COMPAQ

Software Product Description

PRODUCT NAME: ***Compaq TP Desktop Connector*** **Version 3.1A SPD 34.81.18**

DESCRIPTION

The *Compaq TP Desktop Connector* is a set of software products that enable desktop system users (clients) to access *Compaq ACMS*, *Compaq ACMSxp*, or *Compaq Portable TP* transaction processing systems from their native desktop environment.

There are three *TP Desktop Connector* options. They are packaged according to the transaction processing system they support.

- *TP Desktop Connector* for *ACMSxp*
- *TP Desktop Connector* for *ACMS*
- *TP Desktop Connector* for *Portable TP*

The following charts list the clients and network transports supported for each of the *TP Desktop Connector* options:

TP Desktop Connector* for *ACMSxp

Clients	Networks
Windows 95™ Windows 98	TCP/IP
Windows NT®	TCP/IP

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TP Desktop Connector* for *ACMS

Clients	Networks
Microsoft® Windows® DOS	*DECnet* TCP/IP IPX/SPX X.25
Windows 95 Windows 98	*DECnet* TCP/IP
Windows NT	*DECnet* TCP/IP
Macintosh®	TCP/IP Dial-in
Compaq Tru64 UNIX	*DECnet* TCP/IP
Compaq OpenVMS	*DECnet* TCP/IP

TP Desktop Connector* for *Portable TP

Clients	Networks
Windows 95 Windows 98	TCP/IP
Windows NT	TCP/IP

The *TP Desktop Connector* options include one or more UNSUPPORTED software components, which are clearly identified in this Software Product Description. These software components are included because they may be useful for the user; however, they are *not* supported by Compaq Customer Service Centers. Inclusion of these software components does not constitute a commitment from Compaq that they will continue to be provided in this product.

Certain third-party products can be used in conjunction with the *TP Desktop Connector* options and are mentioned in this SPD. Third-party products such as those listed are not provided by this product, nor are they directly supported by this product.

In general, Compaq does not directly support any third-party products for use with the *TP Desktop Connector* options. However, appropriate versions of certain third-party products have been tested and certified to be appropriate for use with this product. The *Optional Software* section of this document contains a list of these products.

Features: *TP Desktop Connector* for *ACMS*

Features are described for the following areas:

- Development environment
- Runtime system
- Network support
- Management and control
- Documentation

Development Environment

The *TP Desktop Connector* for *ACMS* option provides a set of application programming interfaces, along with support libraries, that allow software programs to interact with *ACMS* applications as authenticated clients. These interfaces allow programmers to write client programs without requiring extensive knowledge of programming *ACMS* or network communications.

The *TP Desktop Connector* for *ACMS* option provides application programming interfaces for the Microsoft Windows, DOS, Windows 95, Windows 98, Windows NT, Macintosh, *OpenVMS*, and *Tru64 UNIX* environments. These client services allow the desktop programmer to develop programs that:

- Sign in to the *TP Desktop Connector* gateway for client authentication
- Select *ACMS* tasks for execution under the control of the *ACMS* Execution Controller
- Respond to callbacks from the *ACMS* system as part of *ACMS* task exchange steps (forms processing)
- Sign out of the *TP Desktop Connector* gateway

There are five different programming interfaces available:

- Automation
- C-language
- Java™
- Client Services
- Client Services for Macintosh

Automation Interface

The Automation interface supports any desktop tool or Microsoft Office product that supports Automation. *ACMS* tasks are presented as Automation objects.

C-language Interface

The C-language interface supports any desktop tools that support a C-callable interface. *ACMS* TP tasks are presented as callable C procedures.

Java Interface

The Java interface supports any desktop tools that support Java. *ACMS* TP tasks are presented as Java objects.

Client Services Interface

The portable client interface provides support for three models of application development:

- Blocking interface where execution of the program is blocked during execution of the *TP Desktop Connector* gateways, for example, Microsoft COBOL on DOS.
- Nonblocking event-driven interface to accommodate such nonblocking environments as Motif® or Microsoft Windows.
- Forced nonblocking that facilitates exchange I/O between *ACMS* tasks and desktop tools that do not support call backs.

The services provided by the portable client for Microsoft Windows, Windows 95, Windows 98, Windows NT, DOS, *Tru64 UNIX*, and *OpenVMS* address the areas of:

- Sign in/out services—establish and terminate sessions.
- Call processing services—send and receive application requests
- Presentation procedure routines—called automatically by the portable client to facilitate forms processing for the desktop user (not supported in a forced nonblocking environment).

Client Services for Macintosh Interface

This API supports the Data Access Manager (DAM) facility of the Macintosh operating system. A special DAM device driver (DDEV) provides services for client execution.

These services are synchronous; program control returns only when service execution is complete. Nonblocking task execution is supported because the DBExec service completes as soon as the task is submitted for execution to *ACMS*. The DBState service is used to poll for task completion.

Runtime System

Client runtime libraries are provided for the client operating systems to support the execution of client programs that use the product's services. The client for Macintosh includes external functions for HyperCard and 4th DIMENSION® applications.

The *TP Desktop Connector* gateway is an asynchronous, multithreaded, runtime component residing on any *OpenVMS* node, regardless of the location of *ACMS* applications being called by desktop clients. There is generally one gateway on a node. The gateway is an *ACMS* agent that performs the following functions:

- Authenticates desktop clients (*ACMS* submitters).
- Calls tasks for users; this can include local and remote *ACMS* task selection.
- Communicates with the desktop client program as part of task exchange step (desktop presentation procedure) execution. This function is supported by only the client services and client services for Macintosh interfaces.
- Provides information to the system manager concerning *TP Desktop Connector* submitters (For Client Servers interface only).

Network Support

The following network connectivity software is supported (see Software Requirements) for desktop nodes connected to a Local Area Network (LAN) or a Wide Area Network (WAN):

- AppleTalk®
- *DECnet*
- IPX/SPX
- TCP/IP
- X.25

Note

For *OpenVMS* clients, a communication module is provided for test purposes for Novell® NetWare® but it is UNSUPPORTED.

Management and Control

The *TP Desktop Connector* supports the following management and control features:

- The client interface reports errors from *ACMS* back to the desktop client program for local error handling.
- The client interface optionally logs error messages to a local desktop device file.
- Messages can be protected against sabotage or network corruption by adding Cyclic Redundancy Checking (CRC) for the client services and client services for Macintosh interfaces only.
- The gateway reports *ACMS* and desktop client errors to the *ACMS* software event logger.

- *OpenVMS* system managers can control desktop client access to *ACMS* and remove desktop clients from the *ACMS* system, using standard *ACMS* utilities.
- Provides a graphical user interface to manage parameters required for communication with *ACMS* tasks.

Documentation

The *TP Desktop Connector* for *ACMS* documentation set consists of the following:

- *Compaq TP Desktop Connector Getting Started*
- *Compaq TP Desktop Connector for ACMS Installation Guide*
- TPware Management GUI online help
- STDL online help
- Client Build Utility online help
- *Compaq TP Desktop Connector for ACMS Client Application Programming Guide*
- *Compaq TP Desktop Connector for ACMS Gateway Management Guide*
- *Compaq TP Desktop Connector for ACMS Client Services Reference Manual*
- *Compaq TP Desktop Connector Version 3.1A Release Notes*
- *4th DIMENSION Externals User's Guide* (online only)

Compaq TP Desktop Connector Getting Started

The *TP Desktop Connector Getting Started* document describes how to build and manage client applications that use the Automation, C-language, and Java interfaces.

Compaq TP Desktop Connector for ACMS Installation Guide

The *TP Desktop Connector for ACMS Installation Guide* provides information about installing the *TP Desktop Connector* for *ACMS* product and sample client applications.

TPware Management GUI online help

The TPware Management GUI online help describes the management tabs that the Management GUI provides for managing TPware products.

STDL online help

The STDL online help provides reference topics on X/Open STDL syntax.

Client Build Utility online help

The Client Build GUI online help describes a graphical user interface that makes it easier to create Automation and C clients.

Compaq TP Desktop Connector for ACMS Client Application Programming Guide

The *TP Desktop Connector for ACMS Client Application Programming Guide* describes how to develop and test client programs. It includes detailed information on components and functions, design and development guidelines, and interface information.

Compaq TP Desktop Connector for ACMS Gateway Management Guide

The *TP Desktop Connector for ACMS Gateway Management Guide* contains the information needed to manage the gateway on the system where the *ACMS* monitor resides and information on the network transports that can be used.

Compaq TP Desktop Connector for ACMS Client Services Reference Manual

The *TP Desktop Connector for ACMS Client Services Reference Manual* is a companion document to the *Application Programming and Gateway Management Guides*. The document contains a description of the client services and presentation procedures.

Compaq TP Desktop Connector Version 3.1A Release Notes

Release Notes (available online as part of the media kit) contains information specific to this release and information added after the production date for the other product documents.

4th DIMENSION Externals User's Guide

4th DIMENSION Externals User's Guide (available online as part of the media kit, on the Macintosh) contains information on how to use the Externals with 4th DIMENSION.

Features: *TP Desktop Connector* for *ACMSxp* & *TP Desktop Connector* for *Portable TP*

Features are described for the following areas:

- Development environment
- Runtime system
- Network support
- Management and control
- Documentation

Development Environment

The *TP Desktop Connector* for *ACMSxp* and *TP Desktop Connector* for *Portable TP* options provide a set of application programming interfaces, along with support libraries, that allow software programs to interact with *ACMSxp* or *Portable TP* applications as clients. These interfaces allow programmers to write client programs without requiring extensive knowledge of programming *ACMSxp*, *Portable TP*, or network communications.

Application programming interfaces are provided for Windows 95, Windows 98, and Windows NT environments. The programming interfaces allow the desktop programmer to develop programs that select *ACMSxp* or *Portable TP* tasks for execution. The application programming interfaces are:

- Automation
- C-language
- Java

Automation Interface

The Automation interface supports any desktop tool or Microsoft Office product that supports Automation. *ACMSxp* or *Portable TP* tasks are presented as Automation objects.

C-language Interface

The C-language interface supports any desktop tools that support a C-callable interface. *ACMSxp* or *Portable TP* tasks are presented as callable C procedures.

Java Interface

The Java interface supports any desktop tools that support Java. *ACMSxp* or *Portable TP* tasks are presented as Java objects.

Runtime System

Runtime libraries are provided for the client operating systems to support the execution of client programs.

Network Support

TCP/IP is supported for network connectivity.

Management and Control

The *TP Desktop Connector* supports the following management and control features:

- *ACMSxp* and *Portable TP* servers report back to the desktop client program for local error handling.
- The desktop client program can optionally log error messages to a local desktop device file.
- The server for *ACMSxp* and *Portable TP* outputs error reports to a server-specific log file on the server system.
- *ACMSxp* and DCE management and security services can be used to control clients.
- Provides a graphical user interface to manage parameters required for communication with *ACMSxp* or *Portable TP* tasks.

Documentation: *TP Desktop Connector for ACMSxp*

The documentation set for *TP Desktop Connector* for *ACMSxp* consists of the following:

- *Compaq TP Desktop Connector Getting Started*
- *Compaq TP Desktop Connector for ACMSxp Installation Guide*
- TPware Management GUI online help
- STDL online help
- Client Build Utility online help
- *Compaq TP Desktop Connector Version 3.1A Release Notes*

Compaq TP Desktop Connector Getting Started

The *TP Desktop Connector Getting Started* document describes how to build and manage client applications that use the Automation, C-language, and Java interfaces.

Compaq TP Desktop Connector for ACMSxp Installation Guide

The *TP Desktop Connector for ACMSxp Installation Guide* provides information about installing the *TP Desktop Connector* for *ACMSxp* product on desktop systems and configuring sample client applications.

TPware Management GUI online help

The TPware Management GUI online help describes the management tabs that the Management GUI provides for managing TPware products.

STDL online help

The STDL online help provides reference topics on X/Open STDL syntax.

Client Build Utility online help

The Client Build GUI online help describes a graphical user interface that makes it easier to create Automation and C clients.

Compaq TP Desktop Connector Version 3.1A Release Notes

The *Release Notes* (available online as part of the media kit) contains information specific to this release and information added after the production date for the other product documents.

Documentation: *TP Desktop Connector for Portable TP*

The documentation set for *TP Desktop Connector* for *Portable TP* consists of the following:

- *Compaq TP Desktop Connector Getting Started*
- *Compaq TP Desktop Connector for Portable TP Installation Guide*
- TPware Management GUI online help

- STDL online help
- Client Build Utility online help
- *Compaq TP Desktop Connector Version 3.1A Release Notes*

Compaq TP Desktop Connector Getting Started

The *TP Desktop Connector Getting Started* document describes how to build and manage client applications that use the Automation, C-language, and Java interfaces.

Compaq TP Desktop Connector for Portable TP Installation Guide

The *TP Desktop Connector for Portable TP Installation Guide* provides information about installing the *TP Desktop Connector* for *Portable TP* product on desktop systems and configuring sample client applications.

TPware Management GUI online help

The TPware Management GUI online help describes the management tabs that the Management GUI provides for managing TPware products.

STDL online help

The STDL online help provides reference topics on X/Open STDL syntax.

Client Build Utility online help

The Client Build GUI online help describes a graphical user interface that makes it easier to create Automation and C clients.

Compaq TP Desktop Connector Version 3.1A Release Notes

The *Release Notes* (available online as part of the media kit) contains information specific to this release and information added after the production date for the other product documents.

HARDWARE REQUIREMENTS: *TP Desktop Connector* for *ACMS*

Servers, and Client for *OpenVMS*

- Any Alpha hardware configuration that supports *OpenVMS* Version 6.2, 7.1, or 7.2
- Any VAX hardware configuration that supports *OpenVMS* Version 5.5-2, 6.2, 7.1, or 7.2

Client for Microsoft Windows and DOS

- An Intel® 80386-, 80486-, or Pentium®-based personal computer
- A minimum of 640KB system memory. At least 1 megabyte is strongly recommended. For Microsoft Windows client applications at least 4 megabytes is required.

Client for Windows 95 or Windows 98

- Intel 80386-, 80486-, or Pentium-based system capable of running Windows 95 or Windows 98.

Client for Windows NT

- Intel 80386-, 80486-, or Pentium-based system capable of running Windows NT or,
- Alpha-based system capable of running Windows NT.

Client for Macintosh

- Any Macintosh computer capable of running the supported version of the Macintosh Operating System.
- Power Macintosh computers using Macintosh emulation mode.

HARDWARE REQUIREMENTS: *TP Desktop Connector* for *ACMSxp* & *TP Desktop Connector* for *Portable TP*

Client for Windows 95 or Windows 98

- Intel 80386-, 80486-, or Pentium-based system capable of running Windows 95 or Windows 98.

Client for Windows NT

- Intel 80386-, 80486-, or Pentium-based system capable of running Windows NT or,
- Alpha-based system capable of running Windows NT.

***Compaq TP Desktop Connector* Version 3.1A** **SPD 34.81.18**

SOFTWARE REQUIREMENTS: *TP Desktop Connector* for *ACMS*

***OpenVMS* Server**

- If using client services interface, *ACMS* for *OpenVMS* Versions 3.3B—4.2-2 (SPD 25.50.xx)
- If using Automation, C-language, or Java interfaces, *ACMS* Version 4.2-2 for *OpenVMS* (SPD 25.50.xx)
- If using *DECnet*:
  - *DECnet–VAX* Versions 5.5—6.1 (SPD 48.48.xx) or,
  - *DECnet* for *OpenVMS* Alpha Version 6.1 (SPD 42.25.xx) or,
  - *DECnet* for *OpenVMS* VAX and Alpha Version 6.2 (SPD 48.48.xx)
- If using *PATHWORKS* or AppleTalk, reference the *PATHWORKS* Version 6.0A for DOS and Windows SPD for that client for specific software requirements
- If using TCP/IP:
  - *Compaq TCP/IP Services* for *OpenVMS* Version 4.0—4.2 (SPD 46.46.xx) or,
  - TGV MultiNet® Version 3.3 Rev A
- If using NetWare, an IPX stack must be installed on the server system; this is available as software services within the Leverage Host Services Version 4.0 product from Emulex™ Corporation.
- If using X.25, *PATHWORKS* Version 6.0 for DOS and Windows (SPD 55.07.xx)

Client for Microsoft Windows and DOS

- Microsoft DOS Version 6.22
- Microsoft Windows Version 3.1 or Microsoft Windows for Workgroups Version 3.11
- If using DECnet, *PATHWORKS* for DOS and Windows Version 6.0A (SPD 55.07.xx)
- If using TCP/IP:
  - Microsoft Windows requires *PATHWORKS* for DOS and Windows Version 6.0A (SPD 55.01.xx)
  - Microsoft Windows for Workgroups include the necessary Windows Sockets
- If using NetWare, Novell's NetWare DOS Client Versions 3.x, 4.0, or *PATHWORKS* Version 6.0A for DOS and Windows
- If using X.25, *PATHWORKS* Version 6.0A for DOS and Windows (SPD 55.07.xx)

Client for Windows 95 or Windows 98

- Windows 95 Version 4.00.950 B or Windows 98
- If using Automation, C-language, or Java interfaces, Visual C++® Version 5.0 (required for development only)
- If using the Java interface, one of the following:
  - Sun Microsystems Java Development Kit (JDK) Version 2.0 or later
  - Microsoft SDK for Java Version 3.1, build 3167 or later
- If using *DECnet*, *PATHWORKS* 32 Version 7.0A (SPD 56.33.xx)
- If using TCP/IP, Windows sockets are provided with Windows 95 or Windows 98

Client for Windows NT

- Windows NT operating system Version 4.0 for Alpha or Intel
- If using Automation, C-language, or Java interfaces:
  - Windows NT Version 4.0 with Service Pack 4
  - Visual C++ Version 5.0
- If using the Java interface, one of the following:
  - Sun Microsystems Java Development Kit (JDK) Version 2.0 or later
  - Microsoft SDK for Java Version 3.1, build 3167 or later
- If using *DECnet*, *PATHWORKS* 32 Version 7.0A (SPD 56.33.xx)
- If using TCP/IP, Windows NT Windows Sockets for TCP/IP are provided with Windows NT

Client for Macintosh

- Macintosh Operating System Versions 7.0—7.5
- If using TCP/IP, MacTCP® Tool (available from Apple® Computer, Inc.)
- If using dial-in (serial communication), a serial communication tool is needed (for example: Serial Tool from Apple Computer, Inc.)

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Client for *OpenVMS*

- *OpenVMS* VAX Operating System Versions 5.5-2, 6.2, 7.1, or 7.2 (SPD 25.01.xx) or *OpenVMS* Alpha Operating System Versions 6.2, 7.1, or 7.2 (SPD 41.87.xx)
- If using *DECnet*:
  - *DECnet–VAX* Versions 5.5—6.1 (SPD 48.48.xx) or,
  - *DECnet* for *OpenVMS* Alpha Version 6.1 (42.25.xx) or,
  - *DECnet* for *OpenVMS* VAX and Alpha Version 6.2 (SPD 48.48.xx)
- If using TCP/IP:
  - *Compaq TCP/IP Services* for *OpenVMS* VAX Version 4.0—4.2 (SPD 25.A4.xx) or,
  - *Compaq TCP/IP Services* for *OpenVMS* Alpha Version 4.0—4.2 (SPD 46.46.xx) or,
  - TGV MultiNet Version 3.3 Rev A

Client for *Tru64 UNIX*

- *Tru64 UNIX* Operating System Version 4.0B (SPD 41.61.xx)
- If using TCP/IP, all components are provided by the *Tru64 UNIX* operating system

SOFTWARE REQUIREMENTS: *TP Desktop Connector* for *ACMSxp* & *TP Desktop Connector* for *Portable TP*

***ACMSxp* Server**

At least one of the following *ACMSxp* products:

- *ACMSxp* Version 3.1 or 3.2 for *OpenVMS* (SPD 60.53.xx)
- *ACMSxp* Version 3.1 or 3.2 for Windows NT (SPD 60.52.xx)
- *ACMSxp* Version 3.1 or 3.2 for *Tru64 UNIX* (SPD 50.66.xx)
- *ACMSxp* Version 3.1 for HP-UX® (SPD 70.15.xx)
- *ACMSxp* Version 3.1 for Solaris® (SPD 70.35.xx

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***Portable TP* Server**

Portable TP Version 2.0 for Windows NT (SPD 70.26.xx)

Client for Windows 95 or Windows 98

- Windows 95 Version 4.00.950 B or Windows 98
- Visual C++ Version 5.0 (required for development only)
- If using the Java interface, one of the following:
  - Sun Microsystems Java Development Kit (JDK) Version 2.0 or later
  - Microsoft SDK for Java Version 3.1, build 3167 or later
- DCOM for Windows 95 or Windows 98, available from www.microsoft.com/com

Client for Windows NT

- Windows NT Version 4.0 with Service Pack 4
- Visual C++ Version 5.0 (required for development only)
- If using the Java interface, one of the following:
  - Sun Microsystems Java Development Kit (JDK) Version 2.0 or later
  - Microsoft SDK for Java Version 3.1, build 3167 or later
- If using DCE, *Compaq DCE Runtime Services* Version V2.0 for Windows NT Alpha/Intel (SPD 53.43.xx)
- If using Microsoft RPC, all components are provided with the operating system
- Required for development only, *Compaq DCE Application Developer's* Kit Version 2.0 for Windows NT Alpha/Intel (SPD 53.43.xx)

SOFTWARE LICENSING INFORMATION

All *TP Desktop Connector* options offer Concurrent Use and Personal Use licensing.

- Concurrent Use Licensing - The number of Concurrent Use licenses determines the number of concurrent logins to any TP application. This style of licensing works best and is the most cost effective for deployments where users primarily login to only one TP application at a time.

- Personal Use Licensing - The number of Personal Use licenses determines the numbers of identified individuals that can access multiple TP applications. The main difference between Personal Use and Concurrent Use licensing is that Personal Use license permits identified individuals to login to multiple TP applications at the same time. This style of licensing works best and is the most cost effective for deployments where users require simultaneous to access multiple TP applications.

This software is furnished only under a license. For more information about Compaq's licensing terms and policies, contact your local Compaq office.

LICENSE MANAGEMENT FACILITY SUPPORT (LMF)

The *TP Desktop Connector* for *ACMS* option supports the *OpenVMS* License Management Facility. License units for this product are allocated on a Concurrent Use or Personal Use basis.

A Concurrent Use license allows one login to a *TP Desktop Connector* gateway.

A Personal Use license allows one identified individual to have multiple logins to the same *TP Desktop Connector* gateway.

For more information on the License Management Facility, refer to the *OpenVMS* Operating System Software Product Description (SPD 25.01.xx) or the License Management Facility manual of the *OpenVMS* Operating System documentation set.

For more information about the Compaq's licensing terms and policies, contact your local Compaq office.

CLUSTER ENVIRONMENT: *TP Desktop Connector* for *ACMS*

This layered product is fully supported when installed on any valid and licensed VMScluster configuration without restrictions. The *HARDWARE REQUIREMENTS* sections of this product's Software Product Description details any special hardware required by this product.

VMScluster configurations are fully described in the VMScluster Software Product Description (SPD 29.78.xx) and include CI, Ethernet, and Mixed Interconnect configurations.

OPTIONAL SOFTWARE: *TP Desktop Connector* for *ACMS*

Client for Microsoft Windows and DOS

- A program module assembler to create the DOS programming libraries and other libraries that create a client program. Assemblers are available from Microsoft.
- C compiler compatible with Microsoft Visual C++ Version 1.52
- Microsoft COBOL Version 5.0 (Microsoft Corporation). MS®-COBOL is required to modify and relink the command line sample application for DOS.
- Microsoft Windows Software Development Kit Version 3.1 or 3.11 (Microsoft Corporation)
- Visual Basic® Version 4.0 (Microsoft Corporation)
- PowerBuilder® Version 5.0 (Powersoft Corporation)
- SQLWindows® (Gupta Corporation)
- Smalltalk® (ParcPlace® Systems, Inc.)
- JAM® (JYACC)
- OpenUI™ (Open Software Associates)

Client for Windows 95 or Windows 98

- If using the Automation interface, any desktop tool or Microsoft Office product that supports Automation
- If using the Java interface, any Java Integrated Development Environment (IDE) compatible with Sun Microsystems JDK Version 2.0, or Microsoft SDK for Java Version 3.1, build 3167
- If using the C-language interface, any desktop tool that supports a C-callable interface.
- If using the client services interface:
  - Visual Basic Versions 4.0 or 5.0
  - Visual C++ Versions 4.0 or 5.0 (Microsoft Corporation)
  - PowerBuilder Version 5.0
  - Delphi™ Version 2.0 (Borland® International, Inc.)
  - Developer/2000™ Release 2.0 (Oracle Corporation)

Client for Windows NT

- If using the Automation interface, any desktop tool or Microsoft Office product that supports Automation
- If using the Java interface, any Java Integrated Development Environment (IDE) compatible with Sun Microsystems JDK Version 2.0, or Microsoft SDK for Java Version 3.1, build 3167
- If using the C-language interface, any desktop tool that supports a C-callable interface.
- If using the client services interface:
  - Visual Basic Versions 4.0 or 5.0
  - Visual C++ Versions 4.0 or 5.0
  - Smalltalk
  - PowerBuilder Version 5.0
  - Delphi Version 2.0
  - Developer/2000 Release 2.0

Client for Macintosh

- HyperCard® (Apple Computer, Inc.)
- Macintosh Programmer's Workshop (MPW™)
  Development Environment Versions 3.2—3.3 (Apple Computer, Inc.)
- Macintosh Programmer's Workshop C Version 3.1 (Apple Computer, Inc.)
- 4th DIMENSION Versions 2.3—3.1 (ACI US Inc.)
- Smalltalk
- Open Interface™ (Neuron Data, Inc.)
- Think C Version 4.0—4.1 (Symantec® Corporation)

Client for *OpenVMS*

VAX

- *DECforms* Version 2.2 (SPD 29.90.xx)
- *Compaq C* for *OpenVMS* VAX Version 5.7 (SPD 25.38.xx)
- *Compaq DECset* Release 11 for *OpenVMS* VAX Systems (SPD 27.07.xx)

- *DECwindows Motif* Version 1.1 for *OpenVMS* (SPD 42.19.xx)

Alpha

- *DECforms* Version 2.2 (SPD 29.90.xx)
- *Compaq C* Version 1.2 for *OpenVMS* Alpha Systems (SPD 42.26.xx)
- *Compaq DECset* Release 11 for *OpenVMS* Alpha Systems (SPD 42.29.xx)
- *DECwindows Motif* Version 1.1 for *OpenVMS* Alpha (SPD 42.19.xx)

Client for *Tru64 UNIX*

- *Compaq C++* Version 5.4 for *Tru64 UNIX* (SPD 41.91.xx)

OPTIONAL SOFTWARE: *TP Desktop Connector* for *ACMSxp* & *TP Desktop Connector* for *Portable TP*

- If using the Automation interface, any desktop tool or Microsoft Office product that supports Automation
- If using the Java interface, any Java Integrated Development Environment (IDE) compatible with Sun Microsystems JDK Version 2.0, or Microsoft SDK for Java Version 3.1, build 3167
- If using the C-language interface, any desktop tool that supports a C-callable interface.

GROWTH CONSIDERATIONS

The minimum hardware/software requirements for any future version of this product may be different from the requirements for the current version.

DISTRIBUTION MEDIA

All product options are available on CD–ROM.

The *TP Desktop Connector* for *ACMS* option is also available as part of the *OpenVMS* Software Product Library on CD–ROM.

The documentation for *TP Desktop Connector* for *ACMS* is also available as part of the *OpenVMS* Online Documentation Library on CD–ROM.

YEAR 2000 READY

This product is Year 2000 Ready.

Year 2000 Ready is defined: "Year 2000 Ready" products are defined by Compaq as products capable of accurately processing, providing, and/or receiving date data from, into and between the twentieth and the twenty-first centuries, and the years 1999 and 2000, including leap year calculations, when used in accordance with the associated product documentation and provided that all hardware, firmware and software used in combination with such products properly exchange accurate date data with the products.

For additional information visit the DIGITAL Brand area on Compaq's Year 2000 Ready web site located at http://ww1.digital.com/year2000/warranty.asp.

To ensure that this product is Year 2000 Ready, the following testing process/methods were utilized:

This product does not require specific Year 2000 testing since no date manipulation is performed.

To ensure that this product interoperates properly with other hardware and software, the following testing process/methods were utilized:

This product does not require Year 2000 interoperability testing since date data is passed without manipulation.

SOFTWARE WARRANTY

This software is provided by Compaq with a 90 day conformance warranty in accordance with the Compaq Warranty terms applicable to the license purchase.

ORDERING INFORMATION

TP Desktop Connector* for *ACMS

	Part Number
Concurrent Use License	QL-GZGAL-3*
Personal Use License	QL-GZGAL-2B
Media & Documentation (CD–ROM)	QA-GZGAA-H8
Documentation Only	QA-GZGAA-GZ
Services	QT-GZG**-**

TP Desktop Connector* for *ACMSxp

	Part Number
Concurrent Use License	QL-644AL-3*
Personal Use License	QL-644AL-2B
Media & Documentation (CD–ROM)	QA-644AA-H8
Documentation Only	QA-644AA-GZ
Services	QT-644**-**

TP Desktop Connector* for *Portable TP

	Part Number
Concurrent Use License	QL-645AL-3*
Personal Use License	QL-645AL-2B
Media & Documentation (CD–ROM)	QA-645AA-H8
Documentation Only	QA-645AA-GZ
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