

TIBCO Silver[®] Fabric Enabler for Adapter for Files (Unix/Win)

Release Notes

*Software Release 3.0.0
June 2016*



Two-Second Advantage[®]

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Preface

TIBCO Silver® Fabric Enabler for Adapter for Files (Unix/Win) is a complementary software component. It allows File Adapter projects to be deployed in cloud environments based on TIBCO Silver Fabric and leveraging Silver Fabric capabilities. This accelerates deployments of File Adapter projects, enforces its industry best practices, and provides elastic optimization of computing resources.

Topics

- [Typographical Conventions, page iv](#)
- [Connecting with TIBCO Resources, page vi](#)




Typographical Conventions

The following typographical conventions are used in this manual.

Table 1 General Typographical Conventions

Convention	Use
<i>TIBCO_HOME</i>	<p>Many TIBCO products must be installed within the same home directory. This directory is referenced in documentation as <i>TIBCO_HOME</i>. The default value of <i>TIBCO_HOME</i> depends on the operating system. For example, on Windows systems, the default value is C:\tibco.</p> <p>Other TIBCO products are installed into an <i>installation environment</i>. Incompatible products and multiple instances of the same product are installed into different installation environments. An environment home directory is referenced in documentation as <i>ENV_HOME</i>. The default value of <i>ENV_HOME</i> depends on the operating system. For example, on Windows systems, the default value is C:\tibco.</p> <p>TIBCO Silver® Fabric Enabler for Adapter for Files (Unix/Win) is installed into a directory that is referenced in documentation as <i>SFFL_HOME</i>. The value of <i>SFFL_HOME</i> depends on the operating system. For example, on Windows systems, the default value is C:\tibco\sffl.</p> <p>TIBCO Silver Fabric is installed into a directory that is referenced in documentation as <i>SILVERFABRIC_HOME</i>. The value of <i>SILVERFABRIC_HOME</i> depends on the operating system. For example, on Windows systems, the default value can be C:\fabric.</p>
<i>ENV_HOME</i>	
<i>SFFL_HOME</i>	
<i>SILVERFABRIC_HOME</i>	
code font	<p>Code font identifies commands, code examples, filenames, pathnames, and output displayed in a command window. For example:</p> <p>Use MyCommand to start the foo process.</p>
bold code font	<p>Bold code font is used in the following ways:</p> <ul style="list-style-type: none">• In procedures, to indicate what a user types. For example: Type admin.• In large code samples, to indicate the parts of the sample that are of particular interest.• In command syntax, to indicate the default parameter for a command. For example, if no parameter is specified, MyCommand is enabled: MyCommand [enable disable]

Table 1 General Typographical Conventions (Cont'd)

Convention	Use
<i>italic font</i>	<p>Italic font is used in the following ways:</p> <ul style="list-style-type: none"> To indicate a document title. For example: See <i>TIBCO Silver ActiveMatrix Enabler for File Adapter Installation</i>. To introduce new terms. For example: A portal page may contain several portlets. <i>Portlets</i> are mini-applications that run in a portal. To indicate a variable in a command or code syntax that you must replace. For example: <i>MyCommand PathName</i>
Key combinations	<p>Key names separated by a plus sign indicate keys pressed simultaneously. For example: Ctrl+C.</p> <p>Key names separated by a comma and space indicate keys pressed one after the other. For example: Esc, Ctrl+Q.</p>
	The note icon indicates information that is of special interest or importance, for example, an additional action required only in certain circumstances.
	The tip icon indicates an idea that could be useful, for example, a way to apply the information provided in the current section to achieve a specific result.
	The warning icon indicates the potential for a damaging situation, for example, data loss or corruption if certain steps are taken or not taken.

Connecting with TIBCO Resources

How to Join TIBCOCommunity

TIBCOCommunity is an online destination for TIBCO customers, partners, and resident experts, a place to share and access the collective experience of the TIBCO community. TIBCOCommunity offers forums, blogs, and access to a variety of resources. To register, go to <http://www.tibcommunity.com>.

How to Access All TIBCO Documentation

All TIBCO product documentation is available from <https://docs.tibco.com>

TIBCO Silver Fabric Enabler for Adapter for Files (Unix/Win) documentation is here:

<https://docs.tibco.com/products/tibco-silver-fabric-enabler-for-adapter-for-files-unix-win-2-5-0>

How to Contact TIBCO Support

For comments or problems with this manual or the software it addresses, please contact TIBCO Support as follows.

- 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.

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Check the TIBCO Product Support web site at <https://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 a username, you can request one. You must have a valid maintenance or support contract to use this site.

Topics

- [New Features, page 2](#)
- [Changes in Functionality, page 6](#)
- [Deprecated and Removed Features, page 7](#)
- [Migration and Compatibility, page 8](#)
- [Closed Issues, page 9](#)
- [Known Issues, page 11](#)

New Features

This section lists the newest features for this release of TIBCO Silver® Fabric Enabler for Adapter for Files (Unix/Win).

Release 3.0

The following describes new features released in 3.0.0:

- **Supports TIBCO Runtime Agent 5.9 and 5.10 along with EMS optional distribution** With TIBCO Runtime Agent 5.9 and 5.10 support, you 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 zip archive.

Previously, for Silver Fabric TIBCO Runtime Agent 5.8 was only bundled as part of TIBCO Runtime Agent common roll-up.

- **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** Option **Force Kill of Adapter for Files Process by Engine Daemon on Shutdown** is added on the basic configuration page. It forcefully kills the Enabler for Adapter for Files component processes at shutdown, if the regular stop is not successful.

Even though Enabler for Adapter for Files component engine is always stopped at shutdown, if Hawk is down, Enabler for Adapter for Files component engine stops abruptly resulting in orphan engines. To avoid such orphan engines, the engine daemon kills `adfilesagent` process 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.

- **Component Upgrade** Supports upgrade of components created with previous versions. You can create Adapter for Files components from different versions.
- **Supports upload of the Hawk MicroAgent plug-in file** Using this enhancement, you can upload Hawk MicroAgent Plugin configuration in the `hma_plugin_dir` file. It enables the Hawk Agent to execute specific Hawk

MicroAgent plugin uploaded in the Adapter for Files Component. This feature is optional.

Release 2.5

The following describes new features released in 2.5.0:

- **Supports TIBCO Silver Fabric 5.5.0** TIBCO Silver® Fabric Enabler for Adapter for Files (Unix/Win) 2.5.0 supports TIBCO Silver Fabric 5.5.0 implementations.
- **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 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.
- **Supports Global Variable provider** - specify application archive deployment variables with a config.xml file.
- **Supports TIBCO Administrator 5.8**
- **Supports Archive Scaling** - Gathers and reports statistics from File Adapter service instances deployed by TIBCO Silver® Fabric to support automated rule-based scaling from archive statistics.

Release 2.0

The following are features that were introduced in the 2.0.0 release.

- **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 ActiveMatrix® Adapter for Files service instance deployed by TIBCO Silver® Fabric to support automated rule-based scaling from component statistics.

Release 1.2

The following are features that were introduced in the 1.2 release.

- **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 File Adapter Engine. In the event of an unplanned machine restart or shutdown event, then the TLM virtualized machine is restarted with all (or none) of the application components started.
- **Enabler bundles TRA grid lib** The TIBCO Silver® Fabric Enabler for Adapter for Files (Unix/Win) is now independent of separately bundled versions of the TRA grid lib. All JAR files needed by the Enabler are provided with the product inside the container.

Release 1.1

The following are features that were introduced in the 1.1 release.

- **Configuration UI for new TIBCO Administrator Application Component improved** TIBCO Silver Fabric Application Components now use an enhanced wizard like User Interface that simplifies and categorizes configuration properties for easier creation of Components.
- **Supports TIBCO Silver Fabric Enabler for ActiveMatrix BusinessWorks 1.1.0** This release of Silver Fabric Enabler for Adapter for Files now bundles the same TRA and Administrator component versions as TIBCO Silver® Fabric Enabler for BusinessWorks™ 1.1.0.

Release 1.0

The following are features introduced in the 1.0 release.

- **Quick File Adapter Environment Setup on Multiple Machines** TIBCO Silver® Fabric Enabler for Adapter for Files (Unix/Win) allows you to quickly set up a cloud computing environment on multiple machines. TIBCO administrator can then deploy File Adapter projects into this environment using traditional tools, such as TIBCO Administrator User Interface or its command-line tools.
- **Quick Application Definition, Setup, and Deployment** TIBCO Silver® Fabric Enabler for Adapter for Files (Unix/Win) allows you to quickly define, set up, and deploy a complete application based on File Adapter projects onto a set of virtual or physical machines. These actions include installation of this software, creation of TIBCO Domain, starting up TIBCO Administrator Server, and deployment of the File Adapter projects on one or multiple machines.
- **File Adapter Statistics Collection** TIBCO Silver® Fabric Enabler for Adapter for Files (Unix/Win) collects data on the number of errors, rates of messages sent and messages received so that Silver Fabric rules may be applied to

increase or decrease the number of engines required to process the workload. Therefore, it provides elasticity and optimization of computing resources.

Changes in Functionality

The following are the changes in functionality in TIBCO Silver® Fabric Enabler for Adapter for Files (Unix/Win).

3.0

TIBCO Silver® Fabric Enabler for Adapter for Files (Unix/Win) does not provide TIBCO Administrator container or enabler. It does not bundle the admin component `gridlib` any more.

You can use TIBCO Silver Fabric Enabler for TIBCO Administrator to create TIBCO Administrator component first and then use TIBCO Silver® Fabric Enabler for Adapter for Files (Unix/Win) to create a component for TIBCO Silver® Fabric Enabler for Adapter for Files (Unix/Win).

Deprecated and Removed Features

No features are deprecated or removed in version 3.0.0 of TIBCO Silver® Fabric Enabler for Adapter for Files (Unix/Win).

Migration and Compatibility

Components created with release 2.5 of TIBCO Silver Fabric Enabler for Adapter for Files (Unix/Windows) can be upgraded to utilize features of the 3.0.0 release.

You can upgrade the product manually to the latest version by setting the following parameter:

`UPGRADE_TO_LATEST_VERSION_MANUALLY = true`

For more information on Migration and Compatibility, refer to *TIBCO Silver Fabric Enabler for Adapter for Files(Unix/Win) User's Guide*.

Closed Issues

The table in this section lists issues that were closed in this releases.

Closed in Release	Key	Summary
3.0.0	SFFL-239	The drop-down to choose EMS optional distribution version was empty when the component was create using Ant scripts.
3.0.0	SFFL-230	TIBCO Adapter for Files component does not start with ldap specified in Database URL for the domain storage like <code>jdbc:oracle:thin:@ldap://Machine:1234/SFLD,cn=OracleCont ext,dc=s omedc</code>
3.0.0	SFFL-229	A Null Pointer Exception was thrown during upgrade. When TIBCO Runtime Agent property <code>start.application.dir</code> in the <code>adfilesagent.tra</code> was empty, the enabler threw a null pointer exception and restarted.
3.0.0	SFFL-228	FAST TLM Restart was not executed because of incorrect upgrade detection.
3.0.0	SFFL-227	TIBCO Adapter for Files component restarts when ActiveSpaces loaded OpenSSL libraries. TIBCO Adapter for Files now uses the latest version of the wrapper provided by the TIBCO Runtime Agent distribution.
3.0.0	SFFL-226	Optimization of the <code>updateActivationInfoProperties</code> Calls to reduce the number of thread used at the broker. The enabler calls <code>updateActivationInfoProperties</code> only if there is a change in the Static Route. Static Route changes include deployment/undeployment or starting/stopping of an archive.
3.0.0	SFFL-224	Excessive number of inactive connections in database. In order to reduce the number of inactive connections, add the runtime variable <code>tibcoadmin.database.expiryInterval</code> and set the value (in milliseconds) corresponding of the cycle interval where inactive connections will be removed. Without adding the runtime variable <code>tibcoadmin.database.expiryInterval</code> , the default value where inactive connections will be removed is 30 minutes (1800000 milliseconds).

Closed in Release	Key	Summary
3.0.0	SFFL-220	Setting a different DB_MIN_CONNECTIONS and DB_MAX_CONNECTIONS values in Silver Fabric Enabler for Adapter for Files than the ones set in Silver Fabric Enabler for TIBCO Administrator has no effect.
3.0.0	SFFL-219	tibhawkhma process is not shutdown when a Adapter for Files or TIBCO Administrator Component is stopped.
3.0.0	SFFL-218	When the Adapter for Files enabler runs the AppManage command, doing a ps of the process shows the password in clear.
3.0.0	SFFL-216	Archive scaling keeps scaling up forever and never scale down.
3.0.0	SFFL-215	Value of the property 'application.start.dir' in application tra file is changed un-correctly when a Adapter for Files component is restarted with FAST TLM restart option.
3.0.0	SFFL-214	Full Stops/Periods "." are replaced with "2E" in appManage command.
3.0.0	SFFL-213	When an application name contains folders, when deploying using REST on 2 different TLM it will generate a wrong application name.
3.0.0	SFFL-211	<p>Empty folders under Application Management in TIBCO administrator GUI gets deleted when adfiles component is shutdown</p> <ul style="list-style-type: none"> • If the runtime variable CLEANUP_EMPTY_DIRECTORY_ON_SHUTDOWN is created and set to false, empty directories will not be deleted on adfiles component shutdown. • If the runtime variable CLEANUP_EMPTY_DIRECTORY_ON_SHUTDOWN is not created or set to true, the current behavior will be the same : Empty directories will be deleted.
3.0.0	SFFL-175	Restarting a component that uses Fast TLM restart share drive gives error "java.lang.InvocationTargetException".
1.2.0	SFFL-84	Adapter component failed to add into the Administrator Component with an EMS based domain. Issue is resolved in the current release.
1.2.0	SFFL-81	Pre-release builds had an issue creating a TIBCO ActiveMatrix Adapter component because of an error parsing XML for the ActiveMatrix Component Adapter. Issue is resolved in the current release.

Known Issues

The table in this section lists known issues in this release.

Key	Summary/Workaround
SFFL-241	<p>Summary Permission is denied when you start Adapter for Files ear file from Solaris sparc and Solaris X86 platforms with TIBCO Runtime Agent distribution 5.10</p> <p>Workaround Set executable for the service instance manually. Then start the application.</p>
SFFL-240	<p>Summary The Required disk space (696KB) displayed in the Pre-Install summary in the UniversalInstaller is not correct.</p> <p>Workaround None</p>
SFFL-238	<p>Summary While creating the Adapter for Files component, the EMS optional distribution should be checked for TRA 5.9 and above.</p> <p>Workaround Check the distribution manually.</p>
SFFL-160	<p>Summary When using REST API to deploy a second instance of an enterprise archive (*.ear) file on a second machine, the execution will make the original service instance restart.</p> <p>Workaround None</p>
SFFL-148	<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 then it can be updated successfully.</p>
SFFL-122	<p>Summary Components created with TIBCO Silver® Fabric Enabler for Adapter for Files (Unix/Win) version 1.2.0 can't be upgraded to use features introduced in release version 2.0.0. The Component type has changed between these two versions and so there is no upgrade path.</p> <p>Workaround Both versions can exist side by side. The previous version is still the old "Adapters Component", but the new version is "Adapter for Files" component. This is an artifact of changing the adapters from one component type for every product to each adapter product having its own component type.</p>

