JOTM

Java[TM] Open Transaction Manager

ObjectWeb
Open Source Middleware

JOTM is an open source transaction manager implemented in Java.

It supports *several transaction models and specifications* providing transaction support for clients using a wide range of middleware platforms (**J2EE[TM], CORBA, Web Services**).

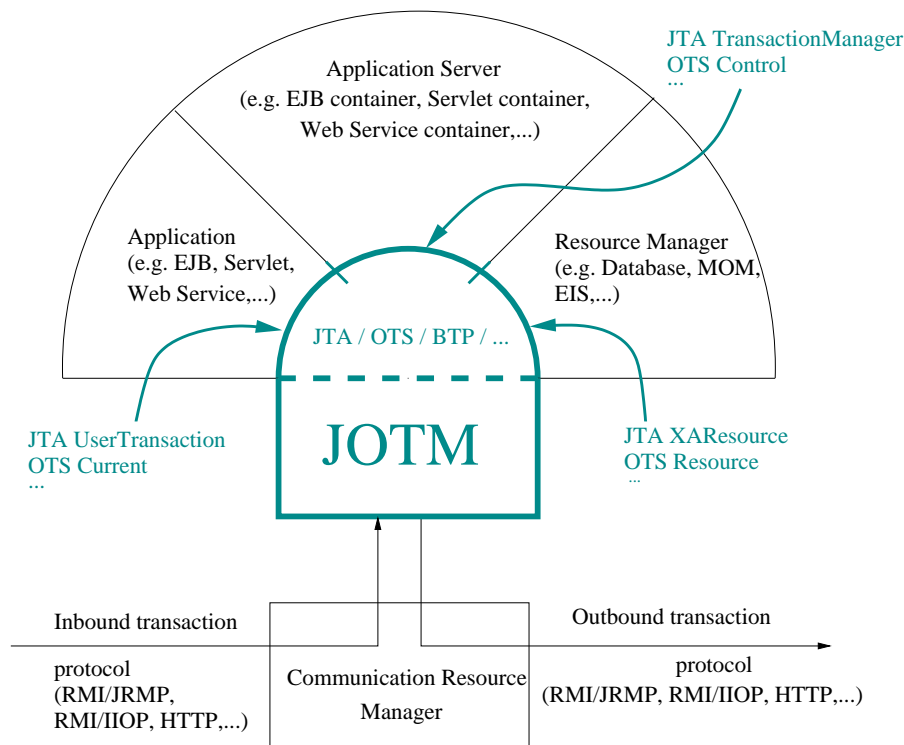JOTM is an ObjectWeb project licensed under the BSD-style license.

For more than four years, JOTM has been the transaction manager of JOnAS, a J2EE server.
In April 2002, the ObjectWeb Consortium decided to extract the transaction manager from JOnAS and make it one of its "key projects" promoting *interoperability and collaboration* between ObjectWeb projects and other open source initiatives that require transactions.

Features

- Implementation of the **Java Transaction API** (JTA[TM]) specification with *full distributed transaction support for Java applications* on both RMI/JRMP and RMI/IIOP
- Implementation of **Business Transaction Protocol** (BTP) specification to provide *transactions for Web Services*

Upcoming

- Full support of the **OMG Transaction Service** (OTS)
- Framework for **container-managed transaction demarcation** that fits any container type (EJB or CCM)
- Prototypes of **Closed and Open Nested Transactions**
- Next-generation transaction manager providing **interoperability between different transaction models and specifications**

Application Server
(e.g. EJB container, Servlet container, Web Service container,...)

JTA TransactionManager
OTS Control
...

Application
(e.g. EJB, Servlet, Web Service,...)

Resource Manager
(e.g. Database, MOM, EIS,...)

JTA / OTS / BTP / ...

JTA UserTransaction
OTS Current
...

JOTM

JTA XAResource
OTS Resource
...

Inbound transaction
protocol
(RMI/JRMP, RMI/IIOP, HTTP,...)

Outbound transaction
protocol
(RMI/JRMP, RMI/IIOP, HTTP,...)

Communication Resource Manager

Community

JOTM community federates transaction experts and users from both academic and industrial backgrounds to share knowledge on transaction processing.

The community expertise spans several transaction fields and middleware domains bringing a common approach to transactional challenges for an industrial-strength codebase.

A Collaborative Development

JOTM embeds open source projects, such as **CAROL,** for transaction context propagation on both RMI/JRMP and RMI/IIOP, and **XAPool**, an XA-compliant JDBC^{TM} connection pool.

JOTM community also works closely with projects that require transactions and offers them all the help necessary to take full advantage of transactions in their respective environments.

Integration

JOTM is bundled with:

- **JOnAS**, an open source J2EE server developed by the ObjectWeb Consortium, http://jonas.objectweb.org/
- **Jetty**, an open source HTTP server & Servlet container, http://jetty.mortbay.org/
- **OFBiz**, an open source enterprise automation software, http://ofbiz.org/

JOTM can also be integrated with **Tomcat**, the reference implementation of Servlets^{TM} and Java Server Pages (JSP^{TM}) specifications, http://jakarta.apache.org/tomcat/,

Success Story

OFBiz (**Open For Business Project**), is an open source enterprise automation software project licensed under the MIT Open Source License. The goal of the project is to create an open source application framework, application components, and suite of enterprise applications and to build a community of end users and developers that work together to create business software that is easy to customized and is based on best practices.

Andy Zeneski, from Open For Business Project, said:
"Since OFBiz only requires a Servlet container and a Transaction manager, using a full blown J2EE application can be too much overhead and at times difficult to configure. While we initially shipped with Tomcat and Tyrex, we ended up running into many problems with Tyrex.
*Thanks to the **stability of JOTM**, the Open for Business project is able to provide a high quality suite of business tools and application utilizing 100% open source components which are easy to configure and maintain.*
*We were so glad to find JOTM. The JOTM team combines a great mix of **good people with good code**. We have found JOTM to be **very stable and worthy of production use**. In addition to the code, the JOTM team has been **very responsive with questions and timely with fixes to problems** posted on the mailing list. We at OFBiz wish the best for JOTM."*

About ObjectWeb

ObjectWeb is a Consortium of leading European Industry actors joining efforts to produce Open Source Middleware. ObjectWeb's goal is to bring to Real-Time Enterprise independence, quality and robustness with the best performance/cost ratio possible. To provide your application with the kind of freedom it deserves, join ObjectWeb at http://www.objectweb.org/.

Download JOTM at http://jotm.objectweb.org/
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