

JBoss Transactions API 4.2

Release Notes

JBTA-RN-3/23/06



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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
<i>Italic</i>	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

	vertical bar separates syntax items in a list of choices. For example, any of the following three items can be entered in this syntax: <code>persistPolicy (Never OnTimer OnUpdate NoMoreOftenThan)</code>
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 4.2 should be directed to our support team. Send email to support@arjuna.com.

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 two-phase 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 its dependants 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.

Fixed issues

The following issues with 3.1 have been identified and fixed:

- If using the purely local variant of the JTA implementation, *afterCompletion* was not called on *Synchronizations* in the event the transaction rolled back.

Known issues

Issues that are known in this release are: