



TIBCO ActiveMatrix[®] Service Grid - Container Edition

Release Notes

*Version 1.0.1
December 2021*



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New Features

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

Integrating with Git

You can now integrate Application Configurator with Git and work with repositories directly from Application Configurator UI. You can upload an application DAA, configuration YAML file, and Log4j configuration file from the local Git repository. When the configuration is complete, you can commit the modified files (Configuration YAML file, Log4j configuration, JVM arguments, Keystore file) to the Git repository. For more information, see [Integrating with Git](#).

Advanced Dashboard for Application Monitoring

Application Monitor dashboard enables you to visualize applications, environments, nodes, application hit counts, memory usage by Node, and overall memory usage in the form of bar charts, donut charts, and line graphs. You can drill down the charts to view more details. For more information, see [Viewing Dashboard](#).

Managing Applications by Using Kubernetes Operator

You can now use Kubernetes Operator to view the list of ActiveMatrix® Service Grid - Container Edition applications, nodes, and environments from the `kubect1`. For more information, see [Managing Applications by using Kubernetes Operator](#).

Support for gRPC Transport

To become more cloud native, we have replaced communication between the Application Monitor agent and ActiveMatrix Service Grid - Container Edition applications with gRPC. By default, gRPC is enabled. You can also use JMX instead of gRPC by setting environment variable in the application deployment file.

Stream Logs in Real Time

In the Application Monitor UI, you can now stream AMXCE Nodes, application, and agent logs in real time. For more information, see [Streaming Logs in Real Time](#).

Ability to Change Application Monitor Agent Logger Level from UI

Starting with this release, you can change the Application Monitor agent logger level from Application Monitor UI. For more information, see [Configuring Application Monitor Agent Logger](#).

Ability to Upload .zip File in Application Configurator

You can now upload a .zip file containing Application DAA and configuration files in Application Configurator. You can upload the .zip file downloaded from Application Configurator, or the .zip file extracted from Application Extractor. For more information, see [Uploading Application DAA and Configuration Files](#).

Utility to Encrypt Passwords

You can encrypt the password by using the `password_util` tool located in `amsgce-runtime-<version>\dautil\bin`. Encryption enables you to hide usernames and passwords from other users. For more information, see [Creating an Encrypted Password](#).

Substitution Variable Picker

In the Application Configurator, if the resource template or Service, or Reference binding field supports Substitution Variable, you can now use Substitution Variable picker to select an existing Substitution Variable of the correct type.

Simplified JDBC Driver Custom Feature DAA Extraction from ActiveMatrix Service Grid 3.x

You can now extract JDBC Driver Custom Feature DAA from ActiveMatrix Service Grid 3.x by using Application Extractor. For more information, see [Application Extractor Tool](#).

Jetty Upgrade

In ActiveMatrix Service Grid - Container Edition 1.0.1, the Jetty version is upgraded to 9.4.41.

Updated Java Version

ActiveMatrix® Service Grid - Container Edition 1.0.1 supports Java 11.0.12.

Changes in Functionality

The following functionality and features have been changed in this release of TIBCO ActiveMatrix® Service Grid - Container Edition 1.0.1.

The following shell scripts and batch files from an earlier release are changed to executable files. For more information about the executable files, see *TIBCO ActiveMatrix® Service Grid - Container Edition Cloud Deployment*.

Location	Shell Scripts from version 1.0.0	Executable File (Linux Platform)	Executable File (Windows Platform)
amsge-runtime- <version>/applicationConfigurator /build	build_ amxce.sh	build_amxce	build_ amxce.exe
amsge-runtime- <version>/runtime/build	build_ amxce.sh	build_amxce	build_ amxce.exe
amsge-runtime- <version>/runtime/build/s2i	build_amxce_ s2i.sh	build_ amxce_s2i	build_amxce_ s2i.exe
amsge-runtime- <version>/teaagent/build	build_ amxceteaagent .sh	build_ amxceteaag ent	build_ amxceteaagent. exe
amsge-runtime- <version>/dautil/bin	DAA2Config.sh DAA2Config.bat	DAA2Config	DAA2Config.exe
amsge-runtime- <version>/dautil/bin	checkConfig.s h checkConfig.bat	checkConfig	checkConfig.exe

Change in the Default Base OS Image Version

Earlier, the default base OS image version was Alpine Linux 3.9. Now, it is changed to Alpine Linux 3.12.

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*.

Closed Issues

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

Key	Description
KONEX-3343	On Amazon EKS platform with the large-scale cluster, after reconnecting the TEA agent, the "Reconnect Successful" message is not displayed.
KONEX-3342	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.
KONEX-3325	If you run <code>build_amxce.sh</code> script to build an application image concurrently by using any automation job, the temporary folders are created in the <code>amsfce-runtime-<version>/runtime/application/</code> folder with the same timestamp and image creation fails.
KONEX-3318 KONEX-3312	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.
KONEX-3283	If the application contains lower version of <code>javax.jms</code> , the container fails to start with the error: <div style="background-color: #e6f2ff; padding: 10px; margin-top: 10px;"> <pre>"Missing Constraint: Import-Package: javax.jms; version="[1.1.100,2.0.0)."</pre> </div>
KONEX-3015	An application Image is successfully created even when an invalid credential is specified for external keystore in the application configuration YAML file.
KONEX-2949	In the Application Monitor, property type for HTTP connector is displayed as String instead of HTTP Connector .

Known Issues

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

Key	Description
KONEX-5192	<p>Summary: After deploying Kubernetes operator, if you deploy an ActiveMatrix Service Grid - Container Edition application in the cluster, the Kubernetes operator does not display correct data for amxapp, amxnode, and amxenv resources. If you delete an application, the data is updated for amxapp and amxnode resources but amxenv displays old data.</p> <p>Workaround: Delete the amxce-operator pod and redeploy it again. Check the amxapp, amxenv, and amxnode resources.</p>
KONEX-5183	<p>Summary: ActiveMatrix Service Grid - Container Edition application fails to deploy in OpenShift cluster.</p> <p>Workaround: None</p>
KONEX-5161	<p>Summary: On the Amazon EKS platform, you can not download large size (more than 50 MB) application log from Application Monitor.</p> <p>Workaround: None</p>
KONEX-5154	<p>Summary: The WSS SAML Credential Mapping policy is not supported in ActiveMatrix Service Grid - Container Edition.</p> <p>Workaround: None</p>
KONEX-5003	<p>Summary: When multiple agents are configured, if the Application Monitor tour is started and the same Application Monitor URL is accessed on a new tab, then the Close Demo Mode button is not visible for some time on the new tab. When the button is visible, you can not close the demo mode.</p> <p>If Demo Mode is enabled by using the Try Demo button, the Demo Mode button is not visible on all pages and you cannot close the Demo Mode.</p>

Key	Description
	<p>Workaround: End the tour on the first tab (where the tour started) and refresh the second tab. If the Demo mode is started by using the Try Demo button, restart the agent to see the real data.</p>
KONEX-5001	<p>Summary: In the Application Monitor, Swagger UI is not generating proper response for a REST application with Basic Client Authentication Policy. The following error is displayed:</p> <pre>Failed to fetch.Possible Reasons:CORSNetwork FailureURL scheme must be "http" or "https" for CORS request.</pre> <p>Workaround: None</p>
KONEX-4999	<p>Summary: On the Dashboard page, Prometheus related charts do not display data filtered based on the Agent drop-down list. The data for all the applications (which are using 9998 port) in the cluster is displayed.</p> <p>Workaround: None</p>
KONEX-4937	<p>Summary: On the Amazon EKS platform with the large-scale cluster, after ending tour on the Dashboard page, the dashboard displays dummy data.</p> <p>Workaround: Refresh the page to see the real data.</p>
KONEX-4663	<p>Summary: In Docker setup, in the Application Monitor, image information is not displayed on the Image tab of AMXCE Node.</p> <p>Workaround: None</p>
KONEX-4499	<p>Summary: On Docker setup with Hawk® Container Edition running, the following error occurs in ActiveMatrix Service Grid - Container Edition application container logs:</p> <pre>[hkam thread] [ERROR] com.tibco.hkce.konex - Fail to create status notification manager Caused by: Could not connect to the JMX client endpoint at "service:jmx:jmxmp://localhost:55560":</pre>

Key	Description
	<pre>java.net.ConnectException: Connection refused (Connection refused)</pre> <p>Workaround: None</p>
KONEX-4447	<p>Summary: For ActiveMatrix® Service Grid - Container Edition applications, the following exception thrown in the console logs is not displayed in the container logs.</p> <pre>java.net.SocketTimeoutException: Accept timed out</pre> <p>Workaround: None</p>
KONEX-4152	<p>Summary: In ActiveMatrix Service Grid - Container Edition 1.0.1, Application Extractor DAA fails to deploy in ActiveMatrix Service Grid 3.3.0 Hotfix 23 or later versions with JRE 1.7.</p> <p>Workaround: Update the JRE version of ActiveMatrix Service Grid 3.3.0 Hotfix 23 or later versions to JRE 1.8.</p>
KONEX-4132	<p>Summary: In the Application Configurator Keystore Provider resource template, if in the Keystore Location field a keystore file with the suffix <code>.jks</code> is uploaded, but the keystore Type field is not specified as JKS, then validation error is not displayed on the UI.</p> <p>Workaround: None</p>
KONEX-4070	<p>Summary: The <code>build_amxce</code> executable file does not run with an absolute path from a folder other than <code>amsgce-runtime-<version>/runtime/build</code>.</p> <p>Workaround:</p> <ol style="list-style-type: none"> 1. Update the base location in the <code>build_amxce.yaml</code> file. 2. Specify the <code>build_amxce.yaml</code> file location when running the command by using <code>--config</code> flag.
KONEX-	<p>Summary: If there is a syntax issue in the <code>amsgce-runtime-</code></p>

Key	Description
4058	<p><version>/runtime/build/build_amxce.yaml file, a syntax error is not displayed when running the command.</p> <p>Workaround: None</p>
KONEX-3873	<p>Summary: If you deploy TEA agent with cluster-wide permission in the multiple agent scenario, some applications are registered on two agents.</p> <p>Workaround: You must specify the namespace that agent must monitor by using the <code>amxce_namespace_to_monitor</code> environment variable. You must not deploy the agent with cluster-wide permission in a multiple agent scenario.</p>
KONEX-3383	<p>Summary: On the Amazon EKS platform with the large-scale cluster, after restarting or reconnecting the Application Monitor agent, the last few pods take some time to load in the Application Monitor.</p> <p>Workaround: None</p>
KONEX-3363	<p>Summary: JMS Binding is not supported in ActiveMatrix Service Grid - Container Edition. Configuring JMS Binding in Application Configurator is not supported.</p> <p>Workaround: None</p>
KONEX-3323	<p>Summary: When the ActiveMatrix Service Grid - Container Edition TEA agent pod is deleted, Application Monitor displays the following error and stops responding:</p> <p>Managed Object with ID: AMXCE Service Grid : Not Found</p> <p>Workaround: None</p>
KONEX-3161	<p>Summary: The <code>checkConfig</code> command does not display validation error for invalid JVM argument in the <code>node_jvm_parameters</code> file.</p> <p>Workaround: None</p>
KONEX-2960	<p>Summary: HTTP (Jetty) Server name, version, and SSL Cookie are displayed in the HTTPS response header without a secure flag.</p>

Key	Description
	Workaround: None
KONEX-2817	Summary: The stdout logger is not seen in <code>node.log</code> though the <code>NODE_ROOT</code> Appender is assigned to the stdout logger. Applications using stdout logs are displayed only in the console and not in the node log file. Workaround: None
KONEX-2680	Summary: If you provide a blank value for the SOAP Reference Binding Endpoint URL field, a slash (/) is not automatically added in the field after saving the SOAP Reference Binding. Workaround: None
KONEX-2391	Summary: In the JNDI Connection Configuration resource template of Application Configurator, the JNDI provider options Progress SonicMQ, IBM MQ, and Custom (used for custom JNDI providers) are not supported. Workaround: None
KONEX-2004	Summary: In the Application Monitor, generating WSDL by using the External Endpoint URL is not supported in the Docker setup. Workaround: None
KONEX-1812	Summary: In the Application Configurator, If the uploaded application DAA contains an already configured keystore resource template and the location of the keystore is from your local machine, then JDBC test connection fails with the following error: <pre>Test result: FAILED, Error message: Keystore file: 'my_ keystore.jceks' not found, cannot make JDBC Connection.</pre> Workaround: You must again upload the keystore file in the keystore resource template and try the JDBC test connection again.
KONEX-1518	Summary: In the Application Configurator JDBC resource template, JDBC URL is not validated.

Key	Description
KONEX-1472	<p data-bbox="396 296 654 323">Workaround: None</p> <p data-bbox="396 380 1409 485">Summary: Applications containing the following implementation types are not supported in Application Configurator, Application Extractor, and Application Monitor:</p> <ul data-bbox="444 520 951 722" style="list-style-type: none"><li data-bbox="444 520 516 548">• C++<li data-bbox="444 575 951 602">• BusinessWorks Service Engine (BWSE)<li data-bbox="444 630 532 657">• .NET<li data-bbox="444 684 695 711">• ActiveMatrix BPM <p data-bbox="396 758 1325 827">Applications containing the following binding types are not supported in Application Configurator, Application Extractor, and Application Monitor:</p> <ul data-bbox="444 856 646 1052" style="list-style-type: none"><li data-bbox="444 856 516 884">• EJB<li data-bbox="444 911 581 938">• Adapters<li data-bbox="444 966 646 993">• Virtualization<li data-bbox="444 1020 516 1047">• JMS
KONEX-933	<p data-bbox="396 1171 1373 1283">Summary: Applications containing the following resource templates are not supported in the Application Configurator, Application Extractor, and Application Monitor:</p> <ul data-bbox="444 1312 805 1629" style="list-style-type: none"><li data-bbox="444 1312 597 1339">• Hibernate<li data-bbox="444 1367 651 1394">• Trust Provider<li data-bbox="444 1421 805 1449">• Kerberos Identity Provider<li data-bbox="444 1476 776 1503">• Kerberos Authentication<li data-bbox="444 1530 805 1558">• Siteminder Authentication<li data-bbox="444 1585 548 1612">• Teneo

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Product-Specific Documentation

The following documentation for TIBCO ActiveMatrix® Service Grid - Container Edition is available on the [TIBCO ActiveMatrix® Service Grid - Container Edition Product Documentation](#) page:

- *TIBCO ActiveMatrix® Service Grid - Container Edition Release Notes*
- *TIBCO ActiveMatrix® Service Grid - Container Edition Cloud Deployment*
- *TIBCO ActiveMatrix® Service Grid - Container Edition Quick Start*
- *TIBCO ActiveMatrix® Service Grid - Container Edition Administration*
- *TIBCO ActiveMatrix® Service Grid - Container Edition Monitoring*

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