

# TIBCO ActiveMatrix BusinessWorks™ Release Notes

*Software Release 6.2.0  
November 2014*

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# Setting Context Sensitive Help Preferences

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This procedure explains how to change your help preferences in TIBCO Business Studio™ to access context sensitive help from a local directory or from an internal web server, if you have placed the documents under it.

## Prerequisites

Before setting context help preferences you must download the documentation for your product from the FTP site provided by your TIBCO representative. Copy the documentation zip file to a local directory, or to an internal web server and then unzip the file.


## Procedure

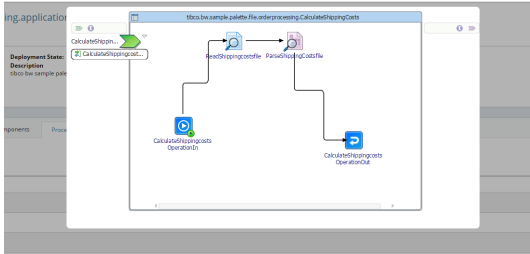
1. In TIBCO Business Studio, click **Window > Preferences**. On Mac OS X, click **TIBCO Business Studio > Preferences**.
2. In the Preferences dialog, click **BusinessWorks > Help**.
3. Select **Custom Location** and then click **Browse** to select the html directory where you unzipped the documentation, or provide the URL to the html directory on your internal web server.
4. Click **Apply** and then click **OK**.

## New Features

Here are the new features available in this release (6.2.0) of TIBCO ActiveMatrix BusinessWorks.

### Runtime Administration Framework

Runtime Administration Framework	
bwagent supports an external datastore for communication and TIBCO Enterprise Message Server (EMS) for persistence	The bwagent now supports an external datastore (PostgreSQL or MySQL) and TIBCO EMS for persistence and communication in addition to TIBCO ActiveSpaces. See Administrator and Agent -> bwagent -> Configuring bwagent in the <i>Administration</i> guide for details.
bwagent configuration	Two JSON files are provided for bwagent configuration: <code>bwagent_as.json</code> and <code>bwagent_db.json</code> . You can use the <code>bwadmin config</code> command with one of these JSON files to configure the bwagent.  See Administrator and Agent -> bwagent -> Configuring bwagent -> ActiveSpaces Configuration for bwagent and Administrator and Agent -> bwagent -> Configuring bwagent -> Database/EMS Configuration for bwagent in the <i>Administration</i> guide for details.
bwadmin commands for viewing agent and engine information	There are new bwadmin commands for viewing agent and engine information: <ul style="list-style-type: none"> <li>• The <code>show agentprocessinfo</code> command shows info about the agent.</li> <li>• The <code>show bwengine</code> command shows info about the engine on an AppNode.</li> <li>• The <code>bwengineedb</code> command shows info about the engine database.</li> </ul>
Remote AppNode debugging from TIBCO Business Studio	You can debug a remote AppNode from TIBCO Business Studio. To do so, select the AppNode in the <b>Deploy</b> view and click the enable debug icon  in the Properties view before launching the debugger.  See Deploying an Application -> Using the Debugger -> Remote Debugging in the <i>Application Development</i> guide for details.

Runtime Administration Framework	
Remote AppNode debugging enabled using the bwadmin command or from the Admin UI	<p>You can enable remote debugging for an AppNode using the bwadmin command or from the Admin UI. This is useful in secure environments where only an administrator has the access rights to enable or disable ports.</p> <p>See Administration Tasks and Reference -&gt; Managing AppNodes -&gt; Debugging an AppNode in the <i>Administration</i> guide for details.</p>
Application activity execution statistics and process execution statistics collection	<p>You can collect application activity execution statistics and process execution statistics and display the results as a text file, an HTML file, or write to a database. See Logging -&gt; AppNode Logging -&gt; Statistics Collection in the <i>Administration</i> guide for details.</p>
Domain backup and deletion in the Admin UI	<p>The following operations are available on the <b>Domain Management</b> page in the Admin UI:</p> <ul style="list-style-type: none"> <li>• Backing up and restoring an domain. See Administration Tasks and Reference -&gt; Managing Domains -&gt; Backing Up and Restoring a Domain in the <i>Administration</i> guide for details.</li> <li>• Deleting a domain. See Administration Tasks and Reference -&gt; Managing Domains -&gt; Deleting Domains in the <i>Administration</i> guide for details.</li> </ul>
View process diagrams in the Admin UI	<p>From the <b>Application</b> page in the Admin UI for a running application, you can view the endpoints, components, and processes for a running application. Furthermore, you can view the process diagrams provided the application archive file was generated using the current version of the product.</p> <div style="text-align: center;">  </div> <p>See Administration Tasks and Reference -&gt; Managing an Application -&gt; Viewing Endpoints, Components, and Processes in the <i>Administration</i> guide for details.</p>

Runtime Administration Framework	
REST Doc URL in the Admin UI	From the <b>Application</b> page in the Admin UI for a running application, you can view the REST Doc URL for applications using REST services. The links open the REST UI page where you can test out the operations. See Administration Tasks and Reference -> Managing an Application -> Viewing Running Applications in the <i>Administration</i> guide for details.
Unified Doc URL configuration	Documentation for all applications in an AppSpace using REST services are now available on a single REST Doc URL. See Administration Tasks and Reference -> Managing an Application -> Viewing Endpoints, Components, and Processes -> Configuring a Unified Doc URL in the <i>Administration</i> guide for details.
Application properties and application instance properties editing in the Admin UI	Application properties and application instance properties can be edited from the Admin UI. See Administration Tasks and Reference -> Managing an Application -> Editing Application and Application Instance Properties in the <i>Administration</i> guide for details.
Application profile download from the Admin UI	Application profiles can now be downloaded from the Admin UI. This is the same as exporting an application profile on the command line using the bwadmin <b>export</b> command. See Administration Tasks and Reference -> Managing an Application -> Editing Application and Application Instance Properties -> Exporting an Application Profile in the <i>Administration</i> guide for details.
AppSpace or AppNode configuration update from the Admin UI	The AppSpace or AppNode configurations can be viewed and updated from the Admin UI. Updates to the AppSpace configuration made from the Admin UI are applied to all the AppNodes contained in that AppSpace. This is the same as running the bwadmin <b>config</b> command on the command line to update the AppSpace or AppNode configurations.  See Administration Tasks and Reference -> Managing AppSpaces -> Editing an AppSpace Configuration and Administration Tasks and Reference -> Managing AppNodes -> Editing an AppNode Configuration in the <i>Administration</i> guide for details.

Runtime Administration Framework	
Ability to iterate through a list of items in Level 2 entities in the Admin UI	You can now iterate through a list of items in Level 2 entities (next and previous) in the Admin UI. See Admin UI tasks in the "Administration Tasks and Reference" section in the <i>Administration</i> guide.

## Design-time

Design-time	
Compensation Handlers and Compensate activity	<p>Every scope can define a compensation handler, which contains logic that gets executed to revert the logic of the scope. A compensation handler can be executed only if the scope that is belong to has been successfully executed. A compensation handler can be triggered in the following ways:</p> <ul style="list-style-type: none"> <li>• implicitly, by an uncaught fault that is thrown downstream in the process.</li> <li>• explicitly, by using the Compensate activity.</li> </ul>
FTL Palette	The FTL palette allows ActiveMatrix BusinessWorks applications to send and receive messages using TIBCO FTL <sup>®</sup> . See FTL Palette in the <i>Bindings and Palettes Reference</i> guide for details.
Inspector Activity	The Inspector activity is used to write the output of any or all activities and module properties to a file and/or standard output. This activity is particularly useful to debug processes. See Inspector in the <i>Bindings and Palettes Reference</i> guide for details.
Deploy an application from TIBCO Business Studio	You can deploy an application to an AppSpace from TIBCO Business Studio. See Deploying an Application in the <i>Application Development</i> guide for details. For restrictions, refer to <a href="#">Known Issues</a> section in the <i>Release Notes</i> .
Generate ActiveMatrix BusinessWorks processes in SVG format when generating archive file	When creating an archive file for an application, the application packager also generates the ActiveMatrix BusinessWorks processes in SVG format, which can be rendered in the Admin UI. When you deploy this archive file and start the application, you can view the process diagrams for the processes from the Applications page in the Admin UI.



Design-time	
Support for partial responses in REST	Partial responses in REST helps the user to request only those fields which are required as part of response. See REST Binding in <i>Bindings and Palettes Reference</i> guide for details.
Support for refactoring XSD schema and WSDL entities	A new refactoring tool for renaming entities is available as part of the Project Explorer menu. When you right-click on a particular entity, if that entity supports refactoring, a new <b>Refactor</b> menu containing the refactoring tools that are appropriate and available for that entity is displayed. For example, when you right-click on an XML Schema, the <b>Refactor</b> menu item lists a <b>Rename XSD Schema Namespace</b> refactoring tool.
Eclipse p2 installation for ActiveMatrix BusinessWorks Plugins	ActiveMatrix BusinessWorks plugins can now be installed from TIBCO Business Studio using the <b>Help &gt; Install New Software</b> menu. The Eclipse p2 installation packages for the plugins must be downloaded and made available on an update site or directory beforehand. See Installing TIBCO ActiveMatrix BusinessWorks Plug-ins in the <i>Installation</i> guide for details.

## Samples and Scripts

Samples and Scripts	
Core admin scripts support database/EMS configuration	The core admin scripts now support the bwagent configuration for PostgreSQL database with TIBCO EMS.
New admin script to create a fault tolerant group with cross-engine persistence.	A new admin script, <b>configureBWEngineGroup.sh</b> , to create a fault-tolerant group with cross-engine persistence is available. This script can be used the bwagent is configured for TIBCO ActiveSpaces.

## Changes in Functionality

The following are the notable changes in functionality in this release (6.2.0).

### Runtime Administration Framework

Runtime Administration Framework	
Changes in the file system location for the default \domains folder	<p>The default folder (domains) used to store runtime artifacts in the file system used to be located at <code>TIBCO_HOME/bw/domains</code>. This folder is now located at <code>TIBCO_HOME/bw/6.2/domains</code>.</p> <p>You can change the location of the default folder used to store the runtime artifacts by updating the <code>defaultdomain.domainHome</code> property in the <code>TIBCO_HOME/bw/6.2/domains/DomainHomes.properties</code> file. See section <i>Configuring the Location of the Default Domains Folder</i> in the <i>Administration</i> guide for details.</p>
Changes to the OSGi commands	<p>The OSGi commands have changed. For the full list of commands, see <i>Managing AppNodes -&gt; Enabling the OSGi Console for an AppNode -&gt; OSGi Runtime Statistics Commands</i> in the <i>Administration</i> guide.</p>
Changes to the TIBCO Hawk MicroAgent method names	<p>The TIBCO Hawk MicroAgent method names have changed. For the full list of methods, see <i>Monitoring using TIBCO Hawk -&gt; TIBCO Hawk MicroAgent Methods</i> in the <i>Administration</i> guide.</p>
Archive paths in a backup archive are now relative within the archive	<p>When a backup is created as an archive file, the archive file is generated as <code>&lt;entity&gt;_&lt;name&gt;.zip</code> and contains relative paths. The destination argument can be an existing folder, or if the specified ends with a forward-slash (<code>/</code>), a folder will be created (if it does not exist already).</p>
Persistent application state	<p>Previously, applications did not retain their state after an AppNode was restarted. This behavior has changed and applications now retain their state when an AppNode is restarted.</p>

## Samples and Scripts

Samples and Scripts	
Changes in the file system location	<p>The core admin scripts are now available under the <code>BW_HOME/samples/core/admin</code> folder. See Core Admin Scripts in the <i>Administration</i> guide for details.</p>
Changes to the location of the admin scripts shipped with the product	<p>Previously, all the admin scripts were installed under a single directory, <code>BW_HOME/samples/core/admin</code>.</p> <p>These scripts are now separated into two sets and are installed under the following directories:</p> <ul style="list-style-type: none"> <li>• Sample scripts located at <code>BW_HOME/samples/core/admin</code>.</li> <li>• Generic scripts located at <code>BW_HOME/scripts/admin</code>.</li> </ul> <p>As a consequence of this separation, the sample scripts now rely on the PATH variable to find the generic scripts available under <code>BW_HOME/scripts/admin</code>.</p> <p>The script, <code>BW_HOME/scripts/bashrc.sh</code>, containing the environment variables is auto-generated after installation. To set the environment variables required to run the admin scripts, add the following statement to your <code>~/.bashrc</code> file to source the generated script:</p> <pre>source BW_HOME/scripts/bashrc.sh</pre>

## Closed Issues

The following are the closed issues for the 6.2.0 release of TIBCO ActiveMatrix BusinessWorks.

The closed issues are grouped by components:

- [Administration](#)
- [Bindings](#)
- [General](#)
- [Migration](#)
- [Palettes](#)

### Administration

Key	Description
AMBW-16775	On Microsoft Windows, an exception (Failed to write config file) was thrown when configuring an AppNode if the config.ini file was not written using UTF-8 encoding.
AMBW-14868	After deleting an AppSpace from the AppSpace level 2 page, the first operation to delete (or create) an AppSpace in the AppSpace level 1 page was hanging.
AMBW-12126	Applications did not retain their state when an AppNode was restarted.
AMBW-8481	On Microsoft Windows, the bwagent listen port was not released when a process was killed. As a result, when the bwappNodes were launched again by the bwagent, the process continued to run.

### Bindings

Key	Description
AMBW-14834	An error was thrown by the SOAP service if the SOAP address location contained a question mark character ("?"). This has been fixed.
AMBW-14694	Model/Model Schema in Swagger UI did not show anonymous complex type elements which refer to another anonymous complex type.
AMBW-13807	REST Service Binding and Swagger UI did not support Optional Query Parameters at runtime even if they were defined as optional at design time.
AMBW-11344	When you moved a process from a shared module into an application module using Drag and Drop mechanism, the application that contained the application module was not updated to contain the shared module.
AMBW-14678	Service names, reference names, and binding names now support the use of Latin extended and CJK characters.

## General

Key	Description
AMBW-15334	When a process contained two or more Error transitions, the input mappings for all but one of the activities using the error transitions were broken and caused incorrect problem markers.
AMBW-14789	While debugging, the F6 key could not be used continuously to step through the code as the focus was lost.
AMBW-14770	Creating a conversation for a process that included both a service or a reference and a signal-in activity resulted in a corrupted process.
AMBW-14712	The size of the drop-down field for the Reply Activity's General Service was minimal and did not show any content by default. To resize the window, you had to select the drop-down field and enter the return key. This has been fixed.
AMBW-14577	Clicking on a process file in the Project Explorer and choosing "Launch BusinessWorks Debugger" option did not start the ActiveMatrix BusinessWorks process. This has been fixed.
AMBW-14442	You can now copy and paste activities from one group to another within a process.
AMBW-13942	When uninstalling ActiveMatrix BusinessWorks and one or more of the following plugins from a <i>TIBCO_HOME</i> all at once, if ActiveMatrix BusinessWorks was uninstalled first, then the uninstallation of the remaining plugin products failed. The affected plugins were: <ul style="list-style-type: none"> <li>• ActiveMatrix BusinessWorks Plug-in for CICS</li> <li>• ActiveMatrix BusinessWorks Plug-in for Data Conversion</li> <li>• ActiveMatrix BusinessWorks Plug-in for WebSphere MQ</li> </ul>
AMBW-13090	An exception, <code>com.tibco.bw.core.runtime.ActivityInputValidationException</code> , was thrown for a variable of long data type if the long value was greater than 6 digits.
AMBW-11595	A <code>NullPointerException</code> was thrown when an AE activity was added to an ActiveMatrix BusinessWorks process.
AMBW-7677	Module shared variable did not build its initial value correctly from XSD schema for the double-byte characters.

## Migration

Key	Description
AMBW-13832	After migration, the HTTP, JMS and Mail projects showed a duplicate header on the Input tab.

Key	Description
AMBW-13566	XPath could not convert an integer to string automatically when the upstream activity had multiple level schema. This has been fixed.
AMBW-11189	The Java Custom Function activity did not migrate successfully.
AMBW-10891	Timer activity was not migrated and displayed as an empty activity after migration on a non-English platform.
AMBW-10289	After migration, the Data Format shared resource reference was not generated correctly for Parse or Render data activities.

### Palettes

HTTP Palette	
Key	Description
AMBW-14508	The HTTP Client Resource automatically used the "chunked" form as Transfer-Encoding HTTP header value regardless of whether content-length was set in the <b>Input</b> tab for Apache HTTP components or not.
AMBW-11263	Parameters on the Send HTTP Request activity were automatically deleted when <b>Directory</b> name was added on the <b>Advance</b> tab as Module Property.
AMBW-9210	The HTTP Request activity always applied UTF-8 encoding to generate a URI encoded string for the GET method, regardless of the content-type setting in the HTTP Header.
AMBW-7757	The HTTP Receiver activity always applied UTF-8 encoding to get the parameter data from URI encoded strings. The parsed parameter data in the HTTP Receiver activity was garbled if native encoding was applied to URI encoded string.

JMS Palette	
Key	Description
AMBW-15982	<p>When configured with JMSApplicationProperties and XML Text payload, the Body element clashed and mapping could not be done in the input field. This has been fixed.</p> <p>However, the UI is not refreshed automatically. You must close the project and then re-open it to refresh the UI.</p>
AMBW-14631	<p>The package name of an existing JNDI configuration was deleted if a second JMS Shared Resource of type JNDI was added with the following conditions:</p> <ul style="list-style-type: none"> <li>the <b>New</b> button shortcut is used to create the JNDI Configuration.</li> <li>a JNDI Configuration with the same name already exists.</li> </ul> <p>This led to a validation error 'No JNDI Configuration specified' on all the JMS Connection shared Resources that used the affected JNDI Configuration.</p>

JMS Palette	
Key	Description
AMBW-7449	<b>RequestTimeout</b> input item is now available in the JMS Request Reply activity.

REST and JSON Palette	
Key	Description
AMBW-14866	<p>When using the <b>BW JSON UTILS &gt; Create Schema from JSON payload</b> wizard, the XSD schema was always created with the root element name even though a different file name was specified.</p> <p>For example, if the root element name was "Books" and the file name was "Books1.xsd", then the schema was created as "Books.xsd".</p>
AMBW-13573	The REST Invoke activity now throws a design time validation error if configured with an HTTP Client Resource which has an unsupported Implementation Library.

Shared Resources	
Key	Description
AMBW-11984	When a Shared Resource field had a Module Property value, and that field was changed to Literal and then immediately back to Module Property, the Module Property choice had to be re-selected. The change to Literal Value removed the Module Property value, but the combo box still retained the old value. The old Module Property value was not saved in the Shared Resource.

XML Palette	
Key	Description
AMBW-14283	An <code>Activity</code> output data validation error exception was thrown at runtime for schemas that contained "any" element and <code>processContents="strict"</code> .
AMBW-12860	After migration, problem markers were seen for "Render-PO-XML", "Map-Data", "Assign" and "Publish-CompletePO-Message". This has been fixed.
AMBW-11722	In the Input of the Render XML, if each element was mapped individually with a corresponding output of Parse XML, every element was prepended with "schemas:".

## Known Issues

The following are the known issues in this release of TIBCO ActiveMatrix BusinessWorks.

The known issues are grouped by components:

- [Administration](#)
- [Bindings](#)
- [General](#)
- [Migration](#)
- [Palettes](#)

### Administration

Key	Description
AMBW-16950	<p><b>Summary:</b> The <code>create appnode</code> command with <code>-r</code> or <code>-lax</code> options does not work when run in a separate session of <code>bwadmin</code>.</p> <p><b>Workaround:</b> None.</p>
AMBW-16790	<p><b>Summary:</b> On Microsoft Windows, closing the <code>bwadmin</code> command window terminates the AppNodes that were started from this command window.</p> <p><b>Workaround:</b> None. On Microsoft Windows, child processes are terminated when their parent terminates.</p>
AMBW-16657	<p><b>Summary:</b> The <code>-na</code> or <code>-noarchives</code> options are currently ignored by the backup command from TEA shell. As a result, the archives and applications are backed up even when you run the backup command with option <code>-na</code> (or <code>-noarchives</code>) from the TEA shell.</p> <p><b>Workaround:</b> None.</p>

### Bindings

Key	Description
AMBW-16317	<p><b>Summary:</b> REST services bypass HTTP Basic Authentication even after LDAP Configuration is provided on HTTP Connector shared resource. It does not authenticate against the credentials.</p> <p><b>Workaround:</b> None.</p>
AMBW-16039	<p><b>Summary:</b> Incorrect Swagger specification models are generated for REST services when using the pass through mechanism (Opaque mode).</p> <p><b>Workaround:</b> None.</p>



Key	Description
AMBW-15931	<p><b>Summary:</b> When sending a REST request to invoke a REST resource and authentication is enabled, the authorization header is not added to the request. As a result, the request fails even though the authorization information is provided. This issue is observed only with the Invoke REST API activity.</p> <p><b>Workaround:</b> Add the user name and password in the dynamic header under the Input tab.</p>
AMBW-13999	<p><b>Summary:</b> Deleting a REST Component results in permanent loss of the Bindings.</p> <p><b>Workaround:</b> If after deletion the artifacts are not saved, quit TIBCO Business Studio without saving and this will not delete the bindings. However if artifacts are saved after deleting a binding or a component, it cannot be re-added.</p>
AMBW-13607	<p><b>Summary:</b> REST Doc UI is not supported on Firefox browser.</p> <p><b>Workaround:</b> Use other browsers for the Doc UI.</p>
AMBW-13572	<p><b>Summary:</b> For some use cases, REST Doc UI does not show the correct error code in case of Internal Server errors on the Server side.</p> <p><b>Workaround:</b> Check the raw message that contains the correct error code.</p>
AMBW-13485	<p><b>Summary:</b> REST Doc UI does not support browsers like Internet Explorer.</p> <p><b>Workaround:</b> Use other browsers for the Doc UI.</p>
AMBW-11974	<p><b>Summary:</b> Resolution of SOAP transport type does not work for SOAP over HTTP, if SOAP over JMS and SOAP over HTTP bindings are in the same process.</p> <p><b>Workaround:</b> None.</p>
AMBW-11965	<p><b>Summary:</b> REST <b>Bindings</b> tab values are not serialized correctly if they are edited from <b>Bindings</b> tab of the REST service on the process.</p> <p><b>Workaround:</b> In the <b>Bindings</b> tab, update values in the <b>Module Descriptors &gt; Components &gt; Bindings</b>.</p>
AMBW-8982	<p><b>Summary:</b> Changing the <b>Resource</b> name in the REST service <b>Bindings</b> tab, does not update the <b>Resource Service Path</b>.</p> <p><b>Workaround:</b> None.</p>

## General

Key	Description
AMBW-17034	<p><b>Summary:</b> When an application with RVCM is stopped, the AppNode does not release the RVCM ledger file handle. As a result, when you try to restart the application, the RVCM ledger file cannot be opened and the application fails to start.</p> <p><b>Workaround:</b> For applications with RVCM, restart the AppNode instead of restarting the application.</p>
AMBW-17033	<p><b>Summary:</b> JAXWSInterop sample (<b>binding &gt; soap &gt; http &gt; JAXWSInterop</b>) throws 'Activity [JavaInvoke] fault' when deployed in Admin.</p> <p><b>Workaround:</b> None.</p>
AMBW-16997	<p><b>Summary:</b> When running an ActiveMatrix BusinessWorks application on Microsoft Windows 2012, an error message, <code>com.tibco.bw.tpcl.org.hyperic.sigar</code>, is thrown during startup.</p> <p><b>Workaround:</b> None.</p>
AMBW-16992	<p><b>Summary:</b> When you run an application in TIBCO Business Studio using <b>Run &gt; Run Configurations...</b>, the application is observed to take a longer time to start if it contains a shared module.</p> <p><b>Workaround:</b> To improve the start time of the application, reset the target platform, clean the project, and then restart TIBCO Business Studio.</p>
AMBW-16846	<p><b>Summary:</b> Refactoring the HTTP Shared Resource name or package does not update the connector field in REST binding.</p> <p><b>Workaround:</b> None.</p>
AMBW-16831	<p><b>Summary:</b> Projects cannot have their names ending with <code>.xsd</code> or <code>.wsdl</code>.</p> <p><b>Workaround:</b> Rename the projects to have a suffix other than <code>.xsd</code> or <code>.wsdl</code>.</p>
AMBW-16677	<p><b>Summary:</b> When you rename a partner link or an operation, the framework currently does not notify the Confirm activity.</p> <p><b>Workaround:</b> None.</p>

Key	Description
AMBW-16642	<p><b>Summary:</b> Product installation fails on Mac OS X with a dialog box requesting to install Java SE 6.</p> <p><b>Workaround:</b> Java 6 is required for the installation process to complete. Choose one of the following options to workaround this issue:</p> <ol style="list-style-type: none"> <li>1. Prior to running the product installer, download Java 6 from Apple site. For detailed instructions, see <a href="http://support.apple.com/kb/DL1572">http://support.apple.com/kb/DL1572</a>.</li> <li>2. If you have already run into the installation failure, click <b>Install</b> to download and install of Java 6. By default, Java 6 is installed under / System/Library/Java/JavaVirtualMachines/1.6.0.jdk. At this point the installer is already in a failed state. Exit the installation by clicking <b>Cancel</b>. Clean up the <i>TIBCO_HOME</i> directory chosen for installation and run the installer to install the product.</li> </ol>
AMBW-16633	<p><b>Summary:</b> TIBCO Business Studio fails to launch on Mac Yosemite OS as the JAVA SE 6 runtime is not available by default.</p> <p><b>Workaround:</b> Download and install the Java for OS X 2014-001 from <a href="http://support.apple.com/kb/DL1572">http://support.apple.com/kb/DL1572</a>.</p>
AMBW-16625	<p><b>Summary:</b> Refactoring the dependent WSDL namespace causes an error "TIBCO-BW-BINDING-SOAP-500020: Failed to initialize SoapServiceBinding".</p> <p><b>Workaround:</b> None.</p>
AMBW-16256	<p><b>Summary:</b> The first attempt to change the data type of an Operator's input or output schema element fails and the change is not committed. Subsequent attempts complete without any failure.</p> <p><b>Workaround:</b> To commit the change, you must press the return key after every change.</p>
AMBW-16213	<p><b>Summary:</b> In the Debug Launcher, only one application can be deselected. If you try to deselect a second application, the first application gets selected automatically.</p> <p><b>Workaround:</b> Close the applications or modules that you do not want to debug.</p>
AMBW-16209	<p><b>Summary:</b> Complex elements are not visible on the Input editor.</p> <p><b>Workaround:</b> Refresh and then re-select the process.</p>
AMBW-16038	<p><b>Summary:</b> A <code>NullPointerException</code> is thrown at runtime for projects which have subprocess referring to external schema.</p> <p><b>Workaround:</b> None. The <code>NullPointerException</code> can be ignored if the REST application can be accessed from web browser, and the application can be started and stopped as usual.</p>

Key	Description
AMBW-14958	<p><b>Summary:</b> During installation, if you choose not to download and install the Oracle Elliptic Curve Cryptography Library, then projects containing a shared resource configured with SSL fail at run time with the following error: A fatal error has been detected by the Java Runtime Environment.</p> <p><b>Workaround:</b> If you have a different JRE installed in the system path and that one has the library installed, remove the JRE from the system path and then relaunch TIBCO Business Studio.</p>
AMBW-14861	<p><b>Summary:</b> Unable to enter an XPath expression on a transition using the XPath Builder. This issue is observed on Mac OS only.</p> <p><b>Workaround:</b> Enter the XPath expression directly in the <b>Properties</b> tab &gt; <b>Expression</b> field for the transition without using the XPath Builder.</p>
AMBW-14533	<p><b>Summary:</b> Mapper does not throw typecasting error, if the <b>Integer</b> data type is mapped with <b>String</b> data type.</p> <p><b>Workaround:</b> None</p>
AMBW-14254	<p><b>Summary:</b> The following validation error is thrown when you validate the WSDL, <code>ZipInfo_gen.wsdl</code>, from the <code>ZipCodeLook</code> sample: <code>cvc-complex-type.4: Attribute 'location' must appear on element 'wsdl:import'.</code></p> <p><b>Workaround:</b> The validation error is thrown because the generated WSDL does not embed the schema. To fix this error, embed the schema when generating the WSDL from the <code>ZipPort SOAP</code> service binding component.</p>
AMBW-13955	<p><b>Summary:</b> After deleting a component that contains REST binding, it is not possible to re-create the component with the REST binding.</p> <p><b>Workaround:</b> To re-add the REST binding:</p> <ol style="list-style-type: none"> <li>1. In the Process Editor, right click on the Service without a binding.</li> <li>2. Choose <b>Components</b> &gt; <code>[componentname]</code> &gt; <b>Create REST Binding</b>.</li> </ol> <p>A binding will be created for this service. However, a binding still cannot be created from the <b>Module Descriptor/Components</b> property section after it has been deleted.</p>
AMBW-13823	<p><b>Summary:</b> Directory browser dialog in BW Context Sensitive Help preference setting page does not consistently popup on Mac OS X 10.9.2</p> <p><b>Workaround:</b> Copy and paste the directory path into the configuration field instead of using directory browser to pick it.</p>
AMBW-13683	<p><b>Summary:</b> Shared resource module property references in the migrated TIBCO ActiveMatrix BusinessWorks 5.x projects do not show up correctly on non-Windows platforms.</p> <p><b>Workaround:</b> Close and re-open the project.</p>
AMBW-13673	<p><b>Summary:</b> Schema is not populated in Input Editor/Output Editor if there is no <code>targetNamespace</code> in the schema.</p> <p><b>Workaround:</b> Provide <code>targetNamespace</code> in the schema.</p>

Key	Description
AMBW-13492	<p><b>Summary:</b> Clicking on the Input or Output tabs of a service operation in TIBCO Business Studio may sometimes throw a <code>java.lang.NullPointerException</code> error.</p> <p><b>Workaround:</b> None.</p>
AMBW-12785	<p><b>Summary:</b> When trying to exit TIBCO Business Studio before saving the process, throws a <code>java.lang.NullPointerException</code> error.</p> <p><b>Workaround:</b> None</p>
AMBW-12490	<p><b>Summary:</b> Under certain circumstances, substitution types do not resolve properly in the mapper. The mapper shows errors for them.</p> <p><b>Workaround:</b> Try closing and reopening the project. If that doesn't solve the issue, try closing and reopening Eclipse. If the errors still persist, do project clean (that is, go to Project menu and click on "Clean...").</p>
AMBW-11853	<p><b>Summary:</b> A process that has an XSLT with a substitution, throws a validation exception at run-time, unless the process is explicitly importing the XML Schema.</p> <p><b>Workaround:</b> The user should explicitly import the XML Schema in the process, by using the <b>Add Process Import</b> tool that is available in <b>Process Properties &gt; Dependencies</b> tab.</p>
AMBW-11815	<p><b>Summary:</b> A module shared variable cannot initialized with an XML file that contains double-byte characters.</p> <p><b>Workaround:</b> None.</p>
AMBW-11624	<p><b>Summary:</b> TIBCO Business Studio hangs when opening SQL Builder if the database details on the JDBC shared resource are changed from PostgreSQL to MySQL after a query has been created using SQL builder.</p> <p><b>Workaround:</b> None.</p>
AMBW-10137	<p><b>Summary:</b> TIBCO ActiveMatrix Platform based products fail to install in the same <code>TIBCO_HOME</code> as TIBCO ActiveMatrix BusinessWorks 6.0.</p> <p><b>Workaround:</b> Installation of TIBCO ActiveMatrix BusinessWorks 6.0 and TIBCO ActiveMatrix Platform based products in the same <code>TIBCO_HOME</code> is currently not supported.</p>

## Migration

Key	Description
AMBW-16744	<p><b>Summary:</b> An exception is thrown when you migrate a project that contains a folder with a space in the folder name.</p> <p><b>Workaround:</b> None.</p>

Key	Description
AMBW-16406	<p><b>Summary:</b> When you migrate a project using the command line, the output schema in the migrated project is missing.</p> <p><b>Workaround:</b> To fix this issue:</p> <ol style="list-style-type: none"> <li>1. In the Project Explorer view, select all the projects in your workspace.</li> <li>2. Right-click and select <b>Refactor &gt; Reload Working Copy...</b></li> </ol>
AMBW-15253	<p><b>Summary:</b> An error was encountered after migration if the schema has an import statement that could not be resolved and one for a namespace, that was never used in the process.</p> <p><b>Workaround:</b> None.</p>
AMBW-14688	<p><b>Summary:</b> When importing TIBCO ActiveMatrix BusinessWorks projects containing Java, HTTP, or SMTP activities in TIBCO Business Studio, some processes may be marked to be dirty (indicated by the * in front of the process name in Project Explorer). If these processes are opened, the <b>Save</b> button is enabled although the user has not made any changes to the process. When this project is run in Debugger, the exception <code>"com.tibco.bx.debug.MismatchedModelException: Node Definitions don't match BPEL Activities"</code> is thrown.</p> <p><b>Workaround:</b> Before running the project in Debugger, clean the project using the menu <b>Project &gt; Clean</b>.</p>
AMBW-14547	<p><b>Summary:</b> When you migrate an ActiveMatrix BusinessWorks 5.x project containing in-built functions in the JDBC Query activity, an Invalid Column name error is thrown at the JDBC Query activity.</p> <p><b>Workaround:</b> Use an Alias instead of the in-built functions in the ActiveMatrix BusinessWorks 5.x project.</p>
AMBW-14295	<p><b>Summary:</b> After migration, the output of project with Rest and JSON activities does not match with the input of the other activities in the migrated project.</p> <p><b>Workaround:</b> None.</p>
AMBW-14213	<p><b>Summary:</b> After migration, the Render XML activity got an incorrect input schema because of schema collision.</p> <p><b>Workaround:</b> Avoid schema collisions by declaring targetNamespaces in all schema. When that is not possible, include only one of the conflicting schema in each process.</p>
AMBW-13932	<p><b>Summary:</b> If a global variable name and the iteration group's "iteration element" field name is the same, then the migration tool generates a unique name for the iteration element.</p> <p><b>Workaround:</b> Fix all the related activity input mappings manually.</p>

Key	Description
AMBW-11449	<p><b>Summary:</b> Mapping an anyType element to a XML Schema simple type value results in an error.</p> <p><b>Workaround:</b> Coerce the anyType element with XML Schema simple type element and map. The type of the element used for coercion is determined by the value that is used in the mapping.</p>
AMBW-9969	<p><b>Summary:</b> TIBCO ActiveMatrix BusinessWorks 5.x projects with SOAP headers configuration in SOAP activities are not properly migrated to TIBCO ActiveMatrix BusinessWorks 6.x.</p> <p><b>Workaround:</b> SOAP functionality in ActiveMatrix BusinessWorks 6.x is achieved through SOAP Binding where its detail configuration are outside of BusinessWorks Process. The SOAP headers definition are defined at the Binding configuration and configured as generic context parameters for the Process. In the Process, you can use the Get Context activity (from Basic Palette) to retrieve and process the headers as context data. You can do this manually to complete the migrated project.</p>
AMBW-7649	<p><b>Summary:</b> Error Transitions from an event source and group box are not supported.</p> <p><b>Workaround:</b> Manually fix the associated mappings especially those containing error variables. Also, move the error handling path logic to the enclosing scope's catch block.</p>

### Palettes

HTTP Palette	
Key	Description
AMBW-12732	<p><b>Summary:</b> Dynamic Headers for HTTP send request activity are partially migrated. The user after migration has to re-map these missing dynamic header fields by using original ActiveMatrix BusinessWorks 5x mappings in reference.</p> <p><b>Workaround:</b> Add missing headers manually after migration.</p>

JAVA Palette	
Key	Description
AMBW-13526	<p><b>Summary:</b> In <b>Java To XML</b> activity, the <b>Output</b> tab is not populated correctly, if Java Class contains nested Object references in different classes.</p> <p><b>Workaround:</b> None.</p>

JAVA Palette	
Key	Description
AMBW-12687	<p><b>Summary:</b> Using a 2D Array as an input parameter to Java Method, throws the following exception at design time in <b>Java Invoke</b> activity.</p> <p>Unable to obtain information for the method from the class .NoSuchMethodException )</p> <p><b>Workaround:</b> None.</p>
AMBW-6453	<p><b>Summary:</b> A runtime exception is thrown for <b>Java to XML</b> activity when trying to convert java object containing Collections. For example, List, Set, Map, or its implementations (ArrayList, and so on).</p> <p><b>Workaround:</b> Use Parameterized collections (for example, <b>List&lt;String&gt;</b>) in the Java code.</p>

JDBC Palette	
Key	Description
AMBW-16065	<p><b>Summary:</b> The <b>Use NIL</b> check box in JDBC Query activity's Advanced tab does not work as expected and the output parameters of the JDBC Call Procedure are not nillable.</p> <p><b>Workaround:</b> None.</p>
AMBW-14624	<p><b>Summary:</b> <b>Set Explicit Nil</b> check box for Objects and Collections in <b>JDBC Call Procedure</b> activity is disabled.</p> <p><b>Workaround:</b> None.</p>
AMBW-8855	<p><b>Summary:</b> The localized error messages of JDBC connection were not displayed correctly in Studio.</p> <p><b>Workaround:</b> None.</p>
AMBW-7535	<p><b>Summary:</b> While selecting the procedure/function in the JDBC Call Procedure activity, any "Package functions" should not display until a Package is provided in the "Catalog or Package field".</p> <p><b>Workaround:</b> Click the <b>Cancel</b> button and select the procedure again.</p>
AMBW-4297	<p><b>Summary:</b> JDBC activities do not validate unsupported queries.</p> <p><b>Workaround:</b> None.</p>

Parse Palette	
Key	Description
AMBW-12473	<p><b>Summary:</b> <b>Parse Data</b> activity throws a <code>NullPointerException</code> for the XSD namespace collision scenario.</p> <p><b>Workaround:</b> None.</p>



Rendezvous Palette	
Key	Description
AMBW-12473	<p><b>Summary:</b> RV Subscriber activity does not subscribe the message if output schema created by XSD schema editor is used. It works fine if the output schema created Rendezvous activity input/output editor is used.</p> <p><b>Workaround:</b> Change the elementFormDefault for the schema element created using XSD Schema Editor to "unqualified".</p>
AMBW-12042	<p><b>Summary:</b> RV subscriber activity does not subscribe the message if output schema created by XSD schema editor is used. It works fine if the output schema created Rendezvous activity input/output editor is used.</p> <p><b>Workaround:</b> Change the elementFormDefault for the schema element created using XSD Schema Editor to "unqualified".</p>

XML Palette	
Key	Description
AMBW-16925	<p><b>Summary:</b> An exception is thrown at runtime if the Stylesheet field in a TransformXML activity is specified using a module property and the module property contains an absolute path to the stylesheet.</p> <p><b>Workaround:</b> Use a relative path to the stylesheet instead of an absolute path. Also ensure that the XSLT file is in the application module.</p>
AMBW-14292	<p><b>Summary:</b> Parse XML activity displays blank ErrorCode and ErrorMessage for activity output data validation error.</p> <p><b>Workaround:</b> None.</p>
AMBW-12999	<p><b>Summary:</b> For Schemas with mixed content, Render XML adds an extra new line to the output after each string.</p> <p><b>Workaround:</b> None.</p>
AMBW-6965	<p><b>Summary:</b> When the "Input and Output Style" is Tree for the Transform XML activity, a <code>java.lang.AssertionError: origin cannot be null</code> exception is thrown.</p> <p><b>Workaround:</b> None.</p>