TIBCO ActiveMatrix® Service Grid - Container Edition

Release Notes

Version 1.0.0
December 2020

Contents

TIBCO Documentation and Support Services

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.

Product-Specific Documentation

Documentation for TIBCO ActiveMatrix® Service Grid - Container Edition is available on the TIBCO ActiveMatrix® Service Grid - Container Edition Product Documentation page.

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

- *TIBCO ActiveMatrix® Service Grid - Container Edition Release Notes*

- *TIBCO ActiveMatrix® Service Grid - Container Edition Cloud Deployment Guide*

- *TIBCO ActiveMatrix® Service Grid - Container Edition Administration*

- *TIBCO ActiveMatrix® Service Grid - Container Edition Monitoring*

- *TIBCO ActiveMatrix® Service Grid - Container Edition Quick Start Guide*

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.

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.

New Features

The following features have been added in this release of TIBCO ActiveMatrix® Service Grid - Container Edition.

Support for Docker and Kubernetes Platforms

You can use ActiveMatrix Service Grid - Container Edition to run TIBCO ActiveMatrix applications on Docker and Kubernetes platforms (PaaS). You can deploy, monitor, and manage applications by using a Kubernetes-based orchestration framework. For more information about supported versions and platforms, see the Readme file.

Red Hat OpenShift Container Platform Support

You can run ActiveMatrix Service Grid - Container Edition components on Red Hat OpenShift container platform.

Amazon Elastic Kubernetes Service (Amazon EKS) Platform Support

You can run ActiveMatrix Service Grid - Container Edition components on Amazon Elastic Kubernetes Service (Amazon EKS) platform.

Application Configurator UI

Using the Application Configurator interface, you can configure different entities such as properties, substitution variables, bindings, resource templates, logging configuration, and JVM arguments for an application. You can view the YAML configuration in a browser or can download the configuration as a `.zip` file. This configuration is required to containerize an application. For more information, see *TIBCO ActiveMatrix® Service Grid - Container Edition Administration*.

Application Extractor

Using Application Extractor tool you can migrate applications running in ActiveMatrix Service Grid 3.x to ActiveMatrix Service Grid - Container Edition. You can use the Application Extractor tool to extract the application DAA and the application deployment configuration from ActiveMatrix Service Grid 3.x setup and use the extracted files to containerize the application. For more information, see *TIBCO ActiveMatrix® Service Grid - Container Edition Quick Start Guide*.

Application Monitor

You can monitor applications running on Docker and Kubernetes platforms by using the Application Monitor dashboard. You can monitor these applications by deploying ActiveMatrix Service Grid - Container Edition Application Monitor agent on a supported cloud platform. The dashboard displays data related to Kubernetes (pods, replicas, deployments, and namespaces) and TIBCO ActiveMatrix entities (nodes, environments, and applications) on a single dashboard. For more information, see *TIBCO ActiveMatrix® Service Grid - Container Edition Monitoring*.

TIBCO Hawk® Monitoring

ActiveMatrix Service Grid - Container Edition provides a Hawk microagent to monitor the application by using TIBCO Hawk®. Each ActiveMatrix Service Grid - Container Edition node contains one Hawk microagent. For more information, see *TIBCO ActiveMatrix® Service Grid - Container Edition Monitoring*.

Java 11 Support

ActiveMatrix Service Grid - Container Edition supports Java 11 as a runtime environment.

Changes in Functionality

The following functionality and features have been changed in this release of TIBCO ActiveMatrix® Service Grid - Container Edition 1.0.0.

To provide a container-based runtime for a scalable, faster, and simplified application deployment on cloud platforms, ActiveMatrix Service Grid - Container Edition does not include some of the functionality of TIBCO ActiveMatrix Service Grid. For more information, see "Differences between ActiveMatrix Service Grid 3.x and ActiveMatrix Service Grid - Container Edition" topic in *TIBCO ActiveMatrix® Service Grid - Container Edition Quick Start Guide*.

Migration and Compatibility

For more information about how to migrate your applications from TIBCO ActiveMatrix Service Grid 3.x to ActiveMatrix Service Grid - Container Edition, see the "Migrating ActiveMatrix Service Grid 3.x Applications to ActiveMatrix Service Grid - Container Edition" section in *TIBCO ActiveMatrix® Service Grid - Container Edition Quick Start Guide*.

Known Issues

The following issues exist in this release of TIBCO ActiveMatrix® Service Grid - Container Edition.

Key	Description
KONEX-933	**Summary:** Applications containing the following Resource Templates are not supported in Application Configurator, Application Extractor, and Application Monitor: • Hibernate • Trust Provider • Kerberos Identity Provider • Kerberos Authentication • Siteminder Authentication • Teneo **Workaround:** None
KONEX-1472	**Summary:** Applications containing the following Implementation types are not supported in Application Configurator, Application Extractor, and Application Monitor: • C++ • BusinessWorks Service Engine (BWSE) • .NET • ActiveMatrix BPM Applications containing the following binding types are not supported in Application Configurator, Application Extractor, and Application Monitor: • EJB • Adapters • Virtualization • JMS **Workaround:** None

Key	Description
KONEX-2391	**Summary:** In the Application Configurator, JNDI Connection Configuration resource template, the JNDI provider options Progress SonicMQ, IBM MQ, and Custom (Used for custom JNDI providers) are not supported. **Workaround:** None
KONEX-2817	**Summary:** The stdout logger is not seen in `node.log` though the `NODE_ROOT` Appender is assigned to stdout logger. Applications using stdout logs are printed only in the console and not in the node log file. **Workaround:** None
KONEX-2949	**Summary:** In the Application Monitor, property type for HTTP connector is displayed as **String** instead of **HTTP Connector**. **Workaround:** None
KONEX-3015	**Summary:** An application Image is successfully created even when an invalid credential is specified for external keystore in the application configuration YAML file. **Workaround:** None
KONEX-3283	**Summary:** If the application contains lower version of javax.jms, the container fails to start with the error: `"Missing Constraint: Import-Package: javax.jms; version="[1.1.100,2.0.0)."` **Workaround:** Update the higher range of "javax.jms" to 3.3.0. Recreate the DAA file, recreate the image and then start the container.
KONEX-3312 KONEX-3318	**Summary:** On the Amazon EKS platform with large-scale cluster (1100+ pods), Application Monitor displays incorrect Node count on Application and Environment page when some of the pods stuck in Pending status. **Workaround:** None
KONEX-3323	**Summary:** When the ActiveMatrix Service Grid - Container Edition TEA agent pod is deleted, Application Monitor displays the following error and stops responding: `Managed Object with ID: AMXCE Service Grid : Not Found` **Workaround:** None

Key	Description
KONEX-3325	**Summary:** If you run `build_amxce.sh` script to build an application image concurrently by using any automation job, the temporary folders are created in the `amsgce-runtime-<version>/runtime/application/` folder with the same timestamp and image creation fails. **Workaround:** None
KONEX-3342	**Summary:** On Amazon EKS platform with the large-scale cluster (900 pods), after reconnecting TEA agent, the Environment, Application, AMXCE Node, and Service Discovery pages load the data after delay of three minutes. **Workaround:** None
KONEX-3343	**Summary:** On Amazon EKS platform with the large-scale cluster, after reconnecting the TEA agent, the "Reconnect Successful" message is not displayed. **Workaround:** None
KONEX-3363	**Summary:** JMS Binding is not supported in ActiveMatrix Service Grid - Container Edition1.0.0. Configuring JMS Binding in Application Configurator is not supported. **Workaround:** None

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