

TIBCO ActiveMatrix BusinessWorks™ BPEL Extension

Release Notes

*Software Release 5.9
November 2010*

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Release Notes

These release notes list issues according to topic area.

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

Topics

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New Features

The following sections list new features of each release covered by these release notes.

Release 5.9

There are no new features in release 5.9.

TIBCO ActiveMatrix BusinessWorks BPEL Extension however, is now supported by TIBCO ActiveMatrix BusinessWorks 5.9 release.

Release 5.8

There are no new features in release 5.8.

TIBCO ActiveMatrix BusinessWorks BPEL Extension however, now supports TIBCO ActiveMatrix BusinessWorks 5.8 release.

Release 5.7.1

The following are new features in this release.

- **Security Policy Association** You can now associate a security policy with a service endpoint operation defined for a Partner Link in the Partner Link Configuration resource. There is a unique association between a security policy and the service endpoint operation of the Partner Link. The Service endpoint must be SOAP-based.

Security policies are associated in exactly the same way as in TIBCO ActiveMatrix BusinessWorks.

- **Endpoint URL on Partner Link** You can now specify an HTTP endpoint URL in the Partner Link Configuration resource against the relevant Partner Link.

When a new partner is defined against a concrete binding, the URL specified in the concrete binding is set as default. A new URL can be specified or it can be set to a global variable (which can be configured at deployment time).

- **Message Level Security** You can now provide message level security for outbound messages originating from a BPEL process. The Invoke and Invoke Partner activities are now bound using partner links, that is, they now support message level security.

- **Context Propagation for BPEL Process** You can now propagate context through a BPEL process.
 - **Advanced Configuration of SOAP headers** You can specify advanced configuration details of SOAP headers on BPEL endpoints for an inbound and outbound service request. The Advanced button is available beside the Operations field on the Configuration tab > SOAP Details sub-tab.
 - **GetContext and SetContext activities** The GetContext and SetContext activities have been enabled as BPEL extension activities.
 - **Enhanced Import and Export Mechanism** The Import and Export mechanism has been enhanced to support the GetContext and SetContext BPEL extension activities.

Release 5.7

There are no new features in release 5.7.

TIBCO ActiveMatrix BusinessWorks BPEL Extension, however, can now be used in TIBCO Designer Add-in for Business Studio Design-time for designing BPEL projects.

Release 5.6

A new migration utility, `bwbpel56migrate`, has been introduced in this release. This utility allows you to migrate pre-5.6.x BW projects that used the BPEL extension to the 5.6 version. This utility is located in the `<BW_HOME>/bin` directory.

To migrate the project to 5.6.0, run the utility as follows:

```
bwbpel56migrate [source] [destination]
```

Where `source` is the pre-5.6.x BW project directory and `destination` is the directory where the migrated 5.6.0 BW project should be stored.



- This utility can only be run after BPEL is installed.
- BW projects that do not use the BPEL Extension are not affected.

Changes in Functionality

The following sections list changes to existing features of each release covered by these release notes.

Release 5.9

There are no changes in functionality in release 5.9.

Release 5.8

There are no changes in functionality in release 5.8.

Release 5.7.1

There are no changes in functionality in release 5.7.1.

Release 5.7

There are no changes in functionality in release 5.7.

Release 5.6

This section lists changes to existing product functionality in release 5. 6.

- **Join Conditions** Link names in Join Conditions can now be used as boolean values. For example, if you wish to test for `Link1` and `Link2`, previously you would have the condition `$Link1='true'` and `$Link2='true'`. Now, you can specify `$Link1` and `$Link2`. The previous syntax is still supported for backward compatibility.
- **Partner Link Configuration** The Partner Link Configuration resource has moved to the Service palette. Also, Partner Link Configuration resources now support global variables in configuration fields.

Deprecated Features

This section describes deprecated features and lists equivalent features that accomplish the same result, if relevant. Any use of a deprecated feature should be discontinued as it may be removed in a future release. You should avoid becoming dependent on deprecated features and become familiar with the equivalent feature.

Release 5.9

There are no deprecated features in this release.

Release 5.8

There are no deprecated features in this release.

Release 5.7.1

There are no deprecated features in this release.

Release 5.7

There are no deprecated features in this release.

Migration and Compatibility

Release 5.9

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

Release 5.8

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

Release 5.7.1

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

Release 5.7

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

Closed Issues

This section lists issues that were closed in the releases of TIBCO ActiveMatrix BusinessWorks BPEL Extension.

Closed in Release	Change Request ID	Summary
5.7.1	1-995VPG	When the fault handling functionality of the Invoke Service activity was used, a mismatch in the namespace of the design time and runtime was noticed.
5.7.1	1-9C987B	The SOAP fault messages returned by a TIBCO ActiveMatrix BusinessWorks BPEL Extension process were swapped for a more generic fault message by TIBCO ActiveMatrix BusinessWorks Service Engine.
5.7.1	1-9E9SXR	A BPEL process caught a custom fault through the Catch activity in the standalone (Designer) mode. However, when it was deployed in TIBCO ActiveMatrix BusinessWorks Service Engine, the container failed to catch the fault reply. The content was empty.
5.7.1	1-9NWB6Z	The BPEL Invoke activity did not work with the SOAP over JMS WSDL.
5.6.1	1-8QV7SH	When a service assembly of an orchestration process was deployed and run in the ActiveMatrix environment, the invoke service resource in the process was unable to invoke processes through the SOAP Binding Component. This has been fixed.
5.6.1	1-8UZ7OR	The migration utility <code>bwbpel156migrate</code> was not packaged in the ActiveMatrix BusinessWorks BPEL Extension release version 5.6.0. This has been fixed. The utility, <code>bwbpel156migrate.bat</code> for Microsoft Windows platform and <code>bwbpel156migrate.sh</code> for UNIX platforms, is available in the <code><BW_HOME>/bin</code> directory.
5.6.0	1-7VMH63	A Null Pointer Exception was thrown. A more descriptive error is now returned.
5.6.0	1-7WUNKT	Link names in Join Conditions can now be used as boolean values. For example, if you wish to test for Link1 and Link2, you would have previously specified <code>\$Link1='true'</code> and <code>\$Link2='true'</code> . Now, you can specify <code>\$Link1</code> and <code>\$Link2</code> . The previous syntax continues to be supported for backward compatibility.

Closed in Release	Change Request ID	Summary
5.6.0	1-8184UP	Partner Link configuration resources did not support global variables. Global Variables are now supported.
5.6.0	1-7WUWI7	In testing mode, transitions from activities could be incorrectly colored when there is more than one outgoing transition. This has been fixed.
5.6.0	1-7VMILV	The error message has been improved when no project is specified in the From field of the Import BPEL dialog.
5.6.0	1-7WUWOY	The Otherwise transition of an If-Then-Else group can be incorrectly colored when selected in test mode. This has been fixed.
5.6.0	1-7VMYZ7	Importing a project can result in a namespace resolution failure (com.tibco.xml.data.primitive.PrefixToNamespaceResolver\$PrefixNotFound). This has been fixed.
5.6.0	1-7V9SE2	Importing a full TIBCO Designer project (instead of just previously exported BPEL resources) causes a Null Pointer Exception. A more descriptive error is now returned.
5.6.0	1-817QXB	A Null Pointer Exception was thrown when a referenced partner link was deleted and recreated. This has been fixed.
5.6.0	1-84MANT	Fixed a bind error in Receive activities.
5.6.0	1-81QY0R	Importing projects with broken references resulted in Null Pointer Exceptions. This has been fixed and more descriptive messages are returned.
5.6.0	1-84M7I7	A cryptic error message was returned when a project that has cyclic dependencies of services exposing local endpoints was validated. This has been fixed to return a more descriptive message.
5.6.0	1-85C1ZF	Orchestration processes without correlations did not have messages delivered. This has been fixed.
5.6.0	1-7WMIO3	The message: "**** BPEL: can't determine message part for process BPEL_Proc/Orchestration Process.orchestration, expression 'root/InParam1_Str'; properties will not be created/verified for it" was returned when exporting a project. This has been fixed to return a more descriptive message.

Known Issues

This section lists known issues for the current release.

Change Request ID	Summary/Workaround
BWBX-407	<p>Summary Creation and running of deployment artifacts (DAA) in the TIBCO ActiveMatrix environment is not supported.</p> <p>Workaround None.</p>
1-7T8HRZ	<p>Summary Validation is not performed to determine that a process variable matches the datatype of the input or output of an activity when the variable is selected for input or output.</p> <p>Workaround Make certain to select a variable of the correct datatype when you choose a user-defined variable as the input or output for an activity.</p>
1-7UUE0Q	<p>Summary Exported orchestration processes lose the value of the Description field for the process.</p> <p>Workaround Descriptions are extensions to the WS-BPEL specification and are therefore not required by a WS-BPEL orchestration process. Reset the value of the field when the process is re-imported into a project.</p>
1-7UUE30	<p>Summary Process variables that reference XSDs inside of WSDL resources lose the reference to the XSD when exported.</p> <p>Workaround Reset the value of the reference when the process is re-imported into a project.</p>
1-7UUEBJ	<p>Summary Although security policies can be selected for local endpoints of services, this is not a valid configuration and results in an error when the project is executed.</p> <p>Workaround Do not attempt to associate security policies with local endpoints.</p>
1-7V2MPU	<p>Summary When orchestration process definitions are incomplete, partnerLinks set on partners can be lost upon export and re-import.</p> <p>Workaround Reset the partnerLink upon re-import, or complete the orchestration process before export.</p>

Change Request ID	Summary/Workaround
1-7V9MGB	<p>Summary Exported orchestration processes lose the value of the Isolated field of groups.</p> <p>Workaround Reset the value of the field when re-importing the process into a project.</p>
1-7VA50N	<p>Summary Exported orchestration processes lose the value of the Iteration Element field on Iteration groups.</p> <p>Workaround Reset the value of the field when the process is re-imported into a project.</p>
1-7VCOHV	<p>Summary The Fault Name field sometimes remains populated when the Reply With Fault is switched between the Quick Configuration and Full Configuration options.</p> <p>Workaround Select the correct value in the Fault Name field once the desired configuration option is chosen.</p>
1-7VCOKS	<p>Summary Exporting orchestration processes with Write To Log activities causes the value of the Suppress Job Info field to be lost.</p> <p>Workaround Reset the value of the field when re-importing the process into a project.</p>
1-7VF63Z	<p>Summary When a WSDL containing a message with parts whose schemas come from namespaces other than the WSDL's, export and re-import of Input Bindings can cause an extra, duplicate entry on the imported binding.</p> <p>Workaround Delete the extra binding entry after import</p>
1-7VFQ9B	<p>Summary Some validation errors for WSDL references appear when re-importing a project. For example:</p> <p>Unresolved reference to element "{http://www.tibco.com/schemas/WSDL/BHTWsdls/Schema.xsd}PersonDetailsInputElementSimpleType".</p> <p>Workaround These warnings are sometimes displayed on the console during import, and the warnings can be ignored.</p>
1-7VFQAL	<p>Summary After deleting a Reply With Fault activity and creating a new one, the Fault picklist can be empty.</p> <p>Workaround Close the project and reopen it.</p>

Change Request ID	Summary/Workaround
1-7VNDNK	<p>Summary Export does not deal correctly with orchestration processes that have multiple links leaving event or error handlers (for example, Catch, On Alarm, On Event).</p> <p>Workaround None.</p>
