

TIBCO Silver[®] Fabric Enabler for TIBCO BusinessEvents[®] Release Notes

*Software Release 3.3.0
June 2017*

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TIBCO Documentation and Support Services

Documentation for this and other TIBCO products is available on the TIBCO Documentation site. This site is updated more frequently than any documentation that might be included with the product. To ensure that you are accessing the latest available help topics, visit:

<https://docs.tibco.com>

Product-Specific Documentation

The following documents for this product can be found on the TIBCO Documentation site:

- *TIBCO Silver® Fabric Enabler for TIBCO BusinessEvents® Installation*
- *TIBCO Silver® Fabric Enabler for TIBCO BusinessEvents® User's Guide*
- *TIBCO Silver® Fabric Enabler for TIBCO BusinessEvents® Release Notes*
- *TIBCO Silver® Fabric Enabler for TIBCO BusinessEvents® Developer's Guide*

How to Contact TIBCO Support

For comments or problems with this manual or the software it addresses, contact TIBCO Support:

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

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

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

<https://support.tibco.com>

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

How to Join TIBCO Community

TIBCO Community is an online destination for TIBCO customers, partners, and resident experts. It is a place to share and access the collective experience of the TIBCO community. TIBCO Community offers forums, blogs, and access to a variety of resources. To register, go to the following web address:

<https://community.tibco.com>

New Features

The following new features have been added to TIBCO Silver Fabric Enabler for TIBCO BusinessEvents.

Release 3.3.0

SSL authentication to connect to the TIBCO® Enterprise Administrator Server: The enabler now supports SSL authentication for connecting to the TIBCO® Enterprise Administrator Server.

Release 3.2.0

Supports Windows 64 bit platform: Windows 64 bit platform was not supported earlier, but it is supported now.

Supports Integration of TIBCO® Enterprise Administrator: TIBCO® Enterprise Administrator provides a centralized administrative interface to manage and monitor multiple TIBCO products deployed in an enterprise. TIBCO Silver Fabric Enabler for TIBCO BusinessEvents now integrates TIBCO Enterprise Administrator.

Supports TIBCO StreamBase Channel: TIBCO StreamBase® is a computing platform designed specifically to meet the performance requirements of high-volume, real-time streaming applications. Using the StreamBase channel, you can send messages back and forth between TIBCO StreamBase and TIBCO BusinessEvents. For example, you can use StreamBase for aggregation and filtering data, and then use BusinessEvents to process context based rules. TIBCO Silver Fabric Enabler for TIBCO BusinessEvents now supports StreamBase channel.

Support deployment using REST client in TIBCO Enterprise Administrator mode: Methods such as deploy, start, stop, or undeploy are supported. Methods such as CopyInstance, DeleteInstance are supported as well

Release 3.1.0

Supports the distribution that has multiple distribution dependencies: ActiveSpace is not packaged with TIBCO® BusinessEvents Distribution for TIBCO Silver® Fabric 5.2.2 since this release. So TIBCO® BusinessEvents Distribution for TIBCO Silver® Fabric 5.2.2 has a dependency on the TIBCO ActiveSpaces® Enterprise Edition distribution.

When using TIBCO® BusinessEvents Distribution for TIBCO Silver® Fabric 5.2.2 with Silver Fabric Enabler for TIBCO BusinessEvents 3.1.0, select the ActiveSpace distribution for BusinessEvents component in a standalone mode. Also, you can select TIBCO Runtime Agent™ and ActiveSpace distributions for BusinessEvents with non-standalone mode.

Supports Application Management: The basic configuration page has new options. Option 'Delete Application Configuration at Shutdown' undeploys and removes all the applications deployed on the TIBCO Logical Machine at component shutdown.

Option 'Do Not Redeploy Existing EAR File at Startup' avoids redeployment of the EAR file whenever the TIBCO Logical Machine restarts.

Supports Process Management: 'Force Kill of BusinessEvents Process by engine Daemon on Shutdown' is added on the basic configuration page. It forcefully kills the BusinessEvents processes at shutdown, if the regular stop is not successful.

Even though BusinessEvents engine is always stopped at shutdown, if Hawk is down, BusinessEvents engine stops abruptly resulting in orphan engines. To avoid such orphan engines, the engine daemon kills beengine forcefully. This is done if the regular stop is not successful.

Also, 'Force Kill of TIBCO Hawk Agent Process by engine Daemon on Shutdown' is added in the hawk agent running condition page. This option is used if the regular stop is not successful.

Supports backward Compatibility for BusinessEvents distribution 5.2.1 and below

Supports upgrade of enabler components: Components created with release 3.0 of Silver Fabric Enabler for TIBCO BusinessEvents can be upgraded to utilize features of the 3.1.0 release.

Release 3.0.0

Supports TIBCO Silver Fabric 5.7.0 TIBCO Silver Fabric Enabler for TIBCO BusinessEvents 3.0.0 supports TIBCO Silver Fabric 5.7.0 implementations.

Supports Hawk MicroAgent plugin Upload You can now upload Hawk MicroAgent Plugins in the Component configuration. It is then copied from the engine work directory to the HawkAgent hma_plugin_dir directory.

Supports TIBCO Runtime Agent 5.9 With TIBCO Runtime Agent 5.9 support, the user can get the latest supported distributions of TIBCO Administrator™, TIBCO EMS, TIBCO Rendezvous®, TIBCO Hawk®, and TIBCO Runtime Agent™ without waiting for an update or the TIBCO Runtime Agent common roll-up compressed archive. Previously, Silver Fabric TIBCO Runtime Agent 5.8 was only bundled as part of TIBCO Runtime Agent common rollup.

Multiple variable providers for Deployment Multiple variable providers can now be used to provide environment variable values during the REST archive deployment.

Continuous Deployment Hot Deployment Support When using REST for continuous deployment, a NoStart field is now supported, to enable updated application archives to be deployed without stopping the running application.

Release 2.5

Supports TIBCO Silver Fabric 5.5.0 TIBCO Silver Fabric Enabler for TIBCO BusinessEvents 2.5.0 supports TIBCO Silver Fabric 5.5.0 implementations.

Supports TIBCO Cloud Bus 1.1.0 TIBCO Silver Fabric Enabler for TIBCO BusinessEvents is ready for iPaaS deployments.

Deploy archives directly to Component endpoints Continuous deployment enables publishing of new and changed application archives to components that are running on TIBCO Silver Fabric engines.

API Supports REST and cURL Script deployment, start, stop and undeployment of components. REST API parameters enable the scripting of continuous deployment of your archives according to your precise engine requirements and specifications.

Supports TIBCO Hawk AMI TIBCO Hawk Application Management Interface (AMI) may be used to monitor TIBCO BusinessEvents deployments.

TIBCO Administrator instances are directly accessible through Virtual Router Every TIBCO Administrator domain instance is directly addressable using Virtual Router using: `http://<BrokerName_IP>:<Port>/<DomainName>`

Supports Global Variable provider Specify application archive deployment variables with a `config.xml` file.

Upgrade components created with TIBCO Silver Fabric Enabler for TIBCO BusinessEvents release version 2.0.0

Release 2.0

Supports TIBCO BusinessEvents® Distribution for TIBCO Silver® Fabric 5.1.1 You can add or remove runtime context variables. Adds more statistical measures to provide for better component management.

Supports upgrade of Components Components created with the 1.0.0 release of Silver Fabric Enabler for TIBCO BusinessEvents can be upgraded to take advantage of new release features.

Dynamically assigns unused HTTP ports to BusinessEvents services When TIBCO BusinessEvents archives are scaling up new TIBCO BusinessEvents instances are assigned new, unused HTTP ports.

Fast TLM Restart Supports fast TLM restart for engines from shared drives. Planned TLM restarts are streamlined so that large numbers of applications with multiple archives each can be restarted more quickly.

Component Scaling Gathers and reports statistics from each TIBCO BusinessEvents service instance published by TIBCO Silver® Fabric to support automated rule-based scaling from component metrics.

Supports use of TIBCO BusinessEvents instantiated as a standalone service or as a TIBCO Administrator dependent component.

Archive Scaling Archive scaling rules can be defined for scaling up and scaling down TIBCO BusinessEvents engines. Publish new service instances of an archive (scale up) or unpublish (scale down) service instances.

Add an Archive to BusinessEvents Components BusinessEvents components can now be updated with an archive at design time so that it is published by the container.

Provides for CDD and PUID files specification TIBCO BusinessEvents projects published by TIBCO Silver Fabric support use of a Cluster Deployment Descriptor (CDD) XML file to configure a project EAR for publishing.

TIBCO BusinessEvents standalone mode supported Run TIBCO BusinessEvents - deploy, start, stop, and undeploy automatically. Supports archive variables set by CDD and PUID files in the EAR. Supports the use of command line interface and collects statistics using JMX.

Supports TIBCO BusinessEvents Extension SDK Supports creation of Enablers for TIBCO BusinessEvents Add-Ons.

Release 1.0

Quick Environment Setup on Multiple Machines You can quickly set up complete TIBCO BusinessEvents environment on multiple machines using the TIBCO Silver Fabric Enabler for TIBCO BusinessEvents. TIBCO administrator can then deploy TIBCO BusinessEvents projects into this environment using traditional tools, such as the TIBCO Administrator user interface or its command-line tools.

Supports all TIBCO Silver Fabric platforms The TIBCO Silver Fabric Enabler for TIBCO BusinessEvents can be installed on any operating system, where supported versions of TIBCO Silver Fabric are installed. Refer to the TIBCO BusinessEvents® Distribution for TIBCO Silver® Fabric Readme for information on the TIBCO Silver® Fabric engine platforms that may be targeted.

Supports TIBCO Enterprise Messaging Service The TIBCO Silver Fabric Enabler for TIBCO BusinessEvents works well with TIBCO EMS whether it is deployed as a dependent TIBCO Silver Fabric Component using TIBCO EMS Enabler or TIBCO EMS is external to the TIBCO BusinessEvents components running on TIBCO Silver Fabric engines.

TIBCO Domain Logical Machines (TLM) enables specification of a unique machine name for individual development environment machines. TLM enables developers to target their deployment work and unit testing to a single Silver Fabric engine.

SSL for TIBCO Administrator supported HTTPS can be used with either self-signed or certificate authority generated certificates.

LDAP Configuration Supported TIBCO Administrator Domain creation supports LDAP integration by UI or uploaded XML file configuration.

Separated Enabler Container and Distributions at edelivery.tibco.com New product distributions may be downloaded and deployed without the requirement of a new enabler.

Support for Fault Tolerance TIBCO Silver Fabric Enabler for TIBCO BusinessEvents ensures that if faults occur for reasons such as hardware failure or network connectivity issues, those deployments can be configured to automatically respond by attempting to restart the processes or by starting new application stacks on engines according to fault tolerance settings.

Automated TIBCO Administrator restart The TIBCO Administrator is restarted automatically based on server status or in case of abnormal conditions without need for a TIBCO Silver Fabric engine restart. Automated Silver Fabric engine restart is also supported.

Automated TIBCO Hawk Agent restart The TIBCO Hawk Agent can be restarted automatically based on server status or in the case of abnormal conditions without a TIBCO Silver Fabric engine restart. Automated Silver Fabric engine restart is also supported.

Changes in Functionality

There are no changes in functionality in version 3.3.0 of Silver Fabric Enabler for TIBCO BusinessEvents.

Deprecated and Removed Features

No features are deprecated or removed in version 3.3.0 of Silver Fabric Enabler for TIBCO BusinessEvents.

The following tables list the features that have been deprecated or removed for version 3.0.0 of Silver Fabric Enabler for TIBCO BusinessEvents.

For deprecated features, if relevant, useful alternatives to the deprecated features are listed. 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.

Removed Features

Affected Component	Description	Deprecated in Release	Removed in Release
All	The TIBCO Silver Fabric Enabler for TIBCO BusinessEvents has been decoupled from the TIBCO Admin Enabler.	3.0.0	3.0.0
All	The use of EMS as a transport is now optional.	3.0.0	3.0.0

Migration and Compatibility

You can upgrade a component created with TIBCO Silver Fabric Enabler for TIBCO BusinessEvents release to 3.3.0. Refer TIBCO Silver® Fabric Enabler for TIBCO BusinessEvents® User's Guide for more information.

Closed Issues

There are no closed issues in this release of TIBCO Silver Fabric Enabler for TIBCO BusinessEvents.

Known Issues

Listed below are the Known Issues for the respective releases of TIBCO Silver Fabric Enabler for TIBCO BusinessEvents.

Version	Key	Summary/Workaround
3.3.0	SFBE-452	<p>Summary: For the REST calls editInstance and copyInstance, the enabler is not able to set the BEHOME parameter to the instance. When machines are added using 'addmachine' python command, the BEHOME parameter is created without any version.</p> <p>Workaround: Set the BEHOME version from the BusinessEvents user interface.</p>
3.2.0	SFBE-276	<p>Summary When using TIBCO BusinessEvents Distribution for TIBCO Silver Fabric release 5.2.0, enterprise archive files and application names with a period in the EAR file, name fail to properly scale up when using fast TLM restart.</p> <p>Workaround Rename the .ear file or the application name to exclude periods.</p>
3.2.0	SFBE-215	<p>Summary When the TIBCO Administrator component is running in FT mode, it can resist changes to LDAP settings. Attempted changes to the TIBCO Administrator component LDAP settings by XML file can fail.</p> <p>Workaround If LDAP values are set in the TIBCO Silver Fabric Administrator Component UI, it can be updated successfully.</p>
3.2.0	SFBE-202	<p>Summary When using a REST client to deploy an application to a published BusinessEvents Component with a variable provider, the application can fail to use proper values.</p> <p>Workaround Restart the BusinessEvents Component and deploy the application from the REST client again.</p>
3.2.0	SFBE-182	<p>Summary Stopping a stack that had TIBCO Administrator and TIBCO BusinessEvents components running, leaves a tibhawkhma process running.</p> <p>Workaround Manually stop the process to complete a clean shutdown.</p>
3.2.0	SFBE-180	<p>Summary When the TIBCO Administrator Component with RV transport is running in FT mode, it can make an extra running instance persist after the upgrade of the BusinessEvents Component from 2.0 to 2.5.</p> <p>Workaround Before upgrading from the Enabler version 2.0.0, upload a zipped application archive that contains an AppFullPath in the properties file. After that, perform the upgrade of the component to the 2.5.0 version.</p>

3.2.0	SFBE-175	<p>Summary When using REST API to deploy a second instance of an enterprise archive (*.ear) file on a second machine, the execution makes the original instance restart.</p> <p>Workaround Because this only happens on the second archive deployment, one could purposefully execute the REST command a second time to deploy the archive to another machine from the start so that the failure point is crossed.</p>
3.2.0	SFBE-172	<p>Summary TIBCO BusinessEvents component run in TRA base mode using the REST API -F Archives option can result in a "status 200" return.</p> <p>Workaround Check to make sure that the archive name specified in the REST statement is correct.</p>
3.2.0	SFBE-130	<p>Summary After an enterprise archive (*.ear) file is removed from a BusinessEvents component, the runtime variables: <ear>_CDD and <ear>_PUID are not removed automatically.</p> <p>Workaround When removing an enterprise archive from a component, manually remove the corresponding Runtime Variable <ear>_CDD and <ear>_PUID entries.</p>
3.2.0	SFBE-68	<p>Summary Restarting a TIBCO Admin component that has two BusinessEvents components both having a shutdown dependency and an ordered shutdown, does not successfully deallocate the BusinessEvents components.</p> <p>Workaround Using the shutdown dependency is not a good practice when multiple components are going to be bundled together.</p>
3.2.0	SFBE-65	<p>Summary If the TIBCO Hawk Agent is killed multiple times and prevented from restarting, a new Hawk Agent is started on a new engine, leaving an application stranded.</p> <p>Workaround The TIBCO Hawk Agent is responsible for closing and cleaning an application properly, so a forced failure of that agent requires a manual cleanup of that failed engine.</p>