

TIBCO ActiveMatrix® BPM Release Notes

*Software Release 4.2.0
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Important Notes

Installation and Upgrade

Use of TIBCO ActiveMatrix Platform 3.3.0 Hotfix 12 (or later) is mandatory for both new installations of and upgrades to TIBCO ActiveMatrix BPM 4.2.

For more information on upgrade, see [Upgrading From a Pre-Version 2.2 ActiveMatrix BPM System](#) and [Upgrading From a Version 2.2 or Later ActiveMatrix BPM System](#).

TIBCO ActiveMatrix® Binding Type for REST 3.3.0 HF01 is a minimum requirement if using REST service invocation tasks from BPM processes. This is **required** on runtime and design-time.




The following table lists known issues in TIBCO ActiveMatrix Platform 3.3.0 that affect TIBCO ActiveMatrix BPM version 4.2. Contact TIBCO Support for up-to-date information on these issues and their resolution.

Key	Summary/Workaround
AMX-15224	<p>Summary: If you upgrade from TIBCO ActiveMatrix BPM version 2.1.0 to version 4.0, the upgrade fails on the first attempt on the upgrade-admin step.</p> <p>Workaround: Re-run the upgrade. The upgrade process completes successfully.</p>

Custom Client Applications Cannot Participate in Single Sign-On Sessions

ActiveMatrix BPM custom client applications cannot participate in single sign-on (SSO) sessions, because of the following known issue in TIBCO ActiveMatrix Platform 3.3.0. Contact TIBCO Support (ActiveMatrix Platform) for up to date information on these issues and their resolution.

Key (SR ID)	Description
IWAP-730 (SR-698553)	<p>Summary: ActiveMatrix BPM custom client applications cannot participate in SSO sessions (for example, using Kerberos or SiteMinder). If a domain-authenticated user tries to access an ActiveMatrix BPM custom client application, two problems occur:</p> <ul style="list-style-type: none"> • Instead of automatically logging in as the domain-authenticated user, a login screen is always presented. • No matter what credentials the user supplies on the login screen, the session still uses the credentials of the domain-authenticated user. <p> In this context, an ActiveMatrix BPM custom client application is an application that is developed using, or supplied as part of, the Client Application Framework - such as Workapp. See the <i>ActiveMatrix BPM Client Application Developer's Guide</i> for more information.</p> <p>Workaround: None.</p>

New Features

New features in this release of TIBCO ActiveMatrix BPM are listed by component.

- [Core Components](#)
- [Clients](#)

Core Components

Application Development

Lightweight Version of the TIBCO Component Framework Library (`tcfservices.nocache.js`)

A *lightweight* version of the TIBCO Component Framework is available. The lightweight version:

- supports the use of business component services and the objectAPI.
- does NOT support the use of business components.
- removes the dependency on the Angular Material library.

Applications that do not use business components can use the lightweight TIBCO Component Framework (`tcfservices.nocache.js`) instead of the original framework (`tcf.nocache.js`), to benefit from improved resource load times. (Applications that use business components must continue to use the original version of the TIBCO Component Framework (`tcf.nocache.js`)).

For more information, see "Using the Lightweight TIBCO Component Framework" in the *TIBCO ActiveMatrix BPM Client Application Developer's Guide*.

Configuring Themes in a Custom Client Application

Custom client applications developed with the Client Application Framework use TIBCO specific themes to define the colors used by the application. An internal `tibTheming` service uses the AngularJS Material `$mdTheming` service to provide and manage themes. There are two TIBCO specific themes:

- All applications use the Default theme.
- The Workapp application also uses the Aquamarine theme.

There is a Theme Customization example application that demonstrates how to use the `tibThemingProvider` function to configure how an application uses the Default theme. This application changes the colors for a clone of the Workapp application.

For more information, see "Configure a Theme for a Custom Client Application" in the *TIBCO ActiveMatrix BPM Client Application Developer's Guide*.

New VERSIONS Tab in Application Development

In Application Development, there is now a **VERSIONS** tab available on the App Config page. This page lists all versions of the selected application and provides options that allow you to:

- delete one or more versions of the application.
- change the current application version to an older or later version.

For more information, see "Application Version Control" in the *TIBCO ActiveMatrix BPM Client Application Management Guide*.

Work Manager

Using ActiveMatrix BPM on the Amazon Web Services (AWS) Cloud

The ActiveMatrix BPM on AWS Cloud sample contains AWS Cloud Formation templates, along with some additional material, which you can use to deploy a distributed ActiveMatrix BPM system on the AWS cloud.

You can download the ActiveMatrix BPM on AWS Cloud sample (TIB_amx-bpm_4.2.0_aws.zip) from the TIBCO ActiveMatrix BPM software section on the TIBCO Software Product eDelivery Site (<http://edelivery.tibco.com/>).

ActiveMatrix BPM Developer Server Sample for Docker

The ActiveMatrix BPM Developer Server sample for Docker contains a dockerfile, along with some additional shell scripts, which you can use to build a Docker image containing a running instance of ActiveMatrix BPM Developer Server.

You can download the ActiveMatrix BPM Developer Server sample for Docker (TIB_amx-bpm_4.2.0_docker.zip) from the TIBCO ActiveMatrix BPM software section on the TIBCO Software Product eDelivery Site (<http://edelivery.tibco.com/>).

Cross-Origin Resource Sharing (CORS) Support

ActiveMatrix BPM supports the Cross-Origin Resource Sharing (CORS) W3C standard. This allows other domains to use ActiveMatrix BPM REST API resources.

The default configuration for ActiveMatrix BPM blocks all other domains. A systems administrator must configure the CORS implementation for the ActiveMatrix BPM server, if CORS support is a requirement. See *TIBCO ActiveMatrix BPM Administration* for more information about how to do this.

New ClientService REST API to Open and Complete Work Items That Start Pageflows

A new `ClientService` is available in the BPM public API, containing requests to open and complete work items that start pageflows.

This service can be used as an alternative to the `WorkPresentationService` when opening and completing work items that start pageflows. When opening a work item using the `ClientService`, you do not have to explicitly start a pageflow using the `PageFlowService` API, which is necessary when using the operations in `WorkPresentationService`. The `ClientService` retrieves the appropriate form for the page activity, and ensures that the work item is completed when the pageflow is completed.

The `ClientService` contains the following requests:

- `completeWorkItem`
- `openNextWorkItem`
- `openWorkItem`

Note that this service is available in REST only.

See the *TIBCO ActiveMatrix BPM Developer's Guide* for more information.

Correlate Immediately Option Now Works on Halted and Suspended Process Instances

The Correlate Immediately option causes an immediate reply to a message received by a process instance, if there are no active process instances with matching correlation data when the message is received. (You set the **Correlate Immediately** option on a Catch Message event or Receive task in TIBCO Business Studio.)

A process instance with matching correlation data may not be available either because the process instance does not exist, or because it is currently halted or suspended.

In earlier versions of ActiveMatrix BPM, an immediate reply was only sent if a matching process instance existed. If a process instance was halted or suspended, correlation was deferred until the process was restarted.

In ActiveMatrix BPM 4.2, when **Correlate Immediately** is set:

- A response is immediately returned to the sender indicating that no process instance with matching correlation data was found, or that matching process instances were found but are in a non-running state (halted or suspended).
- Correlation will still occur at a later time when the process instance with matching correlation data is available and running.



It is the responsibility of any customer-developed user interfaces receiving the response to interpret the additional response information, in order to inform the end user that the update has been received and will be processed later when the process instance is active.

See "Associating Correlation Data with an Event or Task" in the *TIBCO Business Studio Modeling User's Guide* for more information.

Clients

TIBCO Forms

There are no new features in this version.

Mobilespace

TIBCO® Mobilespace is an ActiveMatrix BPM client, available from the Apple App Store and the Google Play Store, which you can use from a smart phone or tablet to access custom client applications.

You can download Mobilespace from the app store for your mobile device (search for it as **TIBCO ActiveMatrix BPM**). When you first open Mobilespace, you need to enter the URL for the TIBCO ActiveMatrix BPM Application Development runtime, and your logon credentials.

Mobilespace includes a standard application: Mobile Case Manager. You open Mobile Case Manager, or a custom mobile application, if available. Through these applications, you can manage cases and access business services and work lists to complete your daily tasks. You can choose and configure your favorite application.

See: [Mobilespace User Video](#).

You need business services and work items that are applicable for a mobile format. TIBCO Business Studio includes a **Publish** option for business services to set the **Target Device** to either **Desktop** or **Mobile**. You can access business services that have the **Target Device** set to **Mobile**.

Use Application Development to customize an application for use with Mobilespace. The process is exactly the same as for desktop applications. Mobile applications use two particular settings in the *ApplicationName.app.desc.json* file. Without one of these settings, the application will not be available to Mobilespace.

Mobilespace is a fully featured mobile app for Apple iOS and Google Android, it has access to the device native API, and does not require mobile specific forms.

For more information, see:

- *TIBCO Business Studio - BPM Implementation Guide*.
- *TIBCO ActiveMatrix BPM Client Application Management Guide*.
- *TIBCO ActiveMatrix BPM Client Application Developer's Guide*.

Openspace

There are no new features in this version.

Workspace

There are no new features in this version.

Changes in Functionality

None in this version.

Deprecated and Removed Features

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.

Description	Deprecated in Release
<p>In the Client Application Framework, the following business components may be removed in a future release.</p> <ul style="list-style-type: none"> • <business-actions-drop-down> • <work-list> • <work-views> <p>Renamed versions of these business components are available and you should use these instead.</p>	4.1
<p>"getWorkListItems" has a redundant response type in the xsd.</p> <ul style="list-style-type: none"> • getWorkListItemsResponseType 	4.0
<p>The correlation behavior for all BX audit events will change in future versions.</p>	3.1
<p>ec_stats table is deprecated and will be removed in a future version.</p>	3.1
<p>Message IDs in BRM service faults will be changed in a future version.</p>	3.0
<p>The following Properties are deprecated and will be removed from ECPublicationJMS.properties in a future release. Therefore the legacy method of event publication valid until TIBCO ActiveMatrix BPM 2.2 will no longer be supported in a future release of ActiveMatrix BPM and only the shared resource approach would be supported:</p> <ul style="list-style-type: none"> • InitialContextFactory • InitialURL • TopicConnectionFactory • SecurityPrinciple • SecurityCredentials • SecurityEncryption • Persistent • Priority • TimeToLive • TopicName 	3.0

Removed Features

Description	Removed in Release
<p>Event Collector does not support the use of Common Base Event (CBE) format. This means that:</p> <ul style="list-style-type: none">• Publication of JMS messages in Common Base Event format (CBE) is not supported.• Use of TIBCO Base Event Format (the TIBCO implementation of CBE) for BPM logging is not supported.	4.0

Migration and Compatibility

Updating Custom Client Applications to Use New jQuery and AngularJS Versions

ActiveMatrix BPM version 4.2 uses new versions of the jQuery and AngularJS third-party libraries, as follows:

- jQuery v3.1.1 (replacing v2.1.3)
- AngularJS v1.6.0 (replacing v1.4.8)

These libraries are packaged as part of Application Development, in the **App Cdn** library application.

Before attempting to run any of your existing custom client applications against ActiveMatrix BPM 4.2, you must update any references in them to the old versions of these libraries, replacing them with the new versions. For example:

```
<script type="text/javascript" src="/apps/app-cdn/tcf/tcf.nocache.js"></script>
<script type="text/javascript" src="/apps/app-cdn/jquery/jquery-3.1.1.js"></script>
<script src="/apps/app-cdn/angular/1.6.0/angular.min.js"></script>
<script src="/apps/app-cdn/angular-ui-grid/ui-grid.min.js"></script>
```

XSD Changes May Require Application Rebuild

Several XSDs have changed in this release of ActiveMatrix BPM.

- `ec-basetypes.xsd` - This XSD was modified to resolve an issue when the `getCommentAudit` operation, from the `EventCollectorReportService`, was called. If the process did not have comments, the data returned from the call did not adhere to the schema.

If you have developed client applications that use the BPM public web service API and that call the `getCommentAudit` operation, you will need to modify the `EventCollectorReportService` schema definition used by your application. To do this:

1. If your application uses:
 - a WSDL generated from the `EventCollectorReportService` running on the ActiveMatrix BPM runtime, regenerate that WSDL.
 - the BPM public web service API (WSDL and XSD files) directly, an updated version of the `ec-basetypes.xsd` file is supplied with this release.
 2. Update your application to use the new `ec-basetypes.xsd` file or regenerated WSDL, as appropriate.
- `wp.xsd`, `wp-basetypes.xsd`, and `wpModel.xsd` - These XSDs were modified to resolve an issue when calling the `openWorkItem` operation from the `WorkPresentationService` service. An error occurred when the work item invoked a dynamic pageflow, because the `openWorkItem` response message did not contain a `formIdentifier` element, which was expected according to the schema. For more information, see WRM-9306 in the Closed Issues section in these release notes.

If you have developed client applications that use the BPM public web service API and that call the `openWorkItem` operation from the `WorkPresentationService` service, you will need to modify the `WorkPresentationService` schema definition used by your application to prevent the error described in WRM-9306 from occurring. To do this:

1. If your application uses:
 - a WSDL generated from the `WorkPresentationService` running on the ActiveMatrix BPM runtime, regenerate that WSDL.

- the BPM public web service API (WSDL and XSD files) directly, updated versions of the `wp.xsd`, `wp-basetypes.xsd`, and `wpModel.xsd` files are supplied with this release. (The updated versions make the `formIdentifier` element optional.)
2. Update your application to use the new `wp.xsd`, `wp-basetypes.xsd`, and `wpModel.xsd` files, or the regenerated WSDL, as appropriate.

Upgrading From a Pre-Version 2.2 ActiveMatrix BPM System

To upgrade to this version of ActiveMatrix BPM, TIBCO ActiveMatrix Platform 3.3.0 HF12 (or later) is required.



When upgrading, the TIBCO Configuration Tool **Upgrade TIBCO ActiveMatrix BPM Instance** wizard will fail when upgrading the BPM database if ActiveMatrix Platform 3.3.0 HF12 or later has not been installed.

See *TIBCO ActiveMatrix BPM Installation and Configuration* for more information on upgrade scenarios and procedures.

Procedure

1. Install this version of TIBCO ActiveMatrix BPM.
2. Using TIBCO Configuration Tool (from `TIBCO_HOME\bpm\version\bin\tct`), run the **Upgrade TIBCO ActiveMatrix BPM Instance** wizard and upgrade the following: **ActiveMatrix TIBCO Host Instance**, **ActiveMatrix Administrator** and **Nodes Hosting ActiveMatrix BPM Instance**. This upgrades ActiveMatrix Platform to version 3.3.0.
3. Stop the TIBCO Host instance (`tibcohost`).
4. Install TIBCO ActiveMatrix Platform 3.3.0 HF12 (or later) and apply the patch using the Patch Manager utility (`tibamx_patchmgr`).
5. Start `tibcohost`.
6. Using TIBCO Configuration Tool (from `TIBCO_HOME\bpm\version\bin\tct`), run the **Upgrade TIBCO ActiveMatrix BPM Instance** wizard and upgrade the following: **ActiveMatrix BPM Instance Application**. This upgrades the ActiveMatrix BPM database.

Upgrading From a Version 2.2 or Later ActiveMatrix BPM System

To upgrade to this version of ActiveMatrix BPM, TIBCO ActiveMatrix Platform 3.3.0 HF12 (or later) is required.



When upgrading, the TIBCO Configuration Tool **Upgrade TIBCO ActiveMatrix BPM Instance** wizard will fail when upgrading the BPM database if ActiveMatrix Platform 3.3.0 HF12 or later has not been installed.

See *TIBCO ActiveMatrix BPM Installation and Configuration* for more information on upgrade scenarios and procedures.

Procedure

1. Install TIBCO ActiveMatrix Platform 3.3.0 HF12 (or later) and apply the patch using the Patch Manager utility (`tibamx_patchmgr`).
2. Install this version of TIBCO ActiveMatrix BPM.
3. Using TIBCO Configuration Tool (from `TIBCO_HOME\bpm\version\bin\tct`), run the **Upgrade TIBCO ActiveMatrix BPM Instance** wizard and upgrade the following: **ActiveMatrix BPM Instance Application**. This upgrades the ActiveMatrix BPM database.

Updating Client Applications to Use SOAP Version 1.2

A TIBCO ActiveMatrix BPM version system can be configured to use SOAP version 1.1 (the default) or version 1.2 bindings. (See *TIBCO ActiveMatrix BPM Installation and Configuration* for more information.)

Up to and including version 2.2, TIBCO ActiveMatrix BPM only supported SOAP version 1.1.

To communicate with a (new or reconfigured) TIBCO ActiveMatrix BPM system that uses SOAP version 1.2 bindings, an existing client application built using a version 2.2 (or earlier) BPM web service API must be modified as follows.

API Used	Modification Required
BPM web service API	Rebuild the application using the SOAP 1.2 version of the API.
Java Service Connector	Reconfigure the application to use SOAP version 1.2 - see "Instantiating and Configuring the Service Connector" in the <i>TIBCO ActiveMatrix BPM Developer Guide</i> .

Workspace Migration

This section describes migration issues if you are upgrading to the new release of TIBCO Workspace.

The only migration task in this release of TIBCO Workspace is to update the URLs to the Workspace and Organization Browser help that are used by the help links in the Workspace application and Organization Browser. These URLs are specified in the **HelpFileLocations** parameter in the Workspace application's `config.xml` file:

```
<record jsxid="HelpFileLocations"
  workspace="https://docs.tibco.com/pub/amx-bpm/Version/doc/html/bpmhelp/GUID-
BEC930CC-206C-4026-8DAB-95AA8DF9A56F.html"
  orgBrowser=" https://docs.tibco.com/pub/amx-bpm/Version/doc/html/bpmhelp/
GUID-53A14AF5-1FF4-4FC9-82F2-004ACD349025.html">
</record>
```

To update these paths, change the **Version** value to the most recent release.

The following describes whether or not you need to perform this migration task, depending on the type of application you are using.

Workspace Application

If you are running the default Workspace application, and you have used the Configuration Administrator to configure your application, you must update your `config.xml` file to include the new URLs. Therefore, you must open Configuration Administrator and add the new URLs.

If you are running the Workspace application, and you have NOT used the Configuration Administrator to configure your application, your `config.xml` file is automatically updated upon upgrade. No migration task is required.

Customized Workspace Application

If you are running a customized Workspace application that has been deployed, you will need to undeploy your application, then after upgrade, update the URLs in your application's local `config.xml` file. Then you need to create a new `.war` file and redeploy it. The newly deployed custom Workspace application will use the new URLs.



This migration task does not apply to custom applications that were created with WCC components.

Closed Issues

Closed issues in this release of TIBCO ActiveMatrix BPM are listed by component.

- [Core Components](#)
- [Clients](#)

Core Components

Work Manager

Key (Case ID)	Description
WRM-9776 (CN-00714307, SR-692103)	<p>A new supportTimeZoneInDateTime property is available in the <code>CONFIG_HOME\bpm\bpm_app_name\configuration\bds.properties</code> file. This property controls timezone support for the "Date Time" data type, when that type is used in a casedata model (and case objects created from that model).</p> <p>See "Business Data Services Properties (bds.properties)" in <i>TIBCO ActiveMatrix BPM Administration</i> for more information.</p>
WRM-9691 (CN-01479911)	When using the BPM public API, the <code>getWorkItemAudit</code> operation (in the <code>EventCollectorReportService</code>) did not return any data if the <code>WorkItemAudit</code> object contained an <code>ERROR</code> .
WRM-9690 (CN-01473570)	Audit data was not being removed from the <code>ec_worker_table</code> Event Collector database table when process instances completed, or when audit data was purged. Over time, this led to an impact in performance on any operations that involved queries on this table.
WRM-9644 (01468924)	<p>When using an Oracle database version, upgrading to ActiveMatrix BPM version 4.1 failed. The following error:</p> <p><code>ORA-00955: name is already used by an existing object</code></p> <p>occurred when running the <code>CONFIG_HOME\bpm\BPMApplicationName\database\WorkManagerUpgrade.sql</code> script (either manually, or when running the TIBCO Configuration Tool "Upgrade TIBCO ActiveMatrix BPM Instance" wizard, as part of the "Upgrade ActiveMatrix BPM Instance Application" action).</p>

Key (Case ID)	Description
WRM-9563 (CN-01469457)	<p>If you added new optional attributes to a class in an existing case data project, then deployed the project as a new minor version, deployment failed with an error similar to this:</p> <p>Incompatible changes made during upgrade of version <number> of model <name></p> <pre>Incompatible changes made during upgrade of version <number> of model <name> Details: The following unsupported changes were made: 1. [Change] Attribute instanceClassName in ActionsObject has changed from null to org.eclipse.emf.common.util.Enumerator 2. [Change] Attribute instanceTypeName in ActionsObject has changed from null to org.eclipse.emf.common.util.Enumerator</pre> <p>This error only occurred if the case data project contained a large number of classes and attributes.</p> <p>The error occurred because the BPM runtime incorrectly detected incompatible changes, even though the project did not contain any such changes. (Adding a new optional attribute to a class is a non-destructive change.)</p>
WRM-9528 (CN-01459876)	<p>The following error occurred repeatedly in the BPM log file:</p> <pre>com.tibco.n2.ec.core.triggers.ProcessHierarchy - Error fetching model for instance [pvm:0axxxxxxx] org.hibernate.MappingException: No Dialect mapping for JDBC type: -9</pre>
WRM-9474	<p>The <code>restserviceconfig.properties</code> file, in the <code>CONFIG_HOME/bpm/bpm_app_name/configuration</code> folder, has been renamed as <code>RESTServiceConfig.properties</code>.</p> <p>Also, the <code>loglevel</code> property (introduced by WRM-9426) now works in Linux environments as well.</p>
WRM-9461	<p>The <code>restserviceconfig.properties</code> file did not get added to the <code>CONFIG_HOME/bpm/bpm_app_name/configuration</code> folder when upgrading from from an ActiveMatrix BPM version 2.2 system.</p>
WRM-9434 (CN-01457371)	<p>Auditing certain attributes (6, 7, 19 and 20) in <code>BRM_WORKITEM_SCHEDULED</code>, <code>BRM_WORKITEM_EX_COMPLETE_WORK_ITEM</code> and <code>BRM_WORKITEM_OPENED</code> messages did not take account of timezones.</p>
WRM-9430 (CN-01449224)	<p>When using a distributed ActiveMatrix BPM system, the Directory Engine (DE) service failed to start on one of the nodes when the nodes were restarted. The following exception was returned:</p> <pre>com.tibco.n2.de.config.InitialDeploymentException: Failed to perform initial deployment of existing Organization Models.</pre> <p>The problem occurred when the node was attempting to process dynamic organization model extension points that took too long to process.</p>

Key (Case ID)	Description
WRM-9426 (CN-01453002)	To reduce logging produced when REST services are called, you can add a property called <code>logLevel</code> to the <code>CONFIG_HOME\bpm\bpm_app_name\configuration\restserviceconfig.properties</code> file. See "Setting Log Level for REST Services" in the <i>TIBCO ActiveMatrix BPM Developer's Guide</i> for more information.
WRM-9373 (CN-01449225)	<p>A process failed, generating the following exception in the BPM log file:</p> <pre>{DAC_INTERNAL_SERVICE_FAULT} - Internal fault whilst processing a Calendar/Deadline service request</pre> <p>The error occurred when calculating the deadline for a user task (for example, on a Catch Timer Event), if the participant for that user task was defined as a reference to a dynamic organization model entity.</p>
WRM-9352 (CN-01443648)	When a client application used the <code>saveOpenWorkItem</code> operation (in the <code>WorkItemManagementService</code>), the request failed if the request body contained a type-based value for a data field defined as a complex type (<code>complexSpec</code>). The request succeeded if it used an element-based value.
WRM-9343 (CN-01253006 / SR-722510)	On a distributed BPM system, if the shared configuration folder (used to store BPM properties files) is not called <code>SHARED_DIR\configuration</code> , upgrading the ActiveMatrix BPM version could encounter problems.
WRM-9316 (CN-01442832, CN-01443904)	<p>In Openspace, if you edited a calendar that did not have a category, the following error was displayed when you clicked save updates:</p> <p>"Base Presenter - Save operation failed"</p>
WRM-9306	<p>A TIBCO ActiveMatrix BusinessWorks application failed (with an 'Output data invalid' error) when calling the <code>openWorkItem</code> operation from the <code>WorkPresentationService</code> service. The error occurred when the work item invoked a dynamic pageflow, because the <code>openWorkItem</code> response message did not contain a <code>formIdentifier</code> element, which was expected by the schema.</p> <p>NOTE: If you have developed client applications that use the BPM public web service API and that call the <code>openWorkItem</code> operation from the <code>WorkPresentationService</code> service, you will need to modify the <code>WorkPresentationService</code> schema definition used by your application to prevent this error from occurring. See XSD Changes may Require Application Rebuild.</p>
WRM-9300 (CN-01259494)	<p>In certain circumstances, upgrading an already deployed Business Data project to a new minor version failed with the following error:</p> <pre>Incompatible changes made during upgrade of version number of model name</pre> <p>This error only occurred in a scenario involving two Business Data projects (for example BDP1 and BDP2), where a class in BDP1 contained an attribute, the type of which was a class in BDP2. If BDP1 were then upgraded, the error occurred.</p> <p>The error occurred because the BPM runtime incorrectly detected incompatible changes, even though the project did not contain any such changes.</p>

Key (Case ID)	Description
WRM-9297 (CN-01259901)	A process could hang in an infinite loop whilst remaining in a Running state. (This problem occurred if a loop task in the process failed while the Process Engine was processing child tasks of the loop task.)
WRM-9296 (CN-01311541)	A user task failed when rescheduling the timeout of a timer event on the task, if the Reschedule Timer Script generated a negative duration. The user task failed with the error: <code>com.tibco.bx.core.faults.BxException: BX-200002: Parsing Error: [XsDateTime invalid: -P2D]</code>
WRM-9229 (CN-01252570)	Work item attribute fields of type DateTime (for example, attribute6 and attribute7) were being displayed in the wrong format.
WRM-9224 (CN-01446081, CN-01239572 / SR-740136)	When publishing BPM audit data to an external Enterprise Message Server (EMS), the number of EMS message producers kept increasing, eventually causing a resource leak. This error occurred if the amx.bpm.ec.threadpool resource template used different values for its Core Pool Size and Max Pool Size values. In this case, threads are created and reclaimed dynamically as required, but reclaimed threads were not being handled correctly, causing the increase in EMS message producers.
WRM-9191 (CN-01243014)	In the BPM public web service API, the getCommentAudit operation (from the EventCollectorReportService) response sometimes failed validation against its own schema.
WRM-9190 (CN-01242331 / SR-750281)	In Openspace, when using a case action to view case data, sometimes only an empty form was displayed instead of the case data. (If the same case action was invoked via a business service, the case data was displayed correctly.) Also, a TIBCO form that worked properly in Openspace did not render properly when displayed by a custom client application. Symptoms were, for example, missing data, scripts not running or unpopulated dropdown lists. This problem occurred when the form data contained special characters - for example, an ampersand (&).
WRM-9178 (CN-01242948)	After upgrading to ActiveMatrix BPM 4.1, an application that worked on the earlier version of ActiveMatrix BPM failed to deploy with the error: Caused by: <code>com.tibco.n2.javascript.EvaluatorException: Java class "SONAECOM.TIBCO.BPM_OUTBOUND.Services.GenerateOrder.Root.impl.DataInputImpl" has no public instance field or method named "B2Cdeliveryinfo". (<Unknown source>#3)</code> This error occurred if the application contained a BOM attribute which used a non-alphabetic character in the second position of its name.

Key (Case ID)	Description
WRM-9159 (CN-01239721)	<p>Using the doPurgeAudit operation (from the EventCollectorManagementService) did not successfully purge all process instance related data if Statistics Collection was disabled.</p> <p>As a result of this change, you must manually update the <code>ec-event-rules.xml</code> file when you have upgraded to ActiveMatrix BPM 4.2 See "Performing Post-Upgrade Tasks" in <i>TIBCO ActiveMatrix BPM Installation and Configuration</i> for more information.</p>
WRM-9155 (CN-00743595)	<p>When using the <code>PEUtil --dumpprocess</code> command and getting tasks for sub-processes, the wrong tasks were written to the output file.</p>
WRM-9149 (SR-727733, SR-739785)	<p>When upgrading to ActiveMatrix BPM 4.1.0, the "Wait for empty queues" task failed and an exception was written to the <code>CONFIG_HOME\tct\bpmupgrade\timestamp\logs\upgrade.bpm.log</code> file. (This problem occurred when running the "Upgrade ActiveMatrix BPM Instance Application" action from the TIBCO Configuration Tool "Upgrade TIBCO ActiveMatrix BPM Instance" wizard, but occurred only when upgrading a BPM system which used an Environment name other than the default "BPMEnvironment".)</p> <p>NOTE: This exception did not cause the upgrade to fail. The upgrade still completed successfully with a "BUILD SUCCESSFUL" message.</p>
WRM-9079	<p>A call to the EventCollectorReportService (in the BPM public web service API) failed with an exception if any of the audited events for the requested process, case or workitem did not contain the "messageCategory" attribute (typically custom audit events).</p>
WRM-9076 (CN-00732676 / SR-695323)	<p>When updating a case, if you nullified a global object that was contained in the case object, the global object was left as an orphan entry in the case data store, instead of being deleted as it should have been. (This problem occurred if the global object was contained in the case object via a one-to-one containment (or indirectly via other such global objects), and the case object was updated such that the global object was no longer referenced.)</p>
WRM-9053 (SR-705903)	<p>Upgrading ActiveMatrix BPM from version 2.1 to version 4.1 failed at the "Restarting BPM Nodes" step of the "Upgrade ActiveMatrix BPM Instance Application" configuration action. The following error was written to the <code>CONFIG_HOME\tct\bpmupgrade\timestamp\logs\upgrade.bpm.log</code> file:</p> <pre>{EC_LIFECYCLE_STARTUP_ERROR} - Start-up Process failed!</pre> <p>This error occurred because the upgrade process did not find a</p> <pre><messageIds> </messageIds></pre> <p>block in the <code>CONFIG_HOME\bpm\bpm_app_name\configuration\ec-probe-rules.xml</code> file. (This code block had been commented out before upgrading.)</p>

Key (Case ID)	Description
WRM-8988 (SR-692454, SR-724555)	<p>Using the Case Data Query Language (DQL) findByCriteria method in a script to search for case objects by criteria failed at runtime. The following error was written to the BPM log file:</p> <pre>[ERROR] com.tibco.bds.core.services.impl.BusinessDataServicesPrivateServiceImpl - [ERROR] - {BDS_GLOBAL_DATA_FIND_BY_CRITERIA_FAULT} - Fault while attempting to find BDS Class using Criteria...</pre> <p>This error occurred when performing a search against an enumeration attribute, and occurred only if the case data model referenced by the search was very large.</p>
WRM-8954	<p>When using the allocateAndOpenNextWorkItem operation (from the WorkItemManagementService in the BPM web service API), you can use the optional workListViewId parameter to get a work view for the next work item. If multiple calls used the same workListViewId parameter this could result in performance degradation.</p>
WRM-8919 (SR-681839)	<p>If a push destination for a user (resource) was mapped to a resource attribute, which was in turn mapped to the attributes of an LDAP entity, a DE_INTERNAL_SERVICE_FAULT error would occur when retrieving the push destinations for that resource if the mapped LDAP entity no longer existed. For example, this error could occur:</p> <ul style="list-style-type: none"> • in Workspace, if you clicked a position in the Organization Browser (to retrieve the details of all users mapped to that position). • in the ActiveMatrix BPM web service API, when using the ExecuteQuery operation from the ResourceQueryService.
WRM-8914 (SR-722510)	<p>When using an Oracle database version, upgrading to ActiveMatrix BPM version 4.1 failed. The following error:</p> <pre>ORA-00955: name is already used by an existing object</pre> <p>occurred when running the <code>CONFIG_HOME\bpm\BPMApplicationName\database\WorkManagerUpgrade.sql</code> script (either manually, or when running the TIBCO Configuration Tool "Upgrade TIBCO ActiveMatrix BPM Instance" wizard, as part of the "Upgrade ActiveMatrix BPM Instance Application" action).</p>

Process Manager

Key (Case ID)	Description
BX-3214	amx.bpm.app redeployment after removing a node from the amx.bpm.app distribution halts process instance creation/execution.
BX-2507	Data in the database and server's response can not display correct characters outside the character set supported by the default system encoding. This could cause the extended message to be displayed incorrectly.

Key (Case ID)	Description
WRM-9689 (CN-01476789)	<p>In Openspace, when viewing the audit trail for a process instance, BX_CUSTOM audit messages were displayed for events that did not appear to belong to that process instance - for example, events with timestamps that did not relate to the selected process instance. This problem occurred if:</p> <ul style="list-style-type: none"> • The process contained scripting that used the Process.auditLog() method to add process-instance related event log entries to the audit log, AND • The process called one or more service processes. <p>The problem occurred because service processes (which are designed to be short-lived and so run as in-memory instances) have the following characteristics:</p> <ul style="list-style-type: none"> • They have process IDs that are unique within the context of their parent process, but are not globally unique. Thus, whenever a new process instance called a particular service process, the service process would get the same process instance ID - pvm:0a101. (A subsequent service process within the same parent would have instances with ID pvm:0a102, and so on.) • They are not audited by default. However, using the Process.auditLog() method does create a BX_CUSTOM audit entry for a service process instance. Thus, using the Process.auditLog() method created multiple BX_CUSTOM audit entries for what looked like the same process instance ID in the Openspace audit trail. <p>Now, use of the Process.auditLog() method is not supported for in-memory process instances (service processes, pageflow processes or business services). If the Process.auditLog() method is used on one of these processes (whether started from within a parent business process or independently), no audit entries will be generated.</p>
WRM-9628 (CN-01477120)	<p>A business service was used to start a process that contained a mandatory parameter of type Integer. The process failed to start and the following error was written to the BPM log file:</p> <pre>IllegalArgumentException: parameter type mismatch</pre> <p>The problem only occurred if the parameter was defined with a length of 10 or more.</p>
WRM-9610 (CN-01474007)	<p>After deploying a new minor version of a case data model (containing additional attributes), users were unable to open any work items that were created using a process version that referred to the older version of that case data model.</p> <p>This problem only affected processes that used pageflows or calls to service processes, and was caused by the way that case reference were handled internally when being passed between these entities.</p>
WRM-9586 (CN-01472849)	<p>If a process instance halted because publication of audit data to an EMS server failed for some reason, the process instance could not be retried. Any attempt to retry the halted process instance resulted in it going into the "Active" state but never progressing.</p>

Key (Case ID)	Description
WRM-9564 (CN-01469297)	<p>If a business process called an external REST service (using a service task) and the service was unavailable, the process halted with the following exception:</p> <pre>com.tibco.bx.core.faults.BxException: For input string: "ServiceUnavailableException"</pre> <p>This occurred even if the process was configured with a "Catch All" activity.</p>
WRM-9551 (CN-01456801)	<p>A service process instance or pageflow process instance would sometimes hang when processing a service task, if the called service returned an error. For example, an instance hung on a database service task if the associated JDBC connection was trying to use the wrong user or a locked account. The error should instead have been either caught by in-process logic (for example, by a Catch Error event), or caused the process instance to halt.</p> <p>The problem occurred when processing the retry settings configured on the service task. Note that this problem only affected in-memory process instances, not stateful business process instances.</p> <p>Now, ActiveMatrix BPM ignores the retry settings configured on the service task for in-memory process instances (only). The error is processed immediately, allowing it to be caught within the process or causing the process to halt, as appropriate.</p>
WRM-9450 (CN-01458884)	<p>If a BPM node has crashed or is deemed to be inactive, a periodic recovery thread attempts to recover any instances related to that node. This includes going through the process tracker and in-memory tracker tables. These are used to track the status of sub-process instances.</p> <p>An error in the recovery processing sometimes caused a null pointer exception. This resulted in the rest of the recovery process repeatedly not completing.</p>
WRM-9416	<p>The behavior of the Correlate Immediately flag has been modified. When an event or receive task is set to correlate immediately, but the process instance is not currently available (for example, because it does not exist, or it is halted or suspended):</p> <ul style="list-style-type: none"> • A response is immediately returned to the sender indicating that no process instance with matching correlation data was found, or that matching process instances were found but are in a non-running state (halted or suspended). • Correlation will still occur at a later time when the process instance with matching correlation data is available and running. <p>See "Specifying Correlate Immediately" in the <i>TIBCO Business Studio Modeling User's Guide</i> for more information.</p>
WRM-9295 (CN-01253006 / SR-722510)	<p>During an upgrade, the <code>createdb-admin.sql</code> script failed with an <code>ORA-28007: the password cannot be reused</code> error. This occurred because the script used the database password multiple times (via the IDENTIFIED BY clause), which was not permitted by the database profile.</p>

Key (Case ID)	Description
WRM-9294 (CN-01260121)	<p>If a process instance contained a sub-process that had previously been migrated, an attempt to retry, suspend or resume the process failed, generating the following exception in the BPM log file:</p> <pre>[ERROR] com.tibco.pvm.system.PvmSystem - Unexpected Uniqueness Violation</pre>
WRM-9282	<p>A runaway process generated a large number of tasks within a single process instance. This resulted in the instance generating large numbers of audit events and lots of rows in the PVM_* database tables.</p> <p>Now, when the BPM runtime starts to process an event for a process instance, it checks (and increments) how many tasks the process instance already has. If this value equals or exceeds a threshold the process instance halts and writes the following warning to the BPM log file:</p> <pre>[WARN] - {MAX_TASKS_PER_INSTANCE_REACHED} - Instance [pvm:xxxxx] has reached the maximum number of tasks allowed: [1,000].</pre> <p>and the following audit message:</p> <pre>BX_INSTANCE_PROCESS_MAX_TASKS_REACHED Maximum number of tasks per instance reached</pre> <p>You can configure the threshold value (default 1000) using the <code>com.tibco.bx.maxTasksPerInstance</code> JVM property. See "Configuring the Maximum Number of Tasks per Process Instance" in the <i>TIBCO ActiveMatrix BPM Performance Tuning Guide</i> for more information.</p>
WRM-9281 (CN-01258860)	<p>Completed processes were not being automatically purged. (This problem occurred where a main process and a sub-process were both active when the main process was cancelled. The main process instance was being purged but the sub-process instance was not.)</p>
WRM-9277 (CN-01258860)	<p>A process instance was still displayed in Workspace after it had completed. (This problem occurred if the process invoked a Terminate end event while it had an active sub-process instance.)</p>
WRM-9274 (CN-01258781, CN-01446144, CN-01450736, CN-01455807)	<p>When an in-memory process instance is created, such as calling a service process via sub-process task, an Id is generated for the instance that is only unique to the instance of the BPM node where it was created. If an instance is created on another node there is a possibility that it will clash with an instance on another node when a row is written to the PVM_INMEM_PROC_TRACKER table, resulting in a primary key violation.</p>
WRM-9266 (CN-01257104)	<p>In some situations, an expression or script was evaluated incorrectly because the process instance was using an old value (that is, one set earlier in the process instance's lifecycle) instead of the current value. This could lead to unexpected behavior - for example, a gateway following an unintended path.</p>
WRM-9230 (CN-00719110 / SR-706408)	<p>Populating an attribute with a value containing any special characters sometimes caused the process instance to halt, due to an error in writing the attribute value to the BPM database.</p>

Key (Case ID)	Description
WRM-9141 (SR-737365)	<p>Invoking a business process from a business service failed if the payload contained an array type that referenced a BOM. The following error was written to the BPM log file:</p> <p>"The processing instruction target matching "[xX][mM][lL]" is not allowed."</p>
WRM-9138 (SR-721900)	<p>A sub-process that invoked a service task remained in "Completing" status even though it had finished, causing the parent process to wait indefinitely. A race condition could occur on the process instance invoking the service task, making it appear to the parent process that the sub-process instance had not completed.(This problem occurred only if the service task was very short-lived - for example, a process that simply executed a script.)</p>
WRM-9110 (CN-00740153 / SR-723447)	<p>An attempt to cancel a number of process instances failed if those process instances contained large numbers of child instances (either sub-process instances or user tasks). This occurred because the time taken to process the cancellation exceeded a transaction timeout value, causing the transaction to roll back. To resolve this problem, cancellation requests are now processed in batches.</p> <p>NOTE: The batch size defaults to 100, and can be configured using the <code>com.tibco.bx.maxCancelChildrenBatchSize</code> JVM property. Do NOT change the value of this property unless you are advised to do so by TIBCO Support.</p>
WRM-9091 (SR-718742)	<p>Global signal tasks that used mapping scripts to access case data failed at runtime. The mapping failed and the following error was written to the BPM log file:</p> <p>Caused by: <code>com.tibco.bds.services.SecurityFault: API authorization failed</code></p>
WRM-9082 (CN-00737656, CN-01252454, CN-01452206)	<p>A process failed when processing parameters on an invocation of a sub-process from a pageflow, if the parameters included any BOM fields. A <code>PROCESS_EXIT_WITH_FAULT</code> error was written to the BPM log file (with exception detail relating to the classloaders being used for the BOM fields being passed to the sub-process).</p>
WRM-9022 (SR-700751, SR-698038, SR-690958)	<p>On ActiveMatrix BPM version 3.1.0_HF-003, deployment of an application containing a WSDL failed, if the WSDL contained an inline "urn" namespace schema that referred to another "urn" namespace schema in the same WSDL. This problem affected both new applications, and applications migrated from earlier versions of ActiveMatrix BPM - even where that application had worked correctly in the earlier version and the WSDL had not been changed.</p>
WRM-8934 (CN-00711501)	<p>Additional logging information is now provided to assist users in the event of problems when deploying business services, pageflows and business services.</p>
WRM-8878 (CN-00807167 / SR-651541)	<p>Correlation messages were sometimes not being processed correctly when using asynchronous Send/Receive tasks, even though the correlation id and correlation data were identical.</p>

Key (Case ID)	Description
WRM-8876 (CN-00808116 / SR-655441)	In certain circumstances, attempting to resume a HALTED process instance resulted in the process incorrectly going into a FAILED state. This meant that you could not attempt another resume.
WRM-8875 (CN-00807238 / CN-00778329)	Correlation processing sometimes failed when one or more receivers, matching the correlation data, referenced non-existent tasks or processes. The BPM runtime now: <ul style="list-style-type: none"> • checks for valid tasks referenced in waiting rows of the PVM_MSG_WAITING_RECEIVER BPM database table. • provides extra information on INFO level logging messages. • writes a WARN level logging message if a matching receiver is found with a non-existent task or process.
WRM-8874 (CN-00779900 / SR-656450)	In Openspace, when listing migration rules, sometimes an exception was thrown - for example: <pre>at java.lang.Thread.run(Thread.java:745) Caused by: java.lang.NullPointerException at com.tibco.bx.management.BxManager.listMigrationRules(BxManager. java:4244) ...</pre> <p>This happened because, although the migration versions existed, information about the migration versions was not complete. Now, any missing data is skipped and the migration rules display. Any warnings about invalid rows are written to the BPM log file.</p>
WRM-8873 (CN-00779950 / SR-656630)	An exception occurred when processing catch tasks for a specific throw event in a process, if one or more of the catch tasks did not exist. Now, if any of the catch tasks do not exist, they are skipped and the task continues processing as normal. Any warnings about missing catch tasks are written to the BPM log file.
WRM-8793 (CN-00778329 / SR-651342, CN-00807238 / SR-651828)	For correlation processing, the BPM runtime now provides additional information on INFO level logging messages to show how many matching receivers have been found for the correlation data. For example: <pre>[INFO] - {BX_FOUND_WAITING_RECEIVERS_NUMBER} - Found [3] waiting receiver(s) for... ... [INFO] - {BX_FOUND_WAITING_RECEIVERS_NOTIFIED} - Waiting receiver has been notified for ID=pvm:001iap PID=204</pre>
WRM-8806 (SR-661221, SR-666985)	Process data was not displayed in the Audit Trail in Openspace when auditing of process data was enabled. This occurred if only structured (BOM) data fields were mapped to audit event data attributes. In this case, the values of the audit event data attributes were not populated to the EC_PE_STATUS table in the ActiveMatrix BPM database. If at least one simple data field was mapped to an audit event data attribute, the problem did not occur.

Client Application Framework / Application Management

Key (SR ID)	Information
WBPM-1056	When using the objectAPI to develop a custom client application, unexpected runtime exceptions were not caught and reported to the calling application through the <code>onFailure()</code> callback mechanism, making it difficult to identify and debug the problem.
WBPM-1055	<p>The <i>TIBCO ActiveMatrix BPM Client Application Developer's Guide</i> did not provide enough information to make it possible to host a custom client application on an external web server. Additional information has now been provided about:</p> <ul style="list-style-type: none"> • configuring a proxy to handle cross-domain calls • localization <p>See "Hosting Applications on External Web Servers" in the <i>TIBCO ActiveMatrix BPM Client Application Developer's Guide</i> for more information.</p>
WBPM-1054	When a custom client application used the <code>GlobalDataService.readCase</code> objectAPI call on a large text field that contained newline ('\n') characters, the call either failed to return data, or returned it with an error.
WBPM-1053 (CN-01251262)	When you used WebApp to create a custom BPM client, <code><bpm-work-list></code> did not work after the page containing it had been reloaded.
WBPM-1000 (CN-01445409)	In the My Work Application, the Italian flag was missing.
WBPM-991	In the My Work Application, if you started a business service that did not contain a user task, the business service went into a loop and did not complete. You could not start any other business services unless you refreshed your browser.
WBPM-984	When using the Case Management application in Mozilla Firefox, if the case list contained more cases than could be displayed on a single page, no vertical scrollbar was displayed to allow you to access the remaining cases.
WBPM-983	In the Case Management application, when you added a comment then refreshed the display to see the comment, the display username associated with the comment was truncated.
WBPM-981	In the Case Management application (or any custom client application that used the <code><bpm-comments></code> component), when you added the first comment on a case the comment disappeared. Refreshing the view would eventually cause the comment to re-appear.
WBPM-980	In Application Management, sometimes when you deleted an application the application was still shown in the application list, and a minute or two later an incorrect "Delete Application Failed!" dialog was displayed. When you clicked OK and refreshed the display, the deleted application was no longer visible.
WBPM-970 (CN-01249296)	A <code>Theme_Customization_Example</code> application, supplied with this version, demonstrates how to customize the themes used by a custom client application. See "Configuring a Theme for a Custom Client Application" in the <i>TIBCO ActiveMatrix BPM Client Application Developer's Guide</i> for more information.

Key (SR ID)	Information
WBPM-967 (CN-01249817)	Display labels defined for work item attributes (in a Work List Facade project) were not being shown in an application using the <bpm-work-list> component. The attribute name was displayed instead of the display name.
WBPM-966 (CN-01251390)	In the Component Showcase application in Openspace, business services with parameters were displayed.
WBPM-959 (CN-01248744)	In the My Work application, changing the language used (from the dropdown menu) did not affect work item forms. Forms were still displayed in the original language, even if they had been localized to support the chosen language.
WBPM-958	<p>A lightweight version of the TIBCO Component Framework library (<code>tcfservices.nocache.js</code>) is now available. The lightweight version:</p> <ul style="list-style-type: none"> • supports the use of business component services and the objectAPI. • does NOT support the use of business components. • removes the dependency on the Angular Material library. <p>Applications that do not want to use business components can use the lightweight TIBCO Component Framework (<code>tcfservices.nocache.js</code>) instead of the original (<code>tcf.nocache.js</code>), to benefit from improved resource load times.</p> <p>NOTE: Applications that use business components must continue to use the original version of the TIBCO Component Framework (<code>tcf.nocache.js</code>).</p> <p>See "Using the Lightweight TIBCO Component Framework" in the <i>TIBCO ActiveMatrix BPM Client Application Developer's Guide</i> for more information.</p>
WBPM-952 (CN-01239315)	After upgrading the UI grid, clicking the worklist grid column to view the column-specific menu displayed an error.
WBPM-938 (CN-00725332 / SR-726455)	In the Case Management application, linked cases did not display. (This problem occurred if the case reference had an array of associations with other cases.)
WBPM-937 (CN-00724361 , SR-724248)	In Openspace, if a text field on a form contained HTML code, previewing the work item would execute the code instead of displaying it.
WBPM-932 / WBPM-977	<p>In Application Management, there is now a VERSIONS tab available on the App Config page. This page lists all versions of the selected application and provides options that allow you to:</p> <ul style="list-style-type: none"> • delete one or more versions of the application. • change the current application version to an older or later version. <p>See "Application Version Control" in the <i>TIBCO ActiveMatrix BPM Client Application Management Guide</i> for more information.</p>

Key (SR ID)	Information
WBPM-930 (CN-00726117 , CN-00725652)	The time taken to start the Client Application Framework has been reduced, so reducing the time taken to start the ActiveMatrix BPM application.
WBPM-722	In the Workapp sample application, comments showing the use of individual business components specified the wrong path for the "template-path" attribute.
WBPM-721	In Application Management, when you tried to launch a cloned application it failed with an HTTP "404 NOT FOUND" error. This error would occur if, when cloning the application, you used a space character (' ') in the new application's name.
WBPM-705	In the My Work application, if you selected a work item in Table view and then refreshed the display, no menu items were displayed for the work item.

Clients

TIBCO Forms

Runtime

Key (SR ID)	Description
FORM-6744 (CN-01446107)	If a grid in a form was configured as read-only, it was still possible to delete a row in that grid by pressing the DELETE key.

Openspace

None in this version.

Workspace

Key (SR ID)	Description
WS-1775	If Workspace was configured to open work item forms in a separate browser window, the first attempt to open a form failed and the separate browser window was blank. This was intermittent and a second attempt to open the same form was most often successful. When attempting to logout, an error message was displayed: "A work item form is open in a separate browser window". This message was caused by the form that failed to load and prevented the user from logging out.
WS-1754	If a user entered a filter expression for a string and did not properly escape the required special characters, an error was displayed and the prior filter was used (and correctly shown in the filter builder).
WS-1770	When new event system views were created from predefined filter templates in the wizard, recipients of those system views did not always see the correct list of events when the view was selected.

Key (SR ID)	Description
WS-1758	Tooltip attributes that were specified in . . . \JSXAPPS\base\components\xml\listTypeDisplayFields.xml files were being ignored.
WS-1753	The DOJO toolkit was removed from TIBCO Workspace as it is no longer used.
WS-1751	In Microsoft Internet Explorer 11, if the mouse wheel was used to scroll a list that was inside a parent list, the parent list scrolled instead of the intended list.
WS-1750	Filter, Sort, and Column Selector dialogs were taking a long time to load if there was a large number of attributes.
WS-1748	If an item was selected in the work item, process instance, or event viewer lists, and the Filter tool was opened and closed, the item was no longer selected in the list. However, toolbar buttons and the Preview Pane still indicated that an item was selected.
WS-1382	When a resource was created in the Organization Browser, the Save button was not enabled when a unique resource name was specified.

Known Issues


Known issues in this release of TIBCO ActiveMatrix BPM are listed by component.

- [Core Components](#)
- [Clients](#)
- [Platform](#)


Core Components

Work Manager

Key	Description
WRM-9789 (CN-01469457)	<p>Summary: When you do an application upgrade of previously deployed Business Data Projects, the application may fail if:</p> <ul style="list-style-type: none"> • you have Business Data Projects where one refers to another. • the initial version of these projects were deployed using versions previous to TIBCO ActiveMatrix BPM 4.1 HF-5 or TIBCO ActiveMatrix BPM 4.0 HF-3. • Business Data Projects contain multiple BOMs. <p>Workaround: None.</p>
WRM-9049	<p>Summary: The ActiveMatrix BPM documentation incorrectly states that the use of Common Base Event (CBE) format is supported for the following:</p> <ul style="list-style-type: none"> • Publishing audit data to a JMS message topic. (See " Publication of BPM Audit Data to a Java Message Service (JMS) Topic > Supported JMS Message Formats" in <i>BPM Administration</i>.) • Use of TIBCO Base Event Format (the TIBCO implementation of CBE) for BPM logging. (See " Defining Logging Information > Use of Base Event Format for Logging > Enabling the Base Event Format" in <i>BPM Administration</i>.) <p>This information is incorrect. Use of CBE format for these purposes was discontinued in ActiveMatrix BPM 4.0. (See Deprecated and Removed Features.)</p> <p>Workaround: Do not use CBE format for BPM logging or publishing audit data to a JMS topic. Use TIBCO's internal format instead.</p>

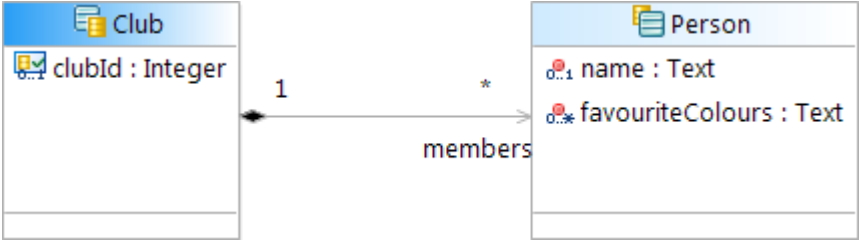
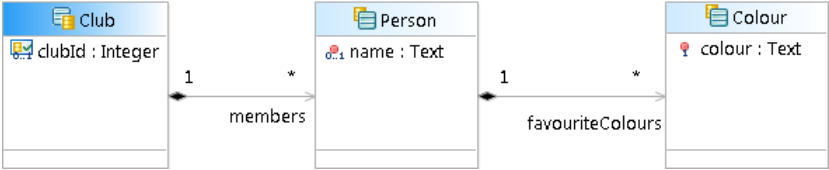
Key	Description
WRM-9011 (SR-698834)	<p>Summary: Deployment can fail to complete (giving the appearance that it is taking forever) if a certain pattern of classes exists in a BOM. This issue can occur when a case class contains the same global class twice (whether by an attribute or composition relationship). For example, a 'Customer' case class may contain an 'Address' global class (multiplicity 0..1). If 'Customer' also has a one-to-many composition to 'PlaceOfWork' which, in turn, contains that same 'Address' class, then this issue may be exposed.</p> <p>Workaround: Consider duplicating the shared class. In the previous example, you could create a global class 'WorkplaceAddress' containing the same set of attributes as 'Address'. The composition from 'PlaceOfWork' will then make use of that class, instead of using 'Address'. This avoids 'Address' being used in two places.</p> <div data-bbox="550 661 598 703">  </div> <p>This issue does not affect all situations where a global class is shared, so it remains best practice to share global classes unless it is found to cause problems.</p>
WRM-8943	<p>Summary: When dynamic organization model extension points are used, the organization model cannot be undeployed until any dynamically generated organization model entities have been removed. Attempting to force undeploy the organization model results in an error in the BPM log file - for example:</p> <pre data-bbox="550 945 1476 1228">[ERROR] com.tibco.amx.cf.logger.internal.core.ComponentFramework - Error while executing component action UNCONFIGURE_READY_FOR_UNDEPLOY_COMPONENT_ACTION for component com.tibco.amf.platform.runtime.componentframework.internal.comp onent.ImplementationComponent@50e26321. java.util.concurrent.ExecutionException: com.tibco.n2.de.dao.exception.DeleteEntityException: Error encountered whilst deleting entity. [XYZInsuranceOrganizationModel(1.0.0.201310270716)]</pre> <p>Workaround: Using the BPM web service API, call the <code>setExtensionPoints</code> operation (from the <code>OrgModelService</code>) to delete any affected organization model extension points.</p>
WRM-8893 (SR-678188)	<p>Summary: In a pageflow, using the <code>clear()</code> method on a field of type <code>TextArray</code> results in a <code>java.lang.UnsupportedOperationException</code> run-time error.</p> <p>Workaround: Use the <code>DataUtil.createList()</code> method to clear the array instead. For example:</p> <pre data-bbox="550 1554 1476 1648">//Use: //TextArray = DataUtil.createList(); // instead of: // TextArray.clear();</pre>

Key	Description
WRM-8684	<p>Summary: In graphical audit, a time-stamp is not displayed for the tasks (displays as "pending") of process instance resumed after product upgrade.</p> <p>Workaround: Run the SOAP request below against the Event Collector Management Service.</p> <pre data-bbox="555 394 1479 821"><soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:api="http://api.ec.n2.tibco.com"> <soapenv:Header/> <soapenv:Body> <api:executeActionRequest> <action> <actionName>recoverProcessHierarchy</actionName> </action> <options> <advancedOption> <optionName>recoverAll</optionName> <optionValue>>false</optionValue> </advancedOption> </options> </api:executeActionRequest> </soapenv:Body> </soapenv:Envelope></pre>
WRM-8652 (SR-635185)	<p>Summary: When an audit event is passed to Event Collector, if the event contains an attribute that is invalid for its declared data type, the event is written to the audit trail but the invalid attribute is omitted. No warning or error message is written to the BPM log file indicating that the invalid attribute has been omitted. This issue is most noticeable on events that use date fields.</p> <p>Workaround: None.</p>
WRM-8468	<p>Summary: Audit/graphical audit for processes which have not had their audit migrated after upgrade to TIBCO ActiveMatrix BPM 4.0 will be incomplete and the Graphical Audit Trail may not be visible.</p> <p>Workaround: Run the migration tool, then view the Graphical Audit Trail , and it should work correctly.</p>
XPD-8191	<p>Summary: Help links from within TIBCO Business Studio sometimes do not display correctly.</p> <p>Workaround: Clear your browser cache and reload the link.</p>
WRM-8168	<p>Summary: When a process user application references a Business Data user application, if there is a qualifier missing from the project version, then you may receive errors when opening forms.</p> <p>Workaround: Make sure that a qualifier is part of the project version.</p>

Key	Description
WRM-8158	<p>Summary: When you upgrade from TIBCO ActiveMatrix BPM 3.1.0 to 4.0.0, in the <code>ec_event_rules.xml</code> file the commented section 'default_archive channel' and ExcludeID rules are missing in the upgraded setup</p> <p>Workaround: Manually edit the file to add them.</p> <ul style="list-style-type: none"> Keep a backup of the <code>ec_event_rules.xml</code> file of previous TIBCO ActiveMatrix BPM 3.1.0 version before upgrading to TIBCO ActiveMatrix BPM 4.0.0 and then copy the missing commented tag on the upgraded <code>ec_event_rules.xml</code> file from the backup file. Copy the missing channel default_archive below in <code>ec_event_rules.xml</code>
WRM-7736 (ws WRM-5878)	<p>Summary: If the Close/Submit fails because the update on the case reference has failed because the case reference is stale, errors are recorded in the BPM log, and the work item is stuck in Opened state.</p> <p>Workaround: Cancel the work item, then re-open it (this causes it to re-read the case reference, thus getting the up-to-date version). Then the Close/Submit should work.</p> <p> If the update fails because the case reference no longer exists, there is no workaround.</p>
WRM-7593	<p>Summary: If process data is mapped to attributes 15, 38, 39 and 40 you might see the data also assigned to iteration, iteration ID, Host task name, and Host task type respectively.</p> <p>Workaround: Avoid using attributes 15, 38, 39 and 40 when mapping data fields.</p>
WRM-7589	<p>Summary: REST operations in BusinessDataService that pass CDATA in the request body (createCase, deleteCaseByCID, findCaseByCID, findCaseByExample, and updateCase), cannot be called with Content-Type set to application/json.</p> <p>Workaround: When making calls to REST operations in BusinessDataService that pass CDATA in the request body, use a Content-Type of application/xml.</p>
WRM-7577	<p>Summary: When you install TIBCO ActiveMatrix BPM, it will not work if you have spaces in TIBCO_CONFIG_HOME.</p> <p>Workaround: Avoid having any spaces in TIBCO_CONFIG_HOME.</p>
WRM-7549	<p>Summary: Error while performing SiteMinder SSO authentication in Openspace/Workspace when the IP address is populated in resource template.</p> <p>Workaround: Remove the client IP address from the runtime.</p>
WRM-7512	<p>Summary: TIBCO JasperReports Server for ActiveMatrix BPM: (For all claims) Clicking on a claim whose instance is completed, in the claim exposure value "-" is shown.</p> <p>Workaround: None.</p>

Key	Description
WRM-7509	<p>Summary: TIBCO JasperReports Server for ActiveMatrix BPM: Internet Explorer specific (Internet Explorer 9, 10 and 11) : Intermittent error where sometimes all report contents are not loaded on the first attempt.</p> <p>Workaround: Reload the report.</p>
WRM-7508	<p>Summary: TIBCO JasperReports Server for ActiveMatrix BPM : When you suspend process instances and resume, work items of such processes are not displayed in the Offered Work report.</p> <p>Workaround: None.</p>
WRM-7507	<p>Summary: TIBCO JasperReports Server for ActiveMatrix BPM: Work items of cancelled and suspended process instances should not be displayed in the Outstanding tasks report.</p> <p>Workaround: None.</p>
WRM-7484	<p>Summary: TIBCO JasperReports Server for ActiveMatrix BPM: Not able to format and apply filters on Top 5 claims reports.</p> <p>Workaround: None.</p>
WRM-7481	<p>Summary: If a BOM contains a type hierarchy, for example a class 'Drink' and sub-classes 'Coffee' and 'Tea', then problems can arise when manipulating instances of such Business Objects via a User Task meaning that you may lose some sub-class data. If a class 'Person' has an attribute/composition of type 'Drink' then, although a Form may appear to allow Coffee and Teas to be assigned, the resulting Business Object will always record these as the base type, Drink.</p> <p>Workaround: None.</p>
WRM-7437	<p>Summary: TIBCO JasperReports Server for ActiveMatrix BPM: On loading Claim Breakdown dashboard for first time if you click on the clear filter, 'All' claims are displayed though selected option is 'open' claim.</p> <p>Workaround: Click on Open and then Closed again.</p>
WRM-7333	<p>Summary: TIBCO JasperReports Server for ActiveMatrix BPM: Column filters should not reset on refresh gadget or user login/logout.</p> <p>Workaround: None.</p>
WRM-7281	<p>Summary: Case Data: When you delete a Case and the referring form has the same Case marked as Mandatory, you receive an error and the case is not deleted.</p> <p>Workaround: To remove the case you must cancel the process instance.</p>

Key	Description
WRM-6964	<p>Summary: If you enter a valid JSON string in a text field on a form, either an error message is displayed or the string is not stored in the ActiveMatrix BPM database exactly as you entered it. For example, if you enter:</p> <pre>{ "name": "joe" }</pre> <p>ActiveMatrix BPM interprets the string as a JSON string, and tries to process it accordingly. This is because ActiveMatrix BPM uses JSON internally to handle form data.</p> <p>Workaround: To store in the database a JSON string that you have entered in a text field, escape the double quotation marks using the backslash character. For example, to store the above string, enter:</p> <pre>{ \"name\": \"joe\" }</pre> <p>Consequently, when the string is retrieved from the database, the escape characters must be removed, using http://org.apache.commons.lang3.StringEscapeUtils, for example.</p>
WRM-6802	<p>Summary: Event Collector Purge: Cursor_refresh (the number of process instances that should be deleted before the cursor is refreshed) is still considered as a mandatory parameter even though it is deprecated.</p> <p>Because the parameter is in the middle of the list of parameters and not at the end, providing no value for it causes a problem.</p> <p>For example: EXEC amxbpm.ec_delete_audit_stats_data NULL, '08-OCT-10 13:35:37', NULL, 'TRUE' would return an error as it tries to assign 'TRUE' to cursor_refresh which is a BIGINT.</p> <p>Workaround: Provide a value for the Cursor_refresh parameter. For example, change the above command to EXEC amxbpm.ec_delete_audit_stats_data NULL, '08-OCT-10 13:35:37', NULL, '10', 'TRUE'</p>
WRM-6791	<p>Summary: <i>TIBCO ActiveMatrix BPM Business Data Services Developer Guide:</i> screenshots of TIBCO Business Studio's Properties tab are out of date.</p> <p>Workaround: None.</p>

Key	Description
WRM-6756	<p>Summary: Search conditions based on certain attributes, whether specified in a Data View or DQL expression, can result in SQL errors at run-time.</p> <p>Specifically, this can occur when (1) The attribute is multiplicity-many and on a global class, not the case class. and (2) The global object containing the attribute is in an attribute path that contains an [ALL] or [<index>] suffix in an earlier fragment of the path.</p> <p>For example, consider searching for Clubs in the following BOM:</p>  <pre> classDiagram class Club { clubId : Integer } class Person { name : Text favouriteColours : Text } Club "1" -- "*" Person : members </pre> <p>DQL expression: <code>members[ALL].favouriteColours = 'Red'</code></p> <p>Meaning: Find Clubs where all members have Red as one of their favorite colors.</p> <p>DQL expression: <code>members[0].favouriteColours = 'Blue'</code></p> <p>Meaning: Find Clubs where the first member has Blue as one of their favorite colors.</p> <p>Both of the expressions above can exhibit the problem.</p> <p>To be clear, the problem occurs only when [ALL] or [<index>] are used, as described above. The following DQL expression does <i>not</i> suffer from the problem:</p> <p>DQL expression: <code>members.favouriteColours = 'Red'</code></p> <p>Meaning: Find Clubs where any member has Red of one of their favorite colors.</p> <p>Workaround: Altering the BOM to eliminate the multiplicity-many attribute avoids the problem. In the following modified BOM, a Person contains many Colours, each of which has a text attribute containing the name of the colour:</p>  <pre> classDiagram class Club { clubId : Integer } class Person { name : Text } class Colour { colour : Text } Club "1" -- "*" Person : members Person "1" -- "*" Colour : favouriteColours </pre> <p>The original DQL queries would then be rewritten as follows:</p> <p>DQL expression: <code>members[ALL].favouriteColours.colour = 'Red'</code></p> <p>Meaning: Find Clubs where all members have Red as one of their favorite colors.</p> <p>DQL expression: <code>members[0].favouriteColours.colour = 'Blue'</code></p> <p>Meaning: Find Clubs where the first member has Blue as one of their favourite colours.</p>

Key	Description
	In terms of the generated database tables, this is of equivalent complexity to the original BOM, and may even be considered better practice.
WRM-5686	<p>Summary: BPM Cleanup utility fails to generate scripts on AIX.</p> <p>Workaround:</p> <ol style="list-style-type: none"> 1. Download XmlTask source from http://www.oopsconsultancy.com/software/xmltask/. 2. Extract the downloaded tar file and edit the <code>com/oopsconsultancy/xmltask/jdk15/XPathAnalyser15.java</code> file, replacing: <pre>import com.sun.org.apache.xpath.internal.objects.*; import com.sun.org.apache.xpath.internal.*;</pre> with <pre>import org.apache.xpath.objects.*; import org.apache.xpath.*;</pre> 3. Download the <code>junit.jar</code> (required by the build), place it in the XmlTask source folder and then update CLASSPATH to refer to it: <code>export CLASSPATH=./junit.jar</code> 4. Run ant to compile the source, and ant package to create the <code>xmltask.jar</code> file. 5. Copy the <code>xmltask.jar</code> file to the <code>/opt/apache-ant-1.7.1/lib</code> folder.
WRM-4698	<p>Summary: It is not possible to connect to a CMIS repository accessed via SSL by using the CMIS sample.</p> <p>Workaround: None.</p>
WRM-4186	<p>Summary: If an enumeration in a BOM is a restriction of another enumeration, it is shown in TIBCO Business Studio as if one is a generalization of the other. However, they are two separate enumerations, with no inheritance from each other in the underlying code. Therefore, an interface that expects the base type to be passed to it cannot be passed the restricted type, and there will be a run-time failure.</p> <p>Workaround: If this XSD construct is used in a web service that ActiveMatrix BPM needs to interact with, use a Mediation between BPM and the external web service.</p>

Key	Description
WRM-2604	<p>Summary: Service Connector uses third-party Apache Axis2 and Apache Rampart libraries. This may increase the Java CLASSPATH length.</p> <p>Workaround: To avoid CLASSPATH length issues, use the new feature provided in Java 1.6 to include all binaries by using the wildcard character(*).</p> <ol style="list-style-type: none"> 1. Unzip the service connector to a folder, for example c:\service-connector. 2. Set the CLASSPATH to the c:\service-connector folder using the wildcard character, for example: <p>SET CLASSPATH=%CLASSPATH%;c:\service-connector*</p>
WRM-1671	<p>Summary: In TIBCO Workspace Event Views, the Push-related columns for the PUSH events do not display any information.</p> <p>Workaround: None.</p>
WRM-1539	<p>Summary: If a measure is requested for a particular process, the returned data is a cumulative roll-up of the data for the process. However, the statistics collector does not return any roll-up data for hours in which there is no activity in the process.</p> <p>Workaround: If data for any hour is missing, assume that it is the same as that for the previous hour.</p>
WRM-521	<p>Summary: If a pageflow process has no user tasks, this causes an exception when it is called from a client application, for example from either Openspace or Workspace.</p> <p>Workaround: Add page activities to the pageflow process.</p>
WRM-440	<p>Summary: Uninstallation of TIBCO ActiveMatrix BPM fails to stop the processes BPMNode, AdministratorNode and TibcoHost before removing files.</p> <p>Workaround: Stop the processes manually or restart the system.</p>
WRM-69	<p>Summary:The Email presentation channel does not support SMTP authentication.</p> <p>Workaround: None.</p>

Process Manager

Key	Information
WRM-9302 (CN-01437559))	<p>Summary: Completing any work item from a process fails and the following error is written to the BPM log file:</p> <pre>[ERROR] - {BX_TASK_REPORTED_ERROR} - BX-800009: Task reported an error . . . Caused by: com.tibco.pvm.system.util.exceptions.PmSystemException: PVM-SYS-100351: Error occurred when deserializing the object . . Caused by: java.lang.ClassNotFoundException: com.tibco.n2.brm.api.OnNotificationDocument</pre> <p>This problem occurs when a project contains one of the ActiveMatrix BPM public API files (for example, <code>brm.wsd1</code>), and the project has a version number of 1.9 or higher. (When the project is built or deployed, the DAA contains BDS .jar files that contain the same OSGi packages as the core product API. This results in an internal component wiring problem at run time, which causes the error to occur.)</p> <p>Workaround:</p> <ol style="list-style-type: none"> 1. Either: <ul style="list-style-type: none"> • Reduce the version number of the affected version to less than 1.9, or • Refactor the project by moving any ActiveMatrix BPM public API files (for example, <code>brm.wsd1</code>) into a new project, with version 1.0, and updating project references as needed. 2. Either downgrade, or remove and then redeploy, the existing application. Make sure that you use Resolve Mode to force rewiring of internal component dependencies.
WRM-8728 (SR-630402)	<p>Summary: When a process uses a timer event as a deadline on the boundary of a user task, the timer may not trigger as expected if the timer duration is expressed in increments of 24 hours.</p> <p>Workaround: None. Contact TIBCO Support for further assistance if you encounter this problem.</p>
BX-3814	<p>Summary: Mapping of 'Unprocessed Text' type REST Service response to Text data field does not preserve the value in the data field after REST service task has completed.</p> <p>Workaround: In the complete task of the same script you can copy the mapped text data field to another data field. The value will be preserved in this second data field.</p>
BX-3812	<p>Summary: Global Signal correlation fails if the correlation field has been reset in an activity within an event sub-process, and that activity is set as an initializer on the signal start activity within the Event Sub-process.</p> <p>Workaround: Use the setting on the sub-process to "Allow Concurrent Flows".</p>

Key	Information
BX-3811	<p>Summary: Correlation of global signals fails if the correlation field is of type decimal or dateTime.</p> <p>Workaround: Put the decimal or dateTime values in a string and use that in correlation.</p>
BX-3756	<p>Summary: In a Global Signal audit, a persistent signal is not purged after its stale timeout has expired, but more that 10 minutes later.</p> <p>Workaround: None.</p>
BX-3678	<p>Summary: Undeploy not working on an upgraded Global Signal Definition application (for example, version 2) which is referenced by a user application (for example, version 1).</p> <p>Workaround: Force undeploy the Global Signal Definition.</p>
BX-3634	<p>Summary: Do not reset scope attributes on retry if they were set before entering the scope.</p> <p>Workaround: None.</p>
BX-3591	<p>Summary: Could not synchronize database state with session on invoking message start event in a service process.</p> <p>Workaround: None.</p>
BX-3346	<p>Summary: No support for mapping BDS data from a sub-process error event.</p> <p>Workaround: Use a script task to break down the error data into multiple primitive fields and associate these with the sub-process throw error event. .</p>
BX-2967	<p>Summary: When you have two versions of an application - V1 and V2 with V2 having event handlers and added mandatory parameters, process instances that migrate from V1 to V2 might go into 'Halted' state with an error - 'No value set for mandatory IN/INOUT parameter'.</p> <p>Workaround:</p> <ul style="list-style-type: none"> • The parameters added in V2 should be non-mandatory. • The parameters added in V2 can be mandatory but at the interface of the tasks where the process instance migrates, the parameters should be made INOUT - non-mandatory.
BX-2956	<p>Summary: Mapping between incompatible types like BPM attribute to POJO list could result in ExpressionEvaluationError.</p> <p>Workaround: Add a script task before the java service task to build the source data as an array of Java objects out of the BDS list, before mapping it to the POJO method parameter.</p>

Key	Information
PVM-550	<p>Summary: Maximum key length warnings appear when running ProcessManagerCreate.sql for SQL Server 2012.</p> <p>Workaround: None.</p>

Application Management

Key	Information
WBPM-1283	<p>Summary: When using Mobilespace on an Apple iOS device, the user's initials that are shown on the side menu overlap with the menu options, making it difficult to navigate between the different menu options.</p> <p>Workaround: None</p>
WBPM-1275	<p>Summary: On an Apple iOS device, if you try to download a pdf file using the download pdf option, it displays the first page of the pdf in full screen mode, and does not render the page correctly.</p> <p>Workaround: Mobilespace does not support downloading of case documents on an Apple iOS device. Restart Mobilespace.</p>
WBPM-1271	<p>Summary: In the Mobile Case Manager App, a loading indicator is not displayed when the user opens a document.</p> <p>Workaround: None</p>
WBPM-1254	<p>Summary: If the image used to represent an application in Mobilespace is not in scalable vector graphics (SVG) format, it must use a 1:1 pixel ratio - for example, 100 * 100 or 1024 * 1024. This information should be provided in the "Mobile Application Settings" section in the <i>ActiveMatrix BPM Client Application Management Guide</i>.</p> <p>Workaround: None</p>
WBPM-1225	<p>Summary: Within the Mobile Case Manager App, the hierarchy for the business actions at the third or higher level sub-categories is not displayed correctly. For example, Main Category > Sub Category 1 > Sub Category 2 > Sub Category 3 > Business Action is not displayed in the proper hierarchy.</p> <p>Workaround: Within the Mobile Case Manager App, the business actions need to be at the most at the second level of sub-categories.</p> <p>For example, the business actions in the following cases will work.</p> <ul style="list-style-type: none"> • Main Category > Business Action • Main Category > Sub Category > Business Action • Main Category > Sub Category 1 > Sub Category 2 > Business Action

Key	Information
WBPM-1161	<p>Summary: When projects without the qualifier are deployed, those using the WP model get deployed to Web IT. Web IT maintains a map of locations to paths and this gets updated on every deployment by taking the details from WP model. However when the model gets deployed without a qualifier, Web IT overrides the paths of projects with a qualifier with the paths of projects without the qualifier. During this process Web IT is not able to serve any resources of the project that were earlier deployed with the qualifier.</p> <p>Workaround: Use the Qualifier in projects. If this issue currently exists, undeploy the project without the qualifier and redeploy the project with the qualifier.</p>
WBPM-975	<p>Summary: If you are running ActiveMatrix BPM on a Linux system, debug settings are not displayed in Application Management (when you click Settings > Debug Settings).</p> <p>Workaround: None.</p>
WBPM-868	<p>Summary: If you are using Application Management with a load balancer on a web proxy server and the load balancer is mapped from a sub-context of the web proxy server URL to the Application Management URL, then Application Management application resources are not served correctly.</p> <p>Workaround: Map your load balancer directly to the web proxy server host and port. The application resources are served correctly.</p>
WBPM-517	<p>Summary: You cannot categorize applications in Application Management. There is a Category property in the <i>applicationName.desc.json</i> file but the property is not recognized in Application Management.</p> <p>Workaround: None.</p>
WBPM-437	<p>Summary: If you have modified the locales for an application between versions, reverting an application to a previous version does not revert the locales.</p> <p>Workaround: You must manually modify the locales for the reverted application, depending on your requirements. See "Localizing Applications" in <i>TIBCO ActiveMatrix BPM Application Management Guide</i>.</p>

Clients

TIBCO Forms

Key	Description
FORM-6717	<p>Summary: On Internet Explorer 9, when focusing on a grid pane button or column name, the height of the root pane or the grid pane increases.</p> <p>Workaround: Set the CSS as <code>.TibcoForms.tf-uir-enabled.ua-ie9.pane-grid { height:100%; }</code> and <code>.TibcoForms.tf-uir-enabled.ua-ie9.pane_<parent pane name>.pane-content { height:50%; }</code>.</p>

Key	Description
FORM-6714	<p>Summary: On Windows 7 or 8, forms may not load properly on the GWT Preview tab of TIBCO Business Studio, if Internet Explorer has been upgraded.</p> <p>Workaround: Use an external browser to preview forms.</p>
FORM-6705	<p>Summary: After working on a form in Workspace, if you open the same form in Internet Explorer as a work item and see the data preview, going back to the Summary tab throws an exception in GWT Log.</p> <p>Workaround: None. You can safely ignore the exception.</p>
FORM-6466	<p>Summary: Custom controls of complex type are not validated.</p> <p>Workaround: None.</p>
FORM-6460	<p>Summary: A select event is triggered on value update in a grid pane even when there is no selection.</p> <p>Workaround: In the action scripts, add null checks when the grid pane selection API is used.</p>
FORM-6446	<p>Summary: The API setFocus(Integer index, Integer item) does not work on controls in a record pane.</p> <p>Workaround: None</p>
FORM-6110	<p>Summary: When editing a list control in Openspace or Workspace, if you scroll the window using the scroll-wheel, the edit box in the list control remains on the page, and does not scroll with the window. It is also applicable to editing controls in a grid pane when not in Always Render mode.</p> <p>Workaround: Pressing the Escape or Enter key closes the edit box.</p>
FORM-5717	<p>Summary: At runtime, only one version of a Component Library can be loaded within the same browser session.</p> <p>Workaround: If later versions of a process need to use an updated version of a library, then that library should be renamed to avoid a conflict with the earlier version of the library.</p>
FORM-4164	<p>Summary: A mobile form that contains a Duration list control is not properly destroyed when the form is submitted.</p> <p>Workaround: None. The only workaround is to avoid using Duration list controls for forms targeting the mobile presentation channel type.</p>
FORM-4145	<p>Summary: In mobile forms, the deletion of values from multi-valued list controls is not working.</p> <p>Workaround: None.</p>

Key	Description
FORM-3544	<p>Summary: Sometimes the loading of a mobile form is slow or can appear to freeze. This only happens during the initial load of the particular form and for subsequent instances of the same form load.</p> <p>Workaround: None.</p>
FORM-2592	<p>Summary: The setOptions() method on RadioGroups and OptionLists in Google Web Toolkit (GWT) fails if an array of numbers is passed as the option values array.</p> <p>Workaround: Use an array of strings to set the option values for an OptionList or RadioGroup control.</p>
FORM-2376	<p>Summary: Specific to Google Web Toolkit (GWT) presentation of forms. For image controls, the settings of width and height do not have any effect on the rendered image.</p> <p>Workaround: The size of images can be set using CSS. Follow these steps:</p> <ol style="list-style-type: none"> 1. Create a CSS file in the Presentation Resources folder that contains a CSS rule for setting the size of an image control, for example: <code>.TibcoForms .imageSize img {width: 100px; height: 100px;}</code> 2. Add the CSS file as a reference in the Form Resource property sheet. 3. Add imageSize as the Style Class Name for the image control. (You can use whatever CSS class name you want as long as it matches what is used in the CSS file.)

Openspace

Key	Information
OS-3421	<p>Summary: In the Process Views gadget, if you start a process instance, all the details of the process instance, for example, priority, start times and so on, are not displayed immediately.</p> <p>Workaround: Refresh the gadget to display the details about the process instance.</p>
OS-3097	<p>Summary: In the Organization Browser, a problem can occur when using the Clear Selections checkbox in the Map to Positions tab to map resources to positions. Sometimes, selecting the Clear Selections icon leaves check marks besides positions even though the Grant button is grayed out.</p> <p>Workaround: Use the Space or Enter key to make selections.</p>
OS-2962	<p>Summary: If you are creating a work view in the accessible variant of Openspace and you select a work item attribute as part of your sort criteria, the name of the attribute does not display. The work item attributes display as attribute1, attribute2 and so on.</p> <p>Workaround: None.</p>

Key	Information
OS-2779	<p>Summary: (Only applies to Internet Explorer version 8 and Mozilla Firefox) In the Choose Columns drop-down list in the Work Views gadget, the Distribution Strategy name and icon overlap.</p> <p>Workaround: Use another browser such as Chrome.</p>
OS-2630	<p>Summary: If you have configured ActiveMatrix BPM to use Kerberos, and while using Openspace, your Kerberos session ticket becomes invalid, you can still continue to use your current Openspace session. In other words, your Openspace session is not invalidated if your Kerberos session ticket becomes invalid.</p> <p>Workaround: Log out of your current Openspace session and then log back into Openspace.</p>
OS-2438	<p>Summary: In the Organization Browser, if you select some resources and then change the organization model version, the resources are deselected and you have to select them again.</p> <p>Workaround: None.</p>
OS-2326	<p>Summary: You cannot delete extension points using Openspace.</p> <p>Workaround: You must delete extension points using the TIBCO ActiveMatrix BPM API.</p>
OS-2140	<p>Summary: You cannot contribute the sample Work View gadget supplied TIBCO ActiveMatrix if your environment is enabled for SSL.</p> <p>Workaround: The sample gadgets URL has to use HTTP and not HTTPS.</p>
OS-1914	<p>Summary: When you first open the Calendar gadget and click Edit next to SYSTEM, the Working Days and Exclusion tabs do not display.</p> <p>Workaround: Click Back then click Edit again and the tabs display.</p>

Workspace

Key	Description
WS-1710	<p>Summary: When opening a work item in Workspace, if an error occurs in the Forms runtime, it can result in the application hanging. The application may have to be restarted to recover from the error.</p> <p>Workaround: None</p>
WS-1604	<p>Summary: If an LDAP container is created in the Organization Browser, the name of the LDAP container may not display properly if certain characters are used in the name. The specific characters are difficult to identify.</p> <p>Workaround: If the name of a newly created LDAP does not display correctly, use different characters for the name.</p>

Key	Description
WS-1610	<p>Summary: If long names are used when specifying items in Workspace (for example, views), or the Organization Browser (for example, LDAP containers), the names can overlap on the display, causing them to become unreadable. You may also experience a "DE_ENTITY_SAVE_ERROR " when attempting to save items with long names.</p> <p>Workaround: When naming items in Workspace or the Organization Browser, limit the length to 80 characters.</p>
WS-1524	<p>Summary: When Workspace is using a Microsoft SQL Server database, if you create a process view using the Include selected processes option and then individually select hundreds of process templates, a SQLServerException may be thrown that states Some part of your SQL statement is nested too deeply.</p> <p>Workaround: None</p>
WS-672	<p>Summary: Pageflow definitions can include branching that would require the simultaneous handling of multiple user tasks, each requiring the display of a form (this same scenario could also occur in embedded sub-processes set up for chained execution).</p> <p>Workspace cannot currently display multiple forms resulting from these parallel pageflows. If one is encountered in a WCC application (including the default Workspace application), the following warning message is displayed: "The business service or work item has encountered a parallel pageflow which cannot be displayed in Workspace".</p> <p>Workaround: Rework the process/pageflow to eliminate the parallel display of multiple forms, or create a custom BPM application using the available APIs that can handle pageflow branching (for information, see the <i>TIBCO ActiveMatrix BPM Developer's Guide</i>).</p>

Platform

Administrator

Key	Summary/Workaround
TAP-9568	<p>Summary</p> <p>Errors are seen in the Administrator UI when deploying a BPM user application when one of the nodes is not available.</p> <p>Workaround</p> <p>The error dialog can be dismissed. The application will deploy and start fine on the running nodes.</p>

Key	Summary/Workaround
TAP-9402	<p>Summary</p> <p>When using TIBCO Business Studio to deploy a DAA that is dependant on another DAA which is not in the deployed state results in errors such as:</p> <pre> Follower application component urn:amx:BPMEnvironment/ com.example.appa/APPAProcessFlow requires capability com.tibco.amf.sca.model.componenttype.impl.RequiredCapabilityIm pl@7ee0f191 (id: com.tibco.bx.capability.implementation.bx, version: 1.0.0, type: factory) but the target application does not provide it. </pre> <p>Workaround</p> <p>Make sure the dependant DAA is deployed.</p>
TAP-9380	<p>Summary</p> <p>When a new node is added, the synchronization flag for the BPM application, <code>amx.bpm.app</code>, shows Out of Sync.</p> <p>Workaround</p> <p>The application being out of sync won't prevent or cause problems for application deployed to the new nodes.</p> <p>To sync the BPM application, <code>amx.bpm.app</code>, select the application and click Deploy.</p>
TAP-9351	<p>Summary</p> <p>When you change the nodes to which the BPM application, <code>amx.bpm.app</code>, is distributed and if you remove a node and then redeploy, the application fails to start.</p> <p>Workaround</p> <p>None.</p>
TAP-9344	<p>Summary</p> <p>ActiveMatrix BPM applications use the Product Distribution mode where you distribute to a target application <code>amx.bpm.app</code> and not to specific nodes in an environment. If you visit the Distribution tab for your application, you will see the node based distribution for your application components. The Distribution tab appears to allow editing of the node distribution for your application components. However, you cannot change the component distribution this way while using Product Distribution mode. Modifying the node distribution for components and then clicking Save does not actually change the distribution. It will simply revert to the original distribution. The distribution for components should've ideally been made as read-only.</p> <p>Workaround</p> <p>None.</p>

Key	Summary/Workaround
TAP-12878	<p>Summary</p> <p>If you import a resource template into an upgraded user application that did not previously contain a resource template (that is, if no resource templates had previously been imported into the application), the scope of the imported resource template will automatically be set to Global, rather than Application. This occurs even if you specify Application scope in the CLI.</p> <p>Workaround</p> <p>After the resource template is imported (to Global scope), you change its scope as required (to Application scope, for example) in the ActiveMatrix Administrator UI. To do this:</p> <ol style="list-style-type: none"> 1. Go to Shared Objects > Resource Templates . 2. Select the imported resource template. 3. Click Change Scope, and change the scope to the Application or Environment level as desired.
TAP-12860	<p>Summary</p> <p>If you have a main process and a sub-process application and one or more dependent main process applications deployed in ActiveMatrix Platform version 3.1.5 (and any ActiveMatrix BPM version between 1.3.0 and 2.1.0), then upgrade the BPM platform version to ActiveMatrix BPM 2.2.0 (ActiveMatrix Platform 3.3.0), and subsequently attempt to upgrade the subprocess, you will see a warning similar to the following example:</p> <pre>TIBCO-AMX-ADMIN-012430: Provided capability 'com.example.my.subprocess.pe.capability' provided by component 'MySubAppProcessFlow' cannot be removed. It is being used by the following components:Component 'MyMainAppProcessFlow' from application 'com.example.my.mainapp.process'</pre> <p>This warning is issued erroneously and can be safely ignored. The subprocess will be upgraded successfully and the main processes will run fine, provided the sub-process maintains the same major version number as before.</p> <p>Workaround</p> <p>None.</p>

Key	Summary/Workaround
TAP-12858	<p>Summary</p> <p>The logging configuration of a node, host, or application (which is stored in the node, host, or application's <code>log4j.xml</code>; for example, <code>node-log4j.xml</code>) may enter into an inconsistent state if the node, host, or application uses a JMS appender that is configured with an SSL-enabled EMS server. In this case, the logging configuration uses an HTTP URL to refer to a keystore that's hosted on the Administrator. This HTTP URL is the internal HTTP connector URL of the Administrator.</p> <p>Changing the configuration of the internal HTTP connector (for example, to enable SSL or change the port number) causes the URL configured in the logging configuration (<code>log4j.xml</code>) to become invalid or out of synch. The logging configuration of each affected node, host, or application needs to be updated or it will fail to connect to EMS.</p> <p>Currently this is not done automatically.</p> <p>Workaround</p> <p>You must manually save and apply the logging configuration for each node, host, or application that uses a JMS appender. To do this:</p> <ol style="list-style-type: none"> 1. In the Administrator UI, go to the logging configuration for the node, host, or application that's in the situation described above. 2. Change a value in the logging configuration that makes the node, host, or application go out of synch. 3. Click Save. 4. Click Apply. This pushes the new logging configuration, with a new HTTP URL, to the node, host, or application.
TAP-12738	<p>Summary</p> <p>If you delete a binding in the ActiveMatrix Administrator UI, that binding will still be visible in the SPM Dashboard with a Down status. This occurs because the Delete notification for the ActiveMatrix binding component is not being emitted.</p> <p>Workaround</p> <p>None.</p>
TAP-12714	<p>Summary</p> <p>ActiveMatrix Administrator does not properly undeploy applications with missing feature dependencies.</p> <p>Workaround</p> <p>To avoid this issue, go to Node > Configuration > Features and remove the feature with Marked for Install and a blank value for Type. You should be able to undeploy the application with no issues.</p>

Key	Summary/Workaround
TAP-12702	<p>Summary</p> <p>If you use TIBCO Configuration Tool to edit Administrator database settings, the following harmless error may appear in <code>SystemNode.log</code>: Could not open Hibernate Session for transaction.</p> <p>Workaround</p> <p>None.</p>
TAP-12087	<p>Summary</p> <p>Making changes to the configuration of a JDBC service resource template that is a dependency for a running application may cause that application to enter a Stopped state.</p> <p>Workaround</p> <p>Manually restart the stopped application.</p>
TAP-10854	<p>Summary</p> <p>In an upgraded environment product applications are not auto-provisioned by default.</p> <p>Workaround</p> <p>Either manually deploy the product applications or enable auto-provisioning for the environment and create a <code>System</code> folder for the environment.</p> <p>If the product application is present in the environment but missing from the node, move the product application to the <code>System</code> folder.</p>
TAP-10830	<p>Summary</p> <p>When wiring a reference to a service in the same application that has a SOAP binding using an HTTP Connector that does not exist results in the following exception</p> <pre>Error generating the WSDL for binding SOAPService_Binding1, Caused by: Could not find resource instance with name httpConnector when generating WSDL for binding SOAPService_Binding1 on service NewService</pre> <p>Workaround</p> <p>Create the HTTP Connector before creating the application.</p>

Key	Summary/Workaround
TAP-10800	<p>Summary</p> <p>When creating an Administrator server with an Oracle database the following error messages are seen in the SystemNode log files:</p> <pre> SystemNode 30 Jul 2012 16:42:48,287 [WAR-Deployer-Thread] [ERROR] org.hibernate.tool.hbm2ddl.SchemaUpdate - Unsuccessful: create index AdmnCnfig_sttsNtifactinTrnsprt on "ADMINCONFIG" ("NTFCTNTRNSPRT_STTSNTFCTNTRNS_D") SystemNode 30 Jul 2012 16:42:48,287 [WAR-Deployer-Thread] [ERROR] org.hibernate.tool.hbm2ddl.SchemaUpdate - ORA-00955: name is already used by an existing object SystemNode 30 Jul 2012 16:42:48,303 [WAR-Deployer-Thread] [ERROR] org.hibernate.tool.hbm2ddl.SchemaUpdate - Unsuccessful: create index AMXdminsPrfrncs_prvisnvslnctin on "AMXADMINUSERPREFERENCES" ("PRVISNVSLCTIN_PRVISNVSLCTIN_ID") SystemNode 30 Jul 2012 16:42:48,303 [WAR-Deployer-Thread] [ERROR] org.hibernate.tool.hbm2ddl.SchemaUpdate - ORA-00955: name is already used by an existing object SystemNode 30 Jul 2012 16:42:48,319 [WAR-Deployer-Thread] [ERROR] org.hibernate.tool.hbm2ddl.SchemaUpdate - Unsuccessful: create index ApplicationFolder_childFolders on "APPLICATIONFOLDER" ("APPLICATIONFOLDER_PARENT_E_ID") SystemNode 30 Jul 2012 16:42:48,319 [WAR-Deployer-Thread] [ERROR] org.hibernate.tool.hbm2ddl.SchemaUpdate - ORA-01408: such column list already indexed </pre> <p>Workaround</p> <p>These errors can be safely ignored as the indexes are created.</p>
TAP-10767	<p>Summary</p> <p>HTTP Connector resource instances that are referenced by properties whose names are not specific, such as <code>HttpInboundConnectionConfig</code> or <code>httpConnector</code>, are not recognized by Administrator as HTTP Connectors while displaying information. As a result these HTTP Connectors are not displayed in the Administrator UI as dependencies where expected.</p> <p>Also, you can delete any such HTTP Connector even when it has dependent applications.</p> <p>Workaround</p> <p>Use property names such as <code>HttpInboundConnectionConfig</code> or <code>httpConnect</code> to refer to HTTP Connectors resource instances. Additionally when deleting a HTTP Connector resource instances manually check whether other applications are dependent on it.</p>

Key	Summary/Workaround
TAP-10751	<p>Summary</p> <p>Executing the scripts generated by the DDL Script Generator for Microsoft SQL Server displays errors reporting a failure to create foreign key constraints.</p> <p>Also, even if the generated scripts are not used, error messages are seen in the SystemNode log file logged in SystemNode.log regarding failure to create foreign key constraints.</p> <p>Workaround</p> <p>None. These errors can be ignored as a failure to create foreign key constraints does not impact product functionality.</p>
TAP-10663 DSS-527	<p>Summary</p> <p>Heterogeneous environments with mixed JREs are not supported. Sun JRE is not compatible with IBM JRE when it comes to storing secret keys in a Java keystore. This causes a problem when the Administrator server running on Sun JRE stores a username and password in its global identity keystore and a host and node running on IBM JRE attempts to access that username and password. The reverse, Administrator on IBM JRE and host and node on Sun JRE would have the same problem.</p> <p>Workaround</p> <p>Ensure that Administrator, TIBCO Host instances, and nodes are all using JREs provided by the same vendor.</p>
TAP-7784	<p>Summary</p> <p>After creating and starting a node, if you try to stop and uninstall the node when its runtime state is Running and the Action History state is In Progress, the node will fail to get uninstalled.</p> <p>Workaround</p> <p>Wait for the Action History state to change from the In Progress state to one that matches the chosen action before selecting another action for the node.</p>
TAP-7644	<p>Summary</p> <p>You may see the following error message when undeploying an application</p> <pre data-bbox="539 1501 1465 1577">[ERROR] com.tibco.amf.admin.server.axis2.RPCMessageReceiver - Error occured in Administrator... about to throw AxisFault for this exception</pre> <p>Workaround</p> <p>Refresh the browser. This error message can be safely ignored.</p>

Key	Summary/Workaround
TAP-7571	<p>Summary</p> <p>Users who have permissions only to view an application and an environment but do not have permissions to view a node are not able to see the list of selected nodes when distributing an application.</p> <p>Workaround</p> <p>Permissions to view the node have to be explicitly granted by a superuser.</p>
TAP-7423	<p>Summary</p> <p>You may see an Errors in dashboard dialog box when using the Dashboard.</p> <p>Workaround</p> <p>Click OK to proceed using the Dashboard. This error message can be safely ignored.</p>
TAP-6584	<p>Summary</p> <p>When the extended monitoring is enabled the two new periodic windows (24 hours and 7 days) do not show on some Dashboard tabs.</p> <p>Workaround</p> <p>Refresh the browser.</p>
TAP-5653	<p>Summary</p> <p>Updating the value of a substitution variable for the Timeout property in a JMS or SOAP/JMS binding in a deployed application does not take effect after the application is redeployed.</p> <p>Workaround</p> <p>.Undeploy and deploy the application.</p>
TAP-4890	<p>Summary</p> <p>In the dashboards, a text filter is ignored when you maximize or minimize a gadget.</p> <p>Workaround</p> <p>Re-enter the text filter.</p>
TAP-4645	<p>Summary</p> <p>In the Dashboards > Infrastructure screens, resource instances cannot be filtered by promoted reference or promoted service.</p> <p>Workaround</p> <p>In the Application Screen, check properties of the reference or service bindings.</p>

Key	Summary/Workaround
TAP-3698	<p>Summary</p> <p>On Windows, the folder containing a TIBCO Host instance cannot be moved, copied, or deleted when the RuntimeWorkArea file name length is longer than 255. This occurs if you select the default value for <i>CONFIG_FOLDER</i> when running TIBCO Configuration Tool.</p> <p>Workaround</p> <p>Delete the folder using <code>rmdir /s /q</code>.</p>
PER-49	<p>Summary</p> <p>When configuring an LDAP Authentication resource template in Administrator, the option to generate SAML 1.1 assertion is not supported by platform policies.</p> <p>Workaround</p> <p>When configuring an LDAP Authentication resource template, accept the default setting to generate SAML 2.0 tokens.</p>
MCR-1823 TAP-10602	<p>Summary</p> <p>The value for the uptime displayed in the infrastructure dashboard screens are accounted from the time a request is made to the application by invoking the endpoint or through an internal call from another application.</p> <p>If an application is deployed and not used, the value for uptime will be 0.</p> <p>Summary</p> <p>None.</p>
MCR-1422	<p>Summary</p> <p>If nodes are restarted when the SystemNode is down, the Uptime and Since Started statistics are not reset.</p> <p>Workaround</p> <p>Either make sure that the system node is running using admin replication or restart the applications for which incorrect statistics are seen.</p>
MCR-1350	<p>Summary</p> <p>The number of components reported for a given node in the Enterprise Graphical View includes components that belong to the ActiveMatrix Platform Application. The Dashboard component count does not include these components.</p> <p>Workaround</p> <p>None</p>

Key	Summary/Workaround
MCR-1226	<p>Summary</p> <p>The Endpoint, Service, and References tabs display an incorrect value for Avg Comp Process Time when extended monitoring is enabled. The value displayed is Req Comp Time.</p> <p>Workaround</p> <p>The correct average component processing time is available in the Components and Applications tabs.</p>
MCR-1205	<p>Summary</p> <p>If the TIBCO Host is shutdown while the Dashboard is running, the following error message is seen in the SystemNode log files:</p> <pre>[ERROR] org.apache.axis2.engine.AxisEngine - bean:name=govObjFilterServiceMBean</pre> <p>Workaround</p> <p>None. This error can be safely ignored.</p>
MCR-1204	<p>Summary</p> <p>Stopping the TIBCO Host instance occasionally causes exceptions to be thrown in the log file. During a graceful stop of TibcoHost instance there may be some exceptions in the log file with the root cause "Caused by: java.lang.RuntimeException: Statistics aggregator is closing down, rolling back transaction".</p> <p>Workaround</p> <p>Ignore the error.</p>
MCR-1162	<p>Summary</p> <p>Statistics for Web Application components do not display in the dashboard.</p> <p>Workaround</p> <p>None.</p>
MCR-876	<p>Summary</p> <p>Status value is "Unknown" and uptime is empty when the same application is deployed on two nodes across environments.</p> <p>Workaround</p> <p>Change the application name during deployment. It must be unique for an enterprise for dashboard to show correct status and uptime.</p>



Key	Summary/Workaround
MCR-800	<p>Summary</p> <p>When a component reference is promoted, component reference metrics show zero values. All metrics are shown on the promoted reference and reference endpoint.</p> <p>Workaround</p> <p>View metrics on the promoted reference.</p>
MCR-753	<p>Summary</p> <p>In the Dashboards > Infrastructure screens the application request count includes requests counts from all services promoted to application level. In addition, it incorrectly includes reference invocations count from all references promoted to application level.</p> <p>Workaround</p> <p>None.</p>
MCR-521	<p>Summary</p> <p>If a node is stopped or started several times while SystemNode is down, the last stop or start time of SystemNode is used to calculate the node's uptime percentage. Other stops and starts are missed and not used in uptime calculation.</p> <p>Workaround</p> <p>Configure the Administrator server in fault tolerant mode.</p>
AMX-10828	<p>Summary</p> <p>If your BPM application refers to a OM project and if changes are made to the OM project that break backward compatibility, errors are generated when redeploying the BPM application.</p> <p>Workaround</p> <p>Downgrade the OM project to the previous version.</p>
WSBT-881	<p>Summary</p> <p>Policies and policy sets cannot be added, edited, or deleted via the ActiveMatrix Administrator UI. Policy set properties can be viewed but not added, edited, or deleted.</p> <p>Workaround</p> <p>Edit policy sets and properties in TIBCO Business Studio.</p>

Key	Summary/Workaround
SVCP-84	<p>Summary</p> <p>The TIBCOActiveMatrix Service Performance probe on the Administrator node does not receive self-shutdown notifications sent from TIBCO Host. This occurs because the Service Performance Manager probe component on the Administrator node responsible for such communication shuts down before it can send the notification.</p> <p>Workaround</p> <p>None.</p>

Installer

Key	Summary/Workaround
INST-164	<p>Summary</p> <p>The TIBCO Universal Installer does not display the products to be installed correctly.</p> <p>Workaround</p> <p>Note the discrepancies. There is no action required.</p>
MCR-1943	<p>Summary</p> <p>If you have upgraded to ActiveMatrix release 3.3.0 from a prior version and attempt to replicate the upgraded configuration, deploying the replicated configuration may fail.</p> <p>Workaround</p> <p>Replicate your configuration before upgrading to ActiveMatrix release 3.3.0.</p>
SDS-5917	<p>Summary</p> <p>The installer downloads Hibernate and Eclipse LPGL assemblies required by TIBCO Business Studio and TIBCO Configuration Tool. In a suite installation scenario, if you unzip all product archives into the same directory, you might overwrite the 3.1.5 installer with a 3.1.2 installer. The 3.1.2 installer won't download the required assemblies, which will lead to failure of TIBCO Business Studio and TIBCO Configuration Tool.</p> <p>Workaround</p> <p>When you unzip all products in the same directory while preparing for a suite install, make sure you preserve the installer binary from the most recent product installation. When you run the installation, the version of the 3.1.5 installer in the About dialog is 2.9.4.</p>

Runtime

Key	Summary/Workaround
AMRP-5232	<p>Summary: A form fails to load and an <code>java.io.IOException: write beyond end of stream Error</code> is reported. This error only occurs on systems where TIBCO ActiveMatrix Platform 3.3.0 Hotfix 10 has been applied, and is caused by an HTTP compression issue.</p> <p>Workaround: To avoid this problem, disable the use of HTTP compression by the BPM runtime. To do this, add the following property:</p> <pre>java.property.com.tibco.amf.hpa.tibcohost.jetty.disableCompression=true</pre> <p>to the <code>CONFIG_HOME\tibcohost\Admin-enterpriseName-adminServerName\data_version\nodes\BPMnodeName\bin\BPMNode.tra</code> file.</p> <div>  <p>Support for this property was introduced in TIBCO ActiveMatrix Platform 3.3.0 Hotfix 012.</p> </div> <div>  <p>The property does not need to be added if TIBCO ActiveMatrix Platform 3.3.0 Hotfix 14 or above is installed.</p> </div>
AMRP-4754	<p>Summary</p> <p>If a service provider and a service consumer exist in the same BPM application, undeploying the application may undeploy the service provider even though the service consumer still requires the service provider.</p> <p>Workaround</p> <p>Separate the service consumer and the service provider so that they're both in two separate user applications.</p>
AMRP-4744	<p>Summary</p> <p>If you upgrade ActiveMatrix BPM to release 2.2.0 and ActiveMatrix to release 3.3.0, and upgrade a pre-existing user application so that it's a web service implementation with REST enabled, you may see exceptions similar to the following in the logs during the reply message event although the response is successfully received:</p> <pre>[INFO] stdout - java.io.IOException: Exception in opening zip file: C:\ProgramData\amx-bpm-2.1.0v12\tibco\data\tibcohost\Admin- AMX BPM-AMX BPM Server\data_3.2.x\nodes\BPMNode\work\cf\cdfa6b9e- d49d-4764-8623-fa331f8820c3\bundle 28 Aug 2013 16:52:32,824 [Framework Event Dispatcher] [INFO] stdout - at org.eclipse.osgi.framework.util.SecureAction.getZipFile(SecureAct ion.java:291) 28 Aug 2013 16:52:32,824 [Framework Event Dispatcher] [INFO] stdout - at org.eclipse.osgi.baseadaptor.bundlefile.ZipBundleFile.basicOpen(Z ipBundleFile.java:87)</pre> <p>Workaround</p> <p>Restart the node in which the application is deployed.</p>

Key	Summary/Workaround
AMRP-4736	<p>Summary</p> <p>You may not be able to start ActiveMatrix BPM as a Windows Service after upgrading to ActiveMatrix release 3.3.0 from release 3.1.5 (or previous releases) or ActiveMatrix BPM release 2.2.0 from release 2.1.0 (or previous releases).</p> <p>Workaround</p> <p>If you encounter this issue:</p> <ol style="list-style-type: none"> 1. Launch a command prompt where <code>tibcohost.exe</code> is located. 2. Uninstall existing ActiveMatrix BPM windows service by executing <code>tibcohost.exe --uninstall</code> 3. Install the windows service again by executing <code>tibcohost.exe --install</code>
AMRP-4639	<p>Summary</p> <p>The default JSSE provider for Oracle's Java 7 has introduced a bug with the Diffie Hellman Ephemeral (DHE) key exchange. (See the description in Oracle's bug database for more information: http://bugs.sun.com/bugdatabase/view_bug.do?bug_id=8013059) Establishing ciphers like TLS_DHE_RSA_WITH_AES_128_CBC_SHA sometimes fails and gives the error message <code>Received fatal alert: bad_record_mac</code>. By default, SSL connections with TIBCO EMS Server prefer the stream cipher RC4. You can overwrite this behavior by explicitly choosing the ciphers either in SSLClient RT or in the EMS Server.</p> <p>Workaround</p> <p>By default, no workaround is needed. If you do choose explicit ciphers, avoid the DHE ciphers so that you do not run into this occasional Java 7 bug. Unaffected ciphers include TLS_RSA_WITH_AES_128_CBC_SHA, amongst others.</p>
AMRP-4013	<p>Summary</p> <p>Acceptor threads for HTTP connectors may consume excessive amounts of CPU. The processing performance of any node that uses an HTTP connector experiencing this issue may be affected when asynchronous IO is involved.</p> <p>Workaround</p> <p>Edit the HTTP Connector Resource Template to use blocking IO. See the chapter Resource Templates in <i>Administration</i> for more information.</p>
AMRP-3842	<p>Summary</p> <p>Can't log into Workspace if trying to access it from a node that is running on a machine different than the one on which the Enterprise Message Service server is running and the Enterprise Message Service server restarts.</p> <p>Workaround</p> <p>Restart the node.</p>

Key	Summary/Workaround
AMRP-3823	<p>Summary Status is not updated in Administrator for when an application running on BPMNode experiences a database connection failure.</p> <p>Workaround If a component is failing, try restarting the component.</p>
AMRP-3788	<p>Summary The LDAP resource template pool properties are not used when initializing the connection pool.</p> <p>Workaround Configuring the connection pool using system properties specified for the target node applies them to all instances deployed to that node. Refer to the Oracle documentation for more information: http://docs.oracle.com/javase/jndi/tutorial/ldap/connect/config.html</p>
AMX-15224	<p>Summary: If you upgrade from TIBCO ActiveMatrix BPM version 2.1.0 to version 4.0, the upgrade fails on the first attempt on the upgrade-admin step.</p> <p>Workaround: Re-run the upgrade. The upgrade process completes successfully.</p>
AMX-15209	<p>Summary: In TIBCO ActiveMatrix BPM, BX audit messages do not always include contextId, parentContextId and correlationId.</p> <p>Workaround: None.</p>
AMX-14346	<p>Summary Suite installation of ActiveMatrix Service Grid 3.3.0 and ActiveMatrix BPM 2.2.0 fails with the following error: More than one active 'Finish' task has been defined.</p> <p>Workaround Do not install ActiveMatrix BPM and ActiveMatrix Service Grid at the same time using the Suite Installer.</p>

Key	Summary/Workaround
AMX-14345	<p>Summary</p> <p>Upgrading the second system node in a replicated Administrator setup can fail with exception(s) similar to the following example:</p> <pre>java.lang.IllegalStateException: org.springframework.beans.factory.BeanCreationException: Error creating bean with name 'urn:amx:SystemEnvironment/amx.platform- app/GovernanceAgent/pepHttp/HttpFilterComponent_1.3.0': TIBCO- AMX-IT-JAVA-SPRING-801001: Invocation of init method failed; nested exception is java.lang.NoClassDefFoundError: javax/xml/ transform/TransformerFactoryConfigurationError Start component 'wtplogservice' on node 'SystemNodeReplica' failed : java.lang.IllegalArgumentException: Exception during web application initialization. Deployment of web application failed</pre> <p>Workaround</p> <p>Upgrade the second system node again.</p>
AMX-14310 DSS-817	<p>Summary</p> <p>ActiveMatrix release 3.3.0 packages IBM JRE 1.7.0 SR2. If you are running ActiveMatrix on an AIX platform and install Unlimited Jurisdiction Policy (UJP) files, you may encounter errors.</p> <p>Workaround</p> <p>If you encounter errors, you must install the appropriate version of the UJP files for that build of the JRE.</p> <p>Errors similar to the following example indicate that the version of the UJP files is <i>not</i> the appropriate version for the installed JRE:</p> <pre>Caused by: java.lang.SecurityException: Jurisdiction policy files are not signed by trusted signers! at javax.crypto.b.a(Unknown Source) at javax.crypto.b.a(Unknown Source) at javax.crypto.b.access\$600(Unknown Source) at javax.crypto.b\$0.run(Unknown Source) at java.security.AccessController.doPrivileged(AccessController.java :254) ... 28 more</pre> <p>If you see such errors, you must install the appropriate version of the UJP files.</p>

Key	Summary/Workaround
AMX-13851	<p>Summary</p> <p>If you use Microsoft SQL Server 2012 as an external database server and use its Mirror Mode to establish a connection to a secondary failover database server, TIBCO ActiveMatrix Administrator fails to connect to either database server.</p> <p>Workaround</p> <p>In addition to providing the JDBC URL of the mirrored servers in SQL Server 2012, you must set the IP and hostname of both the primary and secondary database servers in the <code>hosts</code> file. The location of the <code>hosts</code> file depends on the operating system:</p> <ul style="list-style-type: none"> Windows: <code>ROOT_DIR\system32\drivers\etc\hosts</code> UNIX/Linux: <code>/etc/hosts</code> <p>For example, you have two database servers. The primary server's IP is <code>192.167.71.42</code> and its hostname is <code>amx-db42</code>; the secondary server's IP is <code>192.167.71.60</code> and its hostname is <code>amx-db60</code>. You would provide the following JDBC URL for these two mirrored primary and secondary servers:</p> <pre>jdbc:sqlserver:// 192.167.71.42:1433;databaseName=db1;failoverPartner=192.167.71. 60.</pre> <p>To ensure that TIBCO ActiveMatrix Administrator successfully connects to both servers and allows for seamless switching between them using SQL statements, you must add the following entries to the <code>hosts</code> file:</p> <pre>192.167.71.42 amx-db42 192.167.71.60 amx-db60</pre>
AMX-11984 TAP-12831	<p>Summary</p> <p>You are not able to replicate the Administrator server after upgrading from an earlier 3.1.x version.</p> <p>Workaround</p> <p>Follow these before attempting the replication procedure:</p> <ol style="list-style-type: none"> Import <code>basic_cli.xml</code> in <code>sharedWorkFolder_build.xml</code>. Modify the line <pre><import file="\${admin.samples.directory}/admin-scripts-base.xml"/></pre> to <pre><import file="basic_cli.xml"/></pre> Edit <code>sharedWorkFolder_data.xml</code> <ol style="list-style-type: none"> Remove the <code>ApplicationFolder</code> element. Change the artifact server app name from <code>com.tibco.amx.platform.artifactserver</code> to <code>amx.artifactserver.app</code>. Change the name of the internal HTTP connector name in the substitution variable element from <code>TIBCO ActiveMatrix Internal HTTP Connector Resource</code> to <code>tibco.admin.http.connector.internal</code>.

Key	Summary/Workaround
AMX-11970	<p>Summary</p> <p>In a replicated Administrator server setup if you deploy to the system node applications with policies applied on them, those policies are not enforced after upgrade.</p> <p>Workaround</p> <p>First undeploy and then redeploy these applications after upgrading all system nodes.</p>
AMX-10757	<p>Summary</p> <p>After shutting down and restarting a database accessed by a JDBC resource instance, Workspace throws an error.</p> <p>Workaround</p> <p>Log into Workspace again.</p>
DSS-813	<p>Summary</p> <p>While upgrading to ActiveMatrix release 3.3.0, you may see benign errors similar to the following example:</p> <pre data-bbox="507 913 1465 966">[ERROR]com.tibco.trinity.runtime.base.provider.identity.CipherSupport</pre> <p>Such errors are harmless and do not mean that the upgrade failed. No action is required.</p> <p>Workaround</p> <p>None.</p>
MCR-2002	<p>Summary</p> <p>If you have configured Microsoft SQL Server 2012 as a database for Administrator, invoking a custom DAA may result in harmless exceptions similar to the following examples:</p> <pre data-bbox="507 1333 1465 1711">Caused by: com.microsoft.sqlserver.jdbc.SQLServerException: Violation of UNIQUE KEY constraint 'UQ_Mcr2Stat__1C012A471DC5DDE4'. Cannot insert duplicate key in object 'dbo.Mcr2StatisticsMetric'. The duplicate key value is (93, 21, 22, 3, -1). at com.microsoft.sqlserver.jdbc.SQLServerException.makeFromDatabaseError(SQLServerException.java:216) at com.microsoft.sqlserver.jdbc.SQLServerStatement.getNextResult(SQLServerStatement.java:1515) at com.microsoft.sqlserver.jdbc.SQLServerPreparedStatement.doExecutePreparedStatement(SQLServerPreparedStatement.java:404) ... 44 more</pre> <p>Workaround</p> <p>None.</p>


Key	Summary/Workaround
MCR-1995	<p>Summary</p> <p>If you have configured IBM DB2 as an external database, you may see harmless exceptions similar to the following examples in SystemNode.log:</p> <pre>Retrying database transaction after error: Proceccing of metric requestsIn for event com.tibco.governance.amxserviceprobe.ServiceProbeInstruments.Serv iceRequestIn failed for measure Total and time window Since Started Time Window Retrying database transaction after error: Proceccing of metric faults for event com.tibco.governance.amxserviceprobe.ServiceProbeInstruments.Serv iceExecutionTime failed for measure Total and time window Since Started Time Window</pre> <p>Such exceptions are benign and don't require any action.</p> <p>Workaround</p> <p>None.</p>

TIBCO Hawk ActiveMatrix Plug-in

Key	Summary/Workaround
HKAM-266	<p>Summary</p> <p>If the ActiveMatrix Administrator server or TIBCO Host instance is configured to use SSL-enabled Enterprise Message Service on AIX platform, and Hawk 5.0 is installed, then starting Hawk Agent fails giving an error.</p> <p>Workaround</p> <p>Use Hawk 4.9 instead of Hawk 5.0.</p>
HKAM-264	<p>Summary</p> <p>Users cannot change the timeout of method invocation for Custom microagent.</p> <p>Workaround</p> <p>None.</p>
HKAM-253	<p>Summary</p> <p>Hawk Display shows multiple entries for node Service microagent when rulabases for TIBCO Host or nodes are invoked after the TIBCO Host or node crash.</p> <p>Workaround</p> <p>Click Done, and again open the microagent. Alternatively, restart Hawk Display.</p>

Key	Summary/Workaround
HKAM-251	<p>Summary</p> <p>Continuous error messages are seen in the <code>hawk.log</code> file after starting <code>tibhawkagent.exe</code> on HAWK 5.0. Hawk 5.0 is unable to run <code>powershell.exe</code> used in TIBCO Host rulebase.</p> <p>Workaround</p> <p>Prefix <code>powershell.exe</code> in the rulebase of the TIBCO Host with the absolute path of <code>powershell.exe</code>.</p>
HKAM-250	<p>Summary</p> <p>When using Hawk 5.0, logs are not generated in the <code>CONFIG_HOME/hkam/<host_instance_name>/logs</code> folder. The Hawk Agent shows errors related to <code>slf4j</code> in the Hawk logs.</p> <p>Workaround</p> <p>Remove the <code>slf4j</code> jars and jars with different versions of <code>slf4j</code> from the agent classpath.</p>
HKAM-249	<p>Summary</p> <p>The <code>Stop Reason</code> and <code>Reason Code</code> arguments are not updated for the <code>onNodeEvent</code> method after calling <code>stopNode</code>.</p> <p>Workaround</p> <p>None.</p>
HKAM-242	<p>Summary</p> <p>Hawk 5.0 cannot find Windows PowerShell.</p> <p>Workaround</p> <p>Prefix <code>powershell.exe</code> in the rulebase of the TIBCO Host with the absolute path of <code>powershell.exe</code>.</p>
HKAM-237	<p>Summary</p> <p>On creating a node in the ActiveMatrix Administrator web interface, its rulebase is created in the <code>CONFIG_HOME/hkam/<host_instance_name>/rulebases</code> folder. If the node is deleted, the <code>HAWK.log</code> file continuously produces errors.</p> <p>Workaround</p> <p>Manually delete the rulebase to avoid error entries in the <code>HAWK.log</code> file.</p>
HKAM-193	<p>Summary</p> <p>Hawk ActiveMatrix Plug-in displays some ActiveMatrix applications or components in runtime state as uninstalled, but ActiveMatrix Administrator or <code>nodeutil</code> do not show these applications.</p> <p>Workaround</p> <p>Restart Hawk Agent to clear the cache.</p>

Web Application Component

Key (SR ID)	Description
IWAP-748 (CN-01241212)	<p>Summary: Mapping of location to path in the Web IT mapping does not work when there is no qualifier in the version of the project. When the qualifier is not present in the project, all the resources that were mapped earlier are overwritten in the mapping and hence the URLs get misdirected.</p> <p>Workaround: Avoid removing the .qualifier suffix from TIBCO Business Studio projects unless you can guarantee that all such projects will always have distinct versions.</p>
IWAP-730 (SR-698553)	<p>Summary: ActiveMatrix BPM custom client applications cannot participate in SSO sessions (for example, using Kerberos or SiteMinder). If a domain-authenticated user tries to access an ActiveMatrix BPM custom client application, two problems occur:</p> <ul style="list-style-type: none"> • Instead of automatically logging in as the domain-authenticated user, a login screen is always presented. • No matter what credentials the user supplies on the login screen, the session still uses the credentials of the domain-authenticated user. <div>  <p>In this context, an ActiveMatrix BPM custom client application is an application that is developed using, or supplied as part of, the Client Application Framework - such as Workapp. See the <i>ActiveMatrix BPM Client Application Developer's Guide</i> for more information.</p> </div> <p>Workaround: None.</p>
IWAP-725	<p>Summary</p> <p>If you change a substitution variable (such as %%httpConnectorPort%%) from a hardcoded value (such as 443)—or vice versa—in an HTTP Connector resource template, Workspace and Openspace fail to open and you may see an error similar to the following example in the logs:</p> <pre>[ERROR] com.tibco.n2.rtc.ap.ActionProcessor - [ERROR] - {WS_REQUEST_EXCEPTION} - Workspace caught an Exception ~{extendedMessage='Invalid Security Context: Missing requested attribute</pre> <p>Workaround</p> <p>Redeploy the application and restart Workspace and Openspace.</p>

Key (SR ID)	Description
IWAP-669	<p>Summary</p> <p>If you add a WebApp component to an imported project created in ActiveMatrix 3.2.0 that already has a WebApp component, every time you select the newly added WebApp component after selecting the original WebApp component the Thread Context Class Loader Type drop-down list in the Properties > Implementations tab will be disabled.</p> <p>Workaround</p> <p>Deselect the newly added WebApp component (by selecting any area on the canvas that is not the original WebApp component from the imported project), then select the newly added WebApp component again. The Thread Context Class Loader Type drop-down list should be enabled.</p>
IWAP-223	<p>Summary</p> <p>In the web.xml file, resource-ref elements are not supported.</p> <p>Workaround</p> <p>None.</p>
IWAP-72	<p>Summary</p> <p>The WebApp component does not have an option to modify the Web Application connector during deployment in TIBCO Administrator UI.</p> <p>Workaround</p> <p>To configure or change the connector name in TIBCO Administrator:</p> <ol style="list-style-type: none"> 1. In TIBCO Business Studio, open the project containing the Web Application component. 2. Promote the defaultConnector property to a composite level: <ol style="list-style-type: none"> a. Select the defaultConnector property on the component. b. Right-click and select Promote. 3. Make the composite property a substitution variable so it can be substituted in TIBCO Administrator before deployment. 4. Right-click on composite and select Create DAA. 5. In TIBCO Administrator, make sure a connector with the same name is created in TIBCO Administrator and deployed on to the node before the Web Application DAA is deployed.