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# ACUCORP®

## Acucorp's Support of IBM® WebSphere® MQ

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### *Introduction*

At Acucorp, we continually strive to extend our customers' investment in business-critical applications. We recognize that IBM's WebSphere MQ is an important technology for businesses engaged in information exchange via message queuing architectures. As such, we have built support for WebSphere MQ into our ACUCOBOL-GT® runtime for Windows, and our runtime for UNIX provides access to the WebSphere MQ shared libraries without relinking.

This paper describes Acucorp's support of WebSphere MQ. For instructions on how to modify your ACUCOBOL-GT program for use with IBM WebSphere MQ, please refer to *A Guide to Interoperating with ACUCOBOL-GT*, Chapter 10. For specifics about the WebSphere MQ architecture or using WebSphere MQ, please refer to IBM's documentation.

### *What is WebSphere MQ?*

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IBM's WebSphere MQ, formerly MQSeries®, is messaging middleware designed to enable application integration. The WebSphere MQ products help business applications exchange information across different platforms by sending and receiving data as messages. WebSphere MQ provides base messaging functions for servers and clients. It handles network interfaces, communications protocols, and workload distribution so that messages can be delivered promptly.

WebSphere MQ provides a consistent multiplatform, application-programming interface for coding messaging tasks. It supports many different platforms, including AIX, Compaq NSK, DOS, DYNIX/ptx, HP-UX, Linux, Mac OS, MVS/ESA, NUMA-Q, OpenVMS Alpha, OpenVMS VAX, OS/2, OS/390, OS/400, Solaris, UNIX, Unisys 2200 Series, Unisys A Series, UnixWare, VM/ESA, VSE/ESA, Windows 2000, Windows 3.x, Windows 95, Windows 98, Windows NT, and Java.

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## ***ACUCOBOL-GT and WebSphere MQ***

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ACUCOBOL-GT supports IBM WebSphere MQ in the following ways:

- The Windows versions of the ACUCOBOL-GT runtime support calls to WebSphere MQ. Properly configured, they automatically load the WebSphere MQ DLL when any subroutine beginning with “MQ” is called.
- The ACUCOBOL-GT runtime for UNIX supports the shared libraries provided with IBM WebSphere MQ without relinking.
- Both the Windows and UNIX runtimes use the COBOL COPY files supplied by IBM WebSphere MQ

Properly configured, the ACUCOBOL-GT runtime allows you to access IBM applications on a mainframe or other host, and to use ACUCOBOL-GT GUI interfaces as a front end to your IBM COBOL applications.

## ***Preparing Your ACUCOBOL-GT Program for WebSphere MQ***

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To use your ACUCOBOL-GT program with IBM’s WebSphere MQ, you perform the following steps:

1. Install and configure the WebSphere MQ client software.
2. Add the necessary WebSphere MQ calls to your ACUCOBOL-GT program.
3. Define a message buffer and any other variables in Working-Storage.
4. Compile your program using the “-D5” data format switch.
5. Configure the runtime and environment by setting the USE\_MQSERIES configuration variable and MQSERVER environment variable.

These steps are described in detail in Chapter 10 of *A Guide to Interoperating with ACUCOBOL-GT*.

## ***Summary***

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Acucorp develops solutions that extend the breadth and usefulness of COBOL applications. By supporting technologies like IBM WebSphere MQ, we protect our customers’ investment in time-tested business applications. Acucorp’s support of WebSphere MQ enables customers to benefit from message queuing architectures while retaining their investment in core business applications.