## **JBoss Transactions API 4.2**

## **Release Notes**

JBTA-RN-7/18/06



JBTA-RN-7/18/06

#### **Legal Notices**

The information contained in this documentation is subject to change without notice.

Arjuna Technologies Limited makes no warranty of any kind with regard to this material, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. Arjuna Technologies Limited shall not be liable for errors contained herein or for incidental or consequential damages in connection with the furnishing, performance, or use of this material.

Java<sup>™</sup> and J2EE is a U.S. trademark of Sun Microsystems, Inc. Microsoft® and Windows NT® are registered trademarks of Microsoft Corporation. Oracle® is a registered U.S. trademark and Oracle9<sup>™</sup>, Oracle9 Server<sup>™</sup> Oracle9 Enterprise Edition<sup>™</sup> are trademarks of Oracle Corporation. Unix is used here as a generic term covering all versions of the UNIX® operating system. UNIX is a registered trademark in the United States and other countries, licensed exclusively through X/Open Company Limited.

Arjuna is a trademark of Hewlett-Packard Company.

#### Copyright

JBoss, Home of Professional Open Source Copyright 2006, JBoss Inc., and individual contributors as indicated by the @authors tag. All rights reserved.

See the copyright.txt in the distribution for a full listing of individual contributors. This copyrighted material is made available to anyone wishing to use, modify, copy, or redistribute it subject to the terms and conditions of the GNU General Public License, v. 2.0. This program is distributed in the hope that it will be useful, but WITHOUT A WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

See the GNU General Public License for more details. You should have received a copy of the GNU General Public License, v. 2.0 along with this distribution; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, \* MA 02110-1301, USA.

#### **Software Version**

JBoss Transactions API 4.2

#### **Restricted Rights Legend**

Use, duplication, or disclosure is subject to restrictions as set forth in contract subdivision (c)(1)(ii) of the Rights in Technical Data and Computer Software clause 52.227-FAR14.

© Copyright 2006 JBoss Inc.

# Contents

About This Guide	5
What This Guide Contains	5
Audience	
Prerequisites	
Organization	
Documentation Conventions	
Additional Documentation	
Contacting Us	
Release notes	7
Enhancements	7
Fixed issues	
Known issues	
1110 WII 1334C3	(

## **About This Guide**

#### **What This Guide Contains**

The Release Notes contains important information on changes to JBoss Transactions API 4.2 since the last release and information on any outstanding issues.

#### **Audience**

This guide is most relevant to engineers who are responsible for administering JBoss Transactions API 4.2 installations.

### **Prerequisites**

None.

## Organization

This guide contains the following chapters:

• Chapter 1, Release Notes: this chapter contains release notes.

#### **Documentation Conventions**

The following conventions are used in this guide:

Convention	Description
Italic	In paragraph text, italic identifies the titles of documents that are being referenced. When used in conjunction with the Code text described below, italics identify a variable that should be replaced by the user with an actual value.
Bold	Emphasizes items of particular importance.
Code	Text that represents programming code.
Function   Function	A path to a function or dialog box within an interface. For example, "Select File   Open." indicates that you should select the Open function from the File menu.
( ) and	Parentheses enclose optional items in command syntax. The

AC-RN-7/18/06

	vertical bar separates syntax items in a list of choices. For example, any of the following three items can be entered in this syntax:  persistPolicy (Never   OnTimer   OnUpdate   NoMoreOftenThan)
Note:	A note highlights important supplemental information.
Caution:	A caution highlights procedures or information that is necessary to avoid damage to equipment, damage to software, loss of data, or invalid test results.

Table 1 Formatting Conventions

#### **Additional Documentation**

In addition to this guide, the following guides are available in the JBoss Transactions API 4.2 documentation set:

- JBoss Transactions API 4.2 *Administration Guide*: Provides information on administering JBoss Transactions API 4.2.
- JBoss Transactions API 4.2 *Installation Guide*: This guide provides instructions for installing JBoss Transactions API 4.2.
- JBoss Transactions API 4.2 *Programmer's Guide*: Provides guidance for writing applications.

### **Contacting Us**

Questions or comments about JBoss Transactions API 4.2should be directed to our support team. Send email to support@arjuna.com.

6 otto-07/18/06

## Release notes

#### **Enhancements**

The following enhancements have been made to the GA version of ArjunaTA 3.2:

- In order to provide improved support for ArjunaTS to co-exist with other users of XA transactions, the notion of a unique XA node identifier has been introduced. When creating JTA transactions, it is now necessary to provide this identifier. Recovery will only occur on node identifiers that the recovery subsystem is aware of.
- XAConnectionRecovery has been deprecated in favor of XAResourceRecovery to provide support for non-JDBC created XAResources.
- Additional control over the ordering of your XAResource instances in the twophase commit protocol is now provided via the StartXAResource and EndXAResource interfaces.
- It is now possible to embed the recovery manager in the same VM as the transaction service. It is also possible to drive recovery directly.
- The logging implementation for warning, error and debugging messages will now produce a persistent log (error.log in the current working directory) of all warning and error messages if desired. To enable this feature, you need to set com.arjuna.common.util.logging.default to true either on the command line or in the CommonLogging properties file.
- The product now uses a single property file called jbossjts-properties.xml which contains the properties for all the modules which make up the product. Each module has a set of dependencies which defines the relationship between the modules. A module has dependencies inherits the properties from its dependants and if it defines the same property as one of its dependencies it redefines that property's value when used from that module. The actual value of a property depends on where the property is being used, e.g. if the JTS module has a property with value 10 and one of it's dependents has the same property with a value of 100, when the property is retrieved from the JTS module the value is 10 but when retrieved from its dependant its value is 100. The dependencies are defined via the depends attribute, they are given in a comma-separated listed.
- It is possible to run the recovery manager and transaction server as operating system services. Scripts have been provided for this. See the Installation Guide for more help.
- The tool support for heuristic state manipulation has been improved with a new graphical browser that lets you examine heuristic states.
- Further object store performance improvements.

AC-RN-7/18/06 7

#### **Fixed issues**

The following issues have been identified and fixed:

- During recovery, JBossTS would report problems with badly formatted UIDs. This was identified as <a href="http://jira.jboss.com/jira/browse/JBTM-94">http://jira.jboss.com/jira/browse/JBTM-94</a> and has now been fixed.
- If a non-zero transaction timeout was specified, then JBossTS did not correctly propagate the timeout value to XAResource instances. This was identified as <a href="http://jira.jboss.com/jira/browse/JBTM-93">http://jira.jboss.com/jira/browse/JBTM-93</a> and has now been fixed. Furthermore the setting of the timeout on the XAResource is now configurable. See the JTA Programmers Guide for more details.

#### **Known issues**

Issues that are known in this release are:

• There are issues with the Oracle OCI driver (<a href="http://jira.jboss.com/jira/browse/JBTM-98">http://jira.jboss.com/jira/browse/JBTM-98</a>) for 9i. These do not exist for 10g.

8 otto-07/18/06