TIBCO Silver® Fabric Enabler for ActiveMatrix® Service Grid

Release Notes

Software Release 1.3.1
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Two-Second Advantage®

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Contents

Preface v

Related Documentation vi
TIBCO Silver® Fabric Enabler for ActiveMatrix® Service Grid Documentation. vi
Other TIBCO Product Documentation vi
Typographical Conventions vii
TIBCO Product Documentation and Support Services ix
How to Access All TIBCO Documentation ix
How to Contact TIBCO Support ix
How to Join TIBCO Community ix

Release Notes 1

New Features. 2
Release 1.3.1 2
Release 1.3.0 2
Release 1.2.1 3
Release 1.2 3
Release 1.1 3
Release 1.0 5
Changes in Functionality 6
Deprecated and Removed Features 7
Migration and Compatibility 8
Closed Issues 9
Known Issues. 10

Preface

Topics

- Related Documentation, page vi
- Typographical Conventions, page vii
- TIBCO Product Documentation and Support Services, page ix

Related Documentation

This section lists documentation resources you may find useful.

TIBCO Silver® Fabric Enabler for ActiveMatrix® Service Grid Documentation

The following documents form the TIBCO Silver® Fabric Enabler for ActiveMatrix® Service Grid documentation set:

- *TIBCO Silver Fabric ActiveMatrix Service Grid Enabler Installation* Read this manual for instructions on site preparation and installation.
- *TIBCO Silver Fabric ActiveMatrix Service Grid Enabler User's Guide* Read this manual for instructions on using the product.
- *TIBCO Silver Fabric ActiveMatrix Service Grid Enabler Release Notes* Read the release notes for a list of new and changed features. This document also contains lists of known issues and closed issues for this release.

Other TIBCO Product Documentation

TIBCO Silver Fabric Service Grid Enabler empowers TIBCO Silver Fabric private cloud infrastructure to run TIBCO ActiveMatrix Service Grid.

You may find it useful to read documentation related to the following TIBCO products:

- TIBCO Silver™ Fabric
- TIBCO ActiveMatrix® Service Grid
- TIBCO ActiveMatrix BusinessWorks™ Service Engine
- TIBCO ActiveMatrix® Binding Type for Adapters
- TIBCO ActiveMatrix® Binding Type for EJB
- TIBCO ActiveMatrix® Implementation Type for Microsoft CLR
- TIBCO Enterprise Message Service™
- TIBCO Rendezvous®

Typographical Conventions

The following typographical conventions are used in this manual.

Table 1 General Typographical Conventions

Convention	Use
TIBCO_HOME *ENV_HOME* *SFSG_HOME* *SILVERFABRIC_HOME* *tibcoHome*	Many TIBCO products must be installed within the same home directory. This directory is referenced in documentation as *TIBCO_HOME*. The default value of *TIBCO_HOME* depends on the operating system. For example, on Windows systems, the default value is `C:\tibco`. Other TIBCO products are installed into an *installation environment*. Incompatible products and multiple instances of the same product are installed into different installation environments. An environment home directory is referenced in documentation as *ENV_HOME*. The default value of *ENV_HOME* depends on the operating system. For example, on Windows systems, the default *ENV_HOME* value for TIBCO Silver Fabric is `C:\fabric`. TIBCO Silver® Fabric Enabler for ActiveMatrix Service Grid is installed into a directory that is referenced in documentation as *SFSG_HOME*. The value of *SFSG_HOME* depends on the operating system. For example, on Windows systems, the default value is `C:\tibco\sfsg` TIBCO Silver Fabric is installed into a directory that is referenced in documentation as *SILVERFABRIC_HOME*. The value of *SILVERFABRIC_HOME* depends on the operating system. For example, on Windows systems, the default value can be `C:\fabric`. TIBCO Silver Fabric publishes files associated with Components to a specific directory on an Engine instance on either a physical or a virtual machine managed by a Silver Fabric Broker. This Engine directory is referred to as *tibcoHome*.
`code font`	Code font identifies commands, code examples, filenames, pathnames, and output displayed in a command window. For example: Use `MyCommand` to start the foo process.

Table 1 General Typographical Conventions (Cont'd)

Convention	Use
`bold code font`	Bold code font is used in the following ways: • 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]`
italic font	Italic font is used in the following ways: • To indicate a document title. For example: See *TIBCO ActiveMatrix Service Grid Concepts*. • To introduce new terms. For example: A portal page may contain several portlets. *Portlets* are mini-Stacks that run in a portal. • To indicate a variable in a command or code syntax that you must replace. For example: `MyCommand` *PathName*
Key combinations	Key names separated by a plus sign indicate keys pressed simultaneously. For example: Ctrl+C. Key names separated by a comma and space indicate keys pressed one after the other. For example: Esc, Ctrl+Q.
	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.

TIBCO Product Documentation and Support Services

For information about this product, you can read the documentation, contact TIBCO Support, or join TIBCO Community.

How to Access All TIBCO Documentation

Documentation for TIBCO products is available on the TIBCO Product Documentation website mainly in the 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® Service Grid is available on the

https://docs.tibco.com/products/tibco-silver-fabric-enabler-for-active-matrix-service-grid Product Documentation page.

How to Contact TIBCO Support

You can contact TIBCO Support in the following ways:

- For an overview of TIBCO Support, visit https://www.tibco.com/services/support.
- For comments or problems with this manual or the software it addresses, visit the TIBCO Support portal at https://support.tibco.com.

  To access this website, you must have a valid maintenance or support contract with TIBCO. You also need a user name and password to log in. If you do not have a user name, you can request one by clicking **Register** on the website.

How to Join TIBCO Community

TIBCO Community is the official channel for TIBCO customers, partners, and employee subject matter experts to share and access their collective experience. TIBCO Community offers access to Q&A forums, product wikis, and best practices. It also offers access to extensions, adapters, solution accelerators, and tools that extend and enable customers to gain full value from TIBCO products. In addition, users can submit and vote on feature requests from within the TIBCO Ideas Portal. For a free registration, go to https://community.tibco.com.

Release Notes

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 10

New Features

This section lists features added since the last release of this product.

Release 1.3.1

Supports integration of TIBCO Hawk ActiveMatrix Plug-in
TIBCO Hawk ActiveMatrix plug-in provides features to monitor and manage TIBCO ActiveMatrix host and node processes. The plug-in also helps to monitor and manage TIBCO ActiveMatrix services and components.

Release 1.3.0

- **Supports TIBCO ActiveMatrix® Service Grid release 3.3.0.x**

  Supports use of TIBCO ActiveMatrix® Service Grid Distribution for TIBCO Silver® Fabric Release 3.2.0, 3.3.0, and 3.3.0_1.

- **Supports Hot Fix and Service Pack upgrades to existing ActiveMatrix Service Grid environments**

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

- **Supports Failover Configuration - moving TIBCO ActiveMatrix Service Grid from one Engine to another**

  Replicate runtime instances of TIBCO ActiveMatrix Service Grid to new TIBCO Hosts on alternate Silver Fabric engines mounting them to the same TIBCO_HOME.

- **When Deployment Persistence is enabled, supports change and update to select Component configuration parameters already 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.

Release 1.2.1

- **Supports TIBCO ActiveMatrix® Service Grid release 3.3.0**

  Supports use of TIBCO ActiveMatrix® Service Grid Distribution for TIBCO Silver® Fabric Release 3.3.0.

- **Supports integrated use of TIBCO Enterprise Message Service**

  Enables easier configuration and use of TIBCO Enterprise Messaging Service as either a Stack component dependency or as a stand-alone service.

- **Supports TIBCO ActiveMatrix BusinessWorks™ Service Engine Distribution for TIBCO Silver® Fabric release 5.11.0**

Release 1.2

- **Supports Deployment Persistence**

  Deployment Persistence can be enabled for the Activematrix Administrator Component to preserve the state of that AMX Admin Component deployment during restart. Deployment Persistence preserves configuration continuity for the TIBCO ActiveMatrix Administrator Component and the runtime component instances of TIBCO ActiveMatrix Service Grid. The following ActiveMatrix Enterprise Data is preserved:

  — Silver Fabric nodes are restarted on the same physical machine.

  — Deployed Composite Archives, shared resources, and bindings persist.

  — EMS Durable Queues data is preserved, when implemented, and processing from those EMS Durable Queues can resume on restart.

  — Deployment persistence status is passed from the ActiveMatrix Admin configuration to the ActiveMatrix Runtime Components.

  Deployment Persistence ensures that Composite Archives are restarted according to the initial state configured in ActiveMatrix Administrator. The state that is restored is not necessarily identical to the running state that the Composite Archives were in before they were stopped.

- **Supports changing the Deployment Directory**

  When the Stack is published at runtime, the deployment directories may now be defined so that the distribution and the deployment information are put on different drives or in a simplified (shortened) directory path.

Release 1.1

- **Supports TIBCO ActiveMatrix Service Grid 3.2.0**

- **Supports Implementation Type and Binding Type Distributions**

  TIBCO Silver Fabric Enabler for ActiveMatrix Service Grid enables distribution of the following ActiveMatrix IT/BT for use on TIBCO Silver® Fabric nodes.

  — TIBCO ActiveMatrix® Binding Type for EJB

  — TIBCO ActiveMatrix® Binding Type for Adapters

  — TIBCO ActiveMatrix® Implementation Type for Microsoft CLR

  ActiveMatrix user can now deploy archives using these IT/BT.

- **Supports Jython scripts and ActiveMatrix CLI scripts**

  The Component Wizard page allows easy upload, runtime deployment, and execution of Jython scripts and ActiveMatrix CLI script data files. A sample Jython script included in the installation shows a way an ActiveMatrix Archive from TIBCO Silver Fabric.

- **Supports BusinessWorks Service Engine (BWSE) Extension**

  TIBCO ActiveMatrix BusinessWorks Service Engine Distribution for TIBCO Silver Fabric is now registered in ActiveMatrix as an additional Implementation Type so that users may deploy BusinessWorks Service Engine archives.

- **Supports an external EMS instance or EMS deployed by TIBCO Silver Fabric**

  Instances of TIBCO Silver Fabric ActiveMatrix Service Grid Enabler must have TIBCO EMS for messaging and now either an external independent TIBCO EMS or a TIBCO Silver Fabric Enabler for EMS Component can be used as a dependency to support a Service Grid deployment.

Release 1.0

- **Quick ActiveMatrix Service Grid Environment Setup on Multiple Machines** TIBCO Silver Fabric Enabler for ActiveMatrix Service Grid allows you to quickly set up a Service Grid environment on multiple machines. Using the TIBCO ActiveMatrix® Administrator you can then deploy projects into this environment using traditional tools, such as TIBCO ActiveMatrix® Administrator User Interface or its command-line tools.
- **Bootstrap creation of TIBCO Hosts** TIBCO Silver Fabric Enabler for ActiveMatrix Service Grid provides an administrative wizard to bootstrap the configuration of containers for creation of TIBCO hosts.
- **Accelerated ActiveMatrix Service Grid Definition and Setup** TIBCO Silver Fabric Enabler for ActiveMatrix Service Grid allows you to quickly define and set up an TIBCO ActiveMatrix® Administrator and TIBCO Host instances based on Distribution Application Archive (DAA) projects created with TIBCO Business Studio™. These can be quickly deployed onto a set of virtual or physical machines.
- **Leverages Silver Fabric scalability and elasticity with Statistics Collection** Because the TIBCO Silver Fabric Enabler for ActiveMatrix Service Grid is a well-integrated TIBCO Silver Fabric component all the advantages of the Silver Fabric Administration console are supported for scaling up or scaling down deployed instances based on machine statistics (CPU usage, memory, etc) according to your specified Silver Fabric rules. It scales up and down the number of engines available to process the workload providing dynamic elasticity and optimal use of computing resources.

Changes in Functionality

There are no changes in functionality in this version of TIBCO Silver® Fabric Enabler for ActiveMatrix® Service Grid.

Deprecated and Removed Features

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

Migration and Compatibility

There are no migration procedures in version 1.3.1 of TIBCO Silver® Fabric Enabler for ActiveMatrix® Service Grid.

Closed Issues

There are no closed issues in this version of TIBCO Silver® Fabric Enabler for ActiveMatrix® Service Grid.

Known Issues

The table in this section lists known issues in release 1.3.0.

Key	Summary/Workaround
SFSG-385	**Summary** When Deployment Persistence is enabled for Administrator and EMS Components communicating with the TIBCO Host over SSL, restarting the Stack can result in TIBCO Administrator UI failure on Windows platforms. **Workaround** If this error occurs, one can manually stop all processes on the engine and start the stack normally.
SFSG-369	**Summary** The External HTTP Port for a component running with Deployment Persistence enabled cannot be changed with the TIBCO Silver Fabric Component Wizard. **Workaround** None
SFSG-366	**Summary** When a Component is patched (with a hotfix or service pack), unpublished, deleted, and then re-created with the same name, then another application of the patch will fail because the patching mechanism has checks to prevent the patch being applied twice to the same component. **Workaround** Avoid the issue by naming new Components with a unique string. Do not patch, unpublished, deleted and then re-use deleted Component names, or if you must do this then you can delete the TIBCO Environment to remove all records of patching.
SFSG-236	**Summary** Add Defaults button does not work on Component Wizard for AMX SFSG Admin > Add/Remove Log File Patterns page **Workaround** Add Log File pattern values manually.

Key	Summary/Workaround

SFSG-233	**Summary** Failed to start Microsoft CLR application on a Windows platform:
	`com.tibco.clr.clrhost.TException: nCreateDomain: Critical Error: ... ... exceeds windows path length limitation.`
	Workaround A file path limit of 260 characters on Windows platforms causes this failure. Because a CLR component configuration may go beyond that limit watch for symptoms like the following failure that started when a Microsoft CLR composite failed with an error like:
	`java.lang.Exception: com.tibco.clr.clrhost.TException: nCreateDomain: Critical Error: Check logs to verify the CLR started , COM HRESULT = 0x80131500, , desc = Target file 'C:\Engine\work\vmlab01-vm143-0\tibcoConfigHome\tibcohost\Admin-amxadmin-instanceOne\data_3.2.x\nodes\testsysNode\work\cf\2e8cc7e1-5300-4c5c-a66f-f7146587ec80\work\domains\MSFT_97fa9e91-dfc0-4341-874a-be0392c98f75\MSFT_97fa9e91-dfc0-4341-874a-be0392c98f75.config' exceeds windows path length limitation.`
	As appropriate, please use a combination of the following rules to mitigate the issue and bring the file path length under 260 characters:
	• Use an AMX node name that is as short as possible, e.g. N1, N2, N01, … instead of "testDevNode".
	• Use an AMX Admin instance name as short as possible, e.g. "i1" instead of "instanceOne". Change the value of the parameter: `admin_instance_name`, which is available as a runtime context variable when an AMX Admin component is created or edited.
	• Install the DS engine in a shorter directory, e.g. "C:\DS" instead of "C:\Engine"
	• Choose host names with short names if possible.

SFSG-216	**Summary** ActiveMatrix Service Grid Distribution 3.2.0 has a problem that prevents Virtual Router from working with SOAP Binding application. **Workaround** This issue has been resolved in source code and release of AMXSG 3.2.1 should fix it. TAP-10955 Generate WSDL link uses absolute URL instead of relative URL, causing the link to be invalid when configured with a reverse proxy (SilverFabric case)