# TIBCO Silver® Fabric Enabler for ActiveMatrix® BPM Release Notes

*Software Release 1.4.1*
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### How to Access TIBCO Documentation

Documentation for TIBCO products is available on the TIBCO Product Documentation website, mainly in HTML and PDF formats.

The TIBCO Product Documentation website is updated frequently and is more current than any other documentation included with the product. To access the latest documentation, visit https://docs.tibco.com.

Documentation for TIBCO Silver® Fabric Enabler for ActiveMatrix® BPM is available on the TIBCO Silver Fabric Enabler for ActiveMatrix BPM Product Documentation page.

### Product-Specific Documentation

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

- *TIBCO Silver Fabric Enabler for ActiveMatrix BPM Installation*
- *TIBCO Silver Fabric Enabler for ActiveMatrix BPM User's Guide*
- *TIBCO Silver Fabric Enabler for ActiveMatrix BPM Release Notes*

### How to Contact TIBCO Support

You can contact TIBCO Support in the following ways:

- For an overview of TIBCO Support, visit http://www.tibco.com/services/support.
- For accessing the Support Knowledge Base and getting personalized content about products you are interested in, visit the TIBCO Support portal at https://support.tibco.com.
- For creating a Support case, you must have a valid maintenance or support contract with TIBCO. You also need a user name and password to log in to https://support.tibco.com. If you do not have a user name, you can request one by clicking Register on the website.

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# New Features

The following new features have been added to TIBCO Silver Fabric Enabler for ActiveMatrix BPM:

**Release 1.4.1**

There are no new features in this release of TIBCO Silver Fabric Enabler for ActiveMatrix BPM.

**Release 1.4.0**

**Fault Tolerance and High Availability support to ActiveMatrix BPM systems**

TIBCO ActiveMatrix BPM software now provides active clustering capabilities. Adding a second ActiveMatrix BPM logical node (of type ActiveMatrix BPM) provides high availability and fault tolerance. Setting the configuration for creating ActiveMatrix Administrator server (single or replicated) and distributed ActiveMatrix ActiveMatrix BPM system is now possible. ActiveMatrix Administrator replication or fault tolerance is possible when the ActiveMatrix BPM server uses the **Administrator Only** mode.

Also fault tolerance for ActiveMatrix BPM node is supported among the ActiveMatrix BPM server component when the Silver Fabric Enabler for ActiveMatrix BPM is running in **Administrator and BPM**, or **BPM Only** mode along with the runtime component.

**Supports upgrades from the existing BPM Systems**

A ActiveMatrix BPM system can be a single machine system or a distributed, multi-machine system involving many ActiveMatrix BPM nodes and a separate ActiveMatrix Administrator server. If you want to upgrade ActiveMatrix BPM system, you can do it for each component that is part of that system. To upgrade to TIBCO ActiveMatrix BPM 4.0, several scenarios are supported. Upgrading from previous versions is valid only when the ActiveMatrix BPM system is using a shared drive folder. ( For TIBCO Silver Fabric Enabler for ActiveMatrix BPM 1.3.0, there is no upgrade support but there is a work around to enable it.)

**Supports installation of the REST Binding Type extension**

TIBCO Silver Fabric Enabler for ActiveMatrix BPM now supports installation of the TIBCO ActiveMatrix Binding Type for REST distribution.

**Release 1.3.0**

**Supports Multitenancy**

TIBCO ActiveMatrix Administrator can now manage multiple logically and physically separated tenant application environments. TIBCO ActiveMatrix Administrator can be shared for centralized management of separate TIBCO ActiveMatrix BPM environments. In support of multi-tenancy cases, each TIBCO ActiveMatrix BPM has a distinct application set and a unique environment. Each unique tenant environment can be configured with a separate database, separate EMS, and any number of ActiveMatrix BPM runtime nodes including ActiveMatrix BPM nodes, Work Manager, Process Manager, and Web Components.

**Upgrade Components and Distributions selectively**

Selectively update ActiveMatrix and ActiveMatrix BPM nodes associated with a component without changing other components. Hotfixes and service pack patches may be selected from within the component wizard to update deployed instances. This feature works well for the multitenancy case where one application environment must be updated and while other enviornments need not be updated.

**Supports ActiveMatrix BPM Server Run Modes**

ActiveMatrix Administrator and ActiveMatrix BPM server can now be run independently or together.

To support more complex deployment architectures, such as multitenancy topologies, TIBCO Activematrix BPM server component provides a run mode setting that can run either ActiveMatrix Administrator or ActiveMatrix BPM server separately or together in one, published component.

**ActiveMatrix Administrator supports management of ActiveMatrix products**

The ActiveMatrix BPM server component running in **ActiveMatrix Administrator Only** mode supports management of other ActiveMatrix nodes, applications and services enabling more complex networked topologies.

**Component Wizard Restructured**

Many pages in the component wizard were completely overhauled and restructured to group configurable parameters and properties more logically in groups that are more consistent with TIBCO Configuration Tool. For example, when configuring sub-systems that could potentially use an external database or an external messaging system, a check box specifies whether the user wants to use the same database or messaging system as the administrator. If an external system is preferred, selecting the check box immediately exposes the proper configuration parameters for specifying an external connection on the same page.

**ActiveMatrix Administrator supports use of external databases**

In addition to native HSQL database support, TIBCO ActiveMatrix Administrator running in **Administrator Only** mode now accepts connection profile parameters for use of supported external databases like Oracle 11g or Microsoft SQL server. Components running in **ActiveMatrix Administrator Only** mode can now be configured to use external databases for the following:

- Administrator database
- Database Authentication Realm database (when used database is used as the authentication realm)
- Monitoring Service (MCR) database
- Logging Service database
- Payload Service database

**Supports publishing of TIBCO ActiveMatrix BPM Distribution for TIBCO Silver Fabric release 3.1.0**

Component configurations publish and deploy TIBCO ActiveMatrix BPM release 3.1.0 and later. It supports Content Management Interoperability Services (CMIS) configuration with a new component wizard page when distributions 3.1.0 or later are selected.

**Change Monitoring Service - Metrics Collection Runtime and Logging Service even when Component is running with Deployment Persistence**

Changes to enable Monitoring and Logging services can now be published and run on a component even when the existing runtime component persistent deployment protects the installation configurations from machine failure. The Metrics Collection Runtime (MCR) configuration property is renamed to Deploy Monitoring Service.Deploy Logging Service is now offered.

**Release 1.2.0**

**Supports Hot Fix and Service Pack upgrades to existing ActiveMatrix BPM**

Upgrades and enhancements to TIBCO ActiveMatrix BPM environments running on Silver Fabric Engines can now be patched to overlay the existing distribution with an improved set of files.

**Supports Failover Configuration of moving TIBCO ActiveMatrix BPM from one Engine to another**

Replicate runtime instances of TIBCO ActiveMatrix BPM to new TIBCO hosts on alternate Silver Fabric engines mounting them to the same `TIBCO_HOME`.

**Supports LDAP for ActiveMatrix Administrator**

When using LDAP for the authentication realm a new page of LDAP specific attributes enables the user to configure LDAP parameters for use by the ActiveMatrix Administrator.

**When Deployment Persistence is enabled, change and update select Component configuration parameters published and running on TIBCO Silver Fabric Engines**

When **Deployment Persistence** is enabled and a TIBCO ActiveMatrix Administrator component is published and running, this release now supports changing and updating select component configuration parameters to be published to instances running on engines.

**Supports TIBCO Configuration Tool 1.4.0**

Published TIBCO ActiveMatrix BPM server instances on TIBCO Silver Fabric Engines can now use TIBCO Configuration Tool (TCT) functionality. Refer to the *TIBCO ActiveMatrix BPM Installation* documentation for more information on functionality and use of TCT with TIBCO ActiveMatrix BPM.

**Supports Python, Jython, and JavaScript**

TIBCO Silver Fabric has generic support for adding any JSR-223 compliant script engines that support interfaces that can be invoked and compiled. Support for Jython is included and the JDK includes JavaScript.

Refer to the *TIBCO Silver Fabric Developer's Guide* for enabler and component scripting and methods.

**TIBCO ActiveMatrix Service Grid can now be used to change published TIBCO ActiveMatrix BPM Server and Runtime nodes**

Use TIBCO ActiveMatrix Service Grid to make and propagate changed settings to all published ActiveMatrix BPM Runtime nodes in your enterprise.

# Changes in Functionality

There are no changes in functionality in this release of TIBCO Silver Fabric Enabler for ActiveMatrix BPM.

# Deprecated and Removed Features

No features are deprecated or removed in this version of TIBCO Silver Fabric Enabler for ActiveMatrix BPM.

# Migration and Compatibility

You can migrate components created with earlier versions of TIBCO Silver Fabric Enabler for ActiveMatrix BPM to this version.

Back up your engines and consider timing for when you wish to perform a component restart so brief operational downtime has minimal impact.

1. Using the TIBCO Silver Fabric **Administrator** > **Components** page, identify the TIBCO Silver Fabric Enabler for ActiveMatrix BPM Component you wish to upgrade from any previous version of the enabler. The **Enabler Version** column makes it easy to identify out of date enablers.

   Click the Component Actions menu icon for the component you will update and choose **Change Enabler**. Select the enabler version upgrade target and click **OK**.

2. Click the Component Actions menu icon again, click **Publish Changes**, and then click **OK** to publish the selected component.

3. Switch to the Engines page and those stacks that used the upgraded component will appear in red if they require a component restart.

4. Click the Engine Actions menu icon on the row that needs a component restart. Click **Restart Component**.

Also, refer to *TIBCO Silver® Fabric Enabler for ActiveMatrix® BPM Installation* guide for more information.

# Closed Issues

The table lists closed issues in this version of TIBCO Silver Fabric Enabler for ActiveMatrix BPM.

| Key | Summary |
|-----|---------|
| SFBP-400 | The ActiveMatrix BPM patching process failed when using 4.1.0 HF-005 or later version of ActiveMatrix BPM. |
| SFBP-399 | Upgrade from ActiveMatrix BPM 2.2 to any ActiveMatrix BPM 4.x hotfix, the patching actions were run instead of ActiveMatrix BPM upgrade process. |
| SFBP-397 | In non-multitenant environments, upgrade from ActiveMatrix BPM 2.2 to any ActiveMatrix BPM version environments failed due to a missing file. |
| SFBP-393 | Patching of a ActiveMatrix BPM server running in **ActiveMatrix BPM Only** mode, component failed if it was running in multitenancy mode. <br><br> For Patching an existing multitenant ActiveMatrix BPM system, perform the following steps: <br><br> 1. If the patch is not installed add the ActiveMatrix BPM distribution patch to the ActiveMatrix BPM server 1.4.1 component running in **AMX Administrator Only** mode. If the patch is already installed then go to step 3. <br><br> 2. Apply the patch and then restart the ActiveMatrix BPM server 1.4.1 component running in **AMX Administrator Only** mode. <br><br> 3. Add the ActiveMatrix BPM distribution patch to the ActiveMatrix BPM server 1.4.1 component running in **BPM Only** mode. <br><br> 4. Apply the patch and then restart the ActiveMatrix BPM server 1.4.1 component running in **BPM Only** mode. <br><br> 5. If there are more than one ActiveMatrix BPM server 1.4.1 components running in the **BPM Only** mode, repeat step 3 and 4. <br><br> **NOTE**: ActiveMatrix BPM distribution patches cannot be downgraded once they are installed in the ActiveMatrix BPM server 1.4.1 component running in **AMX Administrator Only** mode. ActiveMatrix BPM runtime components do not require you to install any ActiveMatrix BPM hotfix, as they are automatically upgraded from the ActiveMatrix BPM environment. |

| Key | Summary |
|---|---|
| SFBP-389 | In a multitenant setup, when allocating an ActiveMatrix BPM runtime component, the custom WSS keystores and truststores were not being copied to `${FT_DIRECTORY}/keystores` folder. |
| | When upgrading from existing TIBCO Silver Fabric Enabler for ActiveMatrix BPM 1.4.0 component using any type of SSL enforcement, perform the following steps: |
| | 1. Upgrade existing TIBCO Silver Fabric Enabler for ActiveMatrix BPM 1.4.0 components, ActiveMatrix BPM server and BPM runtime to TIBCO Silver Fabric Enabler for ActiveMatrix BPM 1.4.1, and publish the changes. |
| | 2. Edit any ActiveMatrix BPM server component running in **AMX Administrator Only** mode. Select the option **Basic Configuration** from the component menu. Skip this step and go to step 4, if you do not have a ActiveMatrix BPM server component in **AMX Administrator Only** mode. |
| | 3. If a component is running in **AMX Administrator Only** mode, provide a fault tolerance directory such as: `/opt/mnt/shared`. |
| | **NOTE**: If no fault tolerance directory is provided, then it is not be possible to copy files to the `${FT_DIRECTORY}/keystores` directory. Example: If the folder `/opt/mnt/shared` is the selected as the fault tolerance directory, the enabler creates a new folder `/opt/mnt/shared/keystores`. This is done to so that keystores are accessible to all nodes in the cluster. |
| | 4. Restart the BPM server component in **AMX Administrator Only** mode or the ActiveMatrix BPM Server component running in **Administrator and BPM Server** mode. |
| | 5. Restart the rest of the ActiveMatrix BPM components in the cluster and log in to the **AMX Administrator** webpage. |
| | 6. Click **Infrastructure**, then **Nodes** and select the ActiveMatrix BPM node. Click **Stop** to stop the node. Click tab substitution variables and change the substitution variables to point to the new shared location for keystores and truststore provided in step 3. |
| | **NOTE** : You can adjust your own requirements accordingly. Example: Change the substitution variable *tibco.bpm.client.keystore from /opt/qa/engine/work/ lin64vm348/fabric/bpmkeystore/bpm-keystore.jks* to */opt/mnt/shared/keystores/bmp-keystores.jks.* |
| | 7. Save the changes and start the node that was stopped in step 6. Repeat steps 6 and 7 for all ActiveMatrix BPM nodes in the ActiveMatrix BPM Environment until your requirements are satisfied. |
| SFBP-386 | In a multitenancy setup, if you tried to upgrade ActiveMatrix BPM simultaneously with two or more ActiveMatrix BPM environments, the ActiveMatrix BPM upgrade failed. |
| SFBP-373 | As the polling period is short, upgrade from TIBCO ActiveMatrix BPM distribution for TIBCO Silver Fabric 2.2 to later versions used to fail on slow machines. |
| | To avoid the failure of the upgrade, add the *ADMIN_POLL_PERIOD* runtime context variable to control the poll period of the ActiveMatrix BPM enabler. This enables the AMX Administrator to complete initialization. |

| Key | Summary |
|-----|---------|
| SFBP-372 | When upgrading ActiveMatrix BPM from version 2.2 to version 4.1, a failure occurred during second restart of ActiveMatrix BPM server component. |
| SFBP-371 | For existing TIBCO Silver Fabric Enabler for ActiveMatrix BPM components, the REST Binding Type extensions could not be installed. |
| SFBP-370 | ActiveMatrix Administrator component fails to start up when LDAP SSL configuration is enabled. |
| SFBP-356 | When installing a TIBCO ActiveMatrix BPM distribution for TIBCO Silver Fabric 4.0 environment, business services failed to start and generated a 404 error.<br><br>For distributed system, runtime variables were added to control the value for the file located in the BPM system at: `<CONFIGHOME>/bpm/${bpm_app_name}/configuration/wpextender.properties` or `<FT_DIRECTORY>/bpm/${bpm_app_name}/configuration/wpextender.properties`<br><br>To set value of the `UseHttpRequestContextURL` inside the `wpextends.properties`, add the *BPM_USE_CONTEXT_URL* variable and its required value.<br><br>To set the value of the `formContextURL` add the *OVERRIDE_VR_URL* variable and set the value to `'true'` and add *CUSTOM_VR_URL* variable to indicate the required host.<br><br>The `formContextURL` takes the form of `BPM_USE_CONTEXT_URL/${admin_enterprise_name}/${bpm_app_name}/bpmresources` |
| SFBP-348 | In multitenancy mode using **AMX Administrator Replication**, you could not upgrade TIBCO Silver Fabric Enabler for ActiveMatrix BPM.<br><br>**NOTE**: For the upgrade to work, two ActiveMatrix BPM server components should be running in **AMX Administrator Only** and **BPM Server Only** modes respectively.<br><br>In addition the ActiveMatrix BPM server components and ActiveMatrix BPM runtime components must share the same **Fault Tolerance Directory**. Also make sure that the **AMX Administrator Only** and **BPM Server Only** components have the same *${bpm_app_name}* variable value.<br><br>For upgrade, this value must match on both the components of the ActiveMatrix BPM environment. Once the components are updated with the required ActiveMatrix BPM distribution version, restart the components in the following sequence:<br><br>• Secondary/Replicated AMX Administrator instance<br>• Primary AMX Administrator instance<br>• ActiveMatrix BPM Server component<br>• ActiveMatrix BPM Runtime component(s)<br>• Primary AMX Administrator instance<br>• Secondary/Replicated AMX Administrator instance |

| Key | Summary |
|-----|---------|
| SFBP-337 | When replicating a TIBCO Silver Fabric Enabler for ActiveMatrix BPM 1.4.0 component running in **AMX Administrator Only** mode, the secondary AMX Administrator instance could not connect to the primary instance. |

# Known Issues

The table lists known issues of TIBCO Silver Fabric Enabler for ActiveMatrix BPM.

| Version | Key | Summary/Workaround |
|---------|-----|--------------------|
| 1.4.1 | SF-10341 | **Summary:** When you try to upload LDAP truststore file for TIBCO Silver Fabric Enabler for ActiveMatrix BPM , the page does not get loaded with TIBCO Silver Fabric 5.8.1.<br><br>**Workaround** Add `tomcat.util.http.parser.HttpParser.requestTargetAllow=\|{}`property in `<SF_HOME>/conf/catalina. properties` file, and restart the server. |
| 1.4.1 | TAP-14925 | **Summary**: When you edit HTTP Connection Settings of ActiveMatrix BPM HF-014 administrator server by using TIBCO Configuration Tool (TCT), a null pointer exception is generated.<br><br>**Workaround**: Do not use AMX 3.3.0 HF-014. Use a later version of the hotfix. Alternatively, do not provide a fault tolerance directory in **AMX Administrator Only** mode. |
| 1.4.1 | BPSF-56 | **Summary:** When applying ActiveMatrix BPM hotfix to upgrade individual components, using the **Apply patch** option from the engine menu, the engine sometimes is stuck in the "restarting state."<br><br>**Workaround:** Instead of using the option **Apply patch** from the engine's menu, add the desired BPM hotfix patch to the component and restart the component . |
| 1.4.0 | SFBP-328 | **Summary:** In Pre-Install Summary, the required disk space (1.8MB) that is mentioned is not enough for the enabler.<br><br>**Workaround:** None. |
| 1.4.0 | SFBP-369 | **Summary:** You cannot set the fault tolerance configuration in the component wizard when you upgrade the component from 1.3.0.x.<br><br>**Workaround:** Edit the component, and add the following runtime context variables manually:<br><br>`FT_ENABLED=true`<br><br>`FT_DIRECTORY=<Shared_PATH>` |
| 1.4.0 | SFBP-368 | **Summary:** When you upload trust store from ActiveMatrix Administrator LDAP Authentication Realm Details page, the **LDAP Server is SSL Enabled checkbox** is not selected.<br><br>**Workaround:** Select the checkbox manually, after you upload the trust store. |

| Version | Key | Summary/Workaround |
|---------|-----|--------------------|
| 1.4.0 | SFBP-292 | **Summary:** Possibility to provision a ActiveMatrix BPM component with a pre-created database schema.<br><br>**Workaround:** Manually pre-create the ActiveMatrix BPM schema with an existing user. The ActiveMatrix BPM 2.2 installation then completely skips the step of creating the BPM database and schema. |
| 1.4.0 | SFBP-296 | **Summary:** Database changes does not have any effect on the component when deployment persistence option is enabled.<br><br>**Workaround:** This can be done outside the Silver Fabric framework using ant tasks. Please refer the following documentation:<br><br>• Changing the ActiveMatrix BPM Database Password<br>• Enabling Secure Communication Channels Using Command Line Scripts |
| 1.3.0 | SFBP-278 | **Summary:** After updating TIBCO ActiveMatrix ServiceGrid to 3.3.0.3, moving an ActiveMatrix BPM runtime host from one engine to another might not properly register the change with TIBCO ActiveMatrix Administrator in some cases.<br><br>**Workaround:** Internet host name is correctly defined. Displayed host machine name is not updated. If this is a problem you can restart the component on a different host. |
| 1.3.0 | SFBP-277 | **Summary:** Log patterns for Add Defaults are not defined.<br><br>**Workaround:** Add a `DEFAULT_LOG_PATTERN` runtime variable. |
| 1.3.0 | SFBP-276 | **Summary:** After a component has been published with the wrong driver type, changes to a new driver type do not completely erase a script reference to the old driver causing component failure to start.<br><br>**Workaround:** Delete the old JDBC driver type from the specific runtime context variables. |
| 1.3.0 | SFBP-259 | **Summary:** When more than one ActiveMatrix BPM component is started on a host engine using persistent deployment settings, and a new component is started on a different engine, there is a potential for reuse of the same HTTP ports without incrementing the port number.<br><br>**Workaround:** Set an allocation rule such that some engine instance is used every time, so that there is only one instance per engine. |
| 1.3.0 | SFBP-245 | **Summary:** ActiveMatrix Administrator Log Viewer does not display when the Virtual Router is set to forward HTTP messages.<br><br>**Workaround:** For components where Administrator Log Viewer use is desired, select the **Route Directly to Endpoints** check box for the HTTP Support component feature. Refer to the section on Virtual Router for more information. |

| Version | Key | Summary/Workaround |
|---------|-----|--------------------|
| 1.3.0 | SFBP-241 | **Summary:** When the Virtual Router is set to forward HTTP requests, an ActiveMatrix Administrator Infrastructure page gives an error and fails to load.<br><br>**Workaround:** On the **Add/edit Application Component Features** page, edit the **HTTP Support** and select the **Route Directly to Endpoints** check box to establish a direct connection between ActiveMatrix Administrator and the ActiveMatrix BPM Server.<br><br>Refer to the section on Virtual Router for more information. |
| 1.3.0 | SFBP-221 | **Summary:** Database passwords that start with an exclamation point cause an encoding failure preventing establishment of a connection between ActiveMatrix BPM Server and the database.<br><br>**Workaround:** Change the password to exclude an initial exclamation mark. |
| 1.3.0 | FS-8370 | **Summary:** After successful application of a patch to a TIBCO Silver Fabric Engine, the Engines page displays that row in red and reports that the component needs to be restarted, when it does not need to be restarted.<br><br>**Workaround:** Ignore the highlighted red engine row display after verifying that the patch was deployed properly or restart the improperly highlighted component. |