

TIBCO BusinessEvents®

Release Notes

Software Release 5.0.0

April 2011

The Power to Predict®

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The Power of Now®

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Preface

TIBCO BusinessEvents® allows you to abstract and correlate meaningful business information from the events and data flowing through your information systems, and take appropriate actions using business rules. By detecting patterns within the real-time flow of events, TIBCO BusinessEvents can help you to detect and understand unusual activities as well as recognize trends, problems, and opportunities. TIBCO BusinessEvents publishes this business-critical information in real time to your critical enterprise systems or dashboards. With TIBCO BusinessEvents you can predict the needs of your customers, make faster decisions, and take faster action.

TIBCO BusinessEvents
The Power to Predict®

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TIBCO BusinessEvents Express

The TIBCO BusinessEvents Express edition provides more limited functionality than the TIBCO BusinessEvents standard edition. Some content in this documentation is not relevant to users of TIBCO BusinessEvents Express. Such content includes but is not limited to any chapters and major sections that contain a note indicating that the content does not apply to TIBCO BusinessEvents Express.

Minor references to unsupported features may not be called out in the text. Use the following general guidelines to understand what is and is not supported in these cases:

- Only In Memory object management (OM) is supported. Therefore all functionality that requires Cache OM, such as use of a backing store, is not available. Berkeley DB OM is also not supported with the TIBCO BusinessEvents Express edition.
- The Monitoring and Management component and the related Site Topology editor are not supported with the TIBCO BusinessEvents Express edition. Instead you can use TIBCO Administrator and JMX for deployment, monitoring, and management.
- Only the TIBCO BusinessEvents Decision Manager add-on is supported with the TIBCO BusinessEvents Express edition in this release. Other add-on products are not supported.

Typographical Conventions

The following typographical conventions are used in this manual.

Table 1 General Typographical Conventions

Convention	Use
<i>TIBCO_HOME</i> <i>ENV_HOME</i> <i>BE_HOME</i>	<p>Many TIBCO products must be installed within the same home directory. This directory is referenced in documentation as <i>TIBCO_HOME</i>. The value of <i>TIBCO_HOME</i> depends on the operating system. For example, on Windows systems, the default value is C:\tibco.</p> <p>Other TIBCO products are installed into an installation environment. Incompatible products and multiple instances of the same product are installed into different installation environments. The directory into which such products are installed is referenced in documentation as <i>ENV_HOME</i>. The value of <i>ENV_HOME</i> depends on the operating system. For example, on Windows systems the default value is C:\tibco.</p> <p>TIBCO BusinessEvents installs into a directory within <i>ENV_HOME</i>. This directory is referenced in documentation as <i>BE_HOME</i>. The value of <i>BE_HOME</i> depends on the operating system. For example on Windows systems, the default value is C:\tibco\be\5.0.</p>
code font	<p>Code font identifies commands, code examples, filenames, pathnames, and output displayed in a command window. For example:</p> <p>Use MyCommand 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, MyCommand is enabled: MyCommand [enable disable]

Table 1 General Typographical Conventions (Cont'd)




Convention	Use
<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 BusinessWorks Concepts</i>.• To introduce new terms For example: A portal page may contain several <i>portlets</i>. Portlets 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: Ctrl+C.</p> <p>Key names separated by a comma and space indicate keys pressed one after the other. For example: Esc, Ctrl+Q.</p>
	The note icon indicates information that is of special interest or importance, for example, an additional action required only in certain circumstances.
	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.
	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> <p><code>MyCommand [optional_parameter] required_parameter</code></p>
	<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> <p><code>MyCommand param1 param2 param3</code></p>

Table 2 Syntax Typographical Conventions

Convention	Use
{ }	<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

This section provides links to helpful TIBCO resources.

How to Join TIBCOCommunity

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

How to Access All TIBCO Documentation

After you join TIBCOCommunity, you can access the documentation for all supported product versions here:

<http://docs.tibco.com/TibcoDoc>

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 <https://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.

As is standard in a major release, this edition of the release notes has been purged of all content pertaining to prior releases. To see information pertaining to a prior release, see the release notes provided with that release.

Topics

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New Features

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



TIBCO BusinessEvents Express Content relating to Berkeley DB OM, Cache OM, and backing store is not relevant to TIBCO BusinessEvents Express edition.

Release 5.0

Globalization

TIBCO BusinessEvents and all its add-on products are now G11N certified.

New Cache Provider

The default cache provider is now TIBCO BusinessEvents DataGrid. When configuring Cache OM, an option is provided to choose a cache provider: TIBCO or Oracle Coherence. The built-in cache provider, TIBCO BusinessEvents DataGrid, is the default choice.

Quick Fix Feature

The Quick Fix feature enables you to create concepts, events, and rule functions without leaving the rule editor. It also enables you to add properties to existing concepts and events. The feature is available when an unknown reference appears in the rule or rule function code.

Adding External Library and Custom Function Paths

TIBCO BusinessEvents Studio now provides an option to add external libraries or custom functions via the Debug Configurations > ClassPath tab, and the Run Configurations > ClassPath tab, for your convenience.

Support for Array Types for Rule Functions

Support for array types is now available for rule functions. The form editor pop-up dialog for selecting scope variables now has a checkbox, isArray. You can specify a variable array in the source editor in the usual way, for example, `int[] myArr`.

TIBCO BusinessEvents Monitoring and Management Authentication

TIBCO BusinessEvents Monitoring and Management now supports file based and LDAP based authentication.

It also supports authorization using two predefined roles: USER and ADMINISTRATOR.

LDAP Authentication has New Property

For LDAP authentication, a new property, `be.auth.ldap.useRoleDN`, enables you to use non-fully-qualified names for LDAP

Write-Behind Strategy Now Supported for Backing Store

TIBCO BusinessEvents now supports write-behind strategy in JDBC Backing Store. Applications can now be configured as Cache-Aside or Write-behind.

Changes in Functionality

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



TIBCO BusinessEvents Express Content relating to Berkeley DB OM, Cache OM, and backing store is not relevant to TIBCO BusinessEvents Express edition.

Release 5.0

Buildear Tool Replaced

The command-line `buildear` tool has been replaced by the Studio Tools utility `buildear` option.

Change in Order of Precedence at Runtime

Now properties specified in the TRA file used at runtime override the same properties specified in the CDD file.

Cache Provider Changes

The Oracle Coherence software is no longer bundled with TIBCO BusinessEvents. It is still supported for customers who own their own copy of the software.

Cache-based Examples Use TIBCO BusinessEvents DataGrid

All cache-based examples now use the default cache provider, TIBCO BusinessEvents DataGrid.

Validating a Project or Project Resource

TIBCO BusinessEvents Studio now supports validation for an entire project or for a selected project resource. The validation is enhanced to perform validation at the project, folder, or individual resource level.

Project Analyzer is also enhanced to include shared resources (HTTP Connection, Identity Resource, JDBC Connection, JMS Connection, JMS Application Properties, JNDI Configuration, Rendezvous Transport).

Externalized Store for Trusted Certificates

TIBCO BusinessEvents now supports storing the trusted certificates for SSL in a folder external to the project. You can use a special global variable `BE_GLOBAL_TRUSTED_CA_STORE` to reference this folder.

Metadata Properties Now in CDD (Except TIBCO BusinessEvents Data Modeling)

Metadata properties (also known as extended properties) are no longer supported for entities, except for use with TIBCO BusinessEvents Data Modeling. The other settings that were available using metadata properties are now available in the CDD file in the Cluster tab, in the Domain Objects settings.

HTTP Channel Properties Now in HTTP Channel Advanced Tab

HTTP Channel now has an Advanced Tab to provide advanced configuration settings for the internal server used by the Channel. Those settings were formerly in the CDD file.

Entity Properties for Backing Store Now in CDD

Entity-level backing store configuration was formerly done using entity metadata properties. Now it's configured in the Cluster Deployment Descriptor file.

Backing Store Configuration Uses CDD for Special Cases

The Cluster Deployment Descriptor file is now also used for cases that require project configuration before running the backing store setup utility. You can specify the CDD to use as an argument to the utility.

Monitoring and Management JMX Port Configuration

The JMX port configuration for monitored engines has changed such that only one JMX port is opened, to better handle firewalls.

Version of TIBCO Hawk Requirement for TIBCO BusinessEvents Monitoring and Management

The version of TIBCO Hawk provided with TIBCO Runtime Agent is sufficient to provide machine-level metrics in the TIBCO BusinessEvents Monitoring and Management component. Before the fully licensed version was required.

JMS Connectivity

By default, be-engine connects to all defined channels on startup, including those not mentioned in the Cluster Deployment Descriptor file. This is because such channels can be used as output channels. However this is not always desired.

TIBCO BusinessEvents now provides an option to disable queue or topic connections for specific JMS destinations. Add the following properties to prevent such connections to the queue or topic:

```
be.channel.tibjms.queue.disabled=DestinationProjectPath
```

```
be.channel.tibjms.topic.disabled=DestinationProjectPath
```

Cache-Related Function Name Changes

The below cache related functions that were formerly preceded by C_ are no longer preceded by C_. Their functionality remains the same, and the functions can be used with both the Oracle and TIBCO cache providers. The following table shows the functions that have been renamed.

Coherence Category Name	TIBCO BusinessEvents DataGrid Category Name
C_CacheGetEntityById()	CacheGetEntityById()
C_CacheLoadConceptByExtId()	CacheLoadConceptByExtId()
C_CacheLoadConceptByExtIdByUri()	CacheLoadConceptByExtIdByUri()
C_CacheLoadConceptById()	CacheLoadConceptById()
C_CacheLoadConceptIndexedByExtId()	CacheLoadConceptIndexedByExtId()
C_CacheLoadConceptsByExtId()	CacheLoadConceptsByExtId()
C_CacheLoadEntity()	CacheLoadEntity()
C_CacheLoadEventByExtId()	CacheLoadEventByExtId()
C_CacheLoadEventByExtIdByUri()	CacheLoadEventByExtIdByUri()
C_CacheLoadEventById()	CacheLoadEventById()
C_CacheLoadParent()	CacheLoadParent()
C_CacheName()	CacheName()
C_CacheReevaluate()	CacheReevaluate()
C_ClassName()	ClassName()
C_EnableCacheUpdate()	EnableCacheUpdate()

Coherence Category Name	TIBCO BusinessEvents DataGrid Category Name
C_Flush()	Flush()
C_Index()	Index()
C_Lock()	Lock()
C_TransactionProperties()	TransactionProperties()
C_UnLock()	UnLock()

Deprecated and Removed Features

The Deprecated Features section describes deprecated features and lists equivalent features that accomplish the same result, if relevant. Any use of a deprecated feature should be discontinued as it may be removed in a future release.

The Removed Features section lists any features that are removed in this release.



For a list of all unused and deprecated properties from this or prior releases, see the appendix *Deprecated and Unused Properties* in *TIBCO BusinessEvents Installation*.

TIBCO BusinessEvents Express Content relating to Berkeley DB OM, Cache OM, and backing store is not relevant to TIBCO BusinessEvents Express edition.

Deprecated Features

Release 5.0

No features are deprecated in this release.

Removed Features

Release 5.0

- The legacy Oracle Types backing store implementation is removed in this release. Use the current backing store implementation. See the migration instructions in *TIBCO BusinessEvents Installation* for details.
- Cache Loader Class property is removed from the CDD Cluster tab because the value is set internally based on settings.
- The `base_types.sql` file has been removed. It is no longer needed. It was used with the Oracle Types backing store.
- Use of Solaris 8 and Solaris 9 is no longer supported.

Migration and Compatibility

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



For detailed migration advice and procedures, see the *TIBCO BusinessEvents Installation* guide.

TIBCO BusinessEvents Express Content relating to Berkeley DB OM, Cache OM, and backing store is not relevant to TIBCO BusinessEvents Express edition.

Release 5.0

Additional migration steps are introduced in this release due to architectural changes. See the migration chapters in the *TIBCO BusinessEvents Installation* guide. Below are general details.

In all cases, you must regenerate all EAR files after you upgrade.

Upgrading from Version 4.0.1

You can import 4.0.1 TIBCO BusinessEvents Studio Studio-based projects in TIBCO BusinessEvents Studio 5.0.0 workspace. With a few exceptions, the projects are automatically migrated to 5.0.0 TIBCO BusinessEvents Studio-based projects. Read the migration chapters in *TIBCO BusinessEvents Installation* to understand what manual actions you may have to take.

Upgrading from Version 4.0.0

If you are upgrading from 4.0.0, first upgrade to 4.0.1 and then migrate to 5.0.0.

Upgrading from Version 3.x

You can import 3.x TIBCO Designer-based projects in TIBCO BusinessEvents Studio. With a few exceptions, the projects are automatically migrated to 5.0.0 Eclipse-based projects. Read the migration chapters in *TIBCO BusinessEvents Installation* to understand what manual actions you may have to take.

Upgrading From an Earlier Version

If your existing installation is a version earlier than 3.0.0 upgrade to the latest 3.x release, and migrate your project. Then upgrade to 5.0.0 and migrate your projects. To upgrade to 3.0, read the migration chapters in *TIBCO BusinessEvents Installation* and follow all instructions carefully.

Closed Issues

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



TIBCO BusinessEvents Express Content relating to Berkeley DB OM, Cache OM, and backing store is not relevant to TIBCO BusinessEvents Express edition.

Closed in Release	Key	Summary
5.0.0	BE-9888	In TIBCO BusinessEvents Studio, the UI showed errors if Ontology functions were not called properly in the rule editor.
5.0.0	BE-2899	If the <code>be-jdbcdeploy</code> utility created lines longer than 2499 characters, SQL scripts failed to execute.
5.0.0	BE-2651	The <code>engine.primary.activated</code> advisory event was sent twice during startup.
5.0.0	BE-1621	The ontology function template for the timer event closure attribute indicated that it could accept objects, but it can accept only Strings (as documented).
5.0.0	BE-1264	Engines did not automatically try to reconnect to TIBCO Enterprise Message Service server when the connection was lost.
5.0.0	BE-11932	TIBCO BusinessEvents now validates whether a channel’s queue destination subject is populated.
5.0.0	BE-11931	Fault tolerance did not work correctly with RVCM transport.
5.0.0	BE-11929	Use of <code>sendEvent()</code> to send an event to an MQ Series destination failed when called from a rule that had a <code>TimeEvent</code> in the declaration.
5.0.0	BE-10980	Building an EAR file for a project that contained a project library caused an exception.
5.0.0	BE-10498	When JDBC backing store was used, the TIBCO BusinessEvents engine threw an error when attempting to store and retrieve a concept that had a contained concept array, with history.

Closed in Release	Key	Summary
5.0.0	BE-10494	In the MM component, it was not possible to edit global variables when the global variables' total character length exceeded 8192.
5.0.0	BE-10394	Import WSDL was not working for abstract WSDLs.
5.0.0	BE-10332	Returning a concept array in a rule function was causing an error at engine start-up.
5.0.0	BE-10322	When a field name exceeded 30 characters, sometimes the <code>be-jdbcdeploy</code> utility did not generate SQL scripts correctly.
5.0.0	BE-10321	Global variables with an empty value and defined with type Password did display an encrypted value.
5.0.0	BE-10299	The <code>studio-tools</code> command-line utility for building EAR files was throwing an exception when a project includes any custom function that took a concept array as a parameter.
5.0.0	BE-10295	In the Function Argument Mapper, when the <code>@id</code> attribute of an input was mapped to a concept reference property in the Function panel, the value of the concept reference property was set to null. This problem did not occur in the context of a rule function used as a start up function.
5.0.0	BE-10237	After setting the following property to true in <code>studio.ini</code> : <code>TIBCO.BE.function.catalog.Instance.serialize.instance</code> The <code>Instance.serializeInstance()</code> function showed only nulls at runtime.
5.0.0	BE-10172	It was not possible to externalize SSL certificates. They could only be stored in the project. Now you can store trusted certificates outside of the project and use the following global variable to point to the certificate storage location: <code>BE_GLOBAL_TRUSTED_CA_STORE</code> This variable is documented in <i>TIBCO BusinessEvents Developer's Guide</i> .
5.0.0	BE-10056	With JDBC backing store, database cursors were not properly closed when <code>Coherence.C_CacheLoadEventById()</code> method was called with a 'non-existent' id. Under some circumstances this could cause database cursors to expire.

Closed in Release	Key	Summary
5.0.0	BE-10031	<p>There was no way to identify which post RTC transactions failed or which events were not sent out during the post RTC phase. Now you can register a callback function with TIBCO BusinessEvents. The transaction error handler rule function is invoked each time a database transaction exception occurs, and each time a send event exception occurs.</p> <p>See section on Transaction Error Handler Rule Function in <i>TIBCO BusinessEvents Developer's Guide</i> for details.</p>
5.0.0	BE-9908	<p>In TIBCO BusinessEvents Studio, the UI showed errors if Ontology functions were not called properly in the rule editor.</p>
5.0.0	BE-9898	<p>After importing a TIBCO BusinessEvents project from a different workspace and giving it a different name from the original name of the project, some project resources are not available, due to the project naming structure.</p> <p>Before, you had to open the affected files in a text editor and manually fix the naming.</p> <p>Now, a resource validation check detects when an entity's name, folder, namespace, or owner project name (<code>ownerProjectName</code> attribute) does not match the underlying file in the project.</p> <p>In addition, a "Quick Fix" feature has been added. To invoke the Quick Fix, right click on the validation problem in the Problems View and select "Quick Fix."</p> <p>This is documented in <i>TIBCO BusinessEvents Developer's Guide</i></p>
5.0.0	BE-9870	<p>Upgrading to latest Coherence libraries was throwing "Storage Not Configured" errors.</p>
5.0.0	BE-9645	<p>When you right-clicked a project name in Studio Explorer, the Refactor > Rename option was not available.</p>
5.0.0	BE-9644	<p>With Cache object management, and when cache-aside was not used, "Storage Not Configured" errors were sometimes seen while starting up inference engines, even when the cluster was configured properly and the cache server or servers were up and running.</p>

Closed in Release	Key	Summary
5.0.0	BE-9603	No TIBCO BusinessEvents agents started when the input destinations for any one agent in the CDD were configured such that the directly configured destinations and referenced collections of destinations were listed in mixed order.
5.0.0	BE-9429	In TIBCO BusinessEvents Studio, the CDD was correctly updated for refactoring changes, but if the CDD file was open for editing in TIBCO BusinessEvents Studio when the changes were made, the open file did not reflect the changes. Additionally, the Save button became enabled. If you then saved the CDD file, the old paths were retained and overwrote the correct ones.
5.0.0	BE-9425	TIBCO BusinessEvents did not create an EAR file when any event had a high value for the time-to-live (TTL) setting, for example, 35 days.
5.0.0	BE-8487	On the AIX platform, when a backing store was used, a <code>NoClassDefFoundError</code> was thrown when trying to start engines.
5.0.0	BE-7354	Refactoring did not work well in the Domain Objects section of the Cluster tab in the CDD Editor. Changes made to TIBCO BusinessEvents entities such as events, concepts and so on were not reflected.
5.0.0	BE-5802	Shortcut keys "Shift+Home", "Shift+End", "Home", "End" did not work in the Form editor for Rules and Rule Functions. For the TIBCO BusinessEvents Decision Manager state modeler feature, the shortcut keys also did not work in the rule and expression editors.
5.0.0	BE-5264	If the payload of a <code>SOAPEvent</code> was invalid or had been deleted, and another event inherited from this event, project validation did not report that the payload of the inheriting event was invalid
5.0.0	BE-5173	Even after successful generation of the EAR file, TIBCO BusinessEvents Studio did not always show the message "EAR File was successfully generated."

Known Issues

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



TIBCO BusinessEvents Express Content relating to Berkeley DB OM, Cache OM, and backing store is not relevant to TIBCO BusinessEvents Express edition.

Key	Summary/Workaround
BE-12097	<p>Summary On certain projects, where TIBCO ActiveMatrix BusinessWorks is contained in TIBCO BusinessEvents, and where TIBCO ActiveMatrix BusinessWorks uses XML features, the following exception could appear during TIBCO ActiveMatrix BusinessWorks initialization:</p> <pre>java.lang.NoSuchMethodError: com.tibco.sdk.a.a.a</pre> <p>Workaround Add the full path to .../bw/.../lib/palettes/xdata.jar to CUSTOM_EXT_PREPEND_CP</p>
BE-11616	<p>Summary Profiler does not generate any output when running the engines in cache mode.</p> <p>Workaround None</p>
BE-10835	<p>Summary Renaming or moving or deleting Identity Shared Resources is not reflected in the HTTP SSL Configuration for HTTPS Connection dialog box.</p> <p>Workaround None</p>
BE-11957	<p>Summary TIBCO BusinessEvents Studio throws an error if a WSDL file inside a project or inside a project library refers to an XSD in a project library.</p> <p>Workaround Keep the XSD in the TIBCO BusinessEvents project.</p>
BE-12066	<p>Summary In some situations, while running engines on a heterogeneous cluster (machines with different types of OS), some of the inference engine instances may encounter an exception as shown below, while some other instances crash.</p> <pre>java.lang.RuntimeException: Can't invokeFunction inside the session itself</pre> <p>Workaround None</p>

Key	Summary/Workaround
BE-11958	<p>Summary If a cache agent shuts down ungracefully, entries that were being updated at the point of shutdown can potentially be left in an inconsistent state.</p> <p>Symptoms can be: entries that remain locked even after a successful unlock, or entries that remain in the cache even after the inference agent thinks that it successfully removed the entries from the cache.</p> <p>Workaround Specify a lock TTL greater than the longest expected lock period for the application. Do not use the default value, which is indefinite.</p>
BE-12101	<p>Summary NPE is thrown while using <code>Communication.TCP.readIntoPayload()</code> function.</p> <p>Workaround None</p>
BE-12056	<p>Summary In some situations the TIBCO BusinessEvents Monitoring and Management server hangs while a console user switches from viewing one processing unit to viewing another.</p> <p>Workaround Restart the TIBCO BusinessEvents Monitoring and Management server.</p>
BE-11687	<p>Summary TIBCO BusinessEvents Monitoring and Management server does not support double byte characters in the project name.</p> <p>Workaround Do not use double byte characters in the project name.</p>
BE-11587	<p>Summary When the TIBCO BusinessEvents DataGrid cache provider is used, cache related statistics do not appear in the Monitoring and Management console.</p> <p>Workaround None</p>
BE-11540	<p>Summary TIBCO BusinessEvents Monitoring and Management server does not support double byte characters in the site topology file name.</p> <p>Workaround Do not use double byte characters in the site topology file name.</p>
BE-11535	<p>Summary TIBCO BusinessEvents Monitoring and Management server does not support double byte characters in site topology processing unit configuration names.</p> <p>Workaround Do not use double byte characters in site topology processing unit configuration names.</p>
BE-12092	<p>Summary Hostname or localhost cannot be used in discovery and listen URL.</p> <p>Workaround Use IP address in discovery and listen URL.</p>

Key	Summary/Workaround
BE-12074	<p>Summary Use of TIBCO Hawk with TIBCO BusinessEvents Monitoring and Management (MM) component enables machine-level metrics to display in MM. However this feature is not working on UNIX platforms.</p> <p>Workaround None.</p>
BE-12047	<p>Summary The value of the Message Encoding setting from the CDD file should be overridden by TIBCO Administrator at deploy time, but it is not.</p> <p>Workaround Set the value of the Message Encoding setting in the CDD file to the TIBCO Administrator domain's encoding (that is, they must match).</p>
BE-11532	<p>Summary The performance profiler file remains empty when the project uses Cache object management.</p> <p>Workaround None.</p>
BE-11411	<p>Summary When Cache object management is used, preprocessors are not executed when data is asserted using studio tester in TIBCO BusinessEvents Studio.</p> <p>Workaround None.</p>
BW-10164	<p>Summary Using TIBCO ActiveMatrix BusinessWorks 5.8 can result in a <code>StackOverflowError</code> exception when starting a TIBCO BusinessEvents application that initializes a BusinessWorks process.</p> <p>Workaround Comment the below lines from the <code>log4j.xml</code> file shipped with ActiveMatrix BusinessWorks 5.8.</p> <pre><logger name="tibco.bw.infoRole"> <level value="INFO"/> <appender-ref ref="tibco_bw_log"/> <!-- Add the following appender for Common Logging --> <!-- <appender-ref ref="tibco_bw_BEf2CBEFileAppender"/> --> </logger></pre>
BE-9983	<p>Summary In the Site Topology editor, deployment unit properties, when you change the Deployed CDD and Deployed EAR settings, the Save button does not become enabled.</p> <p>Workaround To enable the Save button, make some change in the Deployment Unit Name, such as adding a letter at the end and then removing it.</p>

Key	Summary/Workaround
BE-9838	<p>Summary This issue occurs when using the XSLT mapper, if "Surround with Choice" is used on an attribute, and you click "OK" without populating the final [When] condition. When the mapper is later reopened, the final when statement no longer surrounds the attribute and the mapper shows an empty 'when' attribute.</p> <p>Workaround Complete all [When] conditions when "Surround with Choice" is used.</p>
BE-9837	<p>Summary This issue occurs when using the XSLT mapper, if "Surround with Choice" is used on an attribute and you click "OK" without populating the [When] conditions. When the mapper is later reopened, the when statement no longer surrounds the attribute and the mapper shows an empty 'Choose/When' attribute.</p> <p>Workaround Complete the condition before clicking "OK."</p>
BE-9836	<p>Summary This issue occurs when using the XSLT mapper, if "Surround with If" is used on an attribute and you click "OK" without populating the condition. When the mapper is later reopened, the if no longer surrounds the attribute and the mapper shows an empty 'If' attribute.</p> <p>Workaround Complete the condition before clicking "OK."</p>
BE-9646	<p>Summary The WSDL export utility generates a non-working WSDL when the input destination is defined using a collection in the CDD file.</p> <p>Workaround Define the input destination directly in the Agent Classes tab.</p>
BE-8445	<p>Summary If the TIBCO Designer™ Add-in for TIBCO Business Studio™ product required by TIBCO ActiveMatrix BusinessWorks is installed in the same Eclipse environment as TIBCO BusinessEvents Studio, enterprise archive generation fails for TIBCO BusinessEvents Studio projects.</p> <p>Workaround None.</p>
1-AUKJNT	<p>Summary The ActiveMatrix BusinessWorks InvokeRuleFunction activity sometimes throws a <code>java.lang.StackOverflowException</code>.</p> <p>Workaround None.</p>
1-ATETI4	<p>Summary When using the command-line <code>buildear</code> tool to generate an enterprise archive for TIBCO BusinessEvents Studio project that was imported from a 3.x TIBCO Designer project, sometimes this harmless exception may be thrown even when the EAR file generates successfully:</p> <p><code>org.eclipse.core.internal.resources.ResourceException</code></p>

Key	Summary/Workaround
1-ASPLV7	<p>Summary If a TIBCO BusinessEvents 3.x project refers to a project library that has global variables, and the project is imported into TIBCO BusinessEvents Studio, the project does not have the global variables.</p> <p>Workaround Manually add the global variables.</p>
1-APZLY5	<p>Summary The TIBCO BusinessEvents Monitoring and Management server occasionally throws a <code>NullPointerException</code> when the server is shutting down.</p> <p>Workaround None.</p>
1-AP0B0E	<p>Summary If a project refers to a project library, rule functions defined in the project library are not available for selection when defining event preprocessors in the CDD Editor.</p> <p>Workaround None.</p>
1-ANUYMG	<p>Summary Refactoring does not work well in the Domain Objects section of the Cluster tab in the CDD Editor. Changes made to TIBCO BusinessEvents entities such as events, concepts and so on are not reflected in this section of the editor.</p> <p>Workaround None.</p>
1-AMQMGB	<p>Summary Project Validation does not throw any errors if a non-existent global variable name is used in some TIBCO BusinessEvents entities such as Shared Resources and channels.</p> <p>Workaround None.</p>
1-ALY1P5	<p>Summary In the XPath formula builder, under the Logical functions category, if the <code>xor</code> function is used, a false warning "Always true" is shown.</p> <p>Workaround None.</p>
1-AJ7M0T	<p>Summary If you are using payloads in events that refer to an element inside an XSD and there are multiple XSDs present in the project with the same element, the TIBCO BusinessEvents engine throws a <code>NullPointerException</code> when deserializing an event with payload.</p> <p>Workaround Keep only the XSD that you need in your TIBCO BusinessEvents Studio project and remove the ones that are not needed.</p>
1-AGWRLS	<p>Summary In a JMS Connection Shared Resource, if the JNDI Configuration resource is renamed, the new name of the JNDI Configuration resource is not reflected in the JMS Connection Shared Resource.</p> <p>Workaround Manually update to the new name.</p>

Key	Summary/Workaround
1-AGP9MQ	<p>Summary In an HTTP channel, if the method of configuration is Properties instead of Shared Resource, then SSL related fields are not present on the channel configuration dialog.</p> <p>Workaround Use Shared Resource as the method of configuration, if you need to use SSL.</p>
1-AF5OHI	<p>Summary Unlike in TIBCO Designer, when a new project is created in Business Events Studio, some global variables such as Domain and Deployment are not created by default.</p> <p>Workaround Create these global variables manually.</p>
1-AEQ6AE	<p>Summary In the XSLT Mapper opened up by <code>Event.createEvent</code> or <code>Instance.createInstance</code> functions, no validation error is thrown if a non scalar value such as a node is dragged and dropped onto the input of a field that can only accept a scalar value.</p> <p>Workaround None.</p>
1-AE3GXX	<p>Summary In JMS channels, <code>CLIENT_ACKNOWLEDGE</code> acknowledgement mode does not roll back prefetched and unacknowledged JMS messages to the queue when the TIBCO BusinessEvents engine stops responding.</p> <p>Workaround None.</p>
1-ABW7KZ	<p>Summary If the payload of a <code>SOAPEvent</code> is invalid or has been deleted, and another event inherits from this event, project validation does not show that the payload of the inheriting event is invalid or had been deleted.</p> <p>Workaround None.</p>
1-ABTGG7	<p>Summary TIBCO BusinessEvents Studio cannot Reset to the original schema after having made changes to the schema in a mapper.</p> <p>Workaround Undo the changes manually.</p>
1-ABDH3C	<p>Summary Even after successful generation of the EAR file, TIBCO BusinessEvents Studio may not always show the message "Ear File was successfully generated."</p> <p>Workaround Check whether the EAR file generated or not.</p>
1-A3EPZ9	<p>Summary The silent uninstaller does not uninstall anything in TIBCO BusinessEvents 4.0.0</p> <p>Workaround Use the GUI Uninstaller instead.</p>

Key	Summary/Workaround
1-9CDYRL	<p>Summary Starting with the 3.0 release, the TIBCO BusinessEvents API works only with In Memory object management. (It does not work with Persistence or Cache object management).</p> <p>Workaround None.</p>
1-919P9B	<p>Summary You cannot assign a DateTime to a bind variable in queries.</p> <p>Workaround In the query, use <code>/#Datetime/parseLong(\$milliseconds)</code> and pass a long integer in <code>\$milliseconds</code>.</p>
1-9146V5	<p>Summary In queries, the type of a bind variable is enforced by its surrounding expression.</p> <p>Workaround In the query, use the following expressions to assign the desired type to the bind variable <code>\$x</code>:</p> <ul style="list-style-type: none"> • For int and long use: <code>(\$x + 0)</code> • For double use: <code>(\$x + .0)</code> • For String use: <code>(\$x "")</code> • For Boolean use: <code>(\$x or false)</code> • For DateTime, pass a long instead of a DateTime and use: <code>/#Datetime/parseLong(\$x)</code>
1-8YHHBD	<p>Summary When ActiveMatrix BusinessWorks is contained within TIBCO BusinessEvents, JAR files that are part of an alias library should be extracted from the EAR during the deployment process, but are not.</p> <p>Workaround Manually place the JAR files in the classpath.</p>
1-8KLNE4	<p>Summary If the location of the persistence database directory is specified using the Database Environment Directory field in the Object Management tab, persistence files are created in the root directory.</p> <p>Workaround Specify the location using the property <code>be.engine.om.berkeleydb.dbenv</code>. The files are then placed in a directory whose name matches the BAR name.</p>

Key	Summary/Workaround
1-8A9FA9	<p>Summary When you use the XPath mapper to assign a concept to a field of type any in the payload of an event, and that concept has a contained concept property with an <code>extId</code> that is not null, the following exception occurs:</p> <p><code>ExtIdAlreadyBoundException: Event is already bound to extId</code></p> <p>Where <code>extId</code> is the instance <code>extId</code> of the concept or its contained concept.</p> <p>Workaround None.</p>
1-86QOZR	<p>Summary Using <code>sendEvent()</code> to send an event to an IBM MQ JMS server fails.</p> <p>Workaround Create two JMS Connection resources and create separate JMS channels for sending and receiving.</p>
1-7UGVMG	<p>Summary Async checkpoint is not working.</p> <p>Workaround Use sync checkpoint. It is enabled by default.</p>
1-7M7QOT	<p>Summary The hot deployment feature does not handle changes made to non-TIBCO BusinessEvents resources, specifically JMS or Rendezvous connection resources.</p> <p>Workaround If you need to change these resources, you must restart the TIBCO BusinessEvents engine.</p>
1-6MMNZW	<p>Summary When a primary statemachine's concept is moved to a folder, then secondary statemachine's path to the called primary statemachine does not get updated.</p> <p>Workaround Update it manually.</p>
1-630PGL	<p>Summary Assigning an empty string ("") to a field in a mapper function will result in a null string.</p> <p>Workaround Set <code>TIBCO.BE.xsltVersion</code> to 2.0 in the <code>designer.tra</code> file and regenerate the mapper XSLT template by opening the mapper function and clicking OK. (This is a non-supported feature because it is part of the XSLT 2.0 specification, which the W3C has not yet released.)</p>
BE-9174	<p>Summary In projects that involve integration with TIBCO ActiveMatrix BusinessWorks, changes made to the TIBCO BusinessEvents EAR file while TIBCO Designer is open are not reflected in the ActiveMatrix BusinessWorks plug-in activities, such as <code>SendEvent</code>. (The EAR file is referenced in the RuleServiceProvider Configuration Resource in TIBCO Designer.)</p> <p>Workaround Restart TIBCO Designer to load the changes in the EAR file.</p>

