Software Product Description

PRODUCT NAME: HP TP Desktop Connector V3.2 **SPD 34.81.21**

DESCRIPTION

The HP TP Desktop Connector is a set of layered software product that enables desktop system users (clients) to access HP ACMS processing systems from the native desktop system environment.

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

TP Desktop Connector for ACMS

Clients	Networks
Windows XP	TCP/IP
Windows NT	TCP/IP
Windows 2000	TCP/IP
Windows 2003	TCP/IP
HP Tru64 UNIX	TCP/IP
HP OpenVMS	DECnet TCP/IP

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, HP 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
- Management and control

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 Windows XP, Windows NT, Windows 2000, Windows 2003 OpenVMS, and Tru64 UNIX environments. These client services allow the desktop programmer to develop programs that:

- Sign in to the TP Desktop 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 Gateway

There are four different programming interfaces available:

- Automation
- C-language
- Java
- Client Services

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 tasks are presented as callable C procedures.

Java Interface

- Sun Microsystems Java Development Kit (JDK) Java 2 Version 1.2.2 or 1.3

Client Services Interface

The 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 Gateways.
- Nonblocking support of exchange steps.
- Forced nonblocking that facilitates exchange I/O between ACMS tasks and Visual BASIC clients.

The services provided by the portable client interface for Windows XP, Windows NT, Windows 2000, Windows 2003 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).

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 TP Desktop 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 the client services only.
- Provides information to the system manager concerning TP Desktop Connector submitters.

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 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.

HARDWARE REQUIREMENTS: TP Desktop Connector for ACMS

Servers, and Client for OpenVMS

- Any Alpha hardware configuration that supports OpenVMS Version 6.2 or 7.3-2.
- Any VAX hardware configuration that supports OpenVMS Version 6.2 or 7.3.

Client for Windows XP, Windows NT, Windows 2000, Windows 2003

- Pentium-class system capable of running Windows XP, Windows NT or Windows 2000, Windows 2003

SOFTWARE REQUIREMENTS: TP Desktop Connector for ACMS

OpenVMS Server

- If using client services, Automation, or C-langugage interface, a supported version of ACMS for OpenVMS (SPD 25.50.xx) is required.
- If using DECnet, see the following table for the supported version of DECnet or DECnet-Plus for each version of OpenVMS:

OpenVMS	DECnet	DECnet-Plus[1]
Alpha V6.2	V6.2	V6.3
Alpha V7.2-2	V7.2	V7.2-1
Alpha V7.3	V7.3	V7.3
VAX V6.2	V6.2	V6.3
VAX V7.2	V7.2	V7.2
VAX V7.3	V7.3	V7.3

[1]When using DECnet-Plus, the Transport Layer must be configured to use the Network Services Protocol (NSP), as ACMS restricts node names to a maximum of six characters.

- If using TCP/IP, see the following table for the supported version of TCP/IP Services for OpenVMS for each version of OpenVMS:

OpenVMS	TCP/IP Services
Alpha V6.2	V4.2
Alpha V7.2-2	V5.1
Alpha V7.3	V5.1
VAX V6.2	V4.2
VAX V7.2	V5.1
VAX V7.3	V5.1

Client for Windows XP, Windows NT V4.0, and Windows 2000, Windows 2003

- If using Automation or C-language interfaces, Visual C++ Version 6.0 (required for development only)
- If using the Java interface, one of the following:
  - — Sun Microsystems Java Development Kit (JDK) Java 2 Version 1.2.2 or 1.3
  - — Java Visual J++ 6.0

Client for OpenVMS

- OpenVMS VAX Operating System Versions 6.2 or 7.3 (SPD 25.01.xx) or OpenVMS Alpha Operating System Versions 6.2 or 7.3-2 (SPD 25.01.xx)
- If using DECnet, see the following table for the supported version of DECnet or DECnet-Plus for each version of OpenVMS:

OpenVMS	DECnet	DECnet-Plus[1]
Alpha V6.2	V6.2	V6.3
Alpha V7.2-2	V7.2	V7.2-1
Alpha V7.3	V7.3	V7.3
VAX V6.2	V6.2	V6.3
VAX V7.2	V7.2	V7.2
VAX V7.3	V7.3	V7.3

- If using TCP/IP, see the following table for the supported version of TCP/IP Services for OpenVMS for each version of OpenVMS:

OpenVMS	TCP/IP Services
Alpha V6.2	V4.2
Alpha V7.2-2	V5.1
Alpha V7.3	V5.1
VAX V6.2	V4.2
VAX V7.2	V5.1
VAX V7.3	V5.1

Client for Tru64 UNIX

- Tru64 UNIX Operating System Version 4.0G (SPD 41.61.xx)
- Tru64 UNIX Operating System Version 5.1A (SPD 70.70.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 licensing terms and policies from HP, contact your local HP 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 licensing terms and policies from HP, contact your local HP 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 Windows XP, Windows NT, Windows 2000 and Windows 2003

- 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 Java Development Kit (JDK) Java 2 Version 1.2-2 or 1.3 or Microsoft Visual J++ Version 6.0
- If using the C-language interface, any desktop tool that supports a C-callable interface.
- If using the client services interface:
  - — Visual BASIC Version 6.0
  - — Visual C++ Version 6.0

Client for OpenVMS

VAX

- DEC C for OpenVMS VAX Version 5.7 (SPD 25.38.xx)
- DECwindows Motif Version 1.2-6 for OpenVMS (SPD 42.19.xx)

Alpha

- HP C Version 1.2 for OpenVMS Alpha Systems (SPD 42.26.xx)
- DECwindows Motif Version 1.2-6 for OpenVMS Alpha (SPD 42.19.xx)

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

Available on CD-ROM.

SOFTWARE WARRANTY

This software is provided by HP with a 90 day conformance warranty in accordance with the HP 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**-**

* Denotes variant fields. For additional information on available licenses, services, and media, refer to the appropriate price book.

The above information is valid at time of release. Please contact your local HP office or Business Partner for the most up-to-date information.

SOFTWARE PRODUCT SERVICES

A variety of service options are available from HP. For more information contact your local HP office.