



Software Product Description

PRODUCT NAME: DIGITAL Database Web Connector Version 1.0

SPD 64.90.00

DESCRIPTION

DIGITAL Database Web Connector is software derived from the DIGITAL ACMSxp product that has been customized to optimize web applications accessing databases. Database Web Connector provides for optimized thread usage when executing procedures accessing databases. This is done by providing a set of dedicated threads for the execution of these procedures and by providing customer-settable limits on the number of threads used for the execution of these procedures. By setting a limit on the number of concurrently executing threads accessing a database, contention and memory usage can be reduced on the system executing the database server.

Database Web Connector has been tested for use with Microsoft® Internet Information Server (IIS) and supports the use of either the ISAPI interface or Active Server Pages interface.

Database Web Connector introduces a new type of *stub* that allows clients to invoke database access procedures written in C. The stubs consist of an *input adapter* and an *output adapter*. The input adapter translates a call from a C procedure (using the C input adapter) or an Automation client such as VBScript or JScript (using the Automation input adapter) into a standard call.

The output adapter then translates the standard call into a C call (using the C output adapter) that invokes database access procedures. Within the standard call, Database Web Connector provides a *control point*. This control point is used to manage calls from clients to database procedures. A dedicated pool of threads for the execution of one or more database access procedures can be set up. A limit can be optionally set on the number of threads within the thread pool. If the number

of clients making calls to procedures using the thread pool exceeds the limit, these additional calls are queued until a thread is available.

Features

- Exposes C database access procedures as Automation objects for access from VBScript or JScript within Active Server Pages.
- Exposes C database access procedures as callable procedures for access from ISAPI applications.
- Supports the multithreaded environment within IIS.
- Uses the Structured Transaction Definition Language (STDL) to define the interface to a group of database access procedures called a processing group.
- Provides a management utility to set the thread execution characteristics for each *processing group*.

Application Development Environment

Development with the Database Web Connector is done by writing an STDL processing group specification to define the interface to a set of one or more database access procedures. This processing group specification is then compiled using the supplied STDL compiler to generate either a C callable stub or an Automation server that is callable from VBScript or JScript.

Runtime System

The Database Web Connector runtime system provides the control point mechanism that allows the customer to execute each processing group on a dedicated set of threads and to limit the number of threads executing for any processing group. If more calls are attempted than there are allowed threads, the calls are queued until a thread is available.

Management Interface

The Database Web Connector provides a graphical management interface to set the parameters required for communications.

Documentation

The Database Web Connector provides the following documentation:

- Database Web Connector Getting Started
- Online help
- ACMS_{XP} Online help (for STD_L syntax)
- Online release notes

HARDWARE REQUIREMENTS

The Database Web Connector runs on all Intel® and Alpha systems that can run the Windows NT™ operating system.

Disk Space Requirements

	Intel	Alpha
Base system (always installed)	.70 MB	.70 MB
Development system	2.00 MB	2.10 MB
Samples	.05 MB	.05 MB
Totals	2.75 MB	2.85 MB

The counts for Windows NT refer to the disk space required on the disk on which Database Web Connector is installed. The sizes are approximate; actual sizes may vary depending on the user's system environment, configuration, and software options.

Memory Requirements

For Windows NT, the minimum memory supported is 32 megabytes. However, the using this software with increased memory capability can improve performance.

SOFTWARE REQUIREMENTS

Software required on all Windows NT systems running Database Web Connector:

- Microsoft Windows NT Version 4.0 with Service Pack 2
- Microsoft Internet Information Server Version 3.0

Additional software required on all Windows NT systems that are used for development with Database Web Connector:

- Microsoft Visual C++® Version 4.2 with the Platform SDK (March 1997) or Microsoft Visual C++ Version 5.0

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 is distributed on an individual product CD-ROM.

ORDERING INFORMATION

Listed below is the ordering information for the Database Web Connector Development, Runtime Server and Client Access offerings.

Development

License/Media/Documentation: QB-5X6AA-SA

Includes a CD-ROM containing all software and on-line documentation, hardcopy documentation, and a single system right-to-use license. This offering enables the development and testing of applications using Database Web Connector.

License Only: QM-5X69A-AA

Consists of a license for the development software for an additional single system for development and testing of applications using Database Web Connector.

Runtime Server

License/Media/Documentation: QB-5TTAA-SA

Includes a CD-ROM containing all software and on-line documentation, hardcopy documentation, and both a Server and Client Access license for the runtime software. The Server License permits the installation, testing, and tuning of the runtime software, and the Client Access License (CAL) permits use of the software by a single individual.

License Only: QM-5TT9A-AA

Consists of a Server License permitting the installation, testing, and tuning of the runtime software.

Client Access

License only: QB-5TU9A-A*

Consists of a license to use the software by a specified number of individuals at a time on a single runtime server system. This option is available in quantities of 1, 50, 200, and unlimited.

* Denotes variant fields.

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

SOFTWARE LICENSING

This software is furnished under a license from Digital Equipment Corporation. For more information about DIGITAL licensing terms and policies, contact your local DIGITAL office.

SOFTWARE PRODUCT SERVICES

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

SOFTWARE WARRANTY

Warranty for this software product is provided by DIGITAL with the purchase of a license for the product as defined in the Terms and Conditions provided with the software.

™ ACMS, DIGITAL, and DIGITAL logo are trademarks of Digital Equipment Corporation.

® Intel is a registered trademark of Intel Corporation.

® Microsoft and Visual C++ are registered trademarks of Microsoft Corporation.

™ Windows NT is a trademark of Microsoft Corporation.

All other trademarks and registered trademarks are the property of their respective holders.

© 1997 Digital Equipment Corporation.

All rights reserved.

