

TIBCO iProcess[®] Conductor (for UNIX)

Release Notes

*Software Release 11.2.1
August 2012*

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Preface

TIBCO iProcess(R) Conductor enables you to build and deploy complex business processes as execution plans to achieve a set of business goals. The TIBCO iProcess Conductor server is the application server component that administers and manages the orchestration of execution plans.

Topics

- [Typographical Conventions, page vi](#)
- [Connecting with TIBCO Resources, page viii](#)

Typographical Conventions

The following typographical conventions are used in this manual.

Table 1 General Typographical Conventions



Convention	Use
code font	<p>Code font identifies commands, code examples, filenames, pathnames, and output displayed in a command window. For example:</p> <p>Use <code>MyCommand</code> to start the foo process.</p>
bold code font	<p>Bold code font is used in the following ways:</p> <ul style="list-style-type: none">• In procedures, to indicate what a user types. For example: Type admin.• In large code samples, to indicate the parts of the sample that are of particular interest.• In command syntax, to indicate the default parameter for a command. For example, if no parameter is specified, <code>MyCommand</code> is enabled: <code>MyCommand [enable disable]</code>
<i>italic font</i>	<p>Italic font is used in the following ways:</p> <ul style="list-style-type: none">• To indicate a document title. For example: See <i>TIBCO ActiveMatrix BusinessWorks Concepts</i>.• To introduce new terms For example: A portal page may contain several portlets. <i>Portlets</i> are mini-applications that run in a portal.• To indicate a variable in a command or code syntax that you must replace. For example: <code>MyCommand <i>PathName</i></code>
Key combinations	<p>Key name separated by a plus sign indicate keys pressed simultaneously. For example: <code>Ctrl+C</code>.</p> <p>Key names separated by a comma and space indicate keys pressed one after the other. For example: <code>Esc, Ctrl+Q</code>.</p>
	<p>The note icon indicates information that is of special interest or importance, for example, an additional action required only in certain circumstances.</p>
	<p>The tip icon indicates an idea that could be useful, for example, a way to apply the information provided in the current section to achieve a specific result.</p>

Table 1 General Typographical Conventions (Cont'd)


Convention	Use
	The warning icon indicates the potential for a damaging situation, for example, data loss or corruption if certain steps are taken or not taken.

Table 2 Syntax Typographical Conventions

Convention	Use
[]	<p>An optional item in a command or code syntax.</p> <p>For example:</p> <pre>MyCommand [optional_parameter] required_parameter</pre>
	<p>A logical OR that separates multiple items of which only one may be chosen.</p> <p>For example, you can select only one of the following parameters:</p> <pre>MyCommand param1 param2 param3</pre>
{ }	<p>A logical group of items in a command. Other syntax notations may appear within each logical group.</p> <p>For example, the following command requires two parameters, which can be either the pair param1 and param2, or the pair param3 and param4.</p> <pre>MyCommand {param1 param2} {param3 param4}</pre> <p>In the next example, the command requires two parameters. The first parameter can be either param1 or param2 and the second can be either param3 or param4:</p> <pre>MyCommand {param1 param2} {param3 param4}</pre> <p>In the next example, the command can accept either two or three parameters. The first parameter must be param1. You can optionally include param2 as the second parameter. And the last parameter is either param3 or param4.</p> <pre>MyCommand param1 [param2] {param3 param4}</pre>

Connecting with TIBCO Resources

How to Join TIBCOmmunity

TIBCOmmunity is an online destination for TIBCO customers, partners, and resident experts, a place to share and access the collective experience of the TIBCO community. TIBCOmmunity offers forums, blogs, and access to a variety of resources. To register, go to <http://www.tibcommunity.com>.

How to Access All TIBCO Documentation

You can access TIBCO documentation here:

<http://docs.tibco.com>

How to Contact TIBCO Support

For comments or problems with this manual or the software it addresses, please contact TIBCO Support as follows.

- For an overview of TIBCO Support, and information about getting started with TIBCO Support, visit this site:

<http://www.tibco.com/services/support>

- If you already have a valid maintenance or support contract, visit this site:

<https://support.tibco.com>

Entry to this site requires a user name and password. If you do not have a user name, you can request one.

Release Notes

Check the TIBCO Product Support web site at <http://support.tibco.com> for product information that was not available at release time. Entry to this site requires a username and password. If you do not have a username, you can request one. You must have a valid maintenance or support contract to use this site.

Topics

- [New Features, page 4](#)
- [Changes in Functionality, page 8](#)
- [Deprecated and Removed Features, page 9](#)
- [Migration and Compatibility, page 10](#)
- [Closed Issues, page 11](#)
- [Known Issues, page 22](#)
- [Other Information, page 31](#)

About This Product

Product Structure and Delivery of Plug-ins

To use the TIBCO iProcess Conductor, you require several plug-in. The following server-side plug-ins are installed as part of the TIBCO iProcess™ Technology Plug-ins:

- **TIBCO iProcess Conductor™ Server Plug-ins**

These consist of the following plug-ins:

- **TIBCO iProcess Conductor™ Orchestration Server Plug-in**

This plug-in processes the messages you define in the Orchestration step. There are separate versions of this component for Oracle WebLogic and JBoss application servers.



Note that Oracle WebLogic was previously known as BEA WebLogic. Some references to BEA WebLogic may remain in the software and the documentation.

- **TIBCO iProcess Conductor™ Order Server Plug-in**

This plug-in provides an interface that notifies the TIBCO iProcess Conductor of the status of the order. It also enables you to update order data from the TIBCO iProcess Conductor in the TIBCO iProcess Engine and vice versa. There are separate versions of this component for Oracle WebLogic and JBOSS application servers.

- **TIBCO iProcess™ XML Transform Server Plug-in**

This plug-in performs transformations on XML data.

See the *TIBCO iProcess Technology Plug-ins Installation* guide for details of how to install these components.

The following client-side plug-ins are installed as part of the TIBCO iProcess™ Workspace Plug-ins:

- **TIBCO iProcess Conductor™ Client Plug-ins**

These consist of the following plug-ins:

- **TIBCO iProcess Conductor Orchestration Client Plug-in**

This plug-in enables you to define Orchestration steps in your iProcess procedures.

- **TIBCO iProcess Conductor Order Client Plug-in**

This plug-in enables you to define Order steps in your iProcess procedures.

- **TIBCO iProcess™ XML Transform Client Plug-in**

This plug-in enables you to define Transform steps in your iProcess procedures.

See the *TIBCO iProcess Workspace Plug-ins Installation* guide for details of how to install these components.

New Features

This section lists features added since the last major release of this product.

Release 11.2.1

The following are new features in this release.

Application Server Versions

iProcess Conductor version 11.2.1 adds support for Oracle WebLogic version 10.3.4 and JBoss EAP version 5.1 as application servers.

Support for Databases

Support for Oracle 11g R2 has been added in this release.

Support for Platforms

In this release, support for the following platforms has been added:

- SUSE Enterprise 11.x
- Red Hat Enterprise Linux Server 6.x
- IBM AIX 6.1 and 7.1

Release 11.2.0

The following are new features in this release.

Clustering Support ([MR 38720](#))

Clustering is now supported for JBoss and WebLogic on all supported platforms. This provides advantages of scaleability and enables failover to a different instance of iProcess Conductor in case of a server failing. See the *TIBCO iProcess Conductor Installation* guide and the *TIBCO iProcess Conductor Administrator's Guide* for details.

Installation Without Local Database Access ([MR 40099](#))

It is no longer necessary to run the iProcess Conductor installer on the same machine as the local database machine. See the *TIBCO iProcess Conductor Installation* guide for details.

Installation Without DBA Access ([MR 40565](#))

It is no longer necessary for the iProcess Conductor installer to have DBA access.

In association with this change, it is now possible for the user at it specify installation with an existing iProcess Conductor database user ID.

See the *TIBCO iProcess Conductor Installation* guide for details of the revised installation procedure and the minimum permissions for that user ID.

Switching off Amendments ([MR 40280](#))

It is possible to switch off the ability to submit amendments to existing orders. See the *TIBCO iProcess Conductor Administrator's Guide* for details.

TIBCO Business Studio™

Version 3.2 of TIBCO Business Studio provides service task types that provide the functionality of the iProcess Conductor plug-ins. TIBCO recommends that new iProcess Conductor processes are designed and implemented using TIBCO Business Studio. See the *TIBCO Business Studio iProcess Implementation Guide* for more information.



Note that existing iProcess Conductor processes are not compatible with TIBCO Business Studio.

Platform Support

iProcess Conductor version 11.2 now supports AIX 5L Version 5.3 and Red Hat Enterprise Linux versions 5.x AS and 5.x ES.

Database Version Support ([MR 40196](#))

iProcess Conductor version 11.2 now supports Oracle version 11g.

Application Server Versions ([MR 40806](#))

iProcess Conductor version 11.2 now supports Oracle WebLogic version 10.3.

Release 11.1.0

The following are new features in this release.

Clustering Support ([MR 38739](#), [MR 39139](#))

Support for clustering is introduced. This is supported on WebLogic on Solaris and Linux platforms only. This provides advantages of scaleability and enables failover to a different instance of iProcess Conductor in case of a server failing. See *TIBCO iProcess Conductor Administrator's Guide* for details.

Use of Quartz ([MR 39452](#))

Quartz Enterprise Job Scheduler, from OpenSymphony, is introduced as a timer service for clustered iProcess Conductor systems in this release.

Application Server Versions ([MR 39252](#))

iProcess Conductor version 11.1 now supports Oracle WebLogic version 9.2.3.

Release 11.0.0

The following are new features in this release.

AIX Platform Support ([MR 35691](#))

AIX 5.3 is added as a supported platform for both the iProcess Conductor software and the database.

Linux Platform Support

Linux implementations with Base Kernel Level 2.6.16 are added as a supported platform for both the iProcess Conductor software and the database.

Application Server Versions ([MR 36095](#))

iProcess Conductor version 11.0 supports BEA WebLogic version 9.2.1.0, JBoss version 4.2.1, and JBoss EAP version 4.3 as application servers for the iProcess Conductor Plug-ins.



Earlier versions of WebLogic and JBoss are no longer supported.

Order Fulfillment Using JMS ([MR 33665](#))

It is now possible to specify that when an order request or order amendment is submitted to iProcess Conductor, the resulting fulfillment process should send a JMS message containing details of the order and of the required fulfillment to a specified JMS queue. The application monitoring the queue (for example, a TIBCO BusinessEvents process) can then undertake the actions required for order fulfillment.

See *TIBCO iProcess Conductor Concepts* for details.

Performance Improvements

This release includes a number of changes to improve performance, particularly for short-run, low-latency orders. See [MR 33017](#), [MR 33042](#), [MR 33071](#), [MR 33072](#), [MR 33073](#), [MR 33108](#), [MR 33125](#), [MR 33196](#), [MR 33267](#).

Deleting Components ([MR 35838](#))

It is now possible to delete process components, execution plans and orders using the TIBCO iProcess™ Conductor Utility Framework. These can be deleted individually or a range can be deleted by specifying selection criteria. Audit log entries for the deleted items are also deleted automatically at the same time.

You cannot delete an item if anything else is dependent on it.

See the *TIBCO iProcess™ Conductor Utility Framework User's Guide* for details.

Earlier Versions

For details of the new features implemented in earlier versions of the product, please see the Readme and Release Notes for that particular product release.

Changes in Functionality

This section lists changes in functionality since the last major release of this product.

Release 11.2.1

There are no changes in functionality in this release.

Release 11.2.0

There are no changes in functionality in this release.

Release 11.1.0

There are no changes in functionality in this release.

Release 11.0.0

JDBC Driver Version ([MR 35661](#))

The Oracle JDBC driver version 10.2.0.2.0 is delivered with this release of iProcess Conductor.

iProcess Decisions ([MR 35648](#))

The iProcess Conductor now supports the use of iProcess Decisions version 4.1.

Deprecated and Removed Features

This section describes deprecated features (if any), and lists features, if relevant, that may be useful alternatives to the deprecated features. Any use of a deprecated feature should be discontinued as it may be removed in a future release. You should avoid becoming dependent on deprecated features and become familiar with the suggested alternative features.

This section also lists features that are removed (if any).

Release 11.2.1

From this version, TIBCO iProcess Conductor is no longer supported on WebLogic 9.2.x.

Release 11.2.0

No features are deprecated or removed in this release.

Release 11.1.0

No features are deprecated or removed in this release.

Release 11.0.0

No features are deprecated or removed in this release.

Migration and Compatibility

This section explains how to migrate from a previous release to this release.

Release 11.2.1

iProcess Conductor 11.2.1 is compatible with iProcess Engine 11.1.x and above.

iProcess Conductor 11.2.1 is compatible with iProcess Technology Plug-ins 11.2.0 and above.

iProcess Conductor 11.2.1 is compatible with iProcess Workspace Plug-ins 11.2.0 and above.

Release 11.2.0

There are no migration procedures or compatibility issues in this release.

Release 11.1.0

There are no migration procedures or compatibility issues in this release.

Closed Issues

The table in this section lists issues that were closed in the named releases:

Closed in Release	Key	Summary
11.2.1	IPC-586 (Parent IPC-566)	When submitting an order, an error occurred if the length of the Requisition ID exceeded 2GB. Corrected.
11.2.1	IPC-557	Support JBoss EAP 5.1 for both clustered and non-clustered installations. Implemented.
11.2.1	IPC-556	Support Oracle WebLogic 11g for both clustered and non-clustered installations. Implemented.
11.2.1	IPC-555 (Parent IPC-536)	iProcess Conductor Utility Framework could not delete OrchSubjects referred by an execution plan. Corrected.
11.2.1	IPC-554 (Parent IPC-440)	If an order was submitted to iProcess Conductor when the database was down, iProcess Conductor consumed the order message, reported an exception, and then lost the order. Corrected.
11.2.1	IPC-553 (Parent IPC-533)	Removed orphaned rows left in the ORCHSUBJECT table. Implemented.
11.2.1	IPC-552 (Parent IPC-522)	iProcess Conductor failed when multiple Oracle connections were released. Corrected.
11.2.1	IPC-551 (Parent IPC-454)	NullPointerException occurred when viewing the execution plans of an order from the Order Control bar.
11.2.1	IPC-550 (Parent IPC-448)	An error occurred when installing TIBCO iProcess Conductor 11.2.0 on a machine with Oracle 11.2.0.2. Corrected.

Closed in Release	Key	Summary
11.2.1	IPC-549 (Parent IPC-445)	To improve performance, remove the synchronized keyword from the marshall and unmarshall interfaces. Implemented.
11.2.1	IPC-548 (Parent IPC-444)	Performance was low when TIBCO iProcess Conductor searched orders in the Web application. Corrected.
11.2.1	IPC-547 (Parent IPC-430)	The "weblogic.jdbc.wrapper.PreparedStatement_oracle_jdbc_driver_T4 CPreparedStatement@12450" message was always reported in the WebLogic control when running automation test cases. Corrected.
11.2.1	IPC-546 (Parent IPC-428)	To improve performance of Plan status, update the SQL statements. Implemented.
11.2.1	IPC-545 (Parent IPC-423)	To improve performance, apply the read-only setting to ExecutionPlanBean. Implemented.
11.2.1	IPC-544 (Parent IPC-426)	A NullPointerException was thrown when submitting an AOPD request for the second time for an order that already had an execution plan. Corrected.
11.2.1	IPC-543 (Parent MR 43639)	Orchestrator messages should not be applied to the Plan level for the Batch process. An exception was thrown when a Plan level message entered the Batch Process. Corrected.
11.2.1	IPC-542 (Parent MR 43573)	To improve performance, User Defined Fields (UDFs) could be removed from the summary group when executing the AOPD function. Implemented.
11.2.1	IPC-541 (Parent IPC-420)	iProcess Conductor was not compatible under Linux platforms. Corrected.

Closed in Release	Key	Summary
11.2.1	IPC-540 (Parent MR 43522)	An exception was thrown when cancelling an order if the version of a process component had not been updated to the latest version. Corrected.
11.2.1	IPC-529	When two different threads accessed an XAResource concurrently in a JTA transaction, an error repeatedly occurred every 30 minutes. If a new order was received after that, a fatal error occurred. Corrected.
11.2.1	IPC-406 (Parent MR 43385)	The size of the character string buffer was too small when converting the ExecutionPlan (EP) to the drafts. Corrected.
11.2.1	IPC-405 (Parent MR 43384)	The ERROR severity for the "Sent batch message for plan" log message should be changed to DEBUG. Corrected.
11.2.1	IPC-401 (Parent MR 43237)	Value objects should be removed from the passivated EJB entity beans. Corrected.
11.2.1	IPC-399 (Parent MR 43195)	The order fulfillment was stuck if the JMS message was missing. Corrected.
11.2.1	IPC-398 (Parent MR 43187)	The maximum cache size limitation should be added into the ExecutionPlan session cache. Corrected.
11.2.1	IPC-397 (Parent MR 43169)	A memory leak occurred because many IO stream objects were not closed. Corrected.
11.2.1	IPC-395 (Parent IPC-386)	The EP details pop-up window should have a vertical scrollbar. Corrected.
11.2.1	IPC-380 (Parent MR 43119)	The plan was being processed and stored back for each message which was a performance drain for large files. Corrected.

Closed in Release	Key	Summary
11.2.1	IPC-379 (Parent MR 43118)	The <code>getStringFromClob()</code> method did not release CLOB resources in the temp tablespace. Corrected.
11.2.1	IPC-374 (Parent MR 42961)	The Group Details pop-up window could not be closed in the Execution Plan View. Corrected.
11.2.1	IPC-373 (Parent MR 42859)	The Group Details pop-up window for Execution Plan did not have a vertical scrollbar. Corrected.
11.2.1	IPC-370 (Parent MR 42624)	The Status, Time and Resources columns under the Plan View tab could not be resized. Corrected.
11.2.1	IPC-369 (Parent MR 42477)	The Order Line Details pop-up window did not have a vertical scrollbar. Corrected.
11.2.1	IPC-368 (Parent MR 42476)	When using the mouse to drag the Order Line Details pop-up window, the window might not move smoothly. Corrected.
11.2.1	IPC-363 (Parent MR 42306)	Change the way that iProcess Conductor handles amendments when all order lines in an order are set to Cancelled. Implemented.
11.2.1	IPC-356 (Parent MR 41975)	Make the paging and pop-up features configurable. Implemented.
11.2.1	IPC-355 (Parent MR 41974)	Show details of the order line in a pop-up dialog window. Implemented.
11.2.1	IPC-354 (Parent MR 41973)	Paging control of order lines and order request lines is required. Implemented.

Closed in Release	Key	Summary
11.2.1	IPC-352 (Parent MR 41905)	The critical path calculator generated a <code>StackOverflow</code> exception when a task within the summary group had an actual duration specified and also had a dependency on another task. Corrected.
11.2.0	MR 41220	When installing iProcess Conductor in a cluster under WebLogic, the installer does not write the correct performance values to the AppConfig.xml file for the managed servers. Corrected.
11.2.0	MR 40986 (Parent MR 40861)	Cancellation of an Execution Plan fails if the plan contains nested summary groups. Corrected.
11.2.0	MR 40862	Fill default values in the iProcess Conductor Utilities properties file, IPCUtil.xml , when installing. Implemented.
11.2.0	MR 40806	Support Oracle WebLogic version 10.3 for both clustered and non-clustered installations. Implemented.
11.2.0	MR 40565	Remove the necessity for the iProcess Conductor installer to have DBA access. Allow installation with an existing iProcess Conductor database user ID. Document the minimum permissions for that user ID. Implemented.
11.2.0	MR 40390	Allow the use of a manually created iProcess Conductor user when installing the database. Implemented.
11.2.0	MR 40280	There should be a configuration option set in the AppConfig.xml file to allow amendment handling to be enabled or disabled. Implemented. See the <i>TIBCO iProcess Conductor Administrator's Guide</i> for details.

Closed in Release	Key	Summary
11.2.0	MR 40196	Support Oracle 11g. Implemented.
11.2.0	MR 40099	Remove the need for the iProcess Conductor installer to have local machine access to the database. Implemented.
11.2.0	MR 40017 (Parent MR 39987)	When installing iProcess Conductor, the installation process is requesting DBA username and password when none is required. Corrected. See also MR 40090 (Parent MR 39987) . This fix is now available on all platforms.
11.2.0	MR 39909	Add a scheduler migration tool to migrate events to the Quartz timer used in a clustered installation. Implemented. See the <i>TIBCO iProcess Conductor Installation</i> guide for details.
11.2.0	MR 38720	Support iProcess Conductor clustering under JBoss EAP. Implemented. Note that the server configuration must be specified as All or Production , not Default . See the <i>TIBCO iProcess Conductor Installation</i> guide for details. (See also MR 39139 .)
11.1.0	MR 40090 (Parent MR 39987)	(This MR available on Linux build only.) When installing iProcess Conductor, the installation process is requesting DBA username and password when none is required. Corrected.
11.1.0	MR 39792	Installing iProcess Conductor in console mode on a WebLogic system fails if no WebLogic password, or an incorrect one, is specified. Corrected. The WebLogic user name and password are now validated and prompted for if incorrect.
11.1.0	MR 39682	If multiple iProcess Conductor domains have been installed under <i>BEA_HOME/user_projects/domains/</i> , running the uninstall program deletes all such domains. Corrected.

Closed in Release	Key	Summary
11.1.0	MR 39616	EAI Orchestrator caches an execution plan and its UniqueID and PrimaryKey in JAXBOrderPlanFactory, but this cache could not replicated to other WebLogic nodes in a clustered environment. Corrected. This cache is disabled in a clustered environment.
11.1.0	MR 39568	The version number on Tooltips still read 10.6. Corrected.
11.1.0	MR 39564	Modify the installer to enable different connectionfactory names to be specified when configuring EMS. Implemented.
11.1.0	MR 39463	Ensure that the TIBCO iProcess Conductor AOPD Message-Driven API supports a clustered environment under WebLogic. Implemented.
11.1.0	MR 39452	Modify the installer to configure Quartz Enterprise Job Scheduler from OpenSymphony automatically, if the user specifies a clustered installation. Quartz is used to replace the Java timer in a clustered environment.. Implemented. See the <i>TIBCO iProcess Conductor Installation</i> guide for details.
11.1.0	MR 39252	Weblogic 9.2.3 is now supported. Implemented.

Closed in Release	Key	Summary
11.1.0	MR 39150	<p>When configured to use EMS as a foreign JMS provider in WebLogic, the JMSManage process does not reconnect if EMS fails.</p> <p>Corrected. If JMSManage is configured to access EMS directly, the problem is solved. You can do this by setting the following values in the AppConfig.xml file:</p> <pre> <setting> <name>INITIAL_CONTEXT_FACTORY</name> <value></value> </setting> <setting> <name>PROVIDER_URL</name> <value></value> </setting> <setting> <name>SECURITY_PRINCIPAL </name> <value></value> </setting> <setting> <name>SECURITY_CREDENTIALS </name> <value></value> </setting> </pre> <p>SECURITY_PRINCIPAL and SECURITY_CREDENTIALS are optional and can be omitted if EMS does not require authentication.</p> <p>See the <i>TIBCO iProcess Conductor: Administrator's Guide</i> guide for more information about the AppConfig.xml file.</p>
11.1.0	MR 39139	<p>Change the Installer to support iProcess Conductor installation in a clustered environment under WebLogic.</p> <p>Implemented. See the <i>TIBCO iProcess™ Conductor Installation</i> guide for details.</p>
11.1.0	MR 38739	<p>In a clustered environment, the PlanStateListener cannot receive all PlanComplete messages. This causes problems in LoadBalancer.</p> <p>Corrected. A new PlanStateChecker process has been added. This checks audit logs every 30 minutes and notifies the LoadBalancer of completed plan IDs.</p>

Closed in Release	Key	Summary
11.1.0	MR 38311	An exception occurs when using the Delete utility to delete an order with three or more levels of audit logging. Corrected.
11.0.0	MR 36095	Support JBoss EAP 4.3 as an application server. Implemented.
11.0.0	MR 35927	The user documentation should indicate which XPath functions are not supported by XML Transform steps. Corrected. See Appendix B, "Unsupported XPath Functions in the XML Transform Plug-in", in the <i>TIBCO iProcess™ Conductor Implementation Guide</i> .
11.0.0	MR 35838	It should be possible to delete process components, execution plans and orders in the Utility Framework. Implemented. See the <i>TIBCO iProcess™ Conductor Utility Framework User's Guide</i> for details.
11.0.0	MR 35720	Upgrade support for JDK and JRE 5.0 will be upgraded to update 15. Implemented. See the <i>TIBCO iProcess Conductor Installation</i> guide.
11.0.0	MR 35712	The iProcess Technology Plug-ins installer needs to support the iProcess Conductor Plug-ins on AIX and Linux systems. Implemented.
11.0	MR 35691	Add support for AIX 5.3. Implemented.
11.0.0	MR 35661	The Oracle JDBC driver version 10.2.0.2.0 should be delivered with the iProcess Conductor instead of version 10.1.0.2.0. Implemented. See the <i>TIBCO iProcess Conductor Installation</i> guide.

Closed in Release	Key	Summary
11.0.0	MR 35660	<p>During installation of iProcess Conductor, if a database is set up to create users with a temporary table space that is not managed for storing temporary segments, the install fails.</p> <p>Corrected. The installer now checks for the presence of a suitable tablespace; and, if one is not found, prevents installation and displays an error message. See the <i>TIBCO iProcess Conductor Installation</i> guide.</p>
11.0.0	MR 35648	<p>The iProcess Conductor should support the use of iProcess Decisions version 4.1.</p> <p>Implemented. See the <i>TIBCO iProcess Conductor Installation</i> guide.</p>
11.0.0	MR 35548	<p>The COUNT function is not supported in xpaths.</p> <p>Corrected.</p>
11.0.0	MR 33827	<p>Add a Refresh button to the Audit Trail dialog.</p> <p>Implemented. See the section "About the Audit Log Viewer" in the <i>TIBCO iProcess Conductor User's Guide</i>.</p>
11.0.0	MR 33821	<p>Add a button to give access to Execution Plan jeopardy actions from the GANTT viewer.</p> <p>Implemented.</p>
11.0.0	MR 33665	<p>Add the possibility to start a fulfillment process by sending a JMS messages to a nominated JMS queue.</p> <p>Implemented. See <i>TIBCO iProcess Conductor Concepts</i> for details.</p>
11.0.0	MR 33267	<p>Include synchronous as well as asynchronous JMS APIs for AOPD, in order to eliminate the timing overheads associated with asynchronous calls.</p> <p>Corrected. AOPD now provides a synchronous JMS API similar to the existing asynchronous API.</p>
11.0.0	MR 33196	<p>Remove unnecessary updates to the Order Manager.</p> <p>Corrected.</p>

Closed in Release	Key	Summary
11.0.0	MR 33125	Orchestration in iProcess Conductor should allow a separate path for In-memory processing for short duration plans. This will reduce the times taken for orchestration and enable increased performance. Corrected.
11.0.0	MR 33108	Reduce the number of execution plan updates and enable the number of load balancing queues to be configured to improve performance. Corrected. The number of load balancing queues is a configurable parameter in the AppConfig.xml file. The default is 25. See the <i>TIBCO iProcess Conductor Administrator's Guide</i> for further details.
11.0.0	MR 33073	If using AOPD in a heavy-use environment, EmptyStackException, NullPointerException and circular dependency exceptions are generated. Corrected.
11.0.0	MR 33072	When using AOPD, problems were encountered with Correlation ID and the JMS-replyto queue. Corrected.
11.0.0	MR 33071	Eliminate locking of order plans at the database level, and handle locks at the application level instead. Corrected.
11.0.0	MR 33042	Allow exception traces to be logged in EAI Java logs whenever an Exception occurs on iProcess Conductor. Corrected.
11.0.0	MR 33017	iProcess Engine errors are produced in process components when calling EAIORCH steps if any field names are in mixed case. Corrected.

Known Issues

The table in this section lists known issues in this release.

Key	Summary/Workaround
IPC-618	<p>Summary iProcess Conductor cannot start if you select Default in the JBoss Server Configuration field when installing on JBoss EAP 5.1 in standalone mode.</p> <p>Workaround Manually add the cluster folder.</p> <ol style="list-style-type: none"> 1. Copy the cluster directory in <i>JBOSS_HOME</i>/server/production/deploy or <i>JBOSS_HOME</i>/server/all/deploy to <i>JBOSS_HOME</i>/server/default/deploy. 2. Copy all the JAR files in <i>JBOSS_HOME</i>/server/production/lib or <i>JBOSS_HOME</i>/server/all/lib to <i>JBOSS_HOME</i>/server/default/lib.
IPC-617	<p>Summary An AOPD procedure fails to start when using harness to inject an AOPD request.</p> <p>Workaround None.</p>
IPC-613	<p>Summary When using harness to inject an order or AOPD, a warning occurs in the console.</p> <p>Workaround None.</p>
IPC-609	<p>Summary If you install the product on 64-bit Red Hat Linux Server 5 or 6, errors occur when accessing iProcess Conductor from a browser window.</p> <p>Workaround Manually install 32-bit <code>libstdc++.so.5</code> in the <code>usr/lib</code> directory which is used by iProcessJavaObjects 4.0.</p>
IPC-603	<p>Summary On AIX platforms, iProcess Conductor fails to start when deploying it on JBoss EAP 5.1.</p> <p>Workaround To fix this problem, complete the following steps:</p> <ol style="list-style-type: none"> 1. Modify the <code>max_bundle_size</code> value in <code>jboss-eap-5.1.0\jboss-eap-5.1\jboss-as\server\production\deploy\cluster\jgroups-channelfactory.sar\META-INF\jgroups-channelfactory-stacks.xml</code> from 64000 to 8000. 2. Edit the <code>run.sh</code> file in <i>JBOSS_HOME</i>\bin by adding a line <code>JAVA_OPTS="-Djava.net.preferIPv4Stack=true \$JAVA_OPTS"</code> after the line <code>JAVA_OPTS="-Dprogram.name=\$PROGNAME \$JAVA_OPTS"</code>.

Key	Summary/Workaround
IPC-600	<p>Summary When installing the product on a JBoss EAP server in cluster mode, the <code>installerDebug.log</code> file is created indicating <code>NullPointerException</code>.</p> <p>Workaround None.</p>
IPC-598	<p>Summary The "javax.jms.InvalidClientIDException: clientId already exists" error message occurs in the console in both WebLogic cluster mode and JBoss cluster mode.</p> <p>Workaround You can safely ignore the error message.</p>
IPC-582	<p>Summary When using the iProcess Conductor Utility to export a non-existing order, no order ID is retrieved and the command console exits automatically without executing the following operations.</p> <p>Workaround None.</p>
MR 41509	<p>Summary When installing under WebLogic, iProcess Conductor installer sets the server target for the iProcess Conductor Utility Framework to weblogic9 even when installing under weblogic10.</p> <p>Workaround In the utility framework's property file IPCUtil.xml, specify the server.target property as weblogic9 even when using WebLogic 10. See "Properties" in the <i>TIBCO iProcess Conductor Utility Framework User's Guide</i>.</p>
MR 41493	<p>Summary When installing iProcess Conductor on 64-bit Linux, it is not possible to set or change passwords.</p> <p>Workaround The problem does not occur if you run the installation program in console mode. See the section "Installing the TIBCO iProcess Conductor" in the <i>TIBCO iProcess Conductor Installation for UNIX</i> guide.</p>
MR 41403	<p>Summary Submitting an execution plan may fail if it is immediately after saving a change.</p> <p>Workaround After saving an execution plan, the applet needs some time to load and initialize the execution plan page. Do not take any action until the applet is fully displayed, or an error may result.</p>
MR 41048	<p>Summary If the iProcess Conductor server and the client are configured as being in separate time zones, it is not possible to start an execution plan. Multiple error messages are generated.</p> <p>Workaround None.</p>

Key	Summary/Workaround
MR 40681	<p>Summary If an execution plan is suspended, amended and saved, the save may fail with an <code>IncorrectVersionException</code> error message.</p> <p>This can occur if the plan has time dependencies on scheduler events. If one or more such events occurs after the plan is suspended but before the changed plan is saved, it changes the plan in background. Saving the plan then fails because it is too old.</p> <p>Workaround Refresh the plan and amend it and then save it.</p>
MR 39822	<p>Summary An exception is displayed when iProcess Conductor is started on a WebLogic managed server in a cluster.</p> <p>An exception message similar to:</p> <p><i>javax.jms.InvalidClientIDException: clientId already exists</i> or <i>weblogic.jms.common.InvalidClientIDException: Client id, com/OrderOrchestratorListenerMessageBean, is in use at weblogic.jms.frontend.FEConnection.setClientId(FEConnection.java:1208)</i></p> <p>is displayed. This is because a message-driven bean (MDB) with a durable topic subscription cannot run on multiple server instances in a cluster. A conflict is detected and one instance fails. The second instance takes over the job in accordance with correct failover procedures.</p> <p>Workaround None.</p>
MR 39793	<p>Summary If more than one instance of iProcess Conductor is installed on the same WebLogic server, and one is subsequently uninstalled, the other instances can no longer run. This is because uninstallation removes some necessary files located under <code>WL_HOME/server</code>.</p> <p>Workaround Copy <i>iProcessConductorDir/iProcessConductor/BEAWeblogic/COMSecurityAuthenticator-92.jar</i> to <code>WL_HOME/server/lib/mbeantypes</code>.</p> <p>However, TIBCO does not recommend that two or more instances of iProcess Conductor are installed on the same application server. If this advice is followed, the problem will not arise.</p>
MR 36431	<p>Summary BEA WebLogic 9.2.1 fails if used with iProcess Conductor on an AIX system.</p> <p>Workaround None.</p>



Key	Summary/Workaround
MR 36239	<p>Summary iProcess Conductor fails to fulfill an order when the iProcess Engine is running on Sun JDK 1.6.</p> <p>Workaround Add:</p> <p>SWJVM_OPTIONS=-Dsun.lang.ClassLoader.allowArraySyntax=true</p> <p>to the system environment. See the chapter "After Installation" in the <i>TIBCO iProcess Technology Plug-ins Installation</i> guide for details.</p>

Key	Summary/Workaround
MR 36204	<p>Summary JBOSS 4.2.1 and JBOSS EAP 4.3 with server type set to production or all, starting up on the AIX 5.3 platform in an iProcess Conductor environment, report the following error message:</p> <pre>"max_bundle_size (64000) is greater than largest TP fragmentation size (8000)"</pre> <p>Workaround Open the following files:</p> <p>For JBOSS EAP 4.3 in a non-clustered environment:</p> <ul style="list-style-type: none"> • server/<i>servertype</i>/deploy/cluster-service.xml • server/<i>servertype</i>/deploy/ejb3-clustered-sfsbcache-service.xml • server/<i>servertype</i>/deploy/ejb3-entity-cache-service.xml • server/<i>servertype</i>/deploy/jboss-messaging.sar/clustered-hsqldb-persistence-service.xml • server/<i>servertype</i>/deploy/jboss-messaging.sar/oracle-persistence-service.xml • server/<i>servertype</i>/deploy/jboss-web-cluster.sar/META-INF/jboss-service.xml <p>For JBOSS EAP 4.3 in a clustered environment, or for JBOSS 4.2.1:</p> <ul style="list-style-type: none"> • server/<i>servertype</i>/deploy/cluster-service.xml • server/<i>servertype</i>/deploy/ejb3-clustered-sfsbcache-service.xml • server/<i>servertype</i>/deploy/ejb3-entity-cache-service.xml • server/<i>servertype</i>/deploy/jboss-web-cluster.sar/META-INF/jboss-service.xml <p>where <i>servertype</i> is the JBOSS server type, which may be production or (only for JBOSS EAP) all.</p> <p>In each file, search for:</p> <pre>max_bundle_size="64000"</pre> <p>Modify the value from 64000 to 8000.</p> <p>Then open the run.sh script and add the line:</p> <pre>JAVA_OPTS="-Djava.net.preferIPv4Stack=true \$JAVA_OPTS"</pre> <p>after the existing line:</p> <pre>JAVA_OPTS="-Dprogram.name=\$PROGNAME \$JAVA_OPTS"</pre>
MR 36067	<p>Summary Changes made to classification values and groups are not immediately reflected in the user interface.</p> <p>Workaround No action is needed. Such changes are made in the database, and will be reflected in the user interface after a delay.</p>

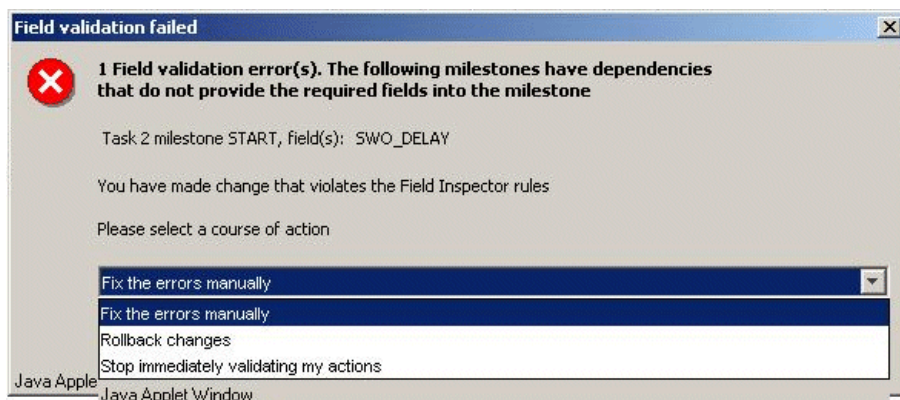
Key	Summary/Workaround
MR 35952	<p>Summary iProcess Conductor on an AIX system does not support JDK version 1.6.</p> <p>Workaround None.</p>
CR 1-898173	<p>Summary Using BEA Weblogic version 9.2 with iProcess Conductor 10.6 on Solaris 10 will cause iProcess Engine background processes to crash.</p> <p>Workaround Use TIBCO EMS as the JMS transport for iProcess Conductor, as described in the Appendix 'Using iProcess Conductor with EMS' in the <i>TIBCO iProcess Engine Implementation Guide</i> for further details.</p>
CR 1-820DZN	<p>Summary An incorrect sequence of milestones in process components can cause an 'illegal state transition' exception.</p> <p>If the milestones in a process component are not correctly sequenced and are executed by the containing iProcess Engine process in a different order to that defined, then an illegal state transition exception is generated.</p> <p>Workaround Ensure that the milestones in process components are correctly sequenced.</p>
CR 1-7202VA	<p>Summary It is in effect not possible to configure a time dependency and a jeopardy monitoring point on the same milestone. If you do so, the execution plan can be saved correctly, but an error will be generated when you set the plan status to Template or Pending.</p> <p>Workaround None.</p>
CR 1-7202UG	<p>Summary In certain scenarios fatal exceptions are not being handled by the Order Plug-in. This includes exceptions thrown during order or order line state changes. Under these circumstances, the exception is not written to the iProcess client audit trail and the case will continue to completion, even when the exception handling is set to Fail Step on XML Exception.</p> <p>Workaround Please check the <code>eaijava</code> logs for order state change/order line state change exceptions.</p>
CR 1-7202U1	<p>Summary If the connection between a JBOSS application server and the iProcess Engine fails and is then restored, warning messages about the failed connection will still be generated to the <code>eaijava.log</code> file.</p> <p>This does not apply to installations using BEA WebLogic.</p> <p>Workaround When the iProcess Conductor server is restarted, restart the iProcess Engine server as well.</p>

Key	Summary/Workaround
CR 1-72O2TB	<p>Summary In periods of heavy activity, iProcess Conductor may be trying to execute a step in an order fulfillment procedure, such as the StartPlan orchestration step or a graft step, before the details of the case have actually been committed to the database. This will result in "Procedure not found" messages in the log files.</p> <p>Workaround Add a transaction commit point in the fulfillment procedure before the Orchestration step that starts the execution plan. This will ensure that the case is committed to the database before iProcess Conductor starts to execute any steps in the procedure.</p>
CR 1-72O2SM	<p>Summary The data in user-defined fields cannot exceed 4 Kb.</p> <p>The current version of TIBCO iProcess Conductor restricts XML string fields to a maximum size of 4 Kb. Any size exceeding this would generate an Oracle exception, since by default all string-typed elements in the Oracle XML database use VARCHAR2(4000).</p> <p>Workaround None.</p>
CR 1-72O2S8	<p>Summary If you have a task that has a Must Start On dependency on another task, and the second task is released, you may receive an Infeasible Must Start On dependency warning for the first task. This is because it takes the TIBCO iProcess Conductor a second to process it. If you check the User Interface at this point, you may receive a message saying that the Must Start On dependency is not feasible. However, the task is processed and if you refresh the order plan, the warning disappears.</p> <p>Workaround None.</p>

Key	Summary/Workaround
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CR 1-72O2VP

Summary In certain circumstances, when the **Field Validation Failed** dialog is displayed, some text may be added to the end of the list box which prevents you from selecting the option you require. This is demonstrated below:



Workaround To resolve this, add the following permission to your **.java.policy** file.

```
permission java.awt.AWTPermission
"showWindowWithoutWarningBanner";
```

For example:

```
grant {
permission java.util.PropertyPermission "java.io.tmpdir", "read";
permission java.io.FilePermission
"${java.io.tmpdir}/.tffPreferences.properties",
"read,write";
permission java.awt.AWTPermission
"showWindowWithoutWarningBanner";
permission java.awt.AWTPermission "accessClipboard", "access";
};
```

The **.java.policy** file is located in your home directory. See the *TIBCO iProcess Conductor Administrator's Guide* for more information about the **.java.policy** file.

CR 1-72O2RT

Summary Array fields are not supported in the TIBCO iProcess Conductor.

Workaround None.

No ID

Summary If you use an EAI Order step to update an address using Staffware fields (rather than using an XML update) the update fails if there is no address already present.

Workaround Create a skeleton address using the XML update and then update the address using Staffware fields.

Key	Summary/Workaround
No ID	<p>Summary The following exception error occurs if the version number of a record has changed between the read and update of a record in the database by an EAI Order step:</p> <p>nested exception is: com.staffware.frameworks.base.exception.IncorrectVersionException: Version no: 13 with primary key: 1000109 for com.staffware.frameworks.gen.valueobjects.impl.OrderImpl@5cd132e1 at com.staffware.eaijava.impl.SWGenericPlugin.execute</p> <p>Although an exception error occurs, the EAI Order step retries and should succeed the next time.</p> <p>Workaround None.</p>

Other Information

The iProcess Engine CNUM_SEQ_CACHE Process Attribute Should be Set to at Least 50 for Each Background Process

The TIBCO iProcess Conductor makes heavy use of sub-procedures, therefore TIBCO recommend that you set the CNUM_SEQ_CACHE process attribute for each Background process (BG) to at least 50. However, you can increase or decrease this value, depending on the volume of requests your iProcess Engine is processing.

See the *TIBCO iProcess Engine: Administrator's Guide* for information about this process attribute and how to set it.

