

Developing Java applications for MQ just got easier with Maven

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[12](#)

Introduction

This post talks about a simpler way to develop Java applications for MQ, using a Maven repository to automatically install dependencies.

Application development for MQ requires access to the language-specific interfaces, libraries, headers, DLLs etc. You write an application and, depending on the language, the MQ-provided components are used within the IDE while you are writing code, checked during build processes, or referenced at runtime. If you want to make your application available to other people, then they will need access to at least the runtime MQ interfaces.

We made it much easier to distribute applications with the release of the [MQ Redistributable Client](#) packages.

And now we've also made it easier to write Java applications, so that you do not need to explicitly install anything before using MQ's interfaces.

Maven Central Repository

When it comes to Java, people use the word **maven** in two related but different contexts. Firstly, it is a tool to build applications. Secondly it refers to a repository holding artifacts that your application may want to access. A fuller description of Apache Maven is [here](#).

In its "build" guise, you might compare it to **ant** with *build.xml* files, **make** with *Makefiles*, **gradle** or a bunch of other tools.

But it is the second usage that we're really concerned with. The Maven Repository (or more properly, the [Central Repository](#)) has a structure that allows files such as jars to have distinct versions and which are then easily discovered with a well-known naming mechanism. Build tools can then use those names to dynamically pull in the dependencies for your application. Something in the definition of your application – when using maven as a build tool, it's called the POM file – just names the dependencies and the build process knows what to do from there.

The MQ client files

We have pushed copies of the MQ Java client interfaces to the Central Repository under the com.ibm.mq GroupId. You will find both [com.ibm.mq.allclient.jar](#) (typically used for standalone programs) and [wmqjmsra.rar](#) (for use in JEE application servers). The **allclient.jar** contains both the JMS and base Java classes for MQ.

Internet Application Development With Mqseries And Java

Patrick Vollmar



Internet Application Development With Mqseries And Java:

Secure Messaging Scenarios with WebSphere MQ T.Rob Wyatt, Glenn Baddeley, Neil Casey, Long Nguyen, Jørgen H. Pedersen, Morten Sætra, IBM Redbooks, 2013-04-02 The differences between well designed security and poorly designed security are not always readily apparent Poorly designed systems give the appearance of being secure but can over authorize users or allow access to non users in subtle ways The problem is that poorly designed security gives a false sense of confidence In some ways it is better to knowingly have no security than to have inadequate security believing it to be stronger than it actually is But how do you tell the difference Although it is not rocket science designing and implementing strong security requires strong foundational skills some examples to build on and the capacity to devise new solutions in response to novel challenges This IBM Redbooks publication addresses itself to the first two of these requirements This book is intended primarily for security specialists and IBM WebSphere MQ administrators that are responsible for securing WebSphere MQ networks but other stakeholders should find the information useful as well Chapters 1 through 6 provide a foundational background for WebSphere MQ security These chapters take a holistic approach positioning WebSphere MQ in the context of a larger system of security controls including those of adjacent platforms technologies as well as human processes This approach seeks to eliminate the simplistic model of security as an island replacing it instead with the model of security as an interconnected and living system The intended audience for these chapters includes all stakeholders in the messaging system from architects and designers to developers and operations Chapters 7 and 8 provide technical background to assist in preparing and configuring the scenarios and chapters 9 through 14 are the scenarios themselves These chapters provide fully realized example configurations One of the requirements for any scenario to be included was that it must first be successfully implemented in the team s lab environment In addition the advice provided is the cumulative result of years of participation in the online community by the authors and reflect real world practices adapted for the latest security features in WebSphere MQ V7 1 and WebSphere MQ V7 5 Although these chapters are written with WebSphere MQ administrators in mind developers project leaders operations staff and architects are all stakeholders who will find the configurations and topologies described here useful The third requirement mentioned in the opening paragraph was the capacity to devise new solutions in response to novel challenges The only constant in the security field is that the technology is always changing Although this book provides some configurations in a checklist format these should be considered a snapshot at a point in time It will be up to you as the security designer and implementor to stay current with security news for the products you work with and integrate fixes patches or new solutions as the state of the art evolves **Exploring IBM EServer ZSeries and S/390 Servers** Jim Hoskins, Bob Frank, 2003 Considered the bible of the IBM zSeries and S 390 world this new edition closely examines the role large computers will play in the new century All the new hardware models and operating system products Linux VSE MVS VM AIX and Open Edition are now available for the zSeries and are fully

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maintaining WebSphere MQ infrastructures In the appendix we provide a summary of the new features in WebSphere MQ Version 6 0

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WebSphere MQ V7.0 Features and Enhancements Saida Davies,Glenn Baddeley,Martin Cernicky,Brian Cuttall,Ruchir P Jha,Bulent Sapolyo,Akhila Shivaprasad,Vicente Suarez,Lohitashwa Thyagaraj,IBM Redbooks,2009-01-26 This IBM Red paper books publication is divided into three parts Part 1 Introduction on page1 provides an introduction to message oriented middleware and the WebSphere MQ product We discuss the concept of messaging explaining what is new in WebSphere MQ V7 0 and how it is implemented An overview is provided on how it fits

within the service oriented architecture SOA framework Part 2 WebSphere MQ V7 0 enhancements and changes on page 41 explains the new WebSphere MQ V7 0 features and enhancements in detail and includes compatibility and the migration considerations from the previous supported versions Part 3 Scenario on page 253 contains a scenario that demonstrates how the new features and enhancements work and how to use them The sample programs and scripts used for this scenario are available for download by following the instructions in Appendix B Additional material on page 379 Computerworld ,2004-03-01 For more than 40 years Computerworld has been the leading source of technology news and information for IT influencers worldwide Computerworld's award winning Web site Computerworld.com twice monthly publication focused conference series and custom research form the hub of the world's largest global IT media network **InfoWorld** ,2000-07-03 InfoWorld is targeted to Senior IT professionals Content is segmented into Channels and Topic Centers InfoWorld also celebrates people companies and projects **InfoWorld** ,1996-05-06 InfoWorld is targeted to Senior IT professionals Content is segmented into Channels and Topic Centers InfoWorld also celebrates people companies and projects **Financial Services Information Systems** Jessica Keyes,2000-03-24 The calculus of IT support for the banking securities and insurance industries has changed dramatically and rapidly over the past few years Consolidation and deregulation are creating opportunities and challenges never before seen Unheard of just a few years ago e commerce has given birth to new infrastructures and departments needed to support them And the Internet Intranet Extranet triple whammy is the most critical component of most financial IT shops At the same time new intelligent agents stand ready to take on such diverse functions as customer profiling and data mining Get a handle on all these new and newer ripples with Financial Services Information Systems Here in this exhaustive new guide and reference book industry guru Jessica Keyes gives you the no nonsense scoop on not just the tried and true IT tools of today but also the up and coming hot technologies of tomorrow and how to plan for them Financial Services Information Systems addresses challenges and solutions associated with supporting the self service revolution by servicing kiosks and ATMs efficiently and economically straight through processing for the securities industry outsourcing business communications in the insurance industry distributed integration as a cost effective alternative to data warehousing and putting inbound fax automation to work in financial organizations *CIO* ,2003-03-01 **InfoWorld** ,1997-11-17 InfoWorld is targeted to Senior IT professionals Content is segmented into Channels and Topic Centers InfoWorld also celebrates people companies and projects

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