Forced Nonblocking Tutorial
FRMLOGIN.FRM	GUI objects and code for the Forced Nonblocking Tutorial session login window
FRMRECV.FRM	GUI objects and code for the Forced Nonblocking Tutorial receive control text window
MTEXT.BAS	Declarations and code to initialize ACMSDI message text for Visual Basic applications
NONBLK.BAS	Global declarations for the Visual Basic Forced Nonblocking Tutorial

Table A–5 Files Installed for the Client Services for Tru64 UNIX Systems

Name	Description
acmsdi.h	Include file for the TP Desktop Connector client services
forms.h	Include file for HP DECforms
libacmsdi.a	Library for TP Desktop Connector client services
net_tcpip.o	TCP/IP file for TP Desktop Connector client services
ppstubs.c	Presentation procedure and action routine stubs
tdms.h	Include file for TDMS

Table A–6 Files Installed for the Motif Sample for Tru64 UNIX Systems

Name	Description
makefile	Makefile for building the sample
acmsdi.h	Include file for the TP Desktop Connector client services
forms.h	Sample include file with HP DECforms status values
help.txt	Overview of AVERTZ user interface

(continued on next page)

Table A–6 (Cont.) Files Installed for the Motif Sample for Tru64 UNIX Systems

Name	Description
load_motif.sh	Command shell to download the Motif sample from the OpenVMS system
m_avertz	Motif sample executable file
m_avertz.c	Entry point for the sample; manages the main window of the sample
m_avertz.dat	Font definitions for the sample screens
m_avertz.h	AVERTZ header file; defines globals
m_avertz.uid	Runtime representation of the sample UIL definition
m_avertz.uil	User interface template; defines the layout of the main window and the session dialog box
m_avertzpp.c	Reserve task presentation procedures; stubs for the checkin and the checkout tasks' presentation procedures
m_avertzpp.h	Header file for m_avertzpp.c
m_disable.c	Presentation procedure stub
m_enable.c	Presentation procedure stub
m_icons.uil	User interface template; defines the various session icons
m_list_pkg.c	Provides linked list feature
m_list_pkg.h	Header file for list_pkg.c
m_message.c	Performs message box handling in the sample
m_message.h	Header file for m_message.c
m_read_write.c	Presentation procedure stub
m_receive.c	Presentation procedure stub
m_request.c	Presentation procedure stub
m_resvform.c	Management and convenience routines for handling the reservation form
m_resvform.h	Header file for m_resvform.c
m_resvform.uil	User interface template; defines the layout of the reservation form
m_send.c	Presentation procedure to dispatch to specific routines in m_avertzpp

(continued on next page)

Table A–6 (Cont.) Files Installed for the Motif Sample for Tru64 UNIX Systems

Name	Description
m_session.c	Manages multiple sessions; switches context for using TP Desktop Connector gateway for ACMS routines and updates the user interface
m_session.h	Header file for m_session.c
m_sitelist.c	Creates (using m_sites.dat) and manages the list box of AVERTZ sites
m_sitelist.h	Header file for m_sitelist.c
m_sites.dat	Contains data about AVERTZ sites; read in at run time
m_transceive.c	Presentation procedure that dispatches to specific routines in m_avertzpp.c
m_version.c	Version-checking action routine stub
m_wkspaces.c	Support routines for AVERTZ workspace structures
m_wkspaces.h	Defines the AVERTZ workspace structures
tdms.h	Sample include file with TDMS status values

B

Common Configuration Errors

The following sections discuss some of the errors that can occur while running the TP Desktop Connector client services sample applications.

B.1 Errors Related to the Desktop System

Errors can arise when any of the following conditions exists:

- The TP Desktop Connector client program node does not have the network software functioning correctly.
- The TP Desktop Connector client program node does not have the network in the directory search path.
- The TP Desktop Connector client program node has insufficient disk space.

B.1.1 Errors on OpenVMS Desktops

If errors occur in running the Motif Avertz program, verify the following:

- The `m_avertz.uid` file is in the directory from which you run the `m_avertz` application.
- The `m_avertz.dat` file (your resources file) is located in your home directory.

If you encounter font-support problems running the program, you can modify the fonts used by editing the `m_avertz` resources file (`m_avertz.dat` in the user's home directory).

B.1.2 Errors on Tru64 UNIX Desktops

If errors occur in running the Motif Avertz program, verify the following:

- The `m_avertz.uid` file is in the directory from which you run the `m_avertz` application.
- The `m_avertz` file (your resources file) is located in your home directory.

If you are installing this application once for use by many users, make sure that the users copy `m_avertz` to their home directories.

If you encounter font-support problems running the program, modify the fonts used by editing the m_avertz resources file (m_avertz in the user's home directory).

B.2 Errors Related to the ACMS System

If you have used the client services sample to communicate with the ACMS system, errors will occur if any of the following conditions exists:

- The TP Desktop Connector Gateway for ACMS system directory ACMSDI\$EXAMPLES, ACMSDI\$EXAMPLES_AVERTZ, or ACMSDI\$EXAMPLES_ADD is protected against read access.
- The TP Desktop Connector Gateway for ACMS system does not have the sample files installed.
- The TP Desktop Connector Gateway for ACMS system does not have the network software functioning correctly.
- The TP Desktop Connector Gateway for ACMS system is unavailable.
- The TP Desktop Connector Gateway for ACMS system name is invalid.
- The TP Desktop Connector Gateway for ACMS system is not running the ACMS software.
- The TP Desktop Connector Gateway for ACMS system has not invoked ACMSDI\$STARTUP.COM and ACMS/START SYSTEM.
- The TP Desktop Connector Gateway for ACMS software is not installed or is improperly installed.
- The TP Desktop Connector Gateway for ACMS system IVP failed.

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