TIBCO Silver® Fabric Enabler for ActiveMatrix® Service Grid

Release Notes

Software Release 1.3.0
June 2014

Two-Second Advantage®

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Important Information

Contents

Preface

TIBCO Silver® Fabric Enabler for ActiveMatrix® Service Grid is a complementary software component that allows for configuration of TIBCO ActiveMatrix Service Grid Application Components for deployment in cloud environments based on TIBCO Silver Fabric. This enabler accelerates Service Grid project deployment to cloud environments created with TIBCO Silver Fabric.

This suite of TIBCO products provides for implementation of best practices and elastic optimization of computing resources.

Topics

Typographical Conventions

The following typographical conventions are used in this manual.

Table 1 General Typographical Conventions

Convention	Use
TIBCO_HOME *ENV_HOME*	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 value is `C:\tibco`.
`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.
`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. • To introduce new terms For example: A portal page may contain several portlets. *Portlets* are mini-applications that run in a portal. • To indicate a variable in a command or code syntax that you must replace. For example: `MyCommand` *PathName*

Table 1 General Typographical Conventions (Cont'd)

Convention	Use
Key combinations	Key name 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.

Connecting with TIBCO Resources

How to Join TIBCOmmunity

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

How to Access All TIBCO Documentation

After you join TIBCOmmunity, you can access the documentation for all supported product versions here:

http://docs.tibco.com/TibcoDoc

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

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

Release 1.3.0

Release 1.3.0 features the following:

- **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

Release 1.2.1 featured the following:

- **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

The following are the features made available in Release 1.2.0:

- **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

The following are the features made available in Release 1.1.0.

- **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

These features were made available in Release 1.0.0.

- **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 elasiticity 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.

Closed Issues

The following table describes issues that are closed in this release.

Closed in Release	Key	Summary
1.1.0	SFSG-234	**Summary** Cleanup of an external database with SSL mode was not supported. Manual clean-up is no longer required.
1.1.0	SFSG-103	**Summary** Previously the Engine root name could not be allowed to have spaces in it or it prevented the ActiveMatrix Administrator components from properly starting. That problem no longer exists.

Known Issues

The table in this section lists a known issue in this release.

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 can't 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, unpublish, delete 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)