



# Software Product Description

**PRODUCT NAME: HP TP Desktop Connector, Version 5.1B**

**SPD 34.81.26**

## DESCRIPTION

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

The following chart lists the clients and network transports supported for the TP Desktop Connector:

### TP Desktop Connector for ACMS

Clients	Networks
Windows Vista Enterprise	TCP/IP
Windows 2008	TCP/IP
Windows XP	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 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. 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
- TPware .NET support

### 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 Vista Enterprise, Windows 2008, Windows XP, Windows 2000, Windows 2003, OpenVMS, and Tru64 UNIX environments. These client services allow the desktop programmer to develop programs that:

- Sign into 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 1.4.2

#### *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 Vista Enterprise, Windows 2008, Windows XP, 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, multi-threaded, 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.

#### ***TPware .NET Support***

TPware .NET is an interface between the Windows based client applications and the TPware Gateway server, which in turn communicates with the ACMS system. It belongs to the TPware product family and manages and monitors the ACMS applications from the Windows platform. It has a set of API Client Services that are referenced by the Windows based applications to communicate with the ACMS system on OpenVMS. These API Client Services form the TPware .NET Integration Class Library. The TPware .NET and the TPware Gateway server are the points of contact on the respective Windows and OpenVMS platforms.

Following are the features supported by the TPware .NET framework:

- Support for Desktop as well as Web-based applications using ASP .NET in any of the languages supported by the Microsoft .NET Framework.
- TPware .NET Integration Library components support the Blocking and Forced Non-blocking communication modes.
- TPware .NET supports the NO I/O mode. In the NO I/O mode, forms are not used and data is passed directly to the ACMS system.

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

**Servers and Client for OpenVMS**

- Any Integrity server hardware configuration that supports OpenVMS Version 8.2-1 or later.
- Any Alpha hardware configuration that supports OpenVMS Version 8.2 or later.

**Client for Windows VISTA, Windows 2008, Windows XP, Windows 2003, and Windows 2000**

- Pentium-class system capable of running Windows VISTA, Windows 2008, Windows XP, Windows 2003, and Windows 2000

**Disk Space Requirements**

On Windows VISTA, Windows 2008, Windows XP, Windows 2003, and Windows 2000 client, the required disk space is dependent on the options installed:

**X86 System**

Development system+Runtime system	5.8 MB
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The counts for Windows VISTA, Windows 2008, Windows XP, Windows 2003, and Windows 2000 refer to the disk space required on the disk on which TP Web Connector is installed. The sizes are approximate; actual sizes may vary depending on the user's system environment, configuration, and software options.

For the OpenVMS backend server, the required disk space is dependent on the options installed:

	Integrity servers	Alpha
TP Desktop Connector gateway	1,672 blocks	1,313 blocks
Samples	33 blocks	33 blocks

The counts for OpenVMS refer to the disk space required on the system disk. The sizes are approximate; actual sizes may vary depending on the user's system environment, configuration, and software options.

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

**OpenVMS Server**

- If using client services, Automation, or C-language interface, a supported version of ACMS for OpenVMS (SPD 82.40.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 <sup>1</sup>
Integrity servers V8.2-1 or later	V8.2-1	V8.3
Alpha V8.2 or later	V8.2	V8.3

<sup>1</sup>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
Integrity servers V8.2-1 or later	V5.6
Alpha V8.2 or later	V5.6

**Client for Windows VISTA, Windows 2008, Windows XP, Windows 2003 and Windows 2000**

- 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 1.4.2.
  - Java Visual J++ 6.0

For Windows VISTA, use Visual C++ Version 8.0 and Java Visual J++ Version 8.0.

**Client for OpenVMS**

- OpenVMS Integrity server Operating System Version 8.2-1 or later (SPD 82.35.xx)
- OpenVMS Alpha Operating System Version 8.2 or later (SPD 82.35.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 <sup>1</sup>
Integrity servers V8.2-1 or later	V8.2-1	V8.3
Alpha V8.2 or later	V8.2	V8.3

- 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
Integrity servers V8.2-1 or later	V5.6
Alpha V8.2 or later	V5.6

#### 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

Please refer to the ORDERING INFORMATION section.

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

##### Client for Windows VISTA, Windows 2008, Windows XP, Windows 2003, and Windows 2000

- 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 1.4.2 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

For Windows VISTA, use Microsoft Visual J++ Version 8.0 and Visual C++ Version 8.0.

#### Client for OpenVMS

##### Alpha

- HP C Version 6.5A for OpenVMS Alpha Systems (SPD 25.38.xx)
- HP DECwindows Motif Version 1.5 for OpenVMS Alpha (SPD 81.70.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

This product can be downloaded from the TP Desktop Connector page on the HP web site at <http://h71000.www7.hp.com/commercial/tpdesktop/>.

#### 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

A valid ACMS product license provides the right to use the TP Desktop Connector product. A separate license is not required. The media and documentation is only available by internet download.

#### SOFTWARE PRODUCT SERVICES

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

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