New Features

The following features have been added in this release of TIBCO DataSynapse GridServer® Manager:

Release Type & Core Support

Long-Term Support (LTS) Support

DataSynapse GridServer® Manager 7.2.0 is a LTS Release. For more information about the DataSynapse GridServer® Manager LTS Support, see TIBCO LTS Policy.

Azul OpenJDK Integration

Azul Java 17.0.12 is now fully supported across all GridServer components.

Note:

Oracle Java 17 is the default Engine JRE for Win64 and Linux64.

- When running the Engine on Azul Java 17 you need to configure specific JVM parameters for the Engine and Driver Software Development Kit (SDK) components. Grid-library support is available for Linux 64-bit and Windows 64-bit.
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The bundled Apache Tomcat server has been upgraded to version 9.0.113.

Platform, Component, & Compiler Upgrades

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DataSynapse GridServer® Manager 7.2.0 is now supported on Rocky Linux 10, Red Hat Enterprise Linux (RHEL) 10, and Windows Server 2025.

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To ensure optimal security and performance, the following third-party dependencies have been upgraded:

- Python 3.10.6 applies to Python Bridge, drivers, and associated examples.
- .NET 8
- OpenSSL 3.0.14

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Integration for modern compilers has been added to leverage the latest features and optimizations for third-party libraries. This includes GCC 11.5 for Linux and VC17 for Windows. For the updated list of supported TIBCO Software, platforms, and third-party software, see the Readme file provided with TIBCO DataSynapse GridServer® Manager.

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You can programmatically retrieve a list of Run-As Credential users, as well as add or delete a Run-As credential user.

Added REST API for Manager Diagnostics Logs

Access a new programmatic method for fetching integration and troubleshooting data, including Manager Logs, Environment configurations, and Task Queues.

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DataSynapse GridServer® Manager 7.2.0 no longer supports 32-bit artifacts. This change impacts Windows (Win32) and Linux platforms.

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The SOAP API functionality has been deprecated and so the support for SOAP API is removed from the Gridserver. The following table lists the removed SOAP APIs and their corresponding REST API replacements: | SOAP API | REST API | | --- | --- | | com.datasynapse.gridserver.admin.BatchAdmin | com.datasynapse.gridserver.rest.BatchAdmin. | | com.datasynapse.gridserver.admin.BrokerAdmin | com.datasynapse.gridserver.rest.BrokerAdmin | | com.datasynapse.gridserver.admin.DriverAdmin | com.datasynapse.gridserver.rest.DriverAdmin | | com.datasynapse.gridserver.admin.EngineAdmin | com.datasynapse.gridserver.rest.EngineAdmin | | com.datasynapse.gridserver.admin.EngineDaemonAdmin | com.datasynapse.gridserver.rest.EngineDaemonAdmin | |

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Migration and Compatibility

The following information provides migration procedures and a compatibility matrix for this release of TIBCO DataSynapse GridServer® Manager:

.NET Runtime Update

In DataSynapse GridServer® Manager 7.2.0, the underlying .NET runtime has been upgraded from .NET 6 to .NET 8. This update affects both the .NET driver and the .NET bridge components. There is no change to the configured serviceType. The value NET5 continues to be used for .NET-based services and remains valid. Internally, it now targets .NET 8. Ensure that your application code, libraries, and dependencies are compatible with .NET 8. Projects must be recompiled to guarantee compatibility and runtime stability. For details on how to migrate from a previous release to the current release, see the section Upgrading GridServer in the TIBCO GridServer® Installation Guide.

Closed Issues

The following issues have been fixed in this release of TIBCO DataSynapse GridServer® Manager:

C++ Specific

KEY	SUMMARY
GS-17793	The OpenSSL library requires an updated version 3.x.

Documentation

KEY	SUMMARY
GS-15287	C++ API documentation is not consistent with the Java API documentation . In the Java API, `Service` and `ServiceInvocationHandler` methods consistently return an `invocation ID`. However, the C++ API documentation used varying terms, including handler id, id, service id, and invocation id (new invocation id)'.

Drivers-All

KEY	SUMMARY
GS-18964	There is an issue where the DSDriver in GridServer 7.1.0 would overwrite the Root Logger level settings of integrated Java applications. The `driver.properties` file often defaulted to a Finest logging level, which caused rapid disk storage consumption. the `DSLogLevelOverWritten` parameter If the GridServer application is integrated within another Java application and you want to prevent the overwriting of Root Logger level

KEY	SUMMARY
	setting with GridServer Log Level setting, then set The `DSLogLevelOverWritten` parameter is introduced to prevent the GridServer Log Level setting from overwriting the Root Logger level setting. When you set this parameter to `false`, the DataSynapse Logger does not change the Root Logger level. When you set the `DSLogLevelOverWritten` parameter to `false`, the DataSynapse Logger does not change the Root Logger level.
GS-16447	A security vulnerability is identified in the driver's internal web server ports. This issue involved an XSS vulnerability in the driver when you access the driver's file sharing port through HTTP.

Engine

KEY	SUMMARY
GS-19271	You must install the required Visual C++ Redistributable libraries as a prerequisite for Engine installation. The legacy Visual C++ 2013 runtime DLLs (`msvcp120.dll`, `msvcr120.dll`) are replaced with Visual C++ 2016 and later runtime DLLs (`msvcp140.dll`, `vcruntime140.dll`).
GS-19242	The Python example of Linux64 failed to run. A Python `ServiceInvocationException` is observed with the message, `Task failed after 3 retries. Last failure: Engine crashed`. This issue occurs when setting up a combo server, configuring the linux64 engine, extracting the linux64 SDK, and running the Python example after exporting `LD_` `LIBRARY_PATH` and PATH variables. To resolve this issue, changes were implemented to set correctly the `ds.PYTH_MODULE_PATH`

KEY	SUMMARY
	environment variable. The `setManagerProperties` method called `addProperties` method now tracks whether the password is already encoded, preventing double encryption and the `Invalid Password` error.
GS-18969	When the primary director is down, the secondary director becomes `Acting as Primary`. In such a case, the secondary director is not able to perform the following operations: - Update Broker configurations (change broker sharing) - Update Engine configuration - Update Engine Daemon configuration - Add a broker to the grid. - Perform Grid Libraries Deployment

Manager

KEY	SUMMARY
GS-18910	A new parameter needs to be added to handle Browser active session timeout.
GS-18844	When a single Driver submits multiple jobs, some jobs containing a large number of tasks could cause delays in the completion of other jobs with a smaller number of tasks. To mitigate this issue, a new configuration parameter, `Equal weight tasks dispatch` is introduced that ensures more equitable task dispatching. If a small job takes longer than the usual time to complete, then setting the `Equal weight tasks dispatch` parameter to `true` prevents delays in the completion of smaller jobs, even when a large job has many tasks. The default value of the `Equal weight tasks dispatch` parameter is `false`.

KEY	SUMMARY
GS-18610	Critical and high-priority Common Vulnerabilities and Exposures (CVEs) detected in the Manager and Engine components are resolved. AngularJS updated version 1.8.3 enhances UI stability and security.
GS-17648	You cannot assign a role to an LDAP user if no email is entered.
GS-17645	When changing a non-SSL server to an SSL server, the Manager (Broker) ID changes when re-configuring the server.

Note:

For changing the non-SSL server to an SSL server, ensure that the Manager ID before and after reconfiguration is the same. You must manually input the old server ID during configuration.

KEY	SUMMARY
GS-16590	In GridServer user interface (UI), if a value of the configuration row differs from the default value, then it highlights the altered configuration row with a distinct color.
GS-16589	In the GridServer user interface (UI), row numbers are displayed across all pages where data is presented in a tabular format.

Operating Systems

KEY	SUMMARY
GS-18794	Apache Tomcat should be upgraded to 9.0.113.
GS-18527	GridServer requires support for Rocky Linux 9.

REST API

KEY	SUMMARY
GS-19415	A new REST API is needed for adding, removing and fetching list of Run-As Credentials.
GS-18618	New REST APIs are required to manage various engine configuration parameters. The new REST APIs are introduced that performs all operations available for the Engine Configuration tab. You can change the engine settings, such as log levels, through an automated interface.
GS-15890	Administrators had to remove manually offline daemon entries. With the new REST API methods, you can now purge offline daemons.

Security

KEY	SUMMARY
GS-18610	Critical and high-priority Common Vulnerabilities and Exposures (CVEs) detected in the Manager and Engine components are resolved. AngularJS updated version 1.8.3 enhances UI stability and security.

Services

KEY	SUMMARY
GS-19013	When you set the `Synchronize Resources to Engines` property to `false` under Admin > System Admin > Manager Configuration > Resource Deployment, the following error is displayed, Grid Library has not been deployed. Manually updating the Grid Libraries on the Engine side did not resolve this issue. The

KEY	SUMMARY
	service would only run successfully if you set the `Synchronize Resources to Engines` property to true. This is resolved. The Manager can now find the Grid Library when the `Synchronize Resources to Engines` property is set to `false`.

Note:

When the `Synchronize Resources to Engines` property is set to `false` , the Grid Library must be placed manually along with the signature file `(.#extracted` file) under `<Engine_directory>/resources/gridlib/` `(default location)` or at the custom Grid Library path. The custom Grid Library path is the location of the Grid Libraries, set through Engine Configuration > Grid Library Path . This should only be set if not using Grid Library Synchronization.

Upgrade and Migration

KEY	SUMMARY
GS-17656	Access to internal JDK packages, which were previously available, is now restricted. So, in the Command-Line Argument in the Engine JVM section under Grid Components > Engine > Engine Configurations use the following parameters: `--add-``exports=java.desktop/com.sun.beans.editors=ALL-``UNNAMED` Select the engine configuration file based on your operating system.

Note:

This parameter is only necessary for Java 17. Do not include it for lower Java versions, such as Java 8 and Java 11.

Known Issues

This section lists known issues in this release of TIBCO DataSynapse GridServer® Manager:

Engine, Engine Daemon

KEY	SUMMARY/WORKAROUND
GS-19447	Summary: When you upgrade to GridServer (GS) 7.2.0, the `gcc34` and `gcc49` compilers are no longer supported. If you upgrade from an earlier GS version where you configured `gcc34` or `gcc49` as the Engine GCC built version, the cached engine configuration may continue to reference an unsupported GCC version.

Workaround: Refresh the cached engine configuration on Linux engines by performing following steps:

1. Open the Engine Configuration UI in GS 7.2.0.
2. Change Engine GCC built version from `gcc83` to `gcc115`, then save the change.
3. Change Engine GCC built version from `gcc115` back to `gcc83`, then save the change again. This action forces the regeneration of the cached configuration. It also updates the `x4088.default` file under `engineDistros`.

KEY	SUMMARY
GS-19250	Summary: GridServer UI and SDK artifacts for .NET 8 are incorrectly named as .NET 5 artifacts.
GS-19127	Summary: Under Windows Authentication mode, GridServer may fail to restart after the LGPL JAR file is applied. HTTP Status `404–Not Found` error occurs on the Web UI. This occurs when the domain configuration is saved prior to the JAR deployment.

KEY	SUMMARY
GS-17640	Summary: When move Engines from GridServer version 6.3.1_hotfix05 to GridServer version 7.1.0, sometimes the win32 and win64 Engines do not move to the GridServer 7.1.0 server. The server running is the SSL server using a self-signed certificate. 1. After the Engines are online on GridServer version 6.3.1, change the Primary Director URL from 631 to 710 in the Engine Configuration. 2. Check after some time (for example, 15 secs), the GridServer version 7.1.0 Primary Director URL reflects in the `engined.log` file and that the Engine is trying to connect to the GridServer version 7.1.0 server. 3. Then copy the GridServer version 7.1.0 certificates to the Engine directory.

Manager

KEY	SUMMARY/WORKAROUND
GS-19285	Summary: There is an issue for the GridServer 7.2.0 startup on RHEL 10 machines due to the missing compatibility libraries for Apache Tomcat Native. To resolve the Grid Server startup issue on RHEL 10, install the `libxcrypt-compat` package. This package provides the necessary compatibility library for the POSIX `crypt()` API. 1. Run the following command in your terminal: `sudo dnf install libxcrypt-compat` 2. After installing the package, start the Grid Server. The server starts successfully.
GS-17691	Summary: Task collection generates an excessive amount of logs at the FINE level.

KEY	SUMMARY/WORKAROUND
GS-17647	Summary: On Windows Engines, the logs `engine-stderrxxx.log` and `engine-stdoutxxx.log` are not generated as expected.
GS-17646	Summary: If you use `DSConfigureOnStartup=true` in the `installation.properties` file to re-configure the server, it causes a Grid Cache problem. Grid Cache is not properly initialized after the server is up. For SSL server - Install SSL server using Silent installation mode - Install SSL server using UI installation mode (before installing an SSL server, a non-SSL server must not be installed)

Note:

For changing the non-SSL server to an SSL server, ensure that the Manager ID before and after reconfiguration is the same. You must manually enter the old server ID during configuration. For the non-SSL server (for converting a Broker to a Director or from Director to a Broker).

- Ensure that the Manager ID before and after reconfiguration is the same. You must manually enter the old server ID during configuration. For an already running server 1. Purge the offline Broker from Grid Components > Broker Admin. 2. Stop the server.

1. Go to `DS_DATA/cache` and delete the `old_offline_broker_` `id.broker` file.
2. Start the server.

Services

KEY	SUMMARY
GS-17423	Summary Service Priority Changed Event is not captured through Kafka Event Streaming.

TIBCO Documentation and Support Services

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

How to Access TIBCO Documentation

Documentation for TIBCO products is available on the Product Documentation website, mainly in HTML and PDF formats. The Product Documentation website is updated frequently and is more current than any other documentation included with the product.

Product-Specific Documentation

Documentation for TIBCO DataSynapse GridServer® Manager is available on the TIBCO DataSynapse GridServer® Manager Product Documentation page.

How to Contact Support for TIBCO Products

You can contact the Support team in the following ways:

- To access the Support Knowledge Base and getting personalized content about products you are interested in, visit our product Support website.
- To create a Support case, you must have a valid maintenance or support contract with a Cloud Software Group entity. You also need a username and password to log in to the product Support website. If you do not have a username, you can request one by clicking Register on the website.
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How to Join TIBCO Community

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Migration and Compatibility

The following information provides migration procedures and a compatibility matrix for this release of TIBCO DataSynapse GridServer® Manager:

.NET Runtime Update

In DataSynapse GridServer® Manager 7.2.0, the underlying .NET runtime has been upgraded from .NET 6 to .NET 8. This update affects both the .NET driver and the .NET bridge components. There is no change to the configured serviceType. The value NET5 continues to be used for .NET-based services and remains valid. Internally, it now targets .NET 8. Ensure that your application code, libraries, and dependencies are compatible with .NET 8. Projects must be recompiled to guarantee compatibility and runtime stability. For details on how to migrate from a previous release to the current release, see the section Upgrading GridServer in the TIBCO GridServer® Installation Guide.

Closed Issues

The following issues have been fixed in this release of TIBCO DataSynapse GridServer® Manager:

C++ Specific

KEY	SUMMARY
GS-17793	The OpenSSL library requires an updated version 3.x.

Documentation

KEY	SUMMARY
GS-15287	C++ API documentation is not consistent with the Java API documentation . In the Java API, `Service` and `ServiceInvocationHandler` methods consistently return an `invocation ID`. However, the C++ API documentation used varying terms, including handler id, id, service id, and invocation id (new invocation id)'.

Drivers-All

KEY	SUMMARY
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	setting with GridServer Log Level setting, then set The `DSLogLevelOverWritten` parameter is introduced to prevent the GridServer Log Level setting from overwriting the Root Logger level setting. When you set this parameter to `false`, the DataSynapse Logger does not change the Root Logger level. When you set the `DSLogLevelOverWritten` parameter to `false`, the DataSynapse Logger does not change the Root Logger level.
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Security

KEY	SUMMARY
GS-18610	Critical and high-priority Common Vulnerabilities and Exposures (CVEs) detected in the Manager and Engine components are resolved. AngularJS updated version 1.8.3 enhances UI stability and security.

Services

KEY	SUMMARY
GS-19013	When you set the `Synchronize Resources to Engines` property to `false` under Admin > System Admin > Manager Configuration > Resource Deployment, the following error is displayed, Grid Library has not been deployed. Manually updating the Grid Libraries on the Engine side did not resolve this issue. The

KEY	SUMMARY
	service would only run successfully if you set the `Synchronize Resources to Engines` property to true. This is resolved. The Manager can now find the Grid Library when the `Synchronize Resources to Engines` property is set to `false`.

Note:

When the `Synchronize Resources to Engines` property is set to `false` , the Grid Library must be placed manually along with the signature file `(.#extracted` file) under `<Engine_directory>/resources/gridlib/` `(default location)` or at the custom Grid Library path. The custom Grid Library path is the location of the Grid Libraries, set through Engine Configuration > Grid Library Path . This should only be set if not using Grid Library Synchronization.

Upgrade and Migration

KEY	SUMMARY
GS-17656	Access to internal JDK packages, which were previously available, is now restricted. So, in the Command-Line Argument in the Engine JVM section under Grid Components > Engine > Engine Configurations use the following parameters: `--add-``exports=java.desktop/com.sun.beans.editors=ALL-``UNNAMED` Select the engine configuration file based on your operating system.

Note:

This parameter is only necessary for Java 17. Do not include it for lower Java versions, such as Java 8 and Java 11.

Known Issues

This section lists known issues in this release of TIBCO DataSynapse GridServer® Manager:

Engine, Engine Daemon

KEY	SUMMARY/WORKAROUND
GS-19447	Summary: When you upgrade to GridServer (GS) 7.2.0, the `gcc34` and `gcc49` compilers are no longer supported. If you upgrade from an earlier GS version where you configured `gcc34` or `gcc49` as the Engine GCC built version, the cached engine configuration may continue to reference an unsupported GCC version.

Workaround: Refresh the cached engine configuration on Linux engines by performing following steps:

1. Open the Engine Configuration UI in GS 7.2.0.
2. Change Engine GCC built version from `gcc83` to `gcc115`, then save the change.
3. Change Engine GCC built version from `gcc115` back to `gcc83`, then save the change again. This action forces the regeneration of the cached configuration. It also updates the `x4088.default` file under `engineDistros`.

KEY	SUMMARY
GS-19250	Summary: GridServer UI and SDK artifacts for .NET 8 are incorrectly named as .NET 5 artifacts.
GS-19127	Summary: Under Windows Authentication mode, GridServer may fail to restart after the LGPL JAR file is applied. HTTP Status `404–Not Found` error occurs on the Web UI. This occurs when the domain configuration is saved prior to the JAR deployment.

KEY	SUMMARY
GS-17640	Summary: When move Engines from GridServer version 6.3.1_hotfix05 to GridServer version 7.1.0, sometimes the win32 and win64 Engines do not move to the GridServer 7.1.0 server. The server running is the SSL server using a self-signed certificate. 1. After the Engines are online on GridServer version 6.3.1, change the Primary Director URL from 631 to 710 in the Engine Configuration. 2. Check after some time (for example, 15 secs), the GridServer version 7.1.0 Primary Director URL reflects in the `engined.log` file and that the Engine is trying to connect to the GridServer version 7.1.0 server. 3. Then copy the GridServer version 7.1.0 certificates to the Engine directory.

Manager

KEY	SUMMARY/WORKAROUND
GS-19285	Summary: There is an issue for the GridServer 7.2.0 startup on RHEL 10 machines due to the missing compatibility libraries for Apache Tomcat Native. To resolve the Grid Server startup issue on RHEL 10, install the `libxcrypt-compat` package. This package provides the necessary compatibility library for the POSIX `crypt()` API. 1. Run the following command in your terminal: `sudo dnf install libxcrypt-compat` 2. After installing the package, start the Grid Server. The server starts successfully.
GS-17691	Summary: Task collection generates an excessive amount of logs at the FINE level.

KEY	SUMMARY/WORKAROUND
GS-17647	Summary: On Windows Engines, the logs `engine-stderrxxx.log` and `engine-stdoutxxx.log` are not generated as expected.
GS-17646	Summary: If you use `DSConfigureOnStartup=true` in the `installation.properties` file to re-configure the server, it causes a Grid Cache problem. Grid Cache is not properly initialized after the server is up. For SSL server - Install SSL server using Silent installation mode - Install SSL server using UI installation mode (before installing an SSL server, a non-SSL server must not be installed)

Note:

For changing the non-SSL server to an SSL server, ensure that the Manager ID before and after reconfiguration is the same. You must manually enter the old server ID during configuration. For the non-SSL server (for converting a Broker to a Director or from Director to a Broker).

- Ensure that the Manager ID before and after reconfiguration is the same. You must manually enter the old server ID during configuration. For an already running server 1. Purge the offline Broker from Grid Components > Broker Admin. 2. Stop the server.

1. Go to `DS_DATA/cache` and delete the `old_offline_broker_` `id.broker` file.
2. Start the server.

Services

KEY	SUMMARY
GS-17423	Summary Service Priority Changed Event is not captured through Kafka Event Streaming.

TIBCO Documentation and Support Services

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

How to Access TIBCO Documentation

Documentation for TIBCO products is available on the Product Documentation website, mainly in HTML and PDF formats. The Product Documentation website is updated frequently and is more current than any other documentation included with the product.

Product-Specific Documentation

Documentation for TIBCO DataSynapse GridServer® Manager is available on the TIBCO DataSynapse GridServer® Manager Product Documentation page.

How to Contact Support for TIBCO Products

You can contact the Support team in the following ways:

- To access the Support Knowledge Base and getting personalized content about products you are interested in, visit our product Support website.
- To create a Support case, you must have a valid maintenance or support contract with a Cloud Software Group entity. You also need a username and password to log in to the product Support website. If you do not have a username, you can request one by clicking Register on the website.
- To submit ideas, suggestions, or feedback for TIBCO products, visit our product Support 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. For a free registration, go to TIBCO Community.

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New Features

The following features have been added in this release of TIBCO DataSynapse GridServer® Manager:

Release Type & Core Support

Long-Term Support (LTS) Support

DataSynapse GridServer® Manager 7.2.0 is a LTS Release. For more information about the DataSynapse GridServer® Manager LTS Support, see TIBCO LTS Policy.

Azul OpenJDK Integration

Azul Java 17.0.12 is now fully supported across all GridServer components.

Note:

Oracle Java 17 is the default Engine JRE for Win64 and Linux64.

- When running the Engine on Azul Java 17 you need to configure specific JVM parameters for the Engine and Driver Software Development Kit (SDK) components. Grid-library support is available for Linux 64-bit and Windows 64-bit.
- No installation or configuration changes are required for the Broker and Manager to support Azul OpenJDK 17.

Apache Tomcat® Upgrade

The bundled Apache Tomcat server has been upgraded to version 9.0.113.

Platform, Component, & Compiler Upgrades

Additional Platform Support

DataSynapse GridServer® Manager 7.2.0 is now supported on Rocky Linux 10, Red Hat Enterprise Linux (RHEL) 10, and Windows Server 2025.

Component Upgrades

To ensure optimal security and performance, the following third-party dependencies have been upgraded:

- Python 3.10.6 applies to Python Bridge, drivers, and associated examples.
- .NET 8
- OpenSSL 3.0.14

New Compiler Support

Integration for modern compilers has been added to leverage the latest features and optimizations for third-party libraries. This includes GCC 11.5 for Linux and VC17 for Windows. For the updated list of supported TIBCO Software, platforms, and third-party software, see the Readme file provided with TIBCO DataSynapse GridServer® Manager.

High Availability Enhancements

Secondary Director Acts as Primary

Failover reliability has been significantly enhanced. In the event of a Primary Director outage, the Secondary Director now automatically assumes the Primary role and can execute the following critical operations:

- Update Broker configurations (including modifying Broker sharing)
- Update Engine and Engine Daemon configurations
- Add new Brokers to the GridServer.
- Perform Grid Libraries Deployment
- Manage the Service Type Registry

Comprehensive REST API Additions

This release vastly expands the programmatic control by introducing new REST APIs that mirror functionalities previously only available through the user interface:

Broker Admin and Configuration

New APIs support all Broker Admin capabilities. A notable addition is the `updateBrokerConfigurationAPI`, enabling programmatic modifications to broker settings. Additionally, a `purge-broker` API has been introduced.

Broker Routing

The administrators can now list, add, delete, or update routing details by performing CRUD (Create, Read, Update, Delete) operations on broker routing properties.

Engine Configuration

You can now programmatically adjust Engine parameters and log levels without interacting with the user interface.

EngineDaemonAdmin

The offline Engine Daemons can be efficiently removed from the Director. This is specifically designed for automated daemon management in cloud environments characterized by frequent provisioning and de-provisioning.

Run-As Credential

You can programmatically retrieve a list of Run-As Credential users, as well as add or delete a Run-As credential user.

Added REST API for Manager Diagnostics Logs

Access a new programmatic method for fetching integration and troubleshooting data, including Manager Logs, Environment configurations, and Task Queues.

Service Logs and Service Admin

You can search service logs for specific service sessions to monitor instances and retrieve the `grid-library.xml` configuration file for designated grid libraries.

Added REST API for Service Test

A new endpoint allows users to trigger Linpack tests directly for the job admin scheduler.

User Interface (UI) Improvements

Altered Configuration Highlighting

A configuration row is highlighted if the value is altered after comparing it with the system's default value, allowing the administrators to identify easily customized settings.

Table Row Numbering

To improve data visibility and ease of navigation, row numbers have been added to tabular pages across the application. This includes, but is not limited to the following UI pages:

- Engine Daemons
- Engine Admin
- Service Types
- User Admin

Changes in Functionality

The following changes in functionality have been made in this release of TIBCO DataSynapse GridServer® Manager:

Windows Engine Deployment

DataSynapse GridServer® Manager 7.2.0 introduces a new installation process for the Windows Engine. This update provides a unified experience that mirrors the existing Linux Engine installation workflow. The Windows Engine installer is delivered as a `.tar.gz` archive. This packaging ensures consistent delivery across different operating systems. You can now manage engine installation and execution on Windows using a built-in command-line interface.

Updated Windows Runtime Dependencies

Updated the application runtime requirements by replacing legacy Visual C++ 2013 libraries (`msvcp120.dll`, `msvcr120.dll`) with Visual C++ 2015-2022 redistributables (`msvcp140.dll`, `vcruntime140.dll`). This change ensures full compatibility and optimized performance across modern environments, including Windows Server 2016 through Windows Server 2025.

Updated Build Tooling Requirements

In DataSynapse GridServer® Manager Software Development Kit (SDK), all the core C++ and .NET components are now bundled with Visual Code 16. However, to maintain developer flexibility, the provided SDK example projects continue to be bundled with Visual Code 15 build configurations. You should ensure that the appropriate redistributables are installed for their target environment.

.NET Runtime Update

DataSynapse GridServer® Manager 7.2.0 introduces an upgrade to the underlying .NET runtime. The platform now supports .NET 8, moving from the previous .NET 6 version. This update affects both the .NET driver and the .NET bridge components. This ensures compatibility with the latest .NET framework. For details on changes in functionality since the last major release of this product, see the section Upgrading GridServer in the TIBCO DataSynapse GridServer® Manager Installation Guide.

Deprecated and Removed Features

The following feature has been deprecated or removed as of this release of TIBCO DataSynapse GridServer® Manager:

Removed Features

Removed Support for 32-bit Artifacts

DataSynapse GridServer® Manager 7.2.0 no longer supports 32-bit artifacts. This change impacts Windows (Win32) and Linux platforms.

Removed Support for SOAP APIs

The SOAP API functionality has been deprecated and so the support for SOAP API is removed from the Gridserver. The following table lists the removed SOAP APIs and their corresponding REST API replacements: | SOAP API | REST API | | --- | --- | | com.datasynapse.gridserver.admin.BatchAdmin | com.datasynapse.gridserver.rest.BatchAdmin. | | com.datasynapse.gridserver.admin.BrokerAdmin | com.datasynapse.gridserver.rest.BrokerAdmin | | com.datasynapse.gridserver.admin.DriverAdmin | com.datasynapse.gridserver.rest.DriverAdmin | | com.datasynapse.gridserver.admin.EngineAdmin | com.datasynapse.gridserver.rest.EngineAdmin | | com.datasynapse.gridserver.admin.EngineDaemonAdmin | com.datasynapse.gridserver.rest.EngineDaemonAdmin | |

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Services

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GS-19013	When you set the `Synchronize Resources to Engines` property to `false` under Admin > System Admin > Manager Configuration > Resource Deployment, the following error is displayed, Grid Library has not been deployed. Manually updating the Grid Libraries on the Engine side did not resolve this issue. The

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	service would only run successfully if you set the `Synchronize Resources to Engines` property to true. This is resolved. The Manager can now find the Grid Library when the `Synchronize Resources to Engines` property is set to `false`.

Note:

When the `Synchronize Resources to Engines` property is set to `false` , the Grid Library must be placed manually along with the signature file `(.#extracted` file) under `<Engine_directory>/resources/gridlib/` `(default location)` or at the custom Grid Library path. The custom Grid Library path is the location of the Grid Libraries, set through Engine Configuration > Grid Library Path . This should only be set if not using Grid Library Synchronization.

Upgrade and Migration

KEY	SUMMARY
GS-17656	Access to internal JDK packages, which were previously available, is now restricted. So, in the Command-Line Argument in the Engine JVM section under Grid Components > Engine > Engine Configurations use the following parameters: `--add-``exports=java.desktop/com.sun.beans.editors=ALL-``UNNAMED` Select the engine configuration file based on your operating system.

Note:

This parameter is only necessary for Java 17. Do not include it for lower Java versions, such as Java 8 and Java 11.

Known Issues

This section lists known issues in this release of TIBCO DataSynapse GridServer® Manager:

Engine, Engine Daemon

KEY	SUMMARY/WORKAROUND
GS-19447	Summary: When you upgrade to GridServer (GS) 7.2.0, the `gcc34` and `gcc49` compilers are no longer supported. If you upgrade from an earlier GS version where you configured `gcc34` or `gcc49` as the Engine GCC built version, the cached engine configuration may continue to reference an unsupported GCC version.

Workaround: Refresh the cached engine configuration on Linux engines by performing following steps:

1. Open the Engine Configuration UI in GS 7.2.0.
2. Change Engine GCC built version from `gcc83` to `gcc115`, then save the change.
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1. Go to `DS_DATA/cache` and delete the `old_offline_broker_` `id.broker` file.
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Services

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New Features

The following features have been added in this release of TIBCO DataSynapse GridServer® Manager:

Release Type & Core Support

Long-Term Support (LTS) Support

DataSynapse GridServer® Manager 7.2.0 is a LTS Release. For more information about the DataSynapse GridServer® Manager LTS Support, see TIBCO LTS Policy.

Azul OpenJDK Integration

Azul Java 17.0.12 is now fully supported across all GridServer components.

Note:

Oracle Java 17 is the default Engine JRE for Win64 and Linux64.

- When running the Engine on Azul Java 17 you need to configure specific JVM parameters for the Engine and Driver Software Development Kit (SDK) components. Grid-library support is available for Linux 64-bit and Windows 64-bit.
- No installation or configuration changes are required for the Broker and Manager to support Azul OpenJDK 17.

Apache Tomcat® Upgrade

The bundled Apache Tomcat server has been upgraded to version 9.0.113.

Platform, Component, & Compiler Upgrades

Additional Platform Support

DataSynapse GridServer® Manager 7.2.0 is now supported on Rocky Linux 10, Red Hat Enterprise Linux (RHEL) 10, and Windows Server 2025.

Component Upgrades

To ensure optimal security and performance, the following third-party dependencies have been upgraded:

- Python 3.10.6 applies to Python Bridge, drivers, and associated examples.
- .NET 8
- OpenSSL 3.0.14

New Compiler Support

Integration for modern compilers has been added to leverage the latest features and optimizations for third-party libraries. This includes GCC 11.5 for Linux and VC17 for Windows. For the updated list of supported TIBCO Software, platforms, and third-party software, see the Readme file provided with TIBCO DataSynapse GridServer® Manager.

High Availability Enhancements

Secondary Director Acts as Primary

Failover reliability has been significantly enhanced. In the event of a Primary Director outage, the Secondary Director now automatically assumes the Primary role and can execute the following critical operations:

- Update Broker configurations (including modifying Broker sharing)
- Update Engine and Engine Daemon configurations
- Add new Brokers to the GridServer.
- Perform Grid Libraries Deployment
- Manage the Service Type Registry

Comprehensive REST API Additions

This release vastly expands the programmatic control by introducing new REST APIs that mirror functionalities previously only available through the user interface:

Broker Admin and Configuration

New APIs support all Broker Admin capabilities. A notable addition is the `updateBrokerConfigurationAPI`, enabling programmatic modifications to broker settings. Additionally, a `purge-broker` API has been introduced.

Broker Routing

The administrators can now list, add, delete, or update routing details by performing CRUD (Create, Read, Update, Delete) operations on broker routing properties.

Engine Configuration

You can now programmatically adjust Engine parameters and log levels without interacting with the user interface.

EngineDaemonAdmin

The offline Engine Daemons can be efficiently removed from the Director. This is specifically designed for automated daemon management in cloud environments characterized by frequent provisioning and de-provisioning.

Run-As Credential

You can programmatically retrieve a list of Run-As Credential users, as well as add or delete a Run-As credential user.

Added REST API for Manager Diagnostics Logs

Access a new programmatic method for fetching integration and troubleshooting data, including Manager Logs, Environment configurations, and Task Queues.

Service Logs and Service Admin

You can search service logs for specific service sessions to monitor instances and retrieve the `grid-library.xml` configuration file for designated grid libraries.

Added REST API for Service Test

A new endpoint allows users to trigger Linpack tests directly for the job admin scheduler.

User Interface (UI) Improvements

Altered Configuration Highlighting

A configuration row is highlighted if the value is altered after comparing it with the system's default value, allowing the administrators to identify easily customized settings.

Table Row Numbering

To improve data visibility and ease of navigation, row numbers have been added to tabular pages across the application. This includes, but is not limited to the following UI pages:

- Engine Daemons
- Engine Admin
- Service Types
- User Admin

Changes in Functionality

The following changes in functionality have been made in this release of TIBCO DataSynapse GridServer® Manager:

Windows Engine Deployment

DataSynapse GridServer® Manager 7.2.0 introduces a new installation process for the Windows Engine. This update provides a unified experience that mirrors the existing Linux Engine installation workflow. The Windows Engine installer is delivered as a `.tar.gz` archive. This packaging ensures consistent delivery across different operating systems. You can now manage engine installation and execution on Windows using a built-in command-line interface.

Updated Windows Runtime Dependencies

Updated the application runtime requirements by replacing legacy Visual C++ 2013 libraries (`msvcp120.dll`, `msvcr120.dll`) with Visual C++ 2015-2022 redistributables (`msvcp140.dll`, `vcruntime140.dll`). This change ensures full compatibility and optimized performance across modern environments, including Windows Server 2016 through Windows Server 2025.

Updated Build Tooling Requirements

In DataSynapse GridServer® Manager Software Development Kit (SDK), all the core C++ and .NET components are now bundled with Visual Code 16. However, to maintain developer flexibility, the provided SDK example projects continue to be bundled with Visual Code 15 build configurations. You should ensure that the appropriate redistributables are installed for their target environment.

.NET Runtime Update

DataSynapse GridServer® Manager 7.2.0 introduces an upgrade to the underlying .NET runtime. The platform now supports .NET 8, moving from the previous .NET 6 version. This update affects both the .NET driver and the .NET bridge components. This ensures compatibility with the latest .NET framework. For details on changes in functionality since the last major release of this product, see the section Upgrading GridServer in the TIBCO DataSynapse GridServer® Manager Installation Guide.

Deprecated and Removed Features

The following feature has been deprecated or removed as of this release of TIBCO DataSynapse GridServer® Manager:

Removed Features

Removed Support for 32-bit Artifacts

DataSynapse GridServer® Manager 7.2.0 no longer supports 32-bit artifacts. This change impacts Windows (Win32) and Linux platforms.

Removed Support for SOAP APIs

The SOAP API functionality has been deprecated and so the support for SOAP API is removed from the Gridserver. The following table lists the removed SOAP APIs and their corresponding REST API replacements: | SOAP API | REST API | | --- | --- | | com.datasynapse.gridserver.admin.BatchAdmin | com.datasynapse.gridserver.rest.BatchAdmin. | | com.datasynapse.gridserver.admin.BrokerAdmin | com.datasynapse.gridserver.rest.BrokerAdmin | | com.datasynapse.gridserver.admin.DriverAdmin | com.datasynapse.gridserver.rest.DriverAdmin | | com.datasynapse.gridserver.admin.EngineAdmin | com.datasynapse.gridserver.rest.EngineAdmin | | com.datasynapse.gridserver.admin.EngineDaemonAdmin | com.datasynapse.gridserver.rest.EngineDaemonAdmin | |

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com.datasynapse.webservices.gridserver.admin.DriverAdmin |
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com.datasynapse.webservices.gridserver.admin.ServiceAdmin |
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Migration and Compatibility

The following information provides migration procedures and a compatibility matrix for this release of TIBCO DataSynapse GridServer® Manager:

.NET Runtime Update

In DataSynapse GridServer® Manager 7.2.0, the underlying .NET runtime has been upgraded from .NET 6 to .NET 8. This update affects both the .NET driver and the .NET bridge components. There is no change to the configured serviceType. The value NET5 continues to be used for .NET-based services and remains valid. Internally, it now targets .NET 8. Ensure that your application code, libraries, and dependencies are compatible with .NET 8. Projects must be recompiled to guarantee compatibility and runtime stability. For details on how to migrate from a previous release to the current release, see the section Upgrading GridServer in the TIBCO GridServer® Installation Guide.

Closed Issues

The following issues have been fixed in this release of TIBCO DataSynapse GridServer® Manager:

C++ Specific

KEY	SUMMARY
GS-17793	The OpenSSL library requires an updated version 3.x.

Documentation

KEY	SUMMARY
GS-15287	C++ API documentation is not consistent with the Java API documentation . In the Java API, `Service` and `ServiceInvocationHandler` methods consistently return an `invocation ID`. However, the C++ API documentation used varying terms, including handler id, id, service id, and invocation id (new invocation id)'.

Drivers-All

KEY	SUMMARY
GS-18964	There is an issue where the DSDriver in GridServer 7.1.0 would overwrite the Root Logger level settings of integrated Java applications. The `driver.properties` file often defaulted to a Finest logging level, which caused rapid disk storage consumption. the `DSLogLevelOverWritten` parameter If the GridServer application is integrated within another Java application and you want to prevent the overwriting of Root Logger level

KEY	SUMMARY
	setting with GridServer Log Level setting, then set The `DSLogLevelOverWritten` parameter is introduced to prevent the GridServer Log Level setting from overwriting the Root Logger level setting. When you set this parameter to `false`, the DataSynapse Logger does not change the Root Logger level. When you set the `DSLogLevelOverWritten` parameter to `false`, the DataSynapse Logger does not change the Root Logger level.
GS-16447	A security vulnerability is identified in the driver's internal web server ports. This issue involved an XSS vulnerability in the driver when you access the driver's file sharing port through HTTP.

Engine

KEY	SUMMARY
GS-19271	You must install the required Visual C++ Redistributable libraries as a prerequisite for Engine installation. The legacy Visual C++ 2013 runtime DLLs (`msvcp120.dll`, `msvcr120.dll`) are replaced with Visual C++ 2016 and later runtime DLLs (`msvcp140.dll`, `vcruntime140.dll`).
GS-19242	The Python example of Linux64 failed to run. A Python `ServiceInvocationException` is observed with the message, `Task failed after 3 retries. Last failure: Engine crashed`. This issue occurs when setting up a combo server, configuring the linux64 engine, extracting the linux64 SDK, and running the Python example after exporting `LD_` `LIBRARY_PATH` and PATH variables. To resolve this issue, changes were implemented to set correctly the `ds.PYTH_MODULE_PATH`

KEY	SUMMARY
	environment variable. The `setManagerProperties` method called `addProperties` method now tracks whether the password is already encoded, preventing double encryption and the `Invalid Password` error.
GS-18969	When the primary director is down, the secondary director becomes `Acting as Primary`. In such a case, the secondary director is not able to perform the following operations: - Update Broker configurations (change broker sharing) - Update Engine configuration - Update Engine Daemon configuration - Add a broker to the grid. - Perform Grid Libraries Deployment

Manager

KEY	SUMMARY
GS-18910	A new parameter needs to be added to handle Browser active session timeout.
GS-18844	When a single Driver submits multiple jobs, some jobs containing a large number of tasks could cause delays in the completion of other jobs with a smaller number of tasks. To mitigate this issue, a new configuration parameter, `Equal weight tasks dispatch` is introduced that ensures more equitable task dispatching. If a small job takes longer than the usual time to complete, then setting the `Equal weight tasks dispatch` parameter to `true` prevents delays in the completion of smaller jobs, even when a large job has many tasks. The default value of the `Equal weight tasks dispatch` parameter is `false`.

KEY	SUMMARY
GS-18610	Critical and high-priority Common Vulnerabilities and Exposures (CVEs) detected in the Manager and Engine components are resolved. AngularJS updated version 1.8.3 enhances UI stability and security.
GS-17648	You cannot assign a role to an LDAP user if no email is entered.
GS-17645	When changing a non-SSL server to an SSL server, the Manager (Broker) ID changes when re-configuring the server.

Note:

For changing the non-SSL server to an SSL server, ensure that the Manager ID before and after reconfiguration is the same. You must manually input the old server ID during configuration.

KEY	SUMMARY
GS-16590	In GridServer user interface (UI), if a value of the configuration row differs from the default value, then it highlights the altered configuration row with a distinct color.
GS-16589	In the GridServer user interface (UI), row numbers are displayed across all pages where data is presented in a tabular format.

Operating Systems

KEY	SUMMARY
GS-18794	Apache Tomcat should be upgraded to 9.0.113.
GS-18527	GridServer requires support for Rocky Linux 9.

REST API

KEY	SUMMARY
GS-19415	A new REST API is needed for adding, removing and fetching list of Run-As Credentials.
GS-18618	New REST APIs are required to manage various engine configuration parameters. The new REST APIs are introduced that performs all operations available for the Engine Configuration tab. You can change the engine settings, such as log levels, through an automated interface.
GS-15890	Administrators had to remove manually offline daemon entries. With the new REST API methods, you can now purge offline daemons.

Security

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Services

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KEY	SUMMARY
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New Features

The following features have been added in this release of TIBCO DataSynapse GridServer® Manager:

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Azul Java 17.0.12 is now fully supported across all GridServer components.

Note:

Oracle Java 17 is the default Engine JRE for Win64 and Linux64.

- When running the Engine on Azul Java 17 you need to configure specific JVM parameters for the Engine and Driver Software Development Kit (SDK) components. Grid-library support is available for Linux 64-bit and Windows 64-bit.
- No installation or configuration changes are required for the Broker and Manager to support Azul OpenJDK 17.

Apache Tomcat® Upgrade

The bundled Apache Tomcat server has been upgraded to version 9.0.113.

Platform, Component, & Compiler Upgrades

Additional Platform Support

DataSynapse GridServer® Manager 7.2.0 is now supported on Rocky Linux 10, Red Hat Enterprise Linux (RHEL) 10, and Windows Server 2025.

Component Upgrades

To ensure optimal security and performance, the following third-party dependencies have been upgraded:

- Python 3.10.6 applies to Python Bridge, drivers, and associated examples.
- .NET 8
- OpenSSL 3.0.14

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Integration for modern compilers has been added to leverage the latest features and optimizations for third-party libraries. This includes GCC 11.5 for Linux and VC17 for Windows. For the updated list of supported TIBCO Software, platforms, and third-party software, see the Readme file provided with TIBCO DataSynapse GridServer® Manager.

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The administrators can now list, add, delete, or update routing details by performing CRUD (Create, Read, Update, Delete) operations on broker routing properties.

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Run-As Credential

You can programmatically retrieve a list of Run-As Credential users, as well as add or delete a Run-As credential user.

Added REST API for Manager Diagnostics Logs

Access a new programmatic method for fetching integration and troubleshooting data, including Manager Logs, Environment configurations, and Task Queues.

Service Logs and Service Admin

You can search service logs for specific service sessions to monitor instances and retrieve the `grid-library.xml` configuration file for designated grid libraries.

Added REST API for Service Test

A new endpoint allows users to trigger Linpack tests directly for the job admin scheduler.

User Interface (UI) Improvements

Altered Configuration Highlighting

A configuration row is highlighted if the value is altered after comparing it with the system's default value, allowing the administrators to identify easily customized settings.

Table Row Numbering

To improve data visibility and ease of navigation, row numbers have been added to tabular pages across the application. This includes, but is not limited to the following UI pages:

- Engine Daemons
- Engine Admin
- Service Types
- User Admin

Changes in Functionality

The following changes in functionality have been made in this release of TIBCO DataSynapse GridServer® Manager:

Windows Engine Deployment

DataSynapse GridServer® Manager 7.2.0 introduces a new installation process for the Windows Engine. This update provides a unified experience that mirrors the existing Linux Engine installation workflow. The Windows Engine installer is delivered as a `.tar.gz` archive. This packaging ensures consistent delivery across different operating systems. You can now manage engine installation and execution on Windows using a built-in command-line interface.

Updated Windows Runtime Dependencies

Updated the application runtime requirements by replacing legacy Visual C++ 2013 libraries (`msvcp120.dll`, `msvcr120.dll`) with Visual C++ 2015-2022 redistributables (`msvcp140.dll`, `vcruntime140.dll`). This change ensures full compatibility and optimized performance across modern environments, including Windows Server 2016 through Windows Server 2025.

Updated Build Tooling Requirements

In DataSynapse GridServer® Manager Software Development Kit (SDK), all the core C++ and .NET components are now bundled with Visual Code 16. However, to maintain developer flexibility, the provided SDK example projects continue to be bundled with Visual Code 15 build configurations. You should ensure that the appropriate redistributables are installed for their target environment.

.NET Runtime Update

DataSynapse GridServer® Manager 7.2.0 introduces an upgrade to the underlying .NET runtime. The platform now supports .NET 8, moving from the previous .NET 6 version. This update affects both the .NET driver and the .NET bridge components. This ensures compatibility with the latest .NET framework. For details on changes in functionality since the last major release of this product, see the section Upgrading GridServer in the TIBCO DataSynapse GridServer® Manager Installation Guide.

Deprecated and Removed Features

The following feature has been deprecated or removed as of this release of TIBCO DataSynapse GridServer® Manager:

Removed Features

Removed Support for 32-bit Artifacts

DataSynapse GridServer® Manager 7.2.0 no longer supports 32-bit artifacts. This change impacts Windows (Win32) and Linux platforms.

Removed Support for SOAP APIs

The SOAP API functionality has been deprecated and so the support for SOAP API is removed from the Gridserver. The following table lists the removed SOAP APIs and their corresponding REST API replacements: | SOAP API | REST API | | --- | --- | | com.datasynapse.gridserver.admin.BatchAdmin | com.datasynapse.gridserver.rest.BatchAdmin. | | com.datasynapse.gridserver.admin.BrokerAdmin | com.datasynapse.gridserver.rest.BrokerAdmin | | com.datasynapse.gridserver.admin.DriverAdmin | com.datasynapse.gridserver.rest.DriverAdmin | | com.datasynapse.gridserver.admin.EngineAdmin | com.datasynapse.gridserver.rest.EngineAdmin | | com.datasynapse.gridserver.admin.EngineDaemonAdmin | com.datasynapse.gridserver.rest.EngineDaemonAdmin | |

com.datasynapse.gridserver.admin.ManagerAdmin |
com.datasynapse.gridserver.rest.ManagerAdmin | |
com.datasynapse.gridserver.admin.ServiceAdmin | com.datasynapse.gridserver.rest.ServiceAdmin | | com.datasynapse.gridserver.admin.UserAdmin | com.datasynapse.gridserver.rest.UserAdmin | |
com.datasynapse.webservices.gridserver.admin.BatchAdmin |
com.datasynapse.webservices.gridserver.rest.BatchAdmin | |
com.datasynapse.webservices.gridserver.admin.BrokerAdmin |
com.datasynapse.webservices.gridserver.rest.BrokerAdmin | |
com.datasynapse.webservices.gridserver.admin.DriverAdmin |
com.datasynapse.webservices.gridserver.rest.DriverAdmin | |
com.datasynapse.webservices.gridserver.admin.EngineAdmin |
com.datasynapse.webservices.gridserver.rest.EngineAdmin | |
com.datasynapse.webservices.gridserver.admin.EngineDaemonAdmin |
com.datasynapse.webservices.gridserver.rest.EngineDaemonAdmin | |
com.datasynapse.webservices.gridserver.admin.ManagerAdmin |
com.datasynapse.webservices.gridserver.rest.ManagerAdmin | |
com.datasynapse.webservices.gridserver.admin.ServiceAdmin |
com.datasynapse.webservices.gridserver.rest.ServiceAdmin | |
com.datasynapse.webservices.gridserver.admin.UserAdmin |
com.datasynapse.webservices.gridserver.rest.UserAdmin |

Migration and Compatibility

The following information provides migration procedures and a compatibility matrix for this release of TIBCO DataSynapse GridServer® Manager:

.NET Runtime Update

In DataSynapse GridServer® Manager 7.2.0, the underlying .NET runtime has been upgraded from .NET 6 to .NET 8. This update affects both the .NET driver and the .NET bridge components. There is no change to the configured serviceType. The value NET5 continues to be used for .NET-based services and remains valid. Internally, it now targets .NET 8. Ensure that your application code, libraries, and dependencies are compatible with .NET 8. Projects must be recompiled to guarantee compatibility and runtime stability. For details on how to migrate from a previous release to the current release, see the section Upgrading GridServer in the TIBCO GridServer® Installation Guide.

Closed Issues

The following issues have been fixed in this release of TIBCO DataSynapse GridServer® Manager:

C++ Specific

KEY	SUMMARY
GS-17793	The OpenSSL library requires an updated version 3.x.

Documentation

KEY	SUMMARY
GS-15287	C++ API documentation is not consistent with the Java API documentation . In the Java API, `Service` and `ServiceInvocationHandler` methods consistently return an `invocation ID`. However, the C++ API documentation used varying terms, including handler id, id, service id, and invocation id (new invocation id)'.

Drivers-All

KEY	SUMMARY
GS-18964	There is an issue where the DSDriver in GridServer 7.1.0 would overwrite the Root Logger level settings of integrated Java applications. The `driver.properties` file often defaulted to a Finest logging level, which caused rapid disk storage consumption. the `DSLogLevelOverWritten` parameter If the GridServer application is integrated within another Java application and you want to prevent the overwriting of Root Logger level

KEY	SUMMARY
	setting with GridServer Log Level setting, then set The `DSLogLevelOverWritten` parameter is introduced to prevent the GridServer Log Level setting from overwriting the Root Logger level setting. When you set this parameter to `false`, the DataSynapse Logger does not change the Root Logger level. When you set the `DSLogLevelOverWritten` parameter to `false`, the DataSynapse Logger does not change the Root Logger level.
GS-16447	A security vulnerability is identified in the driver's internal web server ports. This issue involved an XSS vulnerability in the driver when you access the driver's file sharing port through HTTP.

Engine

KEY	SUMMARY
GS-19271	You must install the required Visual C++ Redistributable libraries as a prerequisite for Engine installation. The legacy Visual C++ 2013 runtime DLLs (`msvcp120.dll`, `msvcr120.dll`) are replaced with Visual C++ 2016 and later runtime DLLs (`msvcp140.dll`, `vcruntime140.dll`).
GS-19242	The Python example of Linux64 failed to run. A Python `ServiceInvocationException` is observed with the message, `Task failed after 3 retries. Last failure: Engine crashed`. This issue occurs when setting up a combo server, configuring the linux64 engine, extracting the linux64 SDK, and running the Python example after exporting `LD_` `LIBRARY_PATH` and PATH variables. To resolve this issue, changes were implemented to set correctly the `ds.PYTH_MODULE_PATH`

KEY	SUMMARY
	environment variable. The `setManagerProperties` method called `addProperties` method now tracks whether the password is already encoded, preventing double encryption and the `Invalid Password` error.
GS-18969	When the primary director is down, the secondary director becomes `Acting as Primary`. In such a case, the secondary director is not able to perform the following operations: - Update Broker configurations (change broker sharing) - Update Engine configuration - Update Engine Daemon configuration - Add a broker to the grid. - Perform Grid Libraries Deployment

Manager

KEY	SUMMARY
GS-18910	A new parameter needs to be added to handle Browser active session timeout.
GS-18844	When a single Driver submits multiple jobs, some jobs containing a large number of tasks could cause delays in the completion of other jobs with a smaller number of tasks. To mitigate this issue, a new configuration parameter, `Equal weight tasks dispatch` is introduced that ensures more equitable task dispatching. If a small job takes longer than the usual time to complete, then setting the `Equal weight tasks dispatch` parameter to `true` prevents delays in the completion of smaller jobs, even when a large job has many tasks. The default value of the `Equal weight tasks dispatch` parameter is `false`.

KEY	SUMMARY
GS-18610	Critical and high-priority Common Vulnerabilities and Exposures (CVEs) detected in the Manager and Engine components are resolved. AngularJS updated version 1.8.3 enhances UI stability and security.
GS-17648	You cannot assign a role to an LDAP user if no email is entered.
GS-17645	When changing a non-SSL server to an SSL server, the Manager (Broker) ID changes when re-configuring the server.

Note:

For changing the non-SSL server to an SSL server, ensure that the Manager ID before and after reconfiguration is the same. You must manually input the old server ID during configuration.

KEY	SUMMARY
GS-16590	In GridServer user interface (UI), if a value of the configuration row differs from the default value, then it highlights the altered configuration row with a distinct color.
GS-16589	In the GridServer user interface (UI), row numbers are displayed across all pages where data is presented in a tabular format.

Operating Systems

KEY	SUMMARY
GS-18794	Apache Tomcat should be upgraded to 9.0.113.
GS-18527	GridServer requires support for Rocky Linux 9.

REST API

KEY	SUMMARY
GS-19415	A new REST API is needed for adding, removing and fetching list of Run-As Credentials.
GS-18618	New REST APIs are required to manage various engine configuration parameters. The new REST APIs are introduced that performs all operations available for the Engine Configuration tab. You can change the engine settings, such as log levels, through an automated interface.
GS-15890	Administrators had to remove manually offline daemon entries. With the new REST API methods, you can now purge offline daemons.

Security

KEY	SUMMARY
GS-18610	Critical and high-priority Common Vulnerabilities and Exposures (CVEs) detected in the Manager and Engine components are resolved. AngularJS updated version 1.8.3 enhances UI stability and security.

Services

KEY	SUMMARY
GS-19013	When you set the `Synchronize Resources to Engines` property to `false` under Admin > System Admin > Manager Configuration > Resource Deployment, the following error is displayed, Grid Library has not been deployed. Manually updating the Grid Libraries on the Engine side did not resolve this issue. The

KEY	SUMMARY
	service would only run successfully if you set the `Synchronize Resources to Engines` property to true. This is resolved. The Manager can now find the Grid Library when the `Synchronize Resources to Engines` property is set to `false`.

Note:

When the `Synchronize Resources to Engines` property is set to `false` , the Grid Library must be placed manually along with the signature file `(.#extracted` file) under `<Engine_directory>/resources/gridlib/` `(default location)` or at the custom Grid Library path. The custom Grid Library path is the location of the Grid Libraries, set through Engine Configuration > Grid Library Path . This should only be set if not using Grid Library Synchronization.

Upgrade and Migration

KEY	SUMMARY
GS-17656	Access to internal JDK packages, which were previously available, is now restricted. So, in the Command-Line Argument in the Engine JVM section under Grid Components > Engine > Engine Configurations use the following parameters: `--add-``exports=java.desktop/com.sun.beans.editors=ALL-``UNNAMED` Select the engine configuration file based on your operating system.

Note:

This parameter is only necessary for Java 17. Do not include it for lower Java versions, such as Java 8 and Java 11.

Known Issues

This section lists known issues in this release of TIBCO DataSynapse GridServer® Manager:

Engine, Engine Daemon

KEY	SUMMARY/WORKAROUND
GS-19447	Summary: When you upgrade to GridServer (GS) 7.2.0, the `gcc34` and `gcc49` compilers are no longer supported. If you upgrade from an earlier GS version where you configured `gcc34` or `gcc49` as the Engine GCC built version, the cached engine configuration may continue to reference an unsupported GCC version.

Workaround: Refresh the cached engine configuration on Linux engines by performing following steps:

1. Open the Engine Configuration UI in GS 7.2.0.
2. Change Engine GCC built version from `gcc83` to `gcc115`, then save the change.
3. Change Engine GCC built version from `gcc115` back to `gcc83`, then save the change again. This action forces the regeneration of the cached configuration. It also updates the `x4088.default` file under `engineDistros`.

KEY	SUMMARY
GS-19250	Summary: GridServer UI and SDK artifacts for .NET 8 are incorrectly named as .NET 5 artifacts.
GS-19127	Summary: Under Windows Authentication mode, GridServer may fail to restart after the LGPL JAR file is applied. HTTP Status `404–Not Found` error occurs on the Web UI. This occurs when the domain configuration is saved prior to the JAR deployment.

KEY	SUMMARY
GS-17640	Summary: When move Engines from GridServer version 6.3.1_hotfix05 to GridServer version 7.1.0, sometimes the win32 and win64 Engines do not move to the GridServer 7.1.0 server. The server running is the SSL server using a self-signed certificate. 1. After the Engines are online on GridServer version 6.3.1, change the Primary Director URL from 631 to 710 in the Engine Configuration. 2. Check after some time (for example, 15 secs), the GridServer version 7.1.0 Primary Director URL reflects in the `engined.log` file and that the Engine is trying to connect to the GridServer version 7.1.0 server. 3. Then copy the GridServer version 7.1.0 certificates to the Engine directory.

Manager

KEY	SUMMARY/WORKAROUND
GS-19285	Summary: There is an issue for the GridServer 7.2.0 startup on RHEL 10 machines due to the missing compatibility libraries for Apache Tomcat Native. To resolve the Grid Server startup issue on RHEL 10, install the `libxcrypt-compat` package. This package provides the necessary compatibility library for the POSIX `crypt()` API. 1. Run the following command in your terminal: `sudo dnf install libxcrypt-compat` 2. After installing the package, start the Grid Server. The server starts successfully.
GS-17691	Summary: Task collection generates an excessive amount of logs at the FINE level.

KEY	SUMMARY/WORKAROUND
GS-17647	Summary: On Windows Engines, the logs `engine-stderrxxx.log` and `engine-stdoutxxx.log` are not generated as expected.
GS-17646	Summary: If you use `DSConfigureOnStartup=true` in the `installation.properties` file to re-configure the server, it causes a Grid Cache problem. Grid Cache is not properly initialized after the server is up. For SSL server - Install SSL server using Silent installation mode - Install SSL server using UI installation mode (before installing an SSL server, a non-SSL server must not be installed)

Note:

For changing the non-SSL server to an SSL server, ensure that the Manager ID before and after reconfiguration is the same. You must manually enter the old server ID during configuration. For the non-SSL server (for converting a Broker to a Director or from Director to a Broker).

- Ensure that the Manager ID before and after reconfiguration is the same. You must manually enter the old server ID during configuration. For an already running server 1. Purge the offline Broker from Grid Components > Broker Admin. 2. Stop the server.

1. Go to `DS_DATA/cache` and delete the `old_offline_broker_` `id.broker` file.
2. Start the server.

Services

KEY	SUMMARY
GS-17423	Summary Service Priority Changed Event is not captured through Kafka Event Streaming.

TIBCO Documentation and Support Services

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

How to Access TIBCO Documentation

Documentation for TIBCO products is available on the Product Documentation website, mainly in HTML and PDF formats. The Product Documentation website is updated frequently and is more current than any other documentation included with the product.

Product-Specific Documentation

Documentation for TIBCO DataSynapse GridServer® Manager is available on the TIBCO DataSynapse GridServer® Manager Product Documentation page.

How to Contact Support for TIBCO Products

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- To access the Support Knowledge Base and getting personalized content about products you are interested in, visit our product Support website.
- To create a Support case, you must have a valid maintenance or support contract with a Cloud Software Group entity. You also need a username and password to log in to the product Support website. If you do not have a username, you can request one by clicking Register on the website.
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Added REST API for Manager Diagnostics Logs

Access a new programmatic method for fetching integration and troubleshooting data, including Manager Logs, Environment configurations, and Task Queues.

Service Logs and Service Admin

You can search service logs for specific service sessions to monitor instances and retrieve the `grid-library.xml` configuration file for designated grid libraries.

Added REST API for Service Test

A new endpoint allows users to trigger Linpack tests directly for the job admin scheduler.

User Interface (UI) Improvements

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A configuration row is highlighted if the value is altered after comparing it with the system's default value, allowing the administrators to identify easily customized settings.

Table Row Numbering

To improve data visibility and ease of navigation, row numbers have been added to tabular pages across the application. This includes, but is not limited to the following UI pages:

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- Engine Admin
- Service Types
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Changes in Functionality

The following changes in functionality have been made in this release of TIBCO DataSynapse GridServer® Manager:

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DataSynapse GridServer® Manager 7.2.0 introduces a new installation process for the Windows Engine. This update provides a unified experience that mirrors the existing Linux Engine installation workflow. The Windows Engine installer is delivered as a `.tar.gz` archive. This packaging ensures consistent delivery across different operating systems. You can now manage engine installation and execution on Windows using a built-in command-line interface.

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Deprecated and Removed Features

The following feature has been deprecated or removed as of this release of TIBCO DataSynapse GridServer® Manager:

Removed Features

Removed Support for 32-bit Artifacts

DataSynapse GridServer® Manager 7.2.0 no longer supports 32-bit artifacts. This change impacts Windows (Win32) and Linux platforms.

Removed Support for SOAP APIs

The SOAP API functionality has been deprecated and so the support for SOAP API is removed from the Gridserver. The following table lists the removed SOAP APIs and their corresponding REST API replacements: | SOAP API | REST API | | --- | --- | | com.datasynapse.gridserver.admin.BatchAdmin | com.datasynapse.gridserver.rest.BatchAdmin. | | com.datasynapse.gridserver.admin.BrokerAdmin | com.datasynapse.gridserver.rest.BrokerAdmin | | com.datasynapse.gridserver.admin.DriverAdmin | com.datasynapse.gridserver.rest.DriverAdmin | | com.datasynapse.gridserver.admin.EngineAdmin | com.datasynapse.gridserver.rest.EngineAdmin | | com.datasynapse.gridserver.admin.EngineDaemonAdmin | com.datasynapse.gridserver.rest.EngineDaemonAdmin | | com.datasynapse.gridserver.admin.ManagerAdmin | com.datasynapse.gridserver.rest.ManagerAdmin | | com.datasynapse.gridserver.admin.ServiceAdmin | com.datasynapse.gridserver.rest.ServiceAdmin | | com.datasynapse.gridserver.admin.UserAdmin | com.datasynapse.gridserver.rest.UserAdmin | | com.datasynapse.webservices.gridserver.admin.BatchAdmin | com.datasynapse.webservices.gridserver.rest.BatchAdmin | |

com.datasynapse.webservices.gridserver.admin.BrokerAdmin |
com.datasynapse.webservices.gridserver.rest.BrokerAdmin | |
com.datasynapse.webservices.gridserver.admin.DriverAdmin |
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Closed Issues

The following issues have been fixed in this release of TIBCO DataSynapse GridServer® Manager:

C++ Specific

KEY	SUMMARY
GS-17793	The OpenSSL library requires an updated version 3.x.

Documentation

KEY	SUMMARY
GS-15287	C++ API documentation is not consistent with the Java API documentation . In the Java API, `Service` and `ServiceInvocationHandler` methods consistently return an `invocation ID`. However, the C++ API documentation used varying terms, including handler id, id, service id, and invocation id (new invocation id)'.

Drivers-All

KEY	SUMMARY
GS-18964	There is an issue where the DSDriver in GridServer 7.1.0 would overwrite the Root Logger level settings of integrated Java applications. The `driver.properties` file often defaulted to a Finest logging level, which caused rapid disk storage consumption. the `DSLogLevelOverWritten` parameter If the GridServer application is integrated within another Java application and you want to prevent the overwriting of Root Logger level setting with GridServer Log Level setting, then set The `DSLogLevelOverWritten` parameter is introduced to prevent the GridServer Log Level setting from overwriting the Root Logger level setting. When you set this parameter to `false`, the DataSynapse Logger does not change the Root Logger level. When you set the `DSLogLevelOverWritten` parameter to

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	`false`, the DataSynapse Logger does not change the Root Logger level.
GS-16447	A security vulnerability is identified in the driver's internal web server ports. This issue involved an XSS vulnerability in the driver when you access the driver's file sharing port through HTTP.

Engine

KEY	SUMMARY
GS-19271	You must install the required Visual C++ Redistributable libraries as a prerequisite for Engine installation. The legacy Visual C++ 2013 runtime DLLs (`msvcp120.dll`, `msvcr120.dll`) are replaced with Visual C++ 2016 and later runtime DLLs (`msvcp140.dll`, `vcruntime140.dll`).
GS-19242	The Python example of Linux64 failed to run. A Python `ServiceInvocationException` is observed with the message, `Task failed after 3 retries. Last failure: Engine crashed`. This issue occurs when setting up a combo server, configuring the linux64 engine, extracting the linux64 SDK, and running the Python example after exporting `LD_` `LIBRARY_PATH` and PATH variables. To resolve this issue, changes were implemented to set correctly the `ds.PYTH_MODULE_PATH` environment variable. The `setManagerProperties` method called `addProperties` method now tracks whether the password is already encoded, preventing double encryption and the `Invalid` `Password` error.

KEY	SUMMARY
GS-18969	When the primary director is down, the secondary director becomes `Acting as Primary`. In such a case, the secondary director is not able to perform the following operations: - Update Broker configurations (change broker sharing) - Update Engine configuration - Update Engine Daemon configuration - Add a broker to the grid. - Perform Grid Libraries Deployment

Manager

KEY	SUMMARY
GS-18910	A new parameter needs to be added to handle Browser active session timeout.
GS-18844	When a single Driver submits multiple jobs, some jobs containing a large number of tasks could cause delays in the completion of other jobs with a smaller number of tasks. To mitigate this issue, a new configuration parameter, `Equal weight tasks dispatch` is introduced that ensures more equitable task dispatching. If a small job takes longer than the usual time to complete, then setting the `Equal weight tasks dispatch` parameter to `true` prevents delays in the completion of smaller jobs, even when a large job has many tasks. The default value of the `Equal weight tasks dispatch` parameter is `false`.
GS-18610	Critical and high-priority Common Vulnerabilities and Exposures (CVEs) detected in the Manager and Engine components are resolved. AngularJS updated version 1.8.3 enhances UI stability and security.

KEY	SUMMARY
GS-17648	You cannot assign a role to an LDAP user if no email is entered.
GS-17645	When changing a non-SSL server to an SSL server, the Manager (Broker) ID changes when re-configuring the server.

Note:

For changing the non-SSL server to an SSL server, ensure that the Manager ID before and after reconfiguration is the same. You must manually input the old server ID during configuration.

KEY	SUMMARY
GS-16590	In GridServer user interface (UI), if a value of the configuration row differs from the default value, then it highlights the altered configuration row with a distinct color.
GS-16589	In the GridServer user interface (UI), row numbers are displayed across all pages where data is presented in a tabular format.

Operating Systems

KEY	SUMMARY
GS-18794	Apache Tomcat should be upgraded to 9.0.113.
GS-18527	GridServer requires support for Rocky Linux 9.

REST API

KEY	SUMMARY
GS-19415	A new REST API is needed for adding, removing and fetching list of Run-As Credentials.

KEY	SUMMARY
GS-18618	New REST APIs are required to manage various engine configuration parameters. The new REST APIs are introduced that performs all operations available for the Engine Configuration tab. You can change the engine settings, such as log levels, through an automated interface.
GS-15890	Administrators had to remove manually offline daemon entries. With the new REST API methods, you can now purge offline daemons.

Security

KEY	SUMMARY
GS-18610	Critical and high-priority Common Vulnerabilities and Exposures (CVEs) detected in the Manager and Engine components are resolved. AngularJS updated version 1.8.3 enhances UI stability and security.

Services

KEY	SUMMARY
GS-19013	When you set the `Synchronize Resources to Engines` property to `false` under Admin > System Admin > Manager Configuration > Resource Deployment, the following error is displayed, Grid Library has not been deployed. Manually updating the Grid Libraries on the Engine side did not resolve this issue. The service would only run successfully if you set the `Synchronize Resources to Engines` property to true. This is resolved. The Manager can now find the Grid Library when the `Synchronize Resources to Engines` property is set to `false`.

Note:

When the `Synchronize Resources to Engines` property is set to `false` , the Grid Library must be placed manually along with the signature file `(.#extracted` file) under `<Engine_directory>/resources/gridlib/` `(default location)` or at the custom Grid Library path. The custom Grid Library path is the location of the Grid Libraries, set through Engine Configuration > Grid Library Path . This should only be set if not using Grid Library Synchronization.

Upgrade and Migration

KEY	SUMMARY
GS-17656	Access to internal JDK packages, which were previously available, is now restricted. So, in the Command-Line Argument in the Engine JVM section under Grid Components > Engine > Engine Configurations use the following parameters: `--add-``exports=java.desktop/com.sun.beans.editors=ALL-``UNNAMED` Select the engine configuration file based on your operating system.

Note:

This parameter is only necessary for Java 17. Do not include it for lower Java versions, such as Java 8 and Java 11.

Known Issues

This section lists known issues in this release of TIBCO DataSynapse GridServer® Manager:

Engine, Engine Daemon

KEY	SUMMARY/WORKAROUND
GS-19447	Summary: When you upgrade to GridServer (GS) 7.2.0, the `gcc34` and `gcc49` compilers are no longer supported. If you upgrade from an earlier GS version where you configured `gcc34` or `gcc49` as the Engine

KEY	SUMMARY/WORKAROUND
	GCC built version, the cached engine configuration may continue to reference an unsupported GCC version.

Workaround: Refresh the cached engine configuration on Linux engines by performing following steps:

1. Open the Engine Configuration UI in GS 7.2.0.
2. Change Engine GCC built version from `gcc83` to `gcc115`, then save the change.
3. Change Engine GCC built version from `gcc115` back to `gcc83`, then save the change again. This action forces the regeneration of the cached configuration. It also updates the `x4088.default` file under `engineDistros`.

KEY	SUMMARY
GS-19250	Summary: GridServer UI and SDK artifacts for .NET 8 are incorrectly named as .NET 5 artifacts.
GS-19127	Summary: Under Windows Authentication mode, GridServer may fail to restart after the LGPL JAR file is applied. HTTP Status `404-Not Found` error occurs on the Web UI. This occurs when the domain configuration is saved prior to the JAR deployment.
GS-17640	Summary: When move Engines from GridServer version 6.3.1_hotfix05 to GridServer version 7.1.0, sometimes the win32 and win64 Engines do not move to the GridServer 7.1.0 server. The server running is the SSL server using a self-signed certificate. 1. After the Engines are online on GridServer version 6.3.1, change the Primary Director URL from 631 to 710 in the Engine Configuration. 2. Check after some time (for example, 15 secs), the GridServer version 7.1.0 Primary Director URL reflects in the `engined.log` file and that the Engine is trying to connect to the GridServer version

KEY	SUMMARY
	7.1.0 server. 3. Then copy the GridServer version 7.1.0 certificates to the Engine directory.

Manager

KEY	SUMMARY/WORKAROUND
GS-19285	Summary: There is an issue for the GridServer 7.2.0 startup on RHEL 10 machines due to the missing compatibility libraries for Apache Tomcat Native. To resolve the Grid Server startup issue on RHEL 10, install the `libxcrypt-compat` package. This package provides the necessary compatibility library for the POSIX `crypt()` API. 1. Run the following command in your terminal: `sudo dnf install libxcrypt-compat` 2. After installing the package, start the Grid Server. The server starts successfully.
GS-17691	Summary: Task collection generates an excessive amount of logs at the FINE level.
GS-17647	Summary: On Windows Engines, the logs `engine-stderrxxx.log` and `engine-stdoutxxx.log` are not generated as expected.
GS-17646	Summary: If you use `DSConfigureOnStartup=true` in the `installation.properties` file to re-configure the server, it causes a Grid Cache problem. Grid Cache is not properly initialized after the server is up. For SSL server - Install SSL server using Silent installation mode - Install SSL server using UI installation mode (before installing an SSL server, a non-SSL server must not be installed)

Note:

For changing the non-SSL server to an SSL server, ensure that the Manager ID before and after reconfiguration is the same. You must manually enter the old server ID during configuration. For the non-SSL server (for converting a Broker to a Director or from Director to a Broker).

- Ensure that the Manager ID before and after reconfiguration is the same. You must manually enter the old server ID during configuration. For an already running server 1. Purge the offline Broker from Grid Components > Broker Admin. 2. Stop the server.

1. Go to `DS_DATA/cache` and delete the `old_offline_broker_` `id.broker` file.
2. Start the server.

Services

KEY	SUMMARY
GS-17423	Summary Service Priority Changed Event is not captured through Kafka Event Streaming.

TIBCO Documentation and Support Services

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

How to Access TIBCO Documentation

Documentation for TIBCO products is available on the Product Documentation website, mainly in HTML and PDF formats. The Product Documentation website is updated frequently and is more current than any other documentation included with the product.

Product-Specific Documentation

Documentation for TIBCO DataSynapse GridServer® Manager is available on the TIBCO DataSynapse GridServer® Manager Product Documentation page.

How to Contact Support for TIBCO Products

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- To access the Support Knowledge Base and getting personalized content about products you are interested in, visit our product Support website.

- To create a Support case, you must have a valid maintenance or support contract with a Cloud Software Group entity. You also need a username and password to log in to the product Support website. If you do not have a username, you can request one by clicking Register on the website.
- To submit ideas, suggestions, or feedback for TIBCO products, visit our product Support website.

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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. For a free registration, go to TIBCO Community.

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New Features

The following features have been added in this release of TIBCO DataSynapse GridServer® Manager:

Release Type & Core Support

Long-Term Support (LTS) Support

DataSynapse GridServer® Manager 7.2.0 is a LTS Release. For more information about the DataSynapse GridServer® Manager LTS Support, see TIBCO LTS Policy.

Azul OpenJDK Integration

Azul Java 17.0.12 is now fully supported across all GridServer components.

Note:

Oracle Java 17 is the default Engine JRE for Win64 and Linux64.

- When running the Engine on Azul Java 17 you need to configure specific JVM parameters for the Engine and Driver Software Development Kit (SDK) components. Grid-library support is available for Linux 64-bit and Windows 64-bit.
- No installation or configuration changes are required for the Broker and Manager to support Azul OpenJDK 17.

Apache Tomcat® Upgrade

The bundled Apache Tomcat server has been upgraded to version 9.0.113.

Platform, Component, & Compiler Upgrades

Additional Platform Support

DataSynapse GridServer® Manager 7.2.0 is now supported on Rocky Linux 10, Red Hat Enterprise Linux (RHEL) 10, and Windows Server 2025.

Component Upgrades

To ensure optimal security and performance, the following third-party dependencies have been upgraded:

- Python 3.10.6 applies to Python Bridge, drivers, and associated examples.
- .NET 8
- OpenSSL 3.0.14

New Compiler Support

Integration for modern compilers has been added to leverage the latest features and optimizations for third-party libraries. This includes GCC 11.5 for Linux and VC17 for Windows. For the updated list of supported TIBCO Software, platforms, and third-party software, see the Readme file provided with TIBCO DataSynapse GridServer® Manager.

High Availability Enhancements

Secondary Director Acts as Primary

Failover reliability has been significantly enhanced. In the event of a Primary Director outage, the Secondary Director now automatically assumes the Primary role and can execute the following critical operations:

- Update Broker configurations (including modifying Broker sharing)
- Update Engine and Engine Daemon configurations
- Add new Brokers to the GridServer.
- Perform Grid Libraries Deployment
- Manage the Service Type Registry

Comprehensive REST API Additions

This release vastly expands the programmatic control by introducing new REST APIs that mirror functionalities previously only available through the user interface:

Broker Admin and Configuration

New APIs support all Broker Admin capabilities. A notable addition is the `updateBrokerConfigurationAPI`, enabling programmatic modifications to broker settings. Additionally, a `purge-broker` API has been introduced.

Broker Routing

The administrators can now list, add, delete, or update routing details by performing CRUD (Create, Read, Update, Delete) operations on broker routing properties.

Engine Configuration

You can now programmatically adjust Engine parameters and log levels without interacting with the user interface.

EngineDaemonAdmin

The offline Engine Daemons can be efficiently removed from the Director. This is specifically designed for automated daemon management in cloud environments characterized by frequent provisioning and de-provisioning.

Run-As Credential

You can programmatically retrieve a list of Run-As Credential users, as well as add or delete a Run-As credential user.

Added REST API for Manager Diagnostics Logs

Access a new programmatic method for fetching integration and troubleshooting data, including Manager Logs, Environment configurations, and Task Queues.

Service Logs and Service Admin

You can search service logs for specific service sessions to monitor instances and retrieve the `grid-library.xml` configuration file for designated grid libraries.

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Drivers-All

KEY	SUMMARY
GS-18964	There is an issue where the DSDriver in GridServer 7.1.0 would overwrite the Root Logger level settings of integrated Java applications. The `driver.properties` file often defaulted to a Finest logging level, which caused rapid disk storage consumption. the `DSLogLevelOverWritten` parameter If the GridServer application is integrated within another Java application and you want to prevent the overwriting of Root Logger level setting with GridServer Log Level setting, then set The `DSLogLevelOverWritten` parameter is introduced to prevent the GridServer Log Level setting from overwriting the Root Logger level setting. When you set this parameter to `false`, the DataSynapse Logger does not change the Root Logger level. When you set the `DSLogLevelOverWritten` parameter to `false`, the DataSynapse Logger does not change the Root Logger level.
GS-16447	A security vulnerability is identified in the driver's internal web server ports. This issue involved an XSS vulnerability in the driver when you access the driver's file sharing port through HTTP.

Engine

KEY	SUMMARY
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KEY	SUMMARY
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Manager

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	parameter, `Equal weight tasks dispatch` is introduced that ensures more equitable task dispatching. If a small job takes longer than the usual time to complete, then setting the `Equal weight tasks dispatch` parameter to `true` prevents delays in the completion of smaller jobs, even when a large job has many tasks. The default value of the `Equal weight tasks dispatch` parameter is `false`.
GS-18610	Critical and high-priority Common Vulnerabilities and Exposures (CVEs) detected in the Manager and Engine components are resolved. AngularJS updated version 1.8.3 enhances UI stability and security.
GS-17648	You cannot assign a role to an LDAP user if no email is entered.
GS-17645	When changing a non-SSL server to an SSL server, the Manager (Broker) ID changes when re-configuring the server.

Note:

For changing the non-SSL server to an SSL server, ensure that the Manager ID before and after reconfiguration is the same. You must manually input the old server ID during configuration.

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Operating Systems

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GS-18527	GridServer requires support for Rocky Linux 9.

REST API

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KEY	SUMMARY
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Note:

When the `Synchronize Resources to Engines` property is set to `false` , the Grid Library must be placed manually along with the signature file `(.#extracted` file) under `<Engine_directory>/resources/gridlib/` `(default location)` or at the custom Grid Library path. The custom Grid Library path is the location of the Grid Libraries, set through Engine Configuration > Grid Library Path . This should only be set if not using Grid Library Synchronization.

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Note:

This parameter is only necessary for Java 17. Do not include it for lower Java versions, such as Java 8 and Java 11.

Known Issues

This section lists known issues in this release of TIBCO DataSynapse GridServer® Manager:

Engine, Engine Daemon

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GS-19447	Summary: When you upgrade to GridServer (GS) 7.2.0, the `gcc34` and `gcc49` compilers are no longer supported. If you upgrade from an earlier GS version where you configured `gcc34` or `gcc49` as the Engine GCC built version, the cached engine configuration may continue to reference an unsupported GCC version.

Workaround: Refresh the cached engine configuration on Linux engines by performing following steps:

1. Open the Engine Configuration UI in GS 7.2.0.
2. Change Engine GCC built version from `gcc83` to `gcc115`, then save the change.
3. Change Engine GCC built version from `gcc115` back to `gcc83`, then save the change again. This action forces the regeneration of the cached configuration. It also updates the `x4088.default` file under `engineDistros`.

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Manager

KEY	SUMMARY/WORKAROUND
GS-19285	Summary: There is an issue for the GridServer 7.2.0 startup on RHEL 10 machines due to the missing compatibility libraries for Apache Tomcat Native. To resolve the Grid Server startup issue on RHEL 10, install the `libxcrypt-compat` package. This package provides the necessary compatibility library for the POSIX `crypt()` API. 1. Run the following command in your terminal: `sudo dnf install libxcrypt-compat` 2. After installing the package, start the Grid Server. The server starts successfully.
GS-17691	Summary: Task collection generates an excessive amount of logs at the FINE level.

KEY	SUMMARY/WORKAROUND
GS-17647	Summary: On Windows Engines, the logs `engine-stderrxxx.log` and `engine-stdoutxxx.log` are not generated as expected.
GS-17646	Summary: If you use `DSConfigureOnStartup=true` in the `installation.properties` file to re-configure the server, it causes a Grid Cache problem. Grid Cache is not properly initialized after the server is up. For SSL server - Install SSL server using Silent installation mode - Install SSL server using UI installation mode (before installing an SSL server, a non-SSL server must not be installed)

Note:

For changing the non-SSL server to an SSL server, ensure that the Manager ID before and after reconfiguration is the same. You must manually enter the old server ID during configuration. For the non-SSL server (for converting a Broker to a Director or from Director to a Broker).

- Ensure that the Manager ID before and after reconfiguration is the same. You must manually enter the old server ID during configuration. For an already running server 1. Purge the offline Broker from Grid Components > Broker Admin. 2. Stop the server.

1. Go to `DS_DATA/cache` and delete the `old_offline_broker_` `id.broker` file.
2. Start the server.

Services

KEY	SUMMARY
GS-17423	Summary Service Priority Changed Event is not captured through Kafka Event Streaming.

TIBCO Documentation and Support Services

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

How to Access TIBCO Documentation

Documentation for TIBCO products is available on the Product Documentation website, mainly in HTML and PDF formats. The Product Documentation website is updated frequently and is more current than any other documentation included with the product.

Product-Specific Documentation

Documentation for TIBCO DataSynapse GridServer® Manager is available on the TIBCO DataSynapse GridServer® Manager Product Documentation page.

How to Contact Support for TIBCO Products

You can contact the Support team in the following ways:

- To access the Support Knowledge Base and getting personalized content about products you are interested in, visit our product Support website.
- To create a Support case, you must have a valid maintenance or support contract with a Cloud Software Group entity. You also need a username and password to log in to the product Support website. If you do not have a username, you can request one by clicking Register on the website.
- To submit ideas, suggestions, or feedback for TIBCO products, visit our product Support website.

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New Features

The following features have been added in this release of TIBCO DataSynapse GridServer® Manager:

Release Type & Core Support

Long-Term Support (LTS) Support

DataSynapse GridServer® Manager 7.2.0 is a LTS Release. For more information about the DataSynapse GridServer® Manager LTS Support, see TIBCO LTS Policy.

Azul OpenJDK Integration

Azul Java 17.0.12 is now fully supported across all GridServer components.

Note:

Oracle Java 17 is the default Engine JRE for Win64 and Linux64.

- When running the Engine on Azul Java 17 you need to configure specific JVM parameters for the Engine and Driver Software Development Kit (SDK) components. Grid-library support is available for Linux 64-bit and Windows 64-bit.
- No installation or configuration changes are required for the Broker and Manager to support Azul OpenJDK 17.

Apache Tomcat® Upgrade

The bundled Apache Tomcat server has been upgraded to version 9.0.113.

Platform, Component, & Compiler Upgrades

Additional Platform Support

DataSynapse GridServer® Manager 7.2.0 is now supported on Rocky Linux 10, Red Hat Enterprise Linux (RHEL) 10, and Windows Server 2025.

Component Upgrades

To ensure optimal security and performance, the following third-party dependencies have been upgraded:

- Python 3.10.6 applies to Python Bridge, drivers, and associated examples.
- .NET 8
- OpenSSL 3.0.14

New Compiler Support

Integration for modern compilers has been added to leverage the latest features and optimizations for third-party libraries. This includes GCC 11.5 for Linux and VC17 for Windows. For the updated list of supported TIBCO Software, platforms, and third-party software, see the Readme file provided with TIBCO DataSynapse GridServer® Manager.

High Availability Enhancements

Secondary Director Acts as Primary

Failover reliability has been significantly enhanced. In the event of a Primary Director outage, the Secondary Director now automatically assumes the Primary role and can execute the following critical operations:

- Update Broker configurations (including modifying Broker sharing)
- Update Engine and Engine Daemon configurations
- Add new Brokers to the GridServer.
- Perform Grid Libraries Deployment
- Manage the Service Type Registry

Comprehensive REST API Additions

This release vastly expands the programmatic control by introducing new REST APIs that mirror functionalities previously only available through the user interface:

Broker Admin and Configuration

New APIs support all Broker Admin capabilities. A notable addition is the `updateBrokerConfigurationAPI`, enabling programmatic modifications to broker settings. Additionally, a `purge-broker` API has been introduced.

Broker Routing

The administrators can now list, add, delete, or update routing details by performing CRUD (Create, Read, Update, Delete) operations on broker routing properties.

Engine Configuration

You can now programmatically adjust Engine parameters and log levels without interacting with the user interface.

EngineDaemonAdmin

The offline Engine Daemons can be efficiently removed from the Director. This is specifically designed for automated daemon management in cloud environments characterized by frequent provisioning and de-provisioning.

Run-As Credential

You can programmatically retrieve a list of Run-As Credential users, as well as add or delete a Run-As credential user.

Added REST API for Manager Diagnostics Logs

Access a new programmatic method for fetching integration and troubleshooting data, including Manager Logs, Environment configurations, and Task Queues.

Service Logs and Service Admin

You can search service logs for specific service sessions to monitor instances and retrieve the `grid-library.xml` configuration file for designated grid libraries.

Added REST API for Service Test

A new endpoint allows users to trigger Linpack tests directly for the job admin scheduler.

User Interface (UI) Improvements

Altered Configuration Highlighting

A configuration row is highlighted if the value is altered after comparing it with the system's default value, allowing the administrators to identify easily customized settings.

Table Row Numbering

To improve data visibility and ease of navigation, row numbers have been added to tabular pages across the application. This includes, but is not limited to the following UI pages:

- Engine Daemons
- Engine Admin
- Service Types

- User Admin

Changes in Functionality

The following changes in functionality have been made in this release of TIBCO DataSynapse GridServer® Manager:

Windows Engine Deployment

DataSynapse GridServer® Manager 7.2.0 introduces a new installation process for the Windows Engine. This update provides a unified experience that mirrors the existing Linux Engine installation workflow. The Windows Engine installer is delivered as a `.tar.gz` archive. This packaging ensures consistent delivery across different operating systems. You can now manage engine installation and execution on Windows using a built-in command-line interface.

Updated Windows Runtime Dependencies

Updated the application runtime requirements by replacing legacy Visual C++ 2013 libraries (`msvcp120.dll`, `msvcr120.dll`) with Visual C++ 2015-2022 redistributables (`msvcp140.dll`, `vcruntime140.dll`). This change ensures full compatibility and optimized performance across modern environments, including Windows Server 2016 through Windows Server 2025.

Updated Build Tooling Requirements

In DataSynapse GridServer® Manager Software Development Kit (SDK), all the core C++ and .NET components are now bundled with Visual Code 16. However, to maintain developer flexibility, the provided SDK example projects continue to be bundled with Visual Code 15 build configurations. You should ensure that the appropriate redistributables are installed for their target environment.

.NET Runtime Update

DataSynapse GridServer® Manager 7.2.0 introduces an upgrade to the underlying .NET runtime. The platform now supports .NET 8, moving from the previous .NET 6 version. This update affects both the .NET driver and the .NET bridge components. This ensures compatibility with the latest .NET framework. For details on changes in functionality since the last major release of this product, see the section Upgrading GridServer in the TIBCO DataSynapse GridServer® Manager Installation Guide.

Deprecated and Removed Features

The following feature has been deprecated or removed as of this release of TIBCO DataSynapse GridServer® Manager:

Removed Features

Removed Support for 32-bit Artifacts

DataSynapse GridServer® Manager 7.2.0 no longer supports 32-bit artifacts. This change impacts Windows (Win32) and Linux platforms.

Removed Support for SOAP APIs

The SOAP API functionality has been deprecated and so the support for SOAP API is removed from the Gridserver. The following table lists the removed SOAP APIs and their corresponding REST API replacements: | SOAP API | REST API | | --- | --- | | com.datasynapse.gridserver.admin.BatchAdmin | com.datasynapse.gridserver.rest.BatchAdmin. | | com.datasynapse.gridserver.admin.BrokerAdmin | com.datasynapse.gridserver.rest.BrokerAdmin | | com.datasynapse.gridserver.admin.DriverAdmin | com.datasynapse.gridserver.rest.DriverAdmin | | com.datasynapse.gridserver.admin.EngineAdmin | com.datasynapse.gridserver.rest.EngineAdmin | | com.datasynapse.gridserver.admin.EngineDaemonAdmin | com.datasynapse.gridserver.rest.EngineDaemonAdmin | | com.datasynapse.gridserver.admin.ManagerAdmin | com.datasynapse.gridserver.rest.ManagerAdmin | | com.datasynapse.gridserver.admin.ServiceAdmin | com.datasynapse.gridserver.rest.ServiceAdmin | | com.datasynapse.gridserver.admin.UserAdmin | com.datasynapse.gridserver.rest.UserAdmin | | com.datasynapse.webservices.gridserver.admin.BatchAdmin | com.datasynapse.webservices.gridserver.rest.BatchAdmin | | com.datasynapse.webservices.gridserver.admin.BrokerAdmin | com.datasynapse.webservices.gridserver.rest.BrokerAdmin | | com.datasynapse.webservices.gridserver.admin.DriverAdmin | com.datasynapse.webservices.gridserver.rest.DriverAdmin | | com.datasynapse.webservices.gridserver.admin.EngineAdmin | com.datasynapse.webservices.gridserver.rest.EngineAdmin | | com.datasynapse.webservices.gridserver.admin.EngineDaemonAdmin | com.datasynapse.webservices.gridserver.rest.EngineDaemonAdmin | | com.datasynapse.webservices.gridserver.admin.ManagerAdmin | com.datasynapse.webservices.gridserver.rest.ManagerAdmin | | com.datasynapse.webservices.gridserver.admin.ServiceAdmin |

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Migration and Compatibility

The following information provides migration procedures and a compatibility matrix for this release of TIBCO DataSynapse GridServer® Manager:

.NET Runtime Update

In DataSynapse GridServer® Manager 7.2.0, the underlying .NET runtime has been upgraded from .NET 6 to .NET 8. This update affects both the .NET driver and the .NET bridge components. There is no change to the configured serviceType. The value NET5 continues to be used for .NET-based services and remains valid. Internally, it now targets .NET 8. Ensure that your application code, libraries, and dependencies are compatible with .NET 8. Projects must be recompiled to guarantee compatibility and runtime stability. For details on how to migrate from a previous release to the current release, see the section Upgrading GridServer in the TIBCO GridServer® Installation Guide.

Closed Issues

The following issues have been fixed in this release of TIBCO DataSynapse GridServer® Manager:

C++ Specific

KEY	SUMMARY
GS-17793	The OpenSSL library requires an updated version 3.x.

Documentation

KEY	SUMMARY
GS-15287	C++ API documentation is not consistent with the Java API documentation . In the Java API, `Service` and `ServiceInvocationHandler` methods consistently return an `invocation ID`. However, the C++ API documentation

KEY	SUMMARY
	used varying terms, including handler id, id, service id, and invocation id (new invocation id)'.

Drivers-All

KEY	SUMMARY
GS-18964	There is an issue where the DSDriver in GridServer 7.1.0 would overwrite the Root Logger level settings of integrated Java applications. The `driver.properties` file often defaulted to a Finest logging level, which caused rapid disk storage consumption. the `DSLogLevelOverWritten` parameter If the GridServer application is integrated within another Java application and you want to prevent the overwriting of Root Logger level setting with GridServer Log Level setting, then set The `DSLogLevelOverWritten` parameter is introduced to prevent the GridServer Log Level setting from overwriting the Root Logger level setting. When you set this parameter to `false`, the DataSynapse Logger does not change the Root Logger level. When you set the `DSLogLevelOverWritten` parameter to `false`, the DataSynapse Logger does not change the Root Logger level.
GS-16447	A security vulnerability is identified in the driver's internal web server ports. This issue involved an XSS vulnerability in the driver when you access the driver's file sharing port through HTTP.

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Note:

When the `Synchronize Resources to Engines` property is set to `false` , the Grid Library must be placed manually along with the signature file `(.#extracted` file) under `<Engine_directory>/resources/gridlib/` `(default location)` or at the custom Grid Library path. The custom Grid Library path is the location of the Grid Libraries, set through Engine Configuration > Grid Library Path . This should only be set if not using Grid Library Synchronization.

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Workaround: Refresh the cached engine configuration on Linux engines by performing following steps:

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2. Change Engine GCC built version from `gcc83` to `gcc115`, then save the change.

3. Change Engine GCC built version from `gcc115` back to `gcc83`, then save the change again. This action forces the regeneration of the cached configuration. It also updates the `x4088.default` file under `engineDistros`.

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Manager

KEY	SUMMARY/WORKAROUND
GS-19285	Summary: There is an issue for the GridServer 7.2.0 startup on RHEL 10 machines due to the missing compatibility libraries for Apache

KEY	SUMMARY/WORKAROUND
	Tomcat Native. To resolve the Grid Server startup issue on RHEL 10, install the `libxcrypt-compat` package. This package provides the necessary compatibility library for the POSIX `crypt()` API. 1. Run the following command in your terminal: `sudo dnf install libxcrypt-compat` 2. After installing the package, start the Grid Server. The server starts successfully.
GS-17691	Summary: Task collection generates an excessive amount of logs at the FINE level.
GS-17647	Summary: On Windows Engines, the logs `engine-stderrxxx.log` and `engine-stdoutxxx.log` are not generated as expected.
GS-17646	Summary: If you use `DSConfigureOnStartup=true` in the `installation.properties` file to re-configure the server, it causes a Grid Cache problem. Grid Cache is not properly initialized after the server is up. For SSL server - Install SSL server using Silent installation mode - Install SSL server using UI installation mode (before installing an SSL server, a non-SSL server must not be installed)

Note:

For changing the non-SSL server to an SSL server, ensure that the Manager ID before and after reconfiguration is the same. You must manually enter the old server ID during configuration. For the non-SSL server (for converting a Broker to a Director or from Director to a Broker).

- Ensure that the Manager ID before and after reconfiguration is the same. You must manually enter the old server ID during configuration. For an already running server 1. Purge the offline Broker from Grid Components > Broker Admin. 2. Stop the server.

1. Go to `DS_DATA/cache` and delete the `old_offline_broker_` `id.broker` file.
2. Start the server.

Services

KEY	SUMMARY
GS-17423	Summary Service Priority Changed Event is not captured through Kafka Event Streaming.

TIBCO Documentation and Support Services

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- To create a Support case, you must have a valid maintenance or support contract with a Cloud Software Group entity. You also need a username and password to log in to the product Support website. If you do not have a username, you can request one by clicking Register on the website.
- To submit ideas, suggestions, or feedback for TIBCO products, visit our product Support website.

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New Features

The following features have been added in this release of TIBCO DataSynapse GridServer® Manager:

Release Type & Core Support

Long-Term Support (LTS) Support

DataSynapse GridServer® Manager 7.2.0 is a LTS Release. For more information about the DataSynapse GridServer® Manager LTS Support, see TIBCO LTS Policy.

Azul OpenJDK Integration

Azul Java 17.0.12 is now fully supported across all GridServer components.

Note:

Oracle Java 17 is the default Engine JRE for Win64 and Linux64.

- When running the Engine on Azul Java 17 you need to configure specific JVM parameters for the Engine and Driver Software Development Kit (SDK) components. Grid-library support is available for Linux 64-bit and Windows 64-bit.
- No installation or configuration changes are required for the Broker and Manager to support Azul OpenJDK 17.

Apache Tomcat® Upgrade

The bundled Apache Tomcat server has been upgraded to version 9.0.113.

Platform, Component, & Compiler Upgrades

Additional Platform Support

DataSynapse GridServer® Manager 7.2.0 is now supported on Rocky Linux 10, Red Hat Enterprise Linux (RHEL) 10, and Windows Server 2025.

Component Upgrades

To ensure optimal security and performance, the following third-party dependencies have been upgraded:

- Python 3.10.6 applies to Python Bridge, drivers, and associated examples.
- .NET 8
- OpenSSL 3.0.14

New Compiler Support

Integration for modern compilers has been added to leverage the latest features and optimizations for third-party libraries. This includes GCC 11.5 for Linux and VC17 for Windows. For the updated list of supported TIBCO Software, platforms, and third-party software, see the Readme file provided with TIBCO DataSynapse GridServer® Manager.

High Availability Enhancements

Secondary Director Acts as Primary

Failover reliability has been significantly enhanced. In the event of a Primary Director outage, the Secondary Director now automatically assumes the Primary role and can execute the following critical operations:

- Update Broker configurations (including modifying Broker sharing)
- Update Engine and Engine Daemon configurations
- Add new Brokers to the GridServer.
- Perform Grid Libraries Deployment
- Manage the Service Type Registry

Comprehensive REST API Additions

This release vastly expands the programmatic control by introducing new REST APIs that mirror functionalities previously only available through the user interface:

Broker Admin and Configuration

New APIs support all Broker Admin capabilities. A notable addition is the `updateBrokerConfigurationAPI`, enabling programmatic modifications to broker settings. Additionally, a `purge-broker` API has been introduced.

Broker Routing

The administrators can now list, add, delete, or update routing details by performing CRUD (Create, Read, Update, Delete) operations on broker routing properties.

Engine Configuration

You can now programmatically adjust Engine parameters and log levels without interacting with the user interface.

EngineDaemonAdmin

The offline Engine Daemons can be efficiently removed from the Director. This is specifically designed for automated daemon management in cloud environments characterized by frequent provisioning and de-provisioning.

Run-As Credential

You can programmatically retrieve a list of Run-As Credential users, as well as add or delete a Run-As credential user.

Added REST API for Manager Diagnostics Logs

Access a new programmatic method for fetching integration and troubleshooting data, including Manager Logs, Environment configurations, and Task Queues.

Service Logs and Service Admin

You can search service logs for specific service sessions to monitor instances and retrieve the `grid-library.xml` configuration file for designated grid libraries.

Added REST API for Service Test

A new endpoint allows users to trigger Linpack tests directly for the job admin scheduler.

User Interface (UI) Improvements

Altered Configuration Highlighting

A configuration row is highlighted if the value is altered after comparing it with the system's default value, allowing the administrators to identify easily customized settings.

Table Row Numbering

To improve data visibility and ease of navigation, row numbers have been added to tabular pages across the application. This includes, but is not limited to the following UI pages:

- Engine Daemons
- Engine Admin
- Service Types
- User Admin

Changes in Functionality

The following changes in functionality have been made in this release of TIBCO DataSynapse GridServer® Manager:

Windows Engine Deployment

DataSynapse GridServer® Manager 7.2.0 introduces a new installation process for the Windows Engine. This update provides a unified experience that mirrors the existing Linux Engine installation workflow. The Windows Engine installer is delivered as a `.tar.gz` archive. This packaging ensures consistent delivery across different operating systems. You can now manage engine installation and execution on Windows using a built-in command-line interface.

Updated Windows Runtime Dependencies

Updated the application runtime requirements by replacing legacy Visual C++ 2013 libraries (`msvcp120.dll`, `msvcr120.dll`) with Visual C++ 2015-2022 redistributables (`msvcp140.dll`, `vcruntime140.dll`). This change ensures full compatibility and optimized performance across modern environments, including Windows Server 2016 through Windows Server 2025.

Updated Build Tooling Requirements

In DataSynapse GridServer® Manager Software Development Kit (SDK), all the core C++ and .NET components are now bundled with Visual Code 16. However, to maintain developer flexibility, the provided SDK example projects continue to be bundled with Visual Code 15 build

configurations. You should ensure that the appropriate redistributables are installed for their target environment.

.NET Runtime Update

DataSynapse GridServer® Manager 7.2.0 introduces an upgrade to the underlying .NET runtime. The platform now supports .NET 8, moving from the previous .NET 6 version. This update affects both the .NET driver and the .NET bridge components. This ensures compatibility with the latest .NET framework. For details on changes in functionality since the last major release of this product, see the section Upgrading GridServer in the TIBCO DataSynapse GridServer® Manager Installation Guide.

Deprecated and Removed Features

The following feature has been deprecated or removed as of this release of TIBCO DataSynapse GridServer® Manager:

Removed Features

Removed Support for 32-bit Artifacts

DataSynapse GridServer® Manager 7.2.0 no longer supports 32-bit artifacts. This change impacts Windows (Win32) and Linux platforms.

Removed Support for SOAP APIs

The SOAP API functionality has been deprecated and so the support for SOAP API is removed from the Gridserver. The following table lists the removed SOAP APIs and their corresponding REST API replacements: | SOAP API | REST API | | --- | --- | | com.datasynapse.gridserver.admin.BatchAdmin | com.datasynapse.gridserver.rest.BatchAdmin. | | com.datasynapse.gridserver.admin.BrokerAdmin | com.datasynapse.gridserver.rest.BrokerAdmin | | com.datasynapse.gridserver.admin.DriverAdmin | com.datasynapse.gridserver.rest.DriverAdmin | | com.datasynapse.gridserver.admin.EngineAdmin | com.datasynapse.gridserver.rest.EngineAdmin | | com.datasynapse.gridserver.admin.EngineDaemonAdmin | com.datasynapse.gridserver.rest.EngineDaemonAdmin | | com.datasynapse.gridserver.admin.ManagerAdmin | com.datasynapse.gridserver.rest.ManagerAdmin | | com.datasynapse.gridserver.admin.ServiceAdmin | com.datasynapse.gridserver.rest.ServiceAdmin | | com.datasynapse.gridserver.admin.UserAdmin | com.datasynapse.gridserver.rest.UserAdmin | | com.datasynapse.webservices.gridserver.admin.BatchAdmin | com.datasynapse.webservices.gridserver.rest.BatchAdmin | |

com.datasynapse.webservices.gridserver.admin.BrokerAdmin |
com.datasynapse.webservices.gridserver.rest.BrokerAdmin | |
com.datasynapse.webservices.gridserver.admin.DriverAdmin |
com.datasynapse.webservices.gridserver.rest.DriverAdmin | |
com.datasynapse.webservices.gridserver.admin.EngineAdmin |
com.datasynapse.webservices.gridserver.rest.EngineAdmin | |
com.datasynapse.webservices.gridserver.admin.EngineDaemonAdmin |
com.datasynapse.webservices.gridserver.rest.EngineDaemonAdmin | |
com.datasynapse.webservices.gridserver.admin.ManagerAdmin |
com.datasynapse.webservices.gridserver.rest.ManagerAdmin | |
com.datasynapse.webservices.gridserver.admin.ServiceAdmin |
com.datasynapse.webservices.gridserver.rest.ServiceAdmin | |
com.datasynapse.webservices.gridserver.admin.UserAdmin |
com.datasynapse.webservices.gridserver.rest.UserAdmin |

Migration and Compatibility

The following information provides migration procedures and a compatibility matrix for this release of TIBCO DataSynapse GridServer® Manager:

.NET Runtime Update

In DataSynapse GridServer® Manager 7.2.0, the underlying .NET runtime has been upgraded from .NET 6 to .NET 8. This update affects both the .NET driver and the .NET bridge components. There is no change to the configured serviceType. The value NET5 continues to be used for .NET-based services and remains valid. Internally, it now targets .NET 8. Ensure that your application code, libraries, and dependencies are compatible with .NET 8. Projects must be recompiled to guarantee compatibility and runtime stability. For details on how to migrate from a previous release to the current release, see the section Upgrading GridServer in the TIBCO GridServer® Installation Guide.

Closed Issues

The following issues have been fixed in this release of TIBCO DataSynapse GridServer® Manager:

C++ Specific

KEY	SUMMARY
GS-17793	The OpenSSL library requires an updated version 3.x.

Documentation

KEY	SUMMARY
GS-15287	C++ API documentation is not consistent with the Java API documentation . In the Java API, `Service` and `ServiceInvocationHandler` methods consistently return an `invocation ID`. However, the C++ API documentation used varying terms, including handler id, id, service id, and invocation id (new invocation id)'.

Drivers-All

KEY	SUMMARY
GS-18964	There is an issue where the DSDriver in GridServer 7.1.0 would overwrite the Root Logger level settings of integrated Java applications. The `driver.properties` file often defaulted to a Finest logging level, which caused rapid disk storage consumption. the `DSLogLevelOverWritten` parameter If the GridServer application is integrated within another Java application and you want to prevent the overwriting of Root Logger level setting with GridServer Log Level setting, then set The `DSLogLevelOverWritten` parameter is introduced to prevent the GridServer Log Level setting from overwriting the Root Logger level setting. When you set this parameter to `false`, the DataSynapse Logger does not change the Root Logger level. When you set the `DSLogLevelOverWritten` parameter to

KEY	SUMMARY
	`false`, the DataSynapse Logger does not change the Root Logger level.
GS-16447	A security vulnerability is identified in the driver's internal web server ports. This issue involved an XSS vulnerability in the driver when you access the driver's file sharing port through HTTP.

Engine

KEY	SUMMARY
GS-19271	You must install the required Visual C++ Redistributable libraries as a prerequisite for Engine installation. The legacy Visual C++ 2013 runtime DLLs (`msvcp120.dll`, `msvcr120.dll`) are replaced with Visual C++ 2016 and later runtime DLLs (`msvcp140.dll`, `vcruntime140.dll`).
GS-19242	The Python example of Linux64 failed to run. A Python `ServiceInvocationException` is observed with the message, `Task failed after 3 retries. Last failure: Engine crashed`. This issue occurs when setting up a combo server, configuring the linux64 engine, extracting the linux64 SDK, and running the Python example after exporting `LD_` `LIBRARY_PATH` and PATH variables. To resolve this issue, changes were implemented to set correctly the `ds.PYTH_MODULE_PATH` environment variable. The `setManagerProperties` method called `addProperties` method now tracks whether the password is already encoded, preventing double encryption and the `Invalid` `Password` error.

KEY	SUMMARY
GS-18969	When the primary director is down, the secondary director becomes `Acting as Primary`. In such a case, the secondary director is not able to perform the following operations: - Update Broker configurations (change broker sharing) - Update Engine configuration - Update Engine Daemon configuration - Add a broker to the grid. - Perform Grid Libraries Deployment

Manager

KEY	SUMMARY
GS-18910	A new parameter needs to be added to handle Browser active session timeout.
GS-18844	When a single Driver submits multiple jobs, some jobs containing a large number of tasks could cause delays in the completion of other jobs with a smaller number of tasks. To mitigate this issue, a new configuration parameter, `Equal weight tasks dispatch` is introduced that ensures more equitable task dispatching. If a small job takes longer than the usual time to complete, then setting the `Equal weight tasks dispatch` parameter to `true` prevents delays in the completion of smaller jobs, even when a large job has many tasks. The default value of the `Equal weight tasks dispatch` parameter is `false`.
GS-18610	Critical and high-priority Common Vulnerabilities and Exposures (CVEs) detected in the Manager and Engine components are resolved. AngularJS updated version 1.8.3 enhances UI stability and security.

KEY	SUMMARY
GS-17648	You cannot assign a role to an LDAP user if no email is entered.
GS-17645	When changing a non-SSL server to an SSL server, the Manager (Broker) ID changes when re-configuring the server.

Note:

For changing the non-SSL server to an SSL server, ensure that the Manager ID before and after reconfiguration is the same. You must manually input the old server ID during configuration.

KEY	SUMMARY
GS-16590	In GridServer user interface (UI), if a value of the configuration row differs from the default value, then it highlights the altered configuration row with a distinct color.
GS-16589	In the GridServer user interface (UI), row numbers are displayed across all pages where data is presented in a tabular format.

Operating Systems

KEY	SUMMARY
GS-18794	Apache Tomcat should be upgraded to 9.0.113.
GS-18527	GridServer requires support for Rocky Linux 9.

REST API

KEY	SUMMARY
GS-19415	A new REST API is needed for adding, removing and fetching list of Run-As Credentials.

KEY	SUMMARY
GS-18618	New REST APIs are required to manage various engine configuration parameters. The new REST APIs are introduced that performs all operations available for the Engine Configuration tab. You can change the engine settings, such as log levels, through an automated interface.
GS-15890	Administrators had to remove manually offline daemon entries. With the new REST API methods, you can now purge offline daemons.

Security

KEY	SUMMARY
GS-18610	Critical and high-priority Common Vulnerabilities and Exposures (CVEs) detected in the Manager and Engine components are resolved. AngularJS updated version 1.8.3 enhances UI stability and security.

Services

KEY	SUMMARY
GS-19013	When you set the `Synchronize Resources to Engines` property to `false` under Admin > System Admin > Manager Configuration > Resource Deployment, the following error is displayed, Grid Library has not been deployed. Manually updating the Grid Libraries on the Engine side did not resolve this issue. The service would only run successfully if you set the `Synchronize Resources to Engines` property to true. This is resolved. The Manager can now find the Grid Library when the `Synchronize Resources to Engines` property is set to `false`.

Note:

When the `Synchronize Resources to Engines` property is set to `false` , the Grid Library must be placed manually along with the signature file `(.#extracted` file) under `<Engine_directory>/resources/gridlib/` `(default location)` or at the custom Grid Library path. The custom Grid Library path is the location of the Grid Libraries, set through Engine Configuration > Grid Library Path . This should only be set if not using Grid Library Synchronization.

Upgrade and Migration

KEY	SUMMARY
GS-17656	Access to internal JDK packages, which were previously available, is now restricted. So, in the Command-Line Argument in the Engine JVM section under Grid Components > Engine > Engine Configurations use the following parameters: `--add-``exports=java.desktop/com.sun.beans.editors=ALL-``UNNAMED` Select the engine configuration file based on your operating system.

Note:

This parameter is only necessary for Java 17. Do not include it for lower Java versions, such as Java 8 and Java 11.

Known Issues

This section lists known issues in this release of TIBCO DataSynapse GridServer® Manager:

Engine, Engine Daemon

KEY	SUMMARY/WORKAROUND
GS-19447	Summary: When you upgrade to GridServer (GS) 7.2.0, the `gcc34` and `gcc49` compilers are no longer supported. If you upgrade from an earlier GS version where you configured `gcc34` or `gcc49` as the Engine

KEY	SUMMARY/WORKAROUND
	GCC built version, the cached engine configuration may continue to reference an unsupported GCC version.

Workaround: Refresh the cached engine configuration on Linux engines by performing following steps:

1. Open the Engine Configuration UI in GS 7.2.0.
2. Change Engine GCC built version from `gcc83` to `gcc115`, then save the change.
3. Change Engine GCC built version from `gcc115` back to `gcc83`, then save the change again. This action forces the regeneration of the cached configuration. It also updates the `x4088.default` file under `engineDistros`.

KEY	SUMMARY
GS-19250	Summary: GridServer UI and SDK artifacts for .NET 8 are incorrectly named as .NET 5 artifacts.
GS-19127	Summary: Under Windows Authentication mode, GridServer may fail to restart after the LGPL JAR file is applied. HTTP Status `404-Not Found` error occurs on the Web UI. This occurs when the domain configuration is saved prior to the JAR deployment.
GS-17640	Summary: When move Engines from GridServer version 6.3.1_hotfix05 to GridServer version 7.1.0, sometimes the win32 and win64 Engines do not move to the GridServer 7.1.0 server. The server running is the SSL server using a self-signed certificate. 1. After the Engines are online on GridServer version 6.3.1, change the Primary Director URL from 631 to 710 in the Engine Configuration. 2. Check after some time (for example, 15 secs), the GridServer version 7.1.0 Primary Director URL reflects in the `engined.log` file and that the Engine is trying to connect to the GridServer version

KEY	SUMMARY
	7.1.0 server. 3. Then copy the GridServer version 7.1.0 certificates to the Engine directory.

Manager

KEY	SUMMARY/WORKAROUND
GS-19285	Summary: There is an issue for the GridServer 7.2.0 startup on RHEL 10 machines due to the missing compatibility libraries for Apache Tomcat Native. To resolve the Grid Server startup issue on RHEL 10, install the `libxcrypt-compat` package. This package provides the necessary compatibility library for the POSIX `crypt()` API. 1. Run the following command in your terminal: `sudo dnf install libxcrypt-compat` 2. After installing the package, start the Grid Server. The server starts successfully.
GS-17691	Summary: Task collection generates an excessive amount of logs at the FINE level.
GS-17647	Summary: On Windows Engines, the logs `engine-stderrxxx.log` and `engine-stdoutxxx.log` are not generated as expected.
GS-17646	Summary: If you use `DSConfigureOnStartup=true` in the `installation.properties` file to re-configure the server, it causes a Grid Cache problem. Grid Cache is not properly initialized after the server is up. For SSL server - Install SSL server using Silent installation mode - Install SSL server using UI installation mode (before installing an SSL server, a non-SSL server must not be installed)

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- Ensure that the Manager ID before and after reconfiguration is the same. You must manually enter the old server ID during configuration. For an already running server 1. Purge the offline Broker from Grid Components > Broker Admin. 2. Stop the server.

1. Go to `DS_DATA/cache` and delete the `old_offline_broker_` `id.broker` file.
2. Start the server.

Services

KEY	SUMMARY
GS-17423	Summary Service Priority Changed Event is not captured through Kafka Event Streaming.

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- To submit ideas, suggestions, or feedback for TIBCO products, visit our product Support website.

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Long-Term Support (LTS) Support

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Azul OpenJDK Integration

Azul Java 17.0.12 is now fully supported across all GridServer components.

Note:

Oracle Java 17 is the default Engine JRE for Win64 and Linux64.

- When running the Engine on Azul Java 17 you need to configure specific JVM parameters for the Engine and Driver Software Development Kit (SDK) components. Grid-library support is available for Linux 64-bit and Windows 64-bit.
- No installation or configuration changes are required for the Broker and Manager to support Azul OpenJDK 17.

Apache Tomcat® Upgrade

The bundled Apache Tomcat server has been upgraded to version 9.0.113.

Platform, Component, & Compiler Upgrades

Additional Platform Support

DataSynapse GridServer® Manager 7.2.0 is now supported on Rocky Linux 10, Red Hat Enterprise Linux (RHEL) 10, and Windows Server 2025.

Component Upgrades

To ensure optimal security and performance, the following third-party dependencies have been upgraded:

- Python 3.10.6 applies to Python Bridge, drivers, and associated examples.
- .NET 8
- OpenSSL 3.0.14

New Compiler Support

Integration for modern compilers has been added to leverage the latest features and optimizations for third-party libraries. This includes GCC 11.5 for Linux and VC17 for Windows. For the updated list of supported TIBCO Software, platforms, and third-party software, see the Readme file provided with TIBCO DataSynapse GridServer® Manager.

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This release vastly expands the programmatic control by introducing new REST APIs that mirror functionalities previously only available through the user interface:

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You can now programmatically adjust Engine parameters and log levels without interacting with the user interface.

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You can programmatically retrieve a list of Run-As Credential users, as well as add or delete a Run-As credential user.

Added REST API for Manager Diagnostics Logs

Access a new programmatic method for fetching integration and troubleshooting data, including Manager Logs, Environment configurations, and Task Queues.

Service Logs and Service Admin

You can search service logs for specific service sessions to monitor instances and retrieve the `grid-library.xml` configuration file for designated grid libraries.

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- Service Types
- User Admin

Changes in Functionality

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DataSynapse GridServer® Manager 7.2.0 introduces a new installation process for the Windows Engine. This update provides a unified experience that mirrors the existing Linux Engine installation workflow. The Windows Engine installer is delivered as a `.tar.gz` archive. This packaging ensures consistent delivery across different operating systems. You can now manage engine installation and execution on Windows using a built-in command-line interface.

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Updated the application runtime requirements by replacing legacy Visual C++ 2013 libraries (`msvcp120.dll`, `msvcr120.dll`) with Visual C++ 2015-2022 redistributables (`msvcp140.dll`, `vcruntime140.dll`). This change ensures full compatibility and optimized performance across modern environments, including Windows Server 2016 through Windows Server 2025.

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The following feature has been deprecated or removed as of this release of TIBCO DataSynapse GridServer® Manager:

Removed Features

Removed Support for 32-bit Artifacts

DataSynapse GridServer® Manager 7.2.0 no longer supports 32-bit artifacts. This change impacts Windows (Win32) and Linux platforms.

Removed Support for SOAP APIs

The SOAP API functionality has been deprecated and so the support for SOAP API is removed from the Gridserver. The following table lists the removed SOAP APIs and their corresponding REST API replacements: | SOAP API | REST API | | --- | --- | | com.datasynapse.gridserver.admin.BatchAdmin | com.datasynapse.gridserver.rest.BatchAdmin. | | com.datasynapse.gridserver.admin.BrokerAdmin | com.datasynapse.gridserver.rest.BrokerAdmin | | com.datasynapse.gridserver.admin.DriverAdmin | com.datasynapse.gridserver.rest.DriverAdmin | | com.datasynapse.gridserver.admin.EngineAdmin | com.datasynapse.gridserver.rest.EngineAdmin | | com.datasynapse.gridserver.admin.EngineDaemonAdmin | com.datasynapse.gridserver.rest.EngineDaemonAdmin | | com.datasynapse.gridserver.admin.ManagerAdmin | com.datasynapse.gridserver.rest.ManagerAdmin | | com.datasynapse.gridserver.admin.ServiceAdmin | com.datasynapse.gridserver.rest.ServiceAdmin | | com.datasynapse.gridserver.admin.UserAdmin | com.datasynapse.gridserver.rest.UserAdmin | | com.datasynapse.webservices.gridserver.admin.BatchAdmin | com.datasynapse.webservices.gridserver.rest.BatchAdmin | | com.datasynapse.webservices.gridserver.admin.BrokerAdmin | com.datasynapse.webservices.gridserver.rest.BrokerAdmin | | com.datasynapse.webservices.gridserver.admin.DriverAdmin | com.datasynapse.webservices.gridserver.rest.DriverAdmin | | com.datasynapse.webservices.gridserver.admin.EngineAdmin | com.datasynapse.webservices.gridserver.rest.EngineAdmin | | com.datasynapse.webservices.gridserver.admin.EngineDaemonAdmin | com.datasynapse.webservices.gridserver.rest.EngineDaemonAdmin | | com.datasynapse.webservices.gridserver.admin.ManagerAdmin | com.datasynapse.webservices.gridserver.rest.ManagerAdmin | | com.datasynapse.webservices.gridserver.admin.ServiceAdmin | com.datasynapse.webservices.gridserver.rest.ServiceAdmin | | com.datasynapse.webservices.gridserver.admin.UserAdmin | com.datasynapse.webservices.gridserver.rest.UserAdmin |

Migration and Compatibility

The following information provides migration procedures and a compatibility matrix for this release of TIBCO DataSynapse GridServer® Manager:

.NET Runtime Update

In DataSynapse GridServer® Manager 7.2.0, the underlying .NET runtime has been upgraded from .NET 6 to .NET 8. This update affects both the .NET driver and the .NET bridge components. There is no change to the configured serviceType. The value NET5 continues to be used for .NET-based services and remains valid. Internally, it now targets .NET 8. Ensure that your application code, libraries, and dependencies are compatible with .NET 8. Projects must be recompiled to guarantee compatibility and runtime stability. For details on how to migrate from a previous release to the current release, see the section Upgrading GridServer in the TIBCO GridServer® Installation Guide.

Closed Issues

The following issues have been fixed in this release of TIBCO DataSynapse GridServer® Manager:

C++ Specific

KEY	SUMMARY
GS-17793	The OpenSSL library requires an updated version 3.x.

Documentation

KEY	SUMMARY
GS-15287	C++ API documentation is not consistent with the Java API documentation . In the Java API, `Service` and `ServiceInvocationHandler` methods consistently return an `invocation ID`. However, the C++ API documentation used varying terms, including handler id, id, service id, and invocation id (new invocation id)'.

Drivers-All

KEY	SUMMARY
GS-18964	There is an issue where the DSDriver in GridServer 7.1.0 would overwrite the Root Logger level settings of integrated Java applications. The `driver.properties` file often defaulted to a Finest logging level, which caused rapid disk storage consumption. the `DSLogLevelOverWritten` parameter If the GridServer application is integrated within another Java application and you want to prevent the overwriting of Root Logger level setting with GridServer Log Level setting, then set The `DSLogLevelOverWritten` parameter is introduced to prevent the GridServer Log Level setting from overwriting the Root Logger level setting. When you set this parameter to `false`, the DataSynapse Logger does not change the Root Logger level. When you set the `DSLogLevelOverWritten` parameter to `false`, the DataSynapse Logger does not change the Root Logger level.
GS-16447	A security vulnerability is identified in the driver's internal web server ports. This issue involved an XSS vulnerability in the driver when you access the driver's file sharing port through HTTP.

Engine

KEY	SUMMARY
GS-19271	You must install the required Visual C++ Redistributable libraries as a prerequisite for Engine installation. The legacy Visual C++ 2013 runtime DLLs (`msvcp120.dll`, `msvcr120.dll`) are replaced with Visual C++ 2016 and later runtime DLLs (`msvcp140.dll`, `vcruntime140.dll`).

KEY	SUMMARY
GS-19242	The Python example of Linux64 failed to run. A Python `ServiceInvocationException` is observed with the message, `Task failed after 3 retries. Last failure: Engine crashed`. This issue occurs when setting up a combo server, configuring the linux64 engine, extracting the linux64 SDK, and running the Python example after exporting `LD_` `LIBRARY_PATH` and PATH variables. To resolve this issue, changes were implemented to set correctly the `ds.PYTH_MODULE_PATH` environment variable. The `setManagerProperties` method called `addProperties` method now tracks whether the password is already encoded, preventing double encryption and the `Invalid` `Password` error.
GS-18969	When the primary director is down, the secondary director becomes `Acting as Primary`. In such a case, the secondary director is not able to perform the following operations: - Update Broker configurations (change broker sharing) - Update Engine configuration - Update Engine Daemon configuration - Add a broker to the grid. - Perform Grid Libraries Deployment

Manager

KEY	SUMMARY
GS-18910	A new parameter needs to be added to handle Browser active session timeout.
GS-18844	When a single Driver submits multiple jobs, some jobs containing a large number of tasks could cause delays in the completion of other jobs with a smaller number of tasks. To mitigate this issue, a new configuration

KEY	SUMMARY
	parameter, `Equal weight tasks dispatch` is introduced that ensures more equitable task dispatching. If a small job takes longer than the usual time to complete, then setting the `Equal weight tasks dispatch` parameter to `true` prevents delays in the completion of smaller jobs, even when a large job has many tasks. The default value of the `Equal weight tasks dispatch` parameter is `false`.
GS-18610	Critical and high-priority Common Vulnerabilities and Exposures (CVEs) detected in the Manager and Engine components are resolved. AngularJS updated version 1.8.3 enhances UI stability and security.
GS-17648	You cannot assign a role to an LDAP user if no email is entered.
GS-17645	When changing a non-SSL server to an SSL server, the Manager (Broker) ID changes when re-configuring the server.

Note:

For changing the non-SSL server to an SSL server, ensure that the Manager ID before and after reconfiguration is the same. You must manually input the old server ID during configuration.

KEY	SUMMARY
GS-16590	In GridServer user interface (UI), if a value of the configuration row differs from the default value, then it highlights the altered configuration row with a distinct color.
GS-16589	In the GridServer user interface (UI), row numbers are displayed across all pages where data is presented in a tabular format.

Operating Systems

KEY	SUMMARY
GS-18794	Apache Tomcat should be upgraded to 9.0.113.
GS-18527	GridServer requires support for Rocky Linux 9.

REST API

KEY	SUMMARY
GS-19415	A new REST API is needed for adding, removing and fetching list of Run-As Credentials.
GS-18618	New REST APIs are required to manage various engine configuration parameters. The new REST APIs are introduced that performs all operations available for the Engine Configuration tab. You can change the engine settings, such as log levels, through an automated interface.
GS-15890	Administrators had to remove manually offline daemon entries. With the new REST API methods, you can now purge offline daemons.

Security

KEY	SUMMARY
GS-18610	Critical and high-priority Common Vulnerabilities and Exposures (CVEs) detected in the Manager and Engine components are resolved. AngularJS updated version 1.8.3 enhances UI stability and security.

Services

KEY	SUMMARY
GS-19013	When you set the `Synchronize Resources to Engines` property to `false` under Admin > System Admin > Manager Configuration > Resource Deployment, the following error is displayed, Grid Library has not been deployed. Manually updating the Grid Libraries on the Engine side did not resolve this issue. The service would only run successfully if you set the `Synchronize Resources to Engines` property to true. This is resolved. The Manager can now find the Grid Library when the `Synchronize Resources to Engines` property is set to `false`.

Note:

When the `Synchronize Resources to Engines` property is set to `false` , the Grid Library must be placed manually along with the signature file `(.#extracted` file) under `<Engine_directory>/resources/gridlib/` `(default location)` or at the custom Grid Library path. The custom Grid Library path is the location of the Grid Libraries, set through Engine Configuration > Grid Library Path . This should only be set if not using Grid Library Synchronization.

Upgrade and Migration

KEY	SUMMARY
GS-17656	Access to internal JDK packages, which were previously available, is now restricted. So, in the Command-Line Argument in the Engine JVM section under Grid Components > Engine > Engine Configurations use the following parameters: `--add-``exports=java.desktop/com.sun.beans.editors=ALL-``UNNAMED` Select the engine configuration file based on your operating system.

Note:

This parameter is only necessary for Java 17. Do not include it for lower Java versions, such as Java 8 and Java 11.

Known Issues

This section lists known issues in this release of TIBCO DataSynapse GridServer® Manager:

Engine, Engine Daemon

KEY	SUMMARY/WORKAROUND
GS-19447	Summary: When you upgrade to GridServer (GS) 7.2.0, the `gcc34` and `gcc49` compilers are no longer supported. If you upgrade from an earlier GS version where you configured `gcc34` or `gcc49` as the Engine GCC built version, the cached engine configuration may continue to reference an unsupported GCC version.

Workaround: Refresh the cached engine configuration on Linux engines by performing following steps:

1. Open the Engine Configuration UI in GS 7.2.0.
2. Change Engine GCC built version from `gcc83` to `gcc115`, then save the change.
3. Change Engine GCC built version from `gcc115` back to `gcc83`, then save the change again. This action forces the regeneration of the cached configuration. It also updates the `x4088.default` file under `engineDistros`.

KEY	SUMMARY
GS-19250	Summary: GridServer UI and SDK artifacts for .NET 8 are incorrectly named as .NET 5 artifacts.
GS-19127	Summary: Under Windows Authentication mode, GridServer may fail to restart after the LGPL JAR file is applied. HTTP Status `404–Not Found` error occurs on the Web UI. This

KEY	SUMMARY
	occurs when the domain configuration is saved prior to the JAR deployment.
GS-17640	Summary: When move Engines from GridServer version 6.3.1_hotfix05 to GridServer version 7.1.0, sometimes the win32 and win64 Engines do not move to the GridServer 7.1.0 server. The server running is the SSL server using a self-signed certificate. 1. After the Engines are online on GridServer version 6.3.1, change the Primary Director URL from 631 to 710 in the Engine Configuration. 2. Check after some time (for example, 15 secs), the GridServer version 7.1.0 Primary Director URL reflects in the `engined.log` file and that the Engine is trying to connect to the GridServer version 7.1.0 server. 3. Then copy the GridServer version 7.1.0 certificates to the Engine directory.

Manager

KEY	SUMMARY/WORKAROUND
GS-19285	Summary: There is an issue for the GridServer 7.2.0 startup on RHEL 10 machines due to the missing compatibility libraries for Apache Tomcat Native. To resolve the Grid Server startup issue on RHEL 10, install the `libxcrypt-compat` package. This package provides the necessary compatibility library for the POSIX `crypt()` API. 1. Run the following command in your terminal: `sudo dnf install libxcrypt-compat` 2. After installing the package, start the Grid Server. The server starts successfully.
GS-17691	Summary: Task collection generates an excessive amount of logs at the FINE level.

KEY	SUMMARY/WORKAROUND
GS-17647	Summary: On Windows Engines, the logs `engine-stderrxxx.log` and `engine-stdoutxxx.log` are not generated as expected.
GS-17646	Summary: If you use `DSConfigureOnStartup=true` in the `installation.properties` file to re-configure the server, it causes a Grid Cache problem. Grid Cache is not properly initialized after the server is up. For SSL server - Install SSL server using Silent installation mode - Install SSL server using UI installation mode (before installing an SSL server, a non-SSL server must not be installed)

Note:

For changing the non-SSL server to an SSL server, ensure that the Manager ID before and after reconfiguration is the same. You must manually enter the old server ID during configuration. For the non-SSL server (for converting a Broker to a Director or from Director to a Broker).

- Ensure that the Manager ID before and after reconfiguration is the same. You must manually enter the old server ID during configuration. For an already running server 1. Purge the offline Broker from Grid Components > Broker Admin. 2. Stop the server.

1. Go to `DS_DATA/cache` and delete the `old_offline_broker_` `id.broker` file.
2. Start the server.

Services

KEY	SUMMARY
GS-17423	Summary Service Priority Changed Event is not captured through Kafka Event Streaming.

TIBCO Documentation and Support Services

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

How to Access TIBCO Documentation

Documentation for TIBCO products is available on the Product Documentation website, mainly in HTML and PDF formats. The Product Documentation website is updated frequently and is more current than any other documentation included with the product.

Product-Specific Documentation

Documentation for TIBCO DataSynapse GridServer® Manager is available on the TIBCO DataSynapse GridServer® Manager Product Documentation page.

How to Contact Support for TIBCO Products

You can contact the Support team in the following ways:

- To access the Support Knowledge Base and getting personalized content about products you are interested in, visit our product Support website.
- To create a Support case, you must have a valid maintenance or support contract with a Cloud Software Group entity. You also need a username and password to log in to the product Support website. If you do not have a username, you can request one by clicking Register on the website.
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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. For a free registration, go to TIBCO Community.

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New Features

The following features have been added in this release of TIBCO DataSynapse GridServer® Manager:

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The SOAP API functionality has been deprecated and so the support for SOAP API is removed from the Gridserver. The following table lists the removed SOAP APIs and their corresponding REST API replacements: | SOAP API | REST API | | --- | --- | | com.datasynapse.gridserver.admin.BatchAdmin | com.datasynapse.gridserver.rest.BatchAdmin. | | com.datasynapse.gridserver.admin.BrokerAdmin | com.datasynapse.gridserver.rest.BrokerAdmin | | com.datasynapse.gridserver.admin.DriverAdmin | com.datasynapse.gridserver.rest.DriverAdmin | | com.datasynapse.gridserver.admin.EngineAdmin | com.datasynapse.gridserver.rest.EngineAdmin | | com.datasynapse.gridserver.admin.EngineDaemonAdmin | com.datasynapse.gridserver.rest.EngineDaemonAdmin | | com.datasynapse.gridserver.admin.ManagerAdmin | com.datasynapse.gridserver.rest.ManagerAdmin | | com.datasynapse.gridserver.admin.ServiceAdmin | com.datasynapse.gridserver.rest.ServiceAdmin | | com.datasynapse.gridserver.admin.UserAdmin | com.datasynapse.gridserver.rest.UserAdmin | | com.datasynapse.webservices.gridserver.admin.BatchAdmin | com.datasynapse.webservices.gridserver.rest.BatchAdmin | | com.datasynapse.webservices.gridserver.admin.BrokerAdmin | com.datasynapse.webservices.gridserver.rest.BrokerAdmin | | com.datasynapse.webservices.gridserver.admin.DriverAdmin | com.datasynapse.webservices.gridserver.rest.DriverAdmin | | com.datasynapse.webservices.gridserver.admin.EngineAdmin | com.datasynapse.webservices.gridserver.rest.EngineAdmin | | com.datasynapse.webservices.gridserver.admin.EngineDaemonAdmin | com.datasynapse.webservices.gridserver.rest.EngineDaemonAdmin | | com.datasynapse.webservices.gridserver.admin.ManagerAdmin | com.datasynapse.webservices.gridserver.rest.ManagerAdmin | | com.datasynapse.webservices.gridserver.admin.ServiceAdmin |

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Migration and Compatibility

The following information provides migration procedures and a compatibility matrix for this release of TIBCO DataSynapse GridServer® Manager:

.NET Runtime Update

In DataSynapse GridServer® Manager 7.2.0, the underlying .NET runtime has been upgraded from .NET 6 to .NET 8. This update affects both the .NET driver and the .NET bridge components. There is no change to the configured serviceType. The value NET5 continues to be used for .NET-based services and remains valid. Internally, it now targets .NET 8. Ensure that your application code, libraries, and dependencies are compatible with .NET 8. Projects must be recompiled to guarantee compatibility and runtime stability. For details on how to migrate from a previous release to the current release, see the section Upgrading GridServer in the TIBCO GridServer® Installation Guide.

Closed Issues

The following issues have been fixed in this release of TIBCO DataSynapse GridServer® Manager:

C++ Specific

KEY	SUMMARY
GS-17793	The OpenSSL library requires an updated version 3.x.

Documentation

KEY	SUMMARY
GS-15287	C++ API documentation is not consistent with the Java API documentation . In the Java API, `Service` and `ServiceInvocationHandler` methods consistently return an `invocation ID`. However, the C++ API documentation

KEY	SUMMARY
	used varying terms, including handler id, id, service id, and invocation id (new invocation id)'.

Drivers-All

KEY	SUMMARY
GS-18964	There is an issue where the DSDriver in GridServer 7.1.0 would overwrite the Root Logger level settings of integrated Java applications. The `driver.properties` file often defaulted to a Finest logging level, which caused rapid disk storage consumption. the `DSLogLevelOverWritten` parameter If the GridServer application is integrated within another Java application and you want to prevent the overwriting of Root Logger level setting with GridServer Log Level setting, then set The `DSLogLevelOverWritten` parameter is introduced to prevent the GridServer Log Level setting from overwriting the Root Logger level setting. When you set this parameter to `false`, the DataSynapse Logger does not change the Root Logger level. When you set the `DSLogLevelOverWritten` parameter to `false`, the DataSynapse Logger does not change the Root Logger level.
GS-16447	A security vulnerability is identified in the driver's internal web server ports. This issue involved an XSS vulnerability in the driver when you access the driver's file sharing port through HTTP.

Engine

KEY	SUMMARY
GS-19271	You must install the required Visual C++ Redistributable libraries as a prerequisite for Engine installation. The legacy Visual C++ 2013 runtime DLLs (`msvcp120.dll` , `msvcr120.dll`) are replaced with Visual C++ 2016 and later runtime DLLs (`msvcp140.dll` , `vcruntime140.dll`).
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GS-18969	When the primary director is down, the secondary director becomes `Acting as Primary` . In such a case, the secondary director is not able to perform the following operations: - Update Broker configurations (change broker sharing) - Update Engine configuration - Update Engine Daemon configuration - Add a broker to the grid. - Perform Grid Libraries Deployment

Manager

KEY	SUMMARY
GS-18910	A new parameter needs to be added to handle Browser active session timeout.
GS-18844	When a single Driver submits multiple jobs, some jobs containing a large number of tasks could cause delays in the completion of other jobs with a smaller number of tasks. To mitigate this issue, a new configuration parameter, `Equal weight tasks dispatch` is introduced that ensures more equitable task dispatching. If a small job takes longer than the usual time to complete, then setting the `Equal weight tasks dispatch` parameter to `true` prevents delays in the completion of smaller jobs, even when a large job has many tasks. The default value of the `Equal weight tasks dispatch` parameter is `false`.
GS-18610	Critical and high-priority Common Vulnerabilities and Exposures (CVEs) detected in the Manager and Engine components are resolved. AngularJS updated version 1.8.3 enhances UI stability and security.
GS-17648	You cannot assign a role to an LDAP user if no email is entered.
GS-17645	When changing a non-SSL server to an SSL server, the Manager (Broker) ID changes when re-configuring the server.

Note:

For changing the non-SSL server to an SSL server, ensure that the Manager ID before and after reconfiguration is the same. You must manually input the old server ID during configuration.

KEY	SUMMARY
GS-16590	In GridServer user interface (UI), if a value of the configuration row differs from the default value, then it highlights the altered configuration row with a distinct color.
GS-16589	In the GridServer user interface (UI), row numbers are displayed across all pages where data is presented in a tabular format.

Operating Systems

KEY	SUMMARY
GS-18794	Apache Tomcat should be upgraded to 9.0.113.
GS-18527	GridServer requires support for Rocky Linux 9.

REST API

KEY	SUMMARY
GS-19415	A new REST API is needed for adding, removing and fetching list of Run-As Credentials.
GS-18618	New REST APIs are required to manage various engine configuration parameters. The new REST APIs are introduced that performs all operations available for the Engine Configuration tab. You can change the engine settings, such as log levels, through an automated interface.
GS-15890	Administrators had to remove manually offline daemon entries. With the new REST API methods, you can now purge offline daemons.

Security

KEY	SUMMARY
GS-18610	Critical and high-priority Common Vulnerabilities and Exposures (CVEs) detected in the Manager and Engine components are resolved. AngularJS updated version 1.8.3 enhances UI stability and security.

Services

KEY	SUMMARY
GS-19013	When you set the `Synchronize Resources to Engines` property to `false` under Admin > System Admin > Manager Configuration > Resource Deployment, the following error is displayed, Grid Library has not been deployed. Manually updating the Grid Libraries on the Engine side did not resolve this issue. The service would only run successfully if you set the `Synchronize Resources to Engines` property to true. This is resolved. The Manager can now find the Grid Library when the `Synchronize Resources to Engines` property is set to `false`.

Note:

When the `Synchronize Resources to Engines` property is set to `false` , the Grid Library must be placed manually along with the signature file `(.#extracted` file) under `<Engine_directory>/resources/gridlib/` `(default location)` or at the custom Grid Library path. The custom Grid Library path is the location of the Grid Libraries, set through Engine Configuration > Grid Library Path . This should only be set if not using Grid Library Synchronization.

Upgrade and Migration

KEY	SUMMARY
GS-17656	Access to internal JDK packages, which were previously available, is now restricted. So, in the Command-Line Argument in the Engine JVM section under Grid Components > Engine > Engine Configurations use the following parameters: `--add-``exports=java.desktop/com.sun.beans.editors=ALL-``UNNAMED` Select the engine configuration file based on your operating system.

Note:

This parameter is only necessary for Java 17. Do not include it for lower Java versions, such as Java 8 and Java 11.

Known Issues

This section lists known issues in this release of TIBCO DataSynapse GridServer® Manager:

Engine, Engine Daemon

KEY	SUMMARY/WORKAROUND
GS-19447	Summary: When you upgrade to GridServer (GS) 7.2.0, the `gcc34` and `gcc49` compilers are no longer supported. If you upgrade from an earlier GS version where you configured `gcc34` or `gcc49` as the Engine GCC built version, the cached engine configuration may continue to reference an unsupported GCC version.

Workaround: Refresh the cached engine configuration on Linux engines by performing following steps:

1. Open the Engine Configuration UI in GS 7.2.0.
2. Change Engine GCC built version from `gcc83` to `gcc115`, then save the change.

3. Change Engine GCC built version from `gcc115` back to `gcc83`, then save the change again. This action forces the regeneration of the cached configuration. It also updates the `x4088.default` file under `engineDistros`.

KEY	SUMMARY
GS-19250	Summary: GridServer UI and SDK artifacts for .NET 8 are incorrectly named as .NET 5 artifacts.
GS-19127	Summary: Under Windows Authentication mode, GridServer may fail to restart after the LGPL JAR file is applied. HTTP Status `404–Not Found` error occurs on the Web UI. This occurs when the domain configuration is saved prior to the JAR deployment.
GS-17640	Summary: When move Engines from GridServer version 6.3.1_hotfix05 to GridServer version 7.1.0, sometimes the win32 and win64 Engines do not move to the GridServer 7.1.0 server. The server running is the SSL server using a self-signed certificate. 1. After the Engines are online on GridServer version 6.3.1, change the Primary Director URL from 631 to 710 in the Engine Configuration. 2. Check after some time (for example, 15 secs), the GridServer version 7.1.0 Primary Director URL reflects in the `engined.log` file and that the Engine is trying to connect to the GridServer version 7.1.0 server. 3. Then copy the GridServer version 7.1.0 certificates to the Engine directory.

Manager

KEY	SUMMARY/WORKAROUND
GS-19285	Summary: There is an issue for the GridServer 7.2.0 startup on RHEL 10 machines due to the missing compatibility libraries for Apache

KEY	SUMMARY/WORKAROUND
	Tomcat Native. To resolve the Grid Server startup issue on RHEL 10, install the `libxcrypt-compat` package. This package provides the necessary compatibility library for the POSIX `crypt()` API. 1. Run the following command in your terminal: `sudo dnf install libxcrypt-compat` 2. After installing the package, start the Grid Server. The server starts successfully.
GS-17691	Summary: Task collection generates an excessive amount of logs at the FINE level.
GS-17647	Summary: On Windows Engines, the logs `engine-stderrxxx.log` and `engine-stdoutxxx.log` are not generated as expected.
GS-17646	Summary: If you use `DSConfigureOnStartup=true` in the `installation.properties` file to re-configure the server, it causes a Grid Cache problem. Grid Cache is not properly initialized after the server is up. For SSL server - Install SSL server using Silent installation mode - Install SSL server using UI installation mode (before installing an SSL server, a non-SSL server must not be installed)

Note:

For changing the non-SSL server to an SSL server, ensure that the Manager ID before and after reconfiguration is the same. You must manually enter the old server ID during configuration. For the non-SSL server (for converting a Broker to a Director or from Director to a Broker).

- Ensure that the Manager ID before and after reconfiguration is the same. You must manually enter the old server ID during configuration. For an already running server 1. Purge the offline Broker from Grid Components > Broker Admin. 2. Stop the server.

1. Go to `DS_DATA/cache` and delete the `old_offline_broker_` `id.broker` file.
2. Start the server.

Services

KEY	SUMMARY
GS-17423	Summary Service Priority Changed Event is not captured through Kafka Event Streaming.

TIBCO Documentation and Support Services

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

How to Access TIBCO Documentation

Documentation for TIBCO products is available on the Product Documentation website, mainly in HTML and PDF formats. The Product Documentation website is updated frequently and is more current than any other documentation included with the product.

Product-Specific Documentation

Documentation for TIBCO DataSynapse GridServer® Manager is available on the TIBCO DataSynapse GridServer® Manager Product Documentation page.

How to Contact Support for TIBCO Products

You can contact the Support team in the following ways:

- To access the Support Knowledge Base and getting personalized content about products you are interested in, visit our product Support website.
- To create a Support case, you must have a valid maintenance or support contract with a Cloud Software Group entity. You also need a username and password to log in to the product Support website. If you do not have a username, you can request one by clicking Register on the website.
- To submit ideas, suggestions, or feedback for TIBCO products, visit our product Support website.

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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. For a free registration, go to TIBCO Community.

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New Features

The following features have been added in this release of TIBCO DataSynapse GridServer® Manager:

Release Type & Core Support

Long-Term Support (LTS) Support

DataSynapse GridServer® Manager 7.2.0 is a LTS Release. For more information about the DataSynapse GridServer® Manager LTS Support, see TIBCO LTS Policy.

Azul OpenJDK Integration

Azul Java 17.0.12 is now fully supported across all GridServer components.

Note:

Oracle Java 17 is the default Engine JRE for Win64 and Linux64.

- When running the Engine on Azul Java 17 you need to configure specific JVM parameters for the Engine and Driver Software Development Kit (SDK) components. Grid-library support is available for Linux 64-bit and Windows 64-bit.
- No installation or configuration changes are required for the Broker and Manager to support Azul OpenJDK 17.

Apache Tomcat® Upgrade

The bundled Apache Tomcat server has been upgraded to version 9.0.113.

Platform, Component, & Compiler Upgrades

Additional Platform Support

DataSynapse GridServer® Manager 7.2.0 is now supported on Rocky Linux 10, Red Hat Enterprise Linux (RHEL) 10, and Windows Server 2025.

Component Upgrades

To ensure optimal security and performance, the following third-party dependencies have been upgraded:

- Python 3.10.6 applies to Python Bridge, drivers, and associated examples.
- .NET 8
- OpenSSL 3.0.14

New Compiler Support

Integration for modern compilers has been added to leverage the latest features and optimizations for third-party libraries. This includes GCC 11.5 for Linux and VC17 for Windows. For the updated list of supported TIBCO Software, platforms, and third-party software, see the Readme file provided with TIBCO DataSynapse GridServer® Manager.

High Availability Enhancements

Secondary Director Acts as Primary

Failover reliability has been significantly enhanced. In the event of a Primary Director outage, the Secondary Director now automatically assumes the Primary role and can execute the following critical operations:

- Update Broker configurations (including modifying Broker sharing)
- Update Engine and Engine Daemon configurations
- Add new Brokers to the GridServer.
- Perform Grid Libraries Deployment
- Manage the Service Type Registry

Comprehensive REST API Additions

This release vastly expands the programmatic control by introducing new REST APIs that mirror functionalities previously only available through the user interface:

Broker Admin and Configuration

New APIs support all Broker Admin capabilities. A notable addition is the `updateBrokerConfigurationAPI`, enabling programmatic modifications to broker settings. Additionally, a `purge-broker` API has been introduced.

Broker Routing

The administrators can now list, add, delete, or update routing details by performing CRUD (Create, Read, Update, Delete) operations on broker routing properties.

Engine Configuration

You can now programmatically adjust Engine parameters and log levels without interacting with the user interface.

EngineDaemonAdmin

The offline Engine Daemons can be efficiently removed from the Director. This is specifically designed for automated daemon management in cloud environments characterized by frequent provisioning and de-provisioning.

Run-As Credential

You can programmatically retrieve a list of Run-As Credential users, as well as add or delete a Run-As credential user.

Added REST API for Manager Diagnostics Logs

Access a new programmatic method for fetching integration and troubleshooting data, including Manager Logs, Environment configurations, and Task Queues.

Service Logs and Service Admin

You can search service logs for specific service sessions to monitor instances and retrieve the `grid-library.xml` configuration file for designated grid libraries.

Added REST API for Service Test

A new endpoint allows users to trigger Linpack tests directly for the job admin scheduler.

User Interface (UI) Improvements

Altered Configuration Highlighting

A configuration row is highlighted if the value is altered after comparing it with the system's default value, allowing the administrators to identify easily customized settings.

Table Row Numbering

To improve data visibility and ease of navigation, row numbers have been added to tabular pages across the application. This includes, but is not limited to the following UI pages:

- Engine Daemons
- Engine Admin
- Service Types
- User Admin

Changes in Functionality

The following changes in functionality have been made in this release of TIBCO DataSynapse GridServer® Manager:

Windows Engine Deployment

DataSynapse GridServer® Manager 7.2.0 introduces a new installation process for the Windows Engine. This update provides a unified experience that mirrors the existing Linux Engine installation workflow. The Windows Engine installer is delivered as a `.tar.gz` archive. This packaging ensures consistent delivery across different operating systems. You can now manage engine installation and execution on Windows using a built-in command-line interface.

Updated Windows Runtime Dependencies

Updated the application runtime requirements by replacing legacy Visual C++ 2013 libraries (`msvcp120.dll`, `msvcr120.dll`) with Visual C++ 2015-2022 redistributables (`msvcp140.dll`, `vcruntime140.dll`). This change ensures full compatibility and optimized performance across modern environments, including Windows Server 2016 through Windows Server 2025.

Updated Build Tooling Requirements

In DataSynapse GridServer® Manager Software Development Kit (SDK), all the core C++ and .NET components are now bundled with Visual Code 16. However, to maintain developer flexibility, the provided SDK example projects continue to be bundled with Visual Code 15 build

configurations. You should ensure that the appropriate redistributables are installed for their target environment.

.NET Runtime Update

DataSynapse GridServer® Manager 7.2.0 introduces an upgrade to the underlying .NET runtime. The platform now supports .NET 8, moving from the previous .NET 6 version. This update affects both the .NET driver and the .NET bridge components. This ensures compatibility with the latest .NET framework. For details on changes in functionality since the last major release of this product, see the section Upgrading GridServer in the TIBCO DataSynapse GridServer® Manager Installation Guide.

Deprecated and Removed Features

The following feature has been deprecated or removed as of this release of TIBCO DataSynapse GridServer® Manager:

Removed Features

Removed Support for 32-bit Artifacts

DataSynapse GridServer® Manager 7.2.0 no longer supports 32-bit artifacts. This change impacts Windows (Win32) and Linux platforms.

Removed Support for SOAP APIs

The SOAP API functionality has been deprecated and so the support for SOAP API is removed from the Gridserver. The following table lists the removed SOAP APIs and their corresponding REST API replacements: | SOAP API | REST API | | --- | --- | | com.datasynapse.gridserver.admin.BatchAdmin | com.datasynapse.gridserver.rest.BatchAdmin. | | com.datasynapse.gridserver.admin.BrokerAdmin | com.datasynapse.gridserver.rest.BrokerAdmin | | com.datasynapse.gridserver.admin.DriverAdmin | com.datasynapse.gridserver.rest.DriverAdmin | | com.datasynapse.gridserver.admin.EngineAdmin | com.datasynapse.gridserver.rest.EngineAdmin | | com.datasynapse.gridserver.admin.EngineDaemonAdmin | com.datasynapse.gridserver.rest.EngineDaemonAdmin | | com.datasynapse.gridserver.admin.ManagerAdmin | com.datasynapse.gridserver.rest.ManagerAdmin | | com.datasynapse.gridserver.admin.ServiceAdmin | com.datasynapse.gridserver.rest.ServiceAdmin | | com.datasynapse.gridserver.admin.UserAdmin | com.datasynapse.gridserver.rest.UserAdmin | | com.datasynapse.webservices.gridserver.admin.BatchAdmin | com.datasynapse.webservices.gridserver.rest.BatchAdmin | |

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KEY	SUMMARY
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GS-18610	Critical and high-priority Common Vulnerabilities and Exposures (CVEs) detected in the Manager and Engine components are resolved. AngularJS updated version 1.8.3 enhances UI stability and security.

KEY	SUMMARY
GS-17648	You cannot assign a role to an LDAP user if no email is entered.
GS-17645	When changing a non-SSL server to an SSL server, the Manager (Broker) ID changes when re-configuring the server.

Note:

For changing the non-SSL server to an SSL server, ensure that the Manager ID before and after reconfiguration is the same. You must manually input the old server ID during configuration.

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GS-16590	In GridServer user interface (UI), if a value of the configuration row differs from the default value, then it highlights the altered configuration row with a distinct color.
GS-16589	In the GridServer user interface (UI), row numbers are displayed across all pages where data is presented in a tabular format.

Operating Systems

KEY	SUMMARY
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GS-18527	GridServer requires support for Rocky Linux 9.

REST API

KEY	SUMMARY
GS-19415	A new REST API is needed for adding, removing and fetching list of Run-As Credentials.

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GS-15890	Administrators had to remove manually offline daemon entries. With the new REST API methods, you can now purge offline daemons.

Security

KEY	SUMMARY
GS-18610	Critical and high-priority Common Vulnerabilities and Exposures (CVEs) detected in the Manager and Engine components are resolved. AngularJS updated version 1.8.3 enhances UI stability and security.

Services

KEY	SUMMARY
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Note:

When the `Synchronize Resources to Engines` property is set to `false` , the Grid Library must be placed manually along with the signature file `(.#extracted` file) under `<Engine_directory>/resources/gridlib/` `(default location)` or at the custom Grid Library path. The custom Grid Library path is the location of the Grid Libraries, set through Engine Configuration > Grid Library Path . This should only be set if not using Grid Library Synchronization.

Upgrade and Migration

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GS-17656	Access to internal JDK packages, which were previously available, is now restricted. So, in the Command-Line Argument in the Engine JVM section under Grid Components > Engine > Engine Configurations use the following parameters: `--add-``exports=java.desktop/com.sun.beans.editors=ALL-``UNNAMED` Select the engine configuration file based on your operating system.

Note:

This parameter is only necessary for Java 17. Do not include it for lower Java versions, such as Java 8 and Java 11.

Known Issues

This section lists known issues in this release of TIBCO DataSynapse GridServer® Manager:

Engine, Engine Daemon

KEY	SUMMARY/WORKAROUND
GS-19447	Summary: When you upgrade to GridServer (GS) 7.2.0, the `gcc34` and `gcc49` compilers are no longer supported. If you upgrade from an earlier GS version where you configured `gcc34` or `gcc49` as the Engine

KEY	SUMMARY/WORKAROUND
	GCC built version, the cached engine configuration may continue to reference an unsupported GCC version.

Workaround: Refresh the cached engine configuration on Linux engines by performing following steps:

1. Open the Engine Configuration UI in GS 7.2.0.
2. Change Engine GCC built version from `gcc83` to `gcc115`, then save the change.
3. Change Engine GCC built version from `gcc115` back to `gcc83`, then save the change again. This action forces the regeneration of the cached configuration. It also updates the `x4088.default` file under `engineDistros`.

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GS-17640	Summary: When move Engines from GridServer version 6.3.1_hotfix05 to GridServer version 7.1.0, sometimes the win32 and win64 Engines do not move to the GridServer 7.1.0 server. The server running is the SSL server using a self-signed certificate. 1. After the Engines are online on GridServer version 6.3.1, change the Primary Director URL from 631 to 710 in the Engine Configuration. 2. Check after some time (for example, 15 secs), the GridServer version 7.1.0 Primary Director URL reflects in the `engined.log` file and that the Engine is trying to connect to the GridServer version

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	7.1.0 server. 3. Then copy the GridServer version 7.1.0 certificates to the Engine directory.

Manager

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1. Go to `DS_DATA/cache` and delete the `old_offline_broker_` `id.broker` file.
2. Start the server.

Services

KEY	SUMMARY
GS-17423	Summary Service Priority Changed Event is not captured through Kafka Event Streaming.

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- To access the Support Knowledge Base and getting personalized content about products you are interested in, visit our product Support website.

- To create a Support case, you must have a valid maintenance or support contract with a Cloud Software Group entity. You also need a username and password to log in to the product Support website. If you do not have a username, you can request one by clicking Register on the website.
- To submit ideas, suggestions, or feedback for TIBCO products, visit our product Support website.

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New Features

The following features have been added in this release of TIBCO DataSynapse GridServer® Manager:

Release Type & Core Support

Long-Term Support (LTS) Support

DataSynapse GridServer® Manager 7.2.0 is a LTS Release. For more information about the DataSynapse GridServer® Manager LTS Support, see TIBCO LTS Policy.

Azul OpenJDK Integration

Azul Java 17.0.12 is now fully supported across all GridServer components.

Note:

Oracle Java 17 is the default Engine JRE for Win64 and Linux64.

- When running the Engine on Azul Java 17 you need to configure specific JVM parameters for the Engine and Driver Software Development Kit (SDK) components. Grid-library support is available for Linux 64-bit and Windows 64-bit.
- No installation or configuration changes are required for the Broker and Manager to support Azul OpenJDK 17.

Apache Tomcat® Upgrade

The bundled Apache Tomcat server has been upgraded to version 9.0.113.

Platform, Component, & Compiler Upgrades

Additional Platform Support

DataSynapse GridServer® Manager 7.2.0 is now supported on Rocky Linux 10, Red Hat Enterprise Linux (RHEL) 10, and Windows Server 2025.

Component Upgrades

To ensure optimal security and performance, the following third-party dependencies have been upgraded:

- Python 3.10.6 applies to Python Bridge, drivers, and associated examples.
- .NET 8
- OpenSSL 3.0.14

New Compiler Support

Integration for modern compilers has been added to leverage the latest features and optimizations for third-party libraries. This includes GCC 11.5 for Linux and VC17 for Windows. For the updated list of supported TIBCO Software, platforms, and third-party software, see the Readme file provided with TIBCO DataSynapse GridServer® Manager.

High Availability Enhancements

Secondary Director Acts as Primary

Failover reliability has been significantly enhanced. In the event of a Primary Director outage, the Secondary Director now automatically assumes the Primary role and can execute the following critical operations:

- Update Broker configurations (including modifying Broker sharing)
- Update Engine and Engine Daemon configurations
- Add new Brokers to the GridServer.
- Perform Grid Libraries Deployment
- Manage the Service Type Registry

Comprehensive REST API Additions

This release vastly expands the programmatic control by introducing new REST APIs that mirror functionalities previously only available through the user interface:

Broker Admin and Configuration

New APIs support all Broker Admin capabilities. A notable addition is the `updateBrokerConfigurationAPI`, enabling programmatic modifications to broker settings. Additionally, a `purge-broker` API has been introduced.

Broker Routing

The administrators can now list, add, delete, or update routing details by performing CRUD (Create, Read, Update, Delete) operations on broker routing properties.

Engine Configuration

You can now programmatically adjust Engine parameters and log levels without interacting with the user interface.

EngineDaemonAdmin

The offline Engine Daemons can be efficiently removed from the Director. This is specifically designed for automated daemon management in cloud environments characterized by frequent provisioning and de-provisioning.

Run-As Credential

You can programmatically retrieve a list of Run-As Credential users, as well as add or delete a Run-As credential user.

Added REST API for Manager Diagnostics Logs

Access a new programmatic method for fetching integration and troubleshooting data, including Manager Logs, Environment configurations, and Task Queues.

Service Logs and Service Admin

You can search service logs for specific service sessions to monitor instances and retrieve the `grid-library.xml` configuration file for designated grid libraries.

Added REST API for Service Test

A new endpoint allows users to trigger Linpack tests directly for the job admin scheduler.

User Interface (UI) Improvements

Altered Configuration Highlighting

A configuration row is highlighted if the value is altered after comparing it with the system's default value, allowing the administrators to identify easily customized settings.

Table Row Numbering

To improve data visibility and ease of navigation, row numbers have been added to tabular pages across the application. This includes, but is not limited to the following UI pages:

- Engine Daemons
- Engine Admin
- Service Types
- User Admin

Changes in Functionality

The following changes in functionality have been made in this release of TIBCO DataSynapse GridServer® Manager:

Windows Engine Deployment

DataSynapse GridServer® Manager 7.2.0 introduces a new installation process for the Windows Engine. This update provides a unified experience that mirrors the existing Linux Engine installation workflow. The Windows Engine installer is delivered as a `.tar.gz` archive. This packaging ensures consistent delivery across different operating systems. You can now manage engine installation and execution on Windows using a built-in command-line interface.

Updated Windows Runtime Dependencies

Updated the application runtime requirements by replacing legacy Visual C++ 2013 libraries (`msvcp120.dll`, `msvcr120.dll`) with Visual C++ 2015-2022 redistributables (`msvcp140.dll`, `vcruntime140.dll`). This change ensures full compatibility and optimized performance across modern environments, including Windows Server 2016 through Windows Server 2025.

Updated Build Tooling Requirements

In DataSynapse GridServer® Manager Software Development Kit (SDK), all the core C++ and .NET components are now bundled with Visual Code 16. However, to maintain developer flexibility, the provided SDK example projects continue to be bundled with Visual Code 15 build configurations. You should ensure that the appropriate redistributables are installed for their target environment.

.NET Runtime Update

DataSynapse GridServer® Manager 7.2.0 introduces an upgrade to the underlying .NET runtime. The platform now supports .NET 8, moving from the previous .NET 6 version. This update affects both the .NET driver and the .NET bridge components. This ensures compatibility with the latest .NET framework. For details on changes in functionality since the last major release of this product, see the section Upgrading GridServer in the TIBCO DataSynapse GridServer® Manager Installation Guide.

Deprecated and Removed Features

The following feature has been deprecated or removed as of this release of TIBCO DataSynapse GridServer® Manager:

Removed Features

Removed Support for 32-bit Artifacts

DataSynapse GridServer® Manager 7.2.0 no longer supports 32-bit artifacts. This change impacts Windows (Win32) and Linux platforms.

Removed Support for SOAP APIs

The SOAP API functionality has been deprecated and so the support for SOAP API is removed from the Gridserver. The following table lists the removed SOAP APIs and their corresponding REST API replacements: | SOAP API | REST API | | --- | --- | | com.datasynapse.gridserver.admin.BatchAdmin | com.datasynapse.gridserver.rest.BatchAdmin. | | com.datasynapse.gridserver.admin.BrokerAdmin | com.datasynapse.gridserver.rest.BrokerAdmin | | com.datasynapse.gridserver.admin.DriverAdmin | com.datasynapse.gridserver.rest.DriverAdmin | | com.datasynapse.gridserver.admin.EngineAdmin | com.datasynapse.gridserver.rest.EngineAdmin | | com.datasynapse.gridserver.admin.EngineDaemonAdmin | com.datasynapse.gridserver.rest.EngineDaemonAdmin | | com.datasynapse.gridserver.admin.ManagerAdmin | com.datasynapse.gridserver.rest.ManagerAdmin | | com.datasynapse.gridserver.admin.ServiceAdmin | com.datasynapse.gridserver.rest.ServiceAdmin | | com.datasynapse.gridserver.admin.UserAdmin | com.datasynapse.gridserver.rest.UserAdmin | | com.datasynapse.webservices.gridserver.admin.BatchAdmin | com.datasynapse.webservices.gridserver.rest.BatchAdmin | | com.datasynapse.webservices.gridserver.admin.BrokerAdmin | com.datasynapse.webservices.gridserver.rest.BrokerAdmin | | com.datasynapse.webservices.gridserver.admin.DriverAdmin | com.datasynapse.webservices.gridserver.rest.DriverAdmin | | com.datasynapse.webservices.gridserver.admin.EngineAdmin | com.datasynapse.webservices.gridserver.rest.EngineAdmin | | com.datasynapse.webservices.gridserver.admin.EngineDaemonAdmin | com.datasynapse.webservices.gridserver.rest.EngineDaemonAdmin | | com.datasynapse.webservices.gridserver.admin.ManagerAdmin | com.datasynapse.webservices.gridserver.rest.ManagerAdmin | | com.datasynapse.webservices.gridserver.admin.ServiceAdmin | com.datasynapse.webservices.gridserver.rest.ServiceAdmin | | com.datasynapse.webservices.gridserver.admin.UserAdmin | com.datasynapse.webservices.gridserver.rest.UserAdmin |

Migration and Compatibility

The following information provides migration procedures and a compatibility matrix for this release of TIBCO DataSynapse GridServer® Manager:

.NET Runtime Update

In DataSynapse GridServer® Manager 7.2.0, the underlying .NET runtime has been upgraded from .NET 6 to .NET 8. This update affects both the .NET driver and the .NET bridge components. There is no change to the configured serviceType. The value NET5 continues to be used for .NET-based services and remains valid. Internally, it now targets .NET 8. Ensure that your application code, libraries, and dependencies are compatible with .NET 8. Projects must be recompiled to guarantee compatibility and runtime stability. For details on how to migrate from a previous release to the current release, see the section Upgrading GridServer in the TIBCO GridServer® Installation Guide.

Closed Issues

The following issues have been fixed in this release of TIBCO DataSynapse GridServer® Manager:

C++ Specific

KEY	SUMMARY
GS-17793	The OpenSSL library requires an updated version 3.x.

Documentation

KEY	SUMMARY
GS-15287	C++ API documentation is not consistent with the Java API documentation . In the Java API, `Service` and `ServiceInvocationHandler` methods consistently return an `invocation ID`. However, the C++ API documentation used varying terms, including handler id, id, service id, and invocation id (new invocation id)'.

Drivers-All

KEY	SUMMARY
GS-18964	There is an issue where the DSDriver in GridServer 7.1.0 would overwrite the Root Logger level settings of integrated Java applications. The `driver.properties` file often defaulted to a Finest logging level, which caused rapid disk storage consumption. the `DSLogLevelOverWritten` parameter If the GridServer application is integrated within another Java application and you want to prevent the overwriting of Root Logger level setting with GridServer Log Level setting, then set The `DSLogLevelOverWritten` parameter is introduced to prevent the GridServer Log Level setting from overwriting the Root Logger level setting. When you set this parameter to `false`, the DataSynapse Logger does not change the Root Logger level. When you set the `DSLogLevelOverWritten` parameter to `false`, the DataSynapse Logger does not change the Root Logger level.
GS-16447	A security vulnerability is identified in the driver's internal web server ports. This issue involved an XSS vulnerability in the driver when you access the driver's file sharing port through HTTP.

Engine

KEY	SUMMARY
GS-19271	You must install the required Visual C++ Redistributable libraries as a prerequisite for Engine installation. The legacy Visual C++ 2013 runtime DLLs (`msvcp120.dll`, `msvcr120.dll`) are replaced with Visual C++ 2016 and later runtime DLLs (`msvcp140.dll`, `vcruntime140.dll`).

KEY	SUMMARY
GS-19242	The Python example of Linux64 failed to run. A Python `ServiceInvocationException` is observed with the message, `Task failed after 3 retries. Last failure: Engine crashed`. This issue occurs when setting up a combo server, configuring the linux64 engine, extracting the linux64 SDK, and running the Python example after exporting `LD_` `LIBRARY_PATH` and PATH variables. To resolve this issue, changes were implemented to set correctly the `ds.PYTH_MODULE_PATH` environment variable. The `setManagerProperties` method called `addProperties` method now tracks whether the password is already encoded, preventing double encryption and the `Invalid` `Password` error.
GS-18969	When the primary director is down, the secondary director becomes `Acting as Primary`. In such a case, the secondary director is not able to perform the following operations: - Update Broker configurations (change broker sharing) - Update Engine configuration - Update Engine Daemon configuration - Add a broker to the grid. - Perform Grid Libraries Deployment

Manager

KEY	SUMMARY
GS-18910	A new parameter needs to be added to handle Browser active session timeout.
GS-18844	When a single Driver submits multiple jobs, some jobs containing a large number of tasks could cause delays in the completion of other jobs with a smaller number of tasks. To mitigate this issue, a new configuration

KEY	SUMMARY
	parameter, `Equal weight tasks dispatch` is introduced that ensures more equitable task dispatching. If a small job takes longer than the usual time to complete, then setting the `Equal weight tasks dispatch` parameter to `true` prevents delays in the completion of smaller jobs, even when a large job has many tasks. The default value of the `Equal weight tasks dispatch` parameter is `false`.
GS-18610	Critical and high-priority Common Vulnerabilities and Exposures (CVEs) detected in the Manager and Engine components are resolved. AngularJS updated version 1.8.3 enhances UI stability and security.
GS-17648	You cannot assign a role to an LDAP user if no email is entered.
GS-17645	When changing a non-SSL server to an SSL server, the Manager (Broker) ID changes when re-configuring the server.

Note:

For changing the non-SSL server to an SSL server, ensure that the Manager ID before and after reconfiguration is the same. You must manually input the old server ID during configuration.

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GS-16590	In GridServer user interface (UI), if a value of the configuration row differs from the default value, then it highlights the altered configuration row with a distinct color.
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Workaround: Refresh the cached engine configuration on Linux engines by performing following steps:

1. Open the Engine Configuration UI in GS 7.2.0.
2. Change Engine GCC built version from `gcc83` to `gcc115`, then save the change.
3. Change Engine GCC built version from `gcc115` back to `gcc83`, then save the change again. This action forces the regeneration of the cached configuration. It also updates the `x4088.default` file under `engineDistros`.

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Manager

KEY	SUMMARY/WORKAROUND
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KEY	SUMMARY/WORKAROUND
GS-17647	Summary: On Windows Engines, the logs `engine-stderrxxx.log` and `engine-stdoutxxx.log` are not generated as expected.
GS-17646	Summary: If you use `DSConfigureOnStartup=true` in the `installation.properties` file to re-configure the server, it causes a Grid Cache problem. Grid Cache is not properly initialized after the server is up. For SSL server - Install SSL server using Silent installation mode - Install SSL server using UI installation mode (before installing an SSL server, a non-SSL server must not be installed)

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1. Go to `DS_DATA/cache` and delete the `old_offline_broker_` `id.broker` file.
2. Start the server.

Services

KEY	SUMMARY
GS-17423	Summary Service Priority Changed Event is not captured through Kafka Event Streaming.

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- To create a Support case, you must have a valid maintenance or support contract with a Cloud Software Group entity. You also need a username and password to log in to the product Support website. If you do not have a username, you can request one by clicking Register on the website.
- To submit ideas, suggestions, or feedback for TIBCO products, visit our product Support website.

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The following features have been added in this release of TIBCO DataSynapse GridServer® Manager:

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Long-Term Support (LTS) Support

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Azul Java 17.0.12 is now fully supported across all GridServer components.

Note:

Oracle Java 17 is the default Engine JRE for Win64 and Linux64.

- When running the Engine on Azul Java 17 you need to configure specific JVM parameters for the Engine and Driver Software Development Kit (SDK) components. Grid-library support is available for Linux 64-bit and Windows 64-bit.
- No installation or configuration changes are required for the Broker and Manager to support Azul OpenJDK 17.

Apache Tomcat® Upgrade

The bundled Apache Tomcat server has been upgraded to version 9.0.113.

Platform, Component, & Compiler Upgrades

Additional Platform Support

DataSynapse GridServer® Manager 7.2.0 is now supported on Rocky Linux 10, Red Hat Enterprise Linux (RHEL) 10, and Windows Server 2025.

Component Upgrades

To ensure optimal security and performance, the following third-party dependencies have been upgraded:

- Python 3.10.6 applies to Python Bridge, drivers, and associated examples.
- .NET 8
- OpenSSL 3.0.14

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Integration for modern compilers has been added to leverage the latest features and optimizations for third-party libraries. This includes GCC 11.5 for Linux and VC17 for Windows. For the updated list of supported TIBCO Software, platforms, and third-party software, see the Readme file provided with TIBCO DataSynapse GridServer® Manager.

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This release vastly expands the programmatic control by introducing new REST APIs that mirror functionalities previously only available through the user interface:

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New APIs support all Broker Admin capabilities. A notable addition is the `updateBrokerConfigurationAPI`, enabling programmatic modifications to broker settings. Additionally, a `purge-broker` API has been introduced.

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The administrators can now list, add, delete, or update routing details by performing CRUD (Create, Read, Update, Delete) operations on broker routing properties.

Engine Configuration

You can now programmatically adjust Engine parameters and log levels without interacting with the user interface.

EngineDaemonAdmin

The offline Engine Daemons can be efficiently removed from the Director. This is specifically designed for automated daemon management in cloud environments characterized by frequent provisioning and de-provisioning.

Run-As Credential

You can programmatically retrieve a list of Run-As Credential users, as well as add or delete a Run-As credential user.

Added REST API for Manager Diagnostics Logs

Access a new programmatic method for fetching integration and troubleshooting data, including Manager Logs, Environment configurations, and Task Queues.

Service Logs and Service Admin

You can search service logs for specific service sessions to monitor instances and retrieve the `grid-library.xml` configuration file for designated grid libraries.

Added REST API for Service Test

A new endpoint allows users to trigger Linpack tests directly for the job admin scheduler.

User Interface (UI) Improvements

Altered Configuration Highlighting

A configuration row is highlighted if the value is altered after comparing it with the system's default value, allowing the administrators to identify easily customized settings.

Table Row Numbering

To improve data visibility and ease of navigation, row numbers have been added to tabular pages across the application. This includes, but is not limited to the following UI pages:

- Engine Daemons
- Engine Admin
- Service Types

- User Admin

Changes in Functionality

The following changes in functionality have been made in this release of TIBCO DataSynapse GridServer® Manager:

Windows Engine Deployment

DataSynapse GridServer® Manager 7.2.0 introduces a new installation process for the Windows Engine. This update provides a unified experience that mirrors the existing Linux Engine installation workflow. The Windows Engine installer is delivered as a `.tar.gz` archive. This packaging ensures consistent delivery across different operating systems. You can now manage engine installation and execution on Windows using a built-in command-line interface.

Updated Windows Runtime Dependencies

Updated the application runtime requirements by replacing legacy Visual C++ 2013 libraries (`msvcp120.dll`, `msvcr120.dll`) with Visual C++ 2015-2022 redistributables (`msvcp140.dll`, `vcruntime140.dll`). This change ensures full compatibility and optimized performance across modern environments, including Windows Server 2016 through Windows Server 2025.

Updated Build Tooling Requirements

In DataSynapse GridServer® Manager Software Development Kit (SDK), all the core C++ and .NET components are now bundled with Visual Code 16. However, to maintain developer flexibility, the provided SDK example projects continue to be bundled with Visual Code 15 build configurations. You should ensure that the appropriate redistributables are installed for their target environment.

.NET Runtime Update

DataSynapse GridServer® Manager 7.2.0 introduces an upgrade to the underlying .NET runtime. The platform now supports .NET 8, moving from the previous .NET 6 version. This update affects both the .NET driver and the .NET bridge components. This ensures compatibility with the latest .NET framework. For details on changes in functionality since the last major release of this product, see the section Upgrading GridServer in the TIBCO DataSynapse GridServer® Manager Installation Guide.

Deprecated and Removed Features

The following feature has been deprecated or removed as of this release of TIBCO DataSynapse GridServer® Manager:

Removed Features

Removed Support for 32-bit Artifacts

DataSynapse GridServer® Manager 7.2.0 no longer supports 32-bit artifacts. This change impacts Windows (Win32) and Linux platforms.

Removed Support for SOAP APIs

The SOAP API functionality has been deprecated and so the support for SOAP API is removed from the Gridserver. The following table lists the removed SOAP APIs and their corresponding REST API replacements: | SOAP API | REST API | | --- | --- | | com.datasynapse.gridserver.admin.BatchAdmin | com.datasynapse.gridserver.rest.BatchAdmin. | | com.datasynapse.gridserver.admin.BrokerAdmin | com.datasynapse.gridserver.rest.BrokerAdmin | | com.datasynapse.gridserver.admin.DriverAdmin | com.datasynapse.gridserver.rest.DriverAdmin | | com.datasynapse.gridserver.admin.EngineAdmin | com.datasynapse.gridserver.rest.EngineAdmin | | com.datasynapse.gridserver.admin.EngineDaemonAdmin | com.datasynapse.gridserver.rest.EngineDaemonAdmin | | com.datasynapse.gridserver.admin.ManagerAdmin | com.datasynapse.gridserver.rest.ManagerAdmin | | com.datasynapse.gridserver.admin.ServiceAdmin | com.datasynapse.gridserver.rest.ServiceAdmin | | com.datasynapse.gridserver.admin.UserAdmin | com.datasynapse.gridserver.rest.UserAdmin | | com.datasynapse.webservices.gridserver.admin.BatchAdmin | com.datasynapse.webservices.gridserver.rest.BatchAdmin | | com.datasynapse.webservices.gridserver.admin.BrokerAdmin | com.datasynapse.webservices.gridserver.rest.BrokerAdmin | | com.datasynapse.webservices.gridserver.admin.DriverAdmin | com.datasynapse.webservices.gridserver.rest.DriverAdmin | | com.datasynapse.webservices.gridserver.admin.EngineAdmin | com.datasynapse.webservices.gridserver.rest.EngineAdmin | | com.datasynapse.webservices.gridserver.admin.EngineDaemonAdmin | com.datasynapse.webservices.gridserver.rest.EngineDaemonAdmin | | com.datasynapse.webservices.gridserver.admin.ManagerAdmin | com.datasynapse.webservices.gridserver.rest.ManagerAdmin | | com.datasynapse.webservices.gridserver.admin.ServiceAdmin |

com.datasynapse.webservices.gridserver.rest.ServiceAdmin | |
com.datasynapse.webservices.gridserver.admin.UserAdmin |
com.datasynapse.webservices.gridserver.rest.UserAdmin |

Migration and Compatibility

The following information provides migration procedures and a compatibility matrix for this release of TIBCO DataSynapse GridServer® Manager:

.NET Runtime Update

In DataSynapse GridServer® Manager 7.2.0, the underlying .NET runtime has been upgraded from .NET 6 to .NET 8. This update affects both the .NET driver and the .NET bridge components. There is no change to the configured serviceType. The value NET5 continues to be used for .NET-based services and remains valid. Internally, it now targets .NET 8. Ensure that your application code, libraries, and dependencies are compatible with .NET 8. Projects must be recompiled to guarantee compatibility and runtime stability. For details on how to migrate from a previous release to the current release, see the section Upgrading GridServer in the TIBCO GridServer® Installation Guide.

Closed Issues

The following issues have been fixed in this release of TIBCO DataSynapse GridServer® Manager:

C++ Specific

KEY	SUMMARY
GS-17793	The OpenSSL library requires an updated version 3.x.

Documentation

KEY	SUMMARY
GS-15287	C++ API documentation is not consistent with the Java API documentation . In the Java API, `Service` and `ServiceInvocationHandler` methods consistently return an `invocation ID`. However, the C++ API documentation

KEY	SUMMARY
	used varying terms, including handler id, id, service id, and invocation id (new invocation id)'.

Drivers-All

KEY	SUMMARY
GS-18964	There is an issue where the DSDriver in GridServer 7.1.0 would overwrite the Root Logger level settings of integrated Java applications. The `driver.properties` file often defaulted to a Finest logging level, which caused rapid disk storage consumption. the `DSLogLevelOverWritten` parameter If the GridServer application is integrated within another Java application and you want to prevent the overwriting of Root Logger level setting with GridServer Log Level setting, then set The `DSLogLevelOverWritten` parameter is introduced to prevent the GridServer Log Level setting from overwriting the Root Logger level setting. When you set this parameter to `false`, the DataSynapse Logger does not change the Root Logger level. When you set the `DSLogLevelOverWritten` parameter to `false`, the DataSynapse Logger does not change the Root Logger level.
GS-16447	A security vulnerability is identified in the driver's internal web server ports. This issue involved an XSS vulnerability in the driver when you access the driver's file sharing port through HTTP.

Engine

KEY	SUMMARY
GS-19271	You must install the required Visual C++ Redistributable libraries as a prerequisite for Engine installation. The legacy Visual C++ 2013 runtime DLLs (`msvcp120.dll` , `msvcr120.dll`) are replaced with Visual C++ 2016 and later runtime DLLs (`msvcp140.dll` , `vcruntime140.dll`).
GS-19242	The Python example of Linux64 failed to run. A Python `ServiceInvocationException` is observed with the message, `Task failed after 3 retries. Last failure: Engine crashed` . This issue occurs when setting up a combo server, configuring the linux64 engine, extracting the linux64 SDK, and running the Python example after exporting `LD_` `LIBRARY_PATH` and PATH variables. To resolve this issue, changes were implemented to set correctly the `ds.PYTH_MODULE_PATH` environment variable. The `setManagerProperties` method called `addProperties` method now tracks whether the password is already encoded, preventing double encryption and the `Invalid` `Password` error.
GS-18969	When the primary director is down, the secondary director becomes `Acting as Primary` . In such a case, the secondary director is not able to perform the following operations: - Update Broker configurations (change broker sharing) - Update Engine configuration - Update Engine Daemon configuration - Add a broker to the grid. - Perform Grid Libraries Deployment

Manager

KEY	SUMMARY
GS-18910	A new parameter needs to be added to handle Browser active session timeout.
GS-18844	When a single Driver submits multiple jobs, some jobs containing a large number of tasks could cause delays in the completion of other jobs with a smaller number of tasks. To mitigate this issue, a new configuration parameter, `Equal weight tasks dispatch` is introduced that ensures more equitable task dispatching. If a small job takes longer than the usual time to complete, then setting the `Equal weight tasks dispatch` parameter to `true` prevents delays in the completion of smaller jobs, even when a large job has many tasks. The default value of the `Equal weight tasks dispatch` parameter is `false`.
GS-18610	Critical and high-priority Common Vulnerabilities and Exposures (CVEs) detected in the Manager and Engine components are resolved. AngularJS updated version 1.8.3 enhances UI stability and security.
GS-17648	You cannot assign a role to an LDAP user if no email is entered.
GS-17645	When changing a non-SSL server to an SSL server, the Manager (Broker) ID changes when re-configuring the server.

Note:

For changing the non-SSL server to an SSL server, ensure that the Manager ID before and after reconfiguration is the same. You must manually input the old server ID during configuration.

KEY	SUMMARY
GS-16590	In GridServer user interface (UI), if a value of the configuration row differs from the default value, then it highlights the altered configuration row with a distinct color.
GS-16589	In the GridServer user interface (UI), row numbers are displayed across all pages where data is presented in a tabular format.

Operating Systems

KEY	SUMMARY
GS-18794	Apache Tomcat should be upgraded to 9.0.113.
GS-18527	GridServer requires support for Rocky Linux 9.

REST API

KEY	SUMMARY
GS-19415	A new REST API is needed for adding, removing and fetching list of Run-As Credentials.
GS-18618	New REST APIs are required to manage various engine configuration parameters. The new REST APIs are introduced that performs all operations available for the Engine Configuration tab. You can change the engine settings, such as log levels, through an automated interface.
GS-15890	Administrators had to remove manually offline daemon entries. With the new REST API methods, you can now purge offline daemons.

Security

KEY	SUMMARY
GS-18610	Critical and high-priority Common Vulnerabilities and Exposures (CVEs) detected in the Manager and Engine components are resolved. AngularJS updated version 1.8.3 enhances UI stability and security.

Services

KEY	SUMMARY
GS-19013	When you set the `Synchronize Resources to Engines` property to `false` under Admin > System Admin > Manager Configuration > Resource Deployment, the following error is displayed, Grid Library has not been deployed. Manually updating the Grid Libraries on the Engine side did not resolve this issue. The service would only run successfully if you set the `Synchronize Resources to Engines` property to true. This is resolved. The Manager can now find the Grid Library when the `Synchronize Resources to Engines` property is set to `false`.

Note:

When the `Synchronize Resources to Engines` property is set to `false` , the Grid Library must be placed manually along with the signature file `(.#extracted` file) under `<Engine_directory>/resources/gridlib/` `(default location)` or at the custom Grid Library path. The custom Grid Library path is the location of the Grid Libraries, set through Engine Configuration > Grid Library Path . This should only be set if not using Grid Library Synchronization.

Upgrade and Migration

KEY	SUMMARY
GS-17656	Access to internal JDK packages, which were previously available, is now restricted. So, in the Command-Line Argument in the Engine JVM section under Grid Components > Engine > Engine Configurations use the following parameters: `--add-``exports=java.desktop/com.sun.beans.editors=ALL-``UNNAMED` Select the engine configuration file based on your operating system.

Note:

This parameter is only necessary for Java 17. Do not include it for lower Java versions, such as Java 8 and Java 11.

Known Issues

This section lists known issues in this release of TIBCO DataSynapse GridServer® Manager:

Engine, Engine Daemon

KEY	SUMMARY/WORKAROUND
GS-19447	Summary: When you upgrade to GridServer (GS) 7.2.0, the `gcc34` and `gcc49` compilers are no longer supported. If you upgrade from an earlier GS version where you configured `gcc34` or `gcc49` as the Engine GCC built version, the cached engine configuration may continue to reference an unsupported GCC version.

Workaround: Refresh the cached engine configuration on Linux engines by performing following steps:

1. Open the Engine Configuration UI in GS 7.2.0.
2. Change Engine GCC built version from `gcc83` to `gcc115`, then save the change.

3. Change Engine GCC built version from `gcc115` back to `gcc83`, then save the change again. This action forces the regeneration of the cached configuration. It also updates the `x4088.default` file under `engineDistros`.

KEY	SUMMARY
GS-19250	Summary: GridServer UI and SDK artifacts for .NET 8 are incorrectly named as .NET 5 artifacts.
GS-19127	Summary: Under Windows Authentication mode, GridServer may fail to restart after the LGPL JAR file is applied. HTTP Status `404–Not Found` error occurs on the Web UI. This occurs when the domain configuration is saved prior to the JAR deployment.
GS-17640	Summary: When move Engines from GridServer version 6.3.1_hotfix05 to GridServer version 7.1.0, sometimes the win32 and win64 Engines do not move to the GridServer 7.1.0 server. The server running is the SSL server using a self-signed certificate. 1. After the Engines are online on GridServer version 6.3.1, change the Primary Director URL from 631 to 710 in the Engine Configuration. 2. Check after some time (for example, 15 secs), the GridServer version 7.1.0 Primary Director URL reflects in the `engined.log` file and that the Engine is trying to connect to the GridServer version 7.1.0 server. 3. Then copy the GridServer version 7.1.0 certificates to the Engine directory.

Manager

KEY	SUMMARY/WORKAROUND
GS-19285	Summary: There is an issue for the GridServer 7.2.0 startup on RHEL 10 machines due to the missing compatibility libraries for Apache

KEY	SUMMARY/WORKAROUND
	Tomcat Native. To resolve the Grid Server startup issue on RHEL 10, install the `libxcrypt-compat` package. This package provides the necessary compatibility library for the POSIX `crypt()` API. 1. Run the following command in your terminal: `sudo dnf install libxcrypt-compat` 2. After installing the package, start the Grid Server. The server starts successfully.
GS-17691	Summary: Task collection generates an excessive amount of logs at the FINE level.
GS-17647	Summary: On Windows Engines, the logs `engine-stderrxxx.log` and `engine-stdoutxxx.log` are not generated as expected.
GS-17646	Summary: If you use `DSConfigureOnStartup=true` in the `installation.properties` file to re-configure the server, it causes a Grid Cache problem. Grid Cache is not properly initialized after the server is up. For SSL server - Install SSL server using Silent installation mode - Install SSL server using UI installation mode (before installing an SSL server, a non-SSL server must not be installed)

Note:

For changing the non-SSL server to an SSL server, ensure that the Manager ID before and after reconfiguration is the same. You must manually enter the old server ID during configuration. For the non-SSL server (for converting a Broker to a Director or from Director to a Broker).

- Ensure that the Manager ID before and after reconfiguration is the same. You must manually enter the old server ID during configuration. For an already running server 1. Purge the offline Broker from Grid Components > Broker Admin. 2. Stop the server.

1. Go to `DS_DATA/cache` and delete the `old_offline_broker_` `id.broker` file.
2. Start the server.

Services

KEY	SUMMARY
GS-17423	Summary Service Priority Changed Event is not captured through Kafka Event Streaming.

TIBCO Documentation and Support Services

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

How to Access TIBCO Documentation

Documentation for TIBCO products is available on the Product Documentation website, mainly in HTML and PDF formats. The Product Documentation website is updated frequently and is more current than any other documentation included with the product.

Product-Specific Documentation

Documentation for TIBCO DataSynapse GridServer® Manager is available on the TIBCO DataSynapse GridServer® Manager Product Documentation page.

How to Contact Support for TIBCO Products

You can contact the Support team in the following ways:

- To access the Support Knowledge Base and getting personalized content about products you are interested in, visit our product Support website.
- To create a Support case, you must have a valid maintenance or support contract with a Cloud Software Group entity. You also need a username and password to log in to the product Support website. If you do not have a username, you can request one by clicking Register on the website.
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You can programmatically retrieve a list of Run-As Credential users, as well as add or delete a Run-As credential user.

Added REST API for Manager Diagnostics Logs

Access a new programmatic method for fetching integration and troubleshooting data, including Manager Logs, Environment configurations, and Task Queues.

Service Logs and Service Admin

You can search service logs for specific service sessions to monitor instances and retrieve the `grid-library.xml` configuration file for designated grid libraries.

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A new endpoint allows users to trigger Linpack tests directly for the job admin scheduler.

User Interface (UI) Improvements

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A configuration row is highlighted if the value is altered after comparing it with the system's default value, allowing the administrators to identify easily customized settings.

Table Row Numbering

To improve data visibility and ease of navigation, row numbers have been added to tabular pages across the application. This includes, but is not limited to the following UI pages:

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- Engine Admin
- Service Types
- User Admin

Changes in Functionality

The following changes in functionality have been made in this release of TIBCO DataSynapse GridServer® Manager:

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DataSynapse GridServer® Manager 7.2.0 introduces a new installation process for the Windows Engine. This update provides a unified experience that mirrors the existing Linux Engine installation workflow. The Windows Engine installer is delivered as a `.tar.gz` archive. This packaging ensures consistent delivery across different operating systems. You can now manage engine installation and execution on Windows using a built-in command-line interface.

Updated Windows Runtime Dependencies

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Deprecated and Removed Features

The following feature has been deprecated or removed as of this release of TIBCO DataSynapse GridServer® Manager:

Removed Features

Removed Support for 32-bit Artifacts

DataSynapse GridServer® Manager 7.2.0 no longer supports 32-bit artifacts. This change impacts Windows (Win32) and Linux platforms.

Removed Support for SOAP APIs

The SOAP API functionality has been deprecated and so the support for SOAP API is removed from the Gridserver. The following table lists the removed SOAP APIs and their corresponding REST API replacements: | SOAP API | REST API | | --- | --- | | com.datasynapse.gridserver.admin.BatchAdmin | com.datasynapse.gridserver.rest.BatchAdmin. | | com.datasynapse.gridserver.admin.BrokerAdmin | com.datasynapse.gridserver.rest.BrokerAdmin | | com.datasynapse.gridserver.admin.DriverAdmin | com.datasynapse.gridserver.rest.DriverAdmin | | com.datasynapse.gridserver.admin.EngineAdmin | com.datasynapse.gridserver.rest.EngineAdmin | | com.datasynapse.gridserver.admin.EngineDaemonAdmin | com.datasynapse.gridserver.rest.EngineDaemonAdmin | | com.datasynapse.gridserver.admin.ManagerAdmin | com.datasynapse.gridserver.rest.ManagerAdmin | | com.datasynapse.gridserver.admin.ServiceAdmin | com.datasynapse.gridserver.rest.ServiceAdmin | | com.datasynapse.gridserver.admin.UserAdmin | com.datasynapse.gridserver.rest.UserAdmin | | com.datasynapse.webservices.gridserver.admin.BatchAdmin | com.datasynapse.webservices.gridserver.rest.BatchAdmin | |

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Closed Issues

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C++ Specific

KEY	SUMMARY
GS-17793	The OpenSSL library requires an updated version 3.x.

Documentation

KEY	SUMMARY
GS-15287	C++ API documentation is not consistent with the Java API documentation . In the Java API, `Service` and `ServiceInvocationHandler` methods consistently return an `invocation ID`. However, the C++ API documentation used varying terms, including handler id, id, service id, and invocation id (new invocation id)'.

Drivers-All

KEY	SUMMARY
GS-18964	There is an issue where the DSDriver in GridServer 7.1.0 would overwrite the Root Logger level settings of integrated Java applications. The `driver.properties` file often defaulted to a Finest logging level, which caused rapid disk storage consumption. the `DSLogLevelOverWritten` parameter If the GridServer application is integrated within another Java application and you want to prevent the overwriting of Root Logger level setting with GridServer Log Level setting, then set The `DSLogLevelOverWritten` parameter is introduced to prevent the GridServer Log Level setting from overwriting the Root Logger level setting. When you set this parameter to `false`, the DataSynapse Logger does not change the Root Logger level. When you set the `DSLogLevelOverWritten` parameter to

KEY	SUMMARY
	`false`, the DataSynapse Logger does not change the Root Logger level.
GS-16447	A security vulnerability is identified in the driver's internal web server ports. This issue involved an XSS vulnerability in the driver when you access the driver's file sharing port through HTTP.

Engine

KEY	SUMMARY
GS-19271	You must install the required Visual C++ Redistributable libraries as a prerequisite for Engine installation. The legacy Visual C++ 2013 runtime DLLs (`msvcp120.dll`, `msvcr120.dll`) are replaced with Visual C++ 2016 and later runtime DLLs (`msvcp140.dll`, `vcruntime140.dll`).
GS-19242	The Python example of Linux64 failed to run. A Python `ServiceInvocationException` is observed with the message, `Task failed after 3 retries. Last failure: Engine crashed`. This issue occurs when setting up a combo server, configuring the linux64 engine, extracting the linux64 SDK, and running the Python example after exporting `LD_` `LIBRARY_PATH` and PATH variables. To resolve this issue, changes were implemented to set correctly the `ds.PYTH_MODULE_PATH` environment variable. The `setManagerProperties` method called `addProperties` method now tracks whether the password is already encoded, preventing double encryption and the `Invalid` `Password` error.

KEY	SUMMARY
GS-18969	When the primary director is down, the secondary director becomes `Acting as Primary`. In such a case, the secondary director is not able to perform the following operations: - Update Broker configurations (change broker sharing) - Update Engine configuration - Update Engine Daemon configuration - Add a broker to the grid. - Perform Grid Libraries Deployment

Manager

KEY	SUMMARY
GS-18910	A new parameter needs to be added to handle Browser active session timeout.
GS-18844	When a single Driver submits multiple jobs, some jobs containing a large number of tasks could cause delays in the completion of other jobs with a smaller number of tasks. To mitigate this issue, a new configuration parameter, `Equal weight tasks dispatch` is introduced that ensures more equitable task dispatching. If a small job takes longer than the usual time to complete, then setting the `Equal weight tasks dispatch` parameter to `true` prevents delays in the completion of smaller jobs, even when a large job has many tasks. The default value of the `Equal weight tasks dispatch` parameter is `false`.
GS-18610	Critical and high-priority Common Vulnerabilities and Exposures (CVEs) detected in the Manager and Engine components are resolved. AngularJS updated version 1.8.3 enhances UI stability and security.

KEY	SUMMARY
GS-17648	You cannot assign a role to an LDAP user if no email is entered.
GS-17645	When changing a non-SSL server to an SSL server, the Manager (Broker) ID changes when re-configuring the server.

Note:

For changing the non-SSL server to an SSL server, ensure that the Manager ID before and after reconfiguration is the same. You must manually input the old server ID during configuration.

KEY	SUMMARY
GS-16590	In GridServer user interface (UI), if a value of the configuration row differs from the default value, then it highlights the altered configuration row with a distinct color.
GS-16589	In the GridServer user interface (UI), row numbers are displayed across all pages where data is presented in a tabular format.

Operating Systems

KEY	SUMMARY
GS-18794	Apache Tomcat should be upgraded to 9.0.113.
GS-18527	GridServer requires support for Rocky Linux 9.

REST API

KEY	SUMMARY
GS-19415	A new REST API is needed for adding, removing and fetching list of Run-As Credentials.

KEY	SUMMARY
GS-18618	New REST APIs are required to manage various engine configuration parameters. The new REST APIs are introduced that performs all operations available for the Engine Configuration tab. You can change the engine settings, such as log levels, through an automated interface.
GS-15890	Administrators had to remove manually offline daemon entries. With the new REST API methods, you can now purge offline daemons.

Security

KEY	SUMMARY
GS-18610	Critical and high-priority Common Vulnerabilities and Exposures (CVEs) detected in the Manager and Engine components are resolved. AngularJS updated version 1.8.3 enhances UI stability and security.

Services

KEY	SUMMARY
GS-19013	When you set the `Synchronize Resources to Engines` property to `false` under Admin > System Admin > Manager Configuration > Resource Deployment, the following error is displayed, Grid Library has not been deployed. Manually updating the Grid Libraries on the Engine side did not resolve this issue. The service would only run successfully if you set the `Synchronize Resources to Engines` property to true. This is resolved. The Manager can now find the Grid Library when the `Synchronize Resources to Engines` property is set to `false`.

Note:

When the `Synchronize Resources to Engines` property is set to `false` , the Grid Library must be placed manually along with the signature file `(.#extracted` file) under `<Engine_directory>/resources/gridlib/` `(default location)` or at the custom Grid Library path. The custom Grid Library path is the location of the Grid Libraries, set through Engine Configuration > Grid Library Path . This should only be set if not using Grid Library Synchronization.

Upgrade and Migration

KEY	SUMMARY
GS-17656	Access to internal JDK packages, which were previously available, is now restricted. So, in the Command-Line Argument in the Engine JVM section under Grid Components > Engine > Engine Configurations use the following parameters: `--add-``exports=java.desktop/com.sun.beans.editors=ALL-``UNNAMED` Select the engine configuration file based on your operating system.

Note:

This parameter is only necessary for Java 17. Do not include it for lower Java versions, such as Java 8 and Java 11.

Known Issues

This section lists known issues in this release of TIBCO DataSynapse GridServer® Manager:

Engine, Engine Daemon

KEY	SUMMARY/WORKAROUND
GS-19447	Summary: When you upgrade to GridServer (GS) 7.2.0, the `gcc34` and `gcc49` compilers are no longer supported. If you upgrade from an earlier GS version where you configured `gcc34` or `gcc49` as the Engine

KEY	SUMMARY/WORKAROUND
	GCC built version, the cached engine configuration may continue to reference an unsupported GCC version.

Workaround: Refresh the cached engine configuration on Linux engines by performing following steps:

1. Open the Engine Configuration UI in GS 7.2.0.
2. Change Engine GCC built version from `gcc83` to `gcc115`, then save the change.
3. Change Engine GCC built version from `gcc115` back to `gcc83`, then save the change again. This action forces the regeneration of the cached configuration. It also updates the `x4088.default` file under `engineDistros`.

KEY	SUMMARY
GS-19250	Summary: GridServer UI and SDK artifacts for .NET 8 are incorrectly named as .NET 5 artifacts.
GS-19127	Summary: Under Windows Authentication mode, GridServer may fail to restart after the LGPL JAR file is applied. HTTP Status `404-Not Found` error occurs on the Web UI. This occurs when the domain configuration is saved prior to the JAR deployment.
GS-17640	Summary: When move Engines from GridServer version 6.3.1_hotfix05 to GridServer version 7.1.0, sometimes the win32 and win64 Engines do not move to the GridServer 7.1.0 server. The server running is the SSL server using a self-signed certificate. 1. After the Engines are online on GridServer version 6.3.1, change the Primary Director URL from 631 to 710 in the Engine Configuration. 2. Check after some time (for example, 15 secs), the GridServer version 7.1.0 Primary Director URL reflects in the `engined.log` file and that the Engine is trying to connect to the GridServer version

KEY	SUMMARY
	7.1.0 server. 3. Then copy the GridServer version 7.1.0 certificates to the Engine directory.

Manager

KEY	SUMMARY/WORKAROUND
GS-19285	Summary: There is an issue for the GridServer 7.2.0 startup on RHEL 10 machines due to the missing compatibility libraries for Apache Tomcat Native. To resolve the Grid Server startup issue on RHEL 10, install the `libxcrypt-compat` package. This package provides the necessary compatibility library for the POSIX `crypt()` API. 1. Run the following command in your terminal: `sudo dnf install libxcrypt-compat` 2. After installing the package, start the Grid Server. The server starts successfully.
GS-17691	Summary: Task collection generates an excessive amount of logs at the FINE level.
GS-17647	Summary: On Windows Engines, the logs `engine-stderrxxx.log` and `engine-stdoutxxx.log` are not generated as expected.
GS-17646	Summary: If you use `DSConfigureOnStartup=true` in the `installation.properties` file to re-configure the server, it causes a Grid Cache problem. Grid Cache is not properly initialized after the server is up. For SSL server - Install SSL server using Silent installation mode - Install SSL server using UI installation mode (before installing an SSL server, a non-SSL server must not be installed)

Note:

For changing the non-SSL server to an SSL server, ensure that the Manager ID before and after reconfiguration is the same. You must manually enter the old server ID during configuration. For the non-SSL server (for converting a Broker to a Director or from Director to a Broker).

- Ensure that the Manager ID before and after reconfiguration is the same. You must manually enter the old server ID during configuration. For an already running server 1. Purge the offline Broker from Grid Components > Broker Admin. 2. Stop the server.

1. Go to `DS_DATA/cache` and delete the `old_offline_broker_` `id.broker` file.
2. Start the server.

Services

KEY	SUMMARY
GS-17423	Summary Service Priority Changed Event is not captured through Kafka Event Streaming.

TIBCO Documentation and Support Services

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

How to Access TIBCO Documentation

Documentation for TIBCO products is available on the Product Documentation website, mainly in HTML and PDF formats. The Product Documentation website is updated frequently and is more current than any other documentation included with the product.

Product-Specific Documentation

Documentation for TIBCO DataSynapse GridServer® Manager is available on the TIBCO DataSynapse GridServer® Manager Product Documentation page.

How to Contact Support for TIBCO Products

You can contact the Support team in the following ways:

- To access the Support Knowledge Base and getting personalized content about products you are interested in, visit our product Support website.

- To create a Support case, you must have a valid maintenance or support contract with a Cloud Software Group entity. You also need a username and password to log in to the product Support website. If you do not have a username, you can request one by clicking Register on the website.
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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. For a free registration, go to TIBCO Community.

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New Features

The following features have been added in this release of TIBCO DataSynapse GridServer® Manager:

Release Type & Core Support

Long-Term Support (LTS) Support

DataSynapse GridServer® Manager 7.2.0 is a LTS Release. For more information about the DataSynapse GridServer® Manager LTS Support, see TIBCO LTS Policy.

Azul OpenJDK Integration

Azul Java 17.0.12 is now fully supported across all GridServer components.

Note:

Oracle Java 17 is the default Engine JRE for Win64 and Linux64.

- When running the Engine on Azul Java 17 you need to configure specific JVM parameters for the Engine and Driver Software Development Kit (SDK) components. Grid-library support is available for Linux 64-bit and Windows 64-bit.
- No installation or configuration changes are required for the Broker and Manager to support Azul OpenJDK 17.

Apache Tomcat® Upgrade

The bundled Apache Tomcat server has been upgraded to version 9.0.113.

Platform, Component, & Compiler Upgrades

Additional Platform Support

DataSynapse GridServer® Manager 7.2.0 is now supported on Rocky Linux 10, Red Hat Enterprise Linux (RHEL) 10, and Windows Server 2025.

Component Upgrades

To ensure optimal security and performance, the following third-party dependencies have been upgraded:

- Python 3.10.6 applies to Python Bridge, drivers, and associated examples.
- .NET 8
- OpenSSL 3.0.14

New Compiler Support

Integration for modern compilers has been added to leverage the latest features and optimizations for third-party libraries. This includes GCC 11.5 for Linux and VC17 for Windows. For the updated list of supported TIBCO Software, platforms, and third-party software, see the Readme file provided with TIBCO DataSynapse GridServer® Manager.

High Availability Enhancements

Secondary Director Acts as Primary

Failover reliability has been significantly enhanced. In the event of a Primary Director outage, the Secondary Director now automatically assumes the Primary role and can execute the following critical operations:

- Update Broker configurations (including modifying Broker sharing)
- Update Engine and Engine Daemon configurations
- Add new Brokers to the GridServer.
- Perform Grid Libraries Deployment
- Manage the Service Type Registry

Comprehensive REST API Additions

This release vastly expands the programmatic control by introducing new REST APIs that mirror functionalities previously only available through the user interface:

Broker Admin and Configuration

New APIs support all Broker Admin capabilities. A notable addition is the `updateBrokerConfigurationAPI`, enabling programmatic modifications to broker settings. Additionally, a `purge-broker` API has been introduced.

Broker Routing

The administrators can now list, add, delete, or update routing details by performing CRUD (Create, Read, Update, Delete) operations on broker routing properties.

Engine Configuration

You can now programmatically adjust Engine parameters and log levels without interacting with the user interface.

EngineDaemonAdmin

The offline Engine Daemons can be efficiently removed from the Director. This is specifically designed for automated daemon management in cloud environments characterized by frequent provisioning and de-provisioning.

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You can programmatically retrieve a list of Run-As Credential users, as well as add or delete a Run-As credential user.

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Drivers-All

KEY	SUMMARY
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KEY	SUMMARY
	setting with GridServer Log Level setting, then set The `DSLogLevelOverWritten` parameter is introduced to prevent the GridServer Log Level setting from overwriting the Root Logger level setting. When you set this parameter to `false`, the DataSynapse Logger does not change the Root Logger level. When you set the `DSLogLevelOverWritten` parameter to `false`, the DataSynapse Logger does not change the Root Logger level.
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Note:

When the `Synchronize Resources to Engines` property is set to `false` , the Grid Library must be placed manually along with the signature file `(.#extracted` file) under `<Engine_directory>/resources/gridlib/` `(default location)` or at the custom Grid Library path. The custom Grid Library path is the location of the Grid Libraries, set through Engine Configuration > Grid Library Path . This should only be set if not using Grid Library Synchronization.

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Note:

This parameter is only necessary for Java 17. Do not include it for lower Java versions, such as Java 8 and Java 11.

Known Issues

This section lists known issues in this release of TIBCO DataSynapse GridServer® Manager:

Engine, Engine Daemon

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Workaround: Refresh the cached engine configuration on Linux engines by performing following steps:

1. Open the Engine Configuration UI in GS 7.2.0.
2. Change Engine GCC built version from `gcc83` to `gcc115`, then save the change.
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KEY	SUMMARY
GS-19250	Summary: GridServer UI and SDK artifacts for .NET 8 are incorrectly named as .NET 5 artifacts.
GS-19127	Summary: Under Windows Authentication mode, GridServer may fail to restart after the LGPL JAR file is applied. HTTP Status `404–Not Found` error occurs on the Web UI. This occurs when the domain configuration is saved prior to the JAR deployment.

KEY	SUMMARY
GS-17640	Summary: When move Engines from GridServer version 6.3.1_hotfix05 to GridServer version 7.1.0, sometimes the win32 and win64 Engines do not move to the GridServer 7.1.0 server. The server running is the SSL server using a self-signed certificate. 1. After the Engines are online on GridServer version 6.3.1, change the Primary Director URL from 631 to 710 in the Engine Configuration. 2. Check after some time (for example, 15 secs), the GridServer version 7.1.0 Primary Director URL reflects in the `engined.log` file and that the Engine is trying to connect to the GridServer version 7.1.0 server. 3. Then copy the GridServer version 7.1.0 certificates to the Engine directory.

Manager

KEY	SUMMARY/WORKAROUND
GS-19285	Summary: There is an issue for the GridServer 7.2.0 startup on RHEL 10 machines due to the missing compatibility libraries for Apache Tomcat Native. To resolve the Grid Server startup issue on RHEL 10, install the `libxcrypt-compat` package. This package provides the necessary compatibility library for the POSIX `crypt()` API. 1. Run the following command in your terminal: `sudo dnf install libxcrypt-compat` 2. After installing the package, start the Grid Server. The server starts successfully.
GS-17691	Summary: Task collection generates an excessive amount of logs at the FINE level.

KEY	SUMMARY/WORKAROUND
GS-17647	Summary: On Windows Engines, the logs `engine-stderrxxx.log` and `engine-stdoutxxx.log` are not generated as expected.
GS-17646	Summary: If you use `DSConfigureOnStartup=true` in the `installation.properties` file to re-configure the server, it causes a Grid Cache problem. Grid Cache is not properly initialized after the server is up. For SSL server - Install SSL server using Silent installation mode - Install SSL server using UI installation mode (before installing an SSL server, a non-SSL server must not be installed)

Note:

For changing the non-SSL server to an SSL server, ensure that the Manager ID before and after reconfiguration is the same. You must manually enter the old server ID during configuration. For the non-SSL server (for converting a Broker to a Director or from Director to a Broker).

- Ensure that the Manager ID before and after reconfiguration is the same. You must manually enter the old server ID during configuration. For an already running server 1. Purge the offline Broker from Grid Components > Broker Admin. 2. Stop the server.

1. Go to `DS_DATA/cache` and delete the `old_offline_broker_` `id.broker` file.
2. Start the server.

Services

KEY	SUMMARY
GS-17423	Summary Service Priority Changed Event is not captured through Kafka Event Streaming.

TIBCO Documentation and Support Services

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

How to Access TIBCO Documentation

Documentation for TIBCO products is available on the Product Documentation website, mainly in HTML and PDF formats. The Product Documentation website is updated frequently and is more current than any other documentation included with the product.

Product-Specific Documentation

Documentation for TIBCO DataSynapse GridServer® Manager is available on the TIBCO DataSynapse GridServer® Manager Product Documentation page.

How to Contact Support for TIBCO Products

You can contact the Support team in the following ways:

- To access the Support Knowledge Base and getting personalized content about products you are interested in, visit our product Support website.
- To create a Support case, you must have a valid maintenance or support contract with a Cloud Software Group entity. You also need a username and password to log in to the product Support website. If you do not have a username, you can request one by clicking Register on the website.
- To submit ideas, suggestions, or feedback for TIBCO products, visit our product Support website.

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New Features

The following features have been added in this release of TIBCO DataSynapse GridServer® Manager:

Release Type & Core Support

Long-Term Support (LTS) Support

DataSynapse GridServer® Manager 7.2.0 is a LTS Release. For more information about the DataSynapse GridServer® Manager LTS Support, see TIBCO LTS Policy.

Azul OpenJDK Integration

Azul Java 17.0.12 is now fully supported across all GridServer components.

Note:

Oracle Java 17 is the default Engine JRE for Win64 and Linux64.

- When running the Engine on Azul Java 17 you need to configure specific JVM parameters for the Engine and Driver Software Development Kit (SDK) components. Grid-library support is available for Linux 64-bit and Windows 64-bit.
- No installation or configuration changes are required for the Broker and Manager to support Azul OpenJDK 17.

Apache Tomcat® Upgrade

The bundled Apache Tomcat server has been upgraded to version 9.0.113.

Platform, Component, & Compiler Upgrades

Additional Platform Support

DataSynapse GridServer® Manager 7.2.0 is now supported on Rocky Linux 10, Red Hat Enterprise Linux (RHEL) 10, and Windows Server 2025.

Component Upgrades

To ensure optimal security and performance, the following third-party dependencies have been upgraded:

- Python 3.10.6 applies to Python Bridge, drivers, and associated examples.
- .NET 8
- OpenSSL 3.0.14

New Compiler Support

Integration for modern compilers has been added to leverage the latest features and optimizations for third-party libraries. This includes GCC 11.5 for Linux and VC17 for Windows. For the updated list of supported TIBCO Software, platforms, and third-party software, see the Readme file provided with TIBCO DataSynapse GridServer® Manager.

High Availability Enhancements

Secondary Director Acts as Primary

Failover reliability has been significantly enhanced. In the event of a Primary Director outage, the Secondary Director now automatically assumes the Primary role and can execute the following critical operations:

- Update Broker configurations (including modifying Broker sharing)
- Update Engine and Engine Daemon configurations
- Add new Brokers to the GridServer.
- Perform Grid Libraries Deployment
- Manage the Service Type Registry

Comprehensive REST API Additions

This release vastly expands the programmatic control by introducing new REST APIs that mirror functionalities previously only available through the user interface:

Broker Admin and Configuration

New APIs support all Broker Admin capabilities. A notable addition is the `updateBrokerConfigurationAPI`, enabling programmatic modifications to broker settings. Additionally, a `purge-broker` API has been introduced.

Broker Routing

The administrators can now list, add, delete, or update routing details by performing CRUD (Create, Read, Update, Delete) operations on broker routing properties.

Engine Configuration

You can now programmatically adjust Engine parameters and log levels without interacting with the user interface.

EngineDaemonAdmin

The offline Engine Daemons can be efficiently removed from the Director. This is specifically designed for automated daemon management in cloud environments characterized by frequent provisioning and de-provisioning.

Run-As Credential

You can programmatically retrieve a list of Run-As Credential users, as well as add or delete a Run-As credential user.

Added REST API for Manager Diagnostics Logs

Access a new programmatic method for fetching integration and troubleshooting data, including Manager Logs, Environment configurations, and Task Queues.

Service Logs and Service Admin

You can search service logs for specific service sessions to monitor instances and retrieve the `grid-library.xml` configuration file for designated grid libraries.

Added REST API for Service Test

A new endpoint allows users to trigger Linpack tests directly for the job admin scheduler.

User Interface (UI) Improvements

Altered Configuration Highlighting

A configuration row is highlighted if the value is altered after comparing it with the system's default value, allowing the administrators to identify easily customized settings.

Table Row Numbering

To improve data visibility and ease of navigation, row numbers have been added to tabular pages across the application. This includes, but is not limited to the following UI pages:

- Engine Daemons
- Engine Admin
- Service Types
- User Admin

Changes in Functionality

The following changes in functionality have been made in this release of TIBCO DataSynapse GridServer® Manager:

Windows Engine Deployment

DataSynapse GridServer® Manager 7.2.0 introduces a new installation process for the Windows Engine. This update provides a unified experience that mirrors the existing Linux Engine installation workflow. The Windows Engine installer is delivered as a `.tar.gz` archive. This packaging ensures consistent delivery across different operating systems. You can now manage engine installation and execution on Windows using a built-in command-line interface.

Updated Windows Runtime Dependencies

Updated the application runtime requirements by replacing legacy Visual C++ 2013 libraries (`msvcp120.dll`, `msvcr120.dll`) with Visual C++ 2015-2022 redistributables (`msvcp140.dll`, `vcruntime140.dll`). This change ensures full compatibility and optimized performance across modern environments, including Windows Server 2016 through Windows Server 2025.

Updated Build Tooling Requirements

In DataSynapse GridServer® Manager Software Development Kit (SDK), all the core C++ and .NET components are now bundled with Visual Code 16. However, to maintain developer flexibility, the provided SDK example projects continue to be bundled with Visual Code 15 build configurations. You should ensure that the appropriate redistributables are installed for their target environment.

.NET Runtime Update

DataSynapse GridServer® Manager 7.2.0 introduces an upgrade to the underlying .NET runtime. The platform now supports .NET 8, moving from the previous .NET 6 version. This update affects both the .NET driver and the .NET bridge components. This ensures compatibility with the latest .NET framework. For details on changes in functionality since the last major release of this product, see the section Upgrading GridServer in the TIBCO DataSynapse GridServer® Manager Installation Guide.

Deprecated and Removed Features

The following feature has been deprecated or removed as of this release of TIBCO DataSynapse GridServer® Manager:

Removed Features

Removed Support for 32-bit Artifacts

DataSynapse GridServer® Manager 7.2.0 no longer supports 32-bit artifacts. This change impacts Windows (Win32) and Linux platforms.

Removed Support for SOAP APIs

The SOAP API functionality has been deprecated and so the support for SOAP API is removed from the Gridserver. The following table lists the removed SOAP APIs and their corresponding REST API replacements: | SOAP API | REST API | | --- | --- | | com.datasynapse.gridserver.admin.BatchAdmin | com.datasynapse.gridserver.rest.BatchAdmin. | | com.datasynapse.gridserver.admin.BrokerAdmin | com.datasynapse.gridserver.rest.BrokerAdmin | | com.datasynapse.gridserver.admin.DriverAdmin | com.datasynapse.gridserver.rest.DriverAdmin | | com.datasynapse.gridserver.admin.EngineAdmin | com.datasynapse.gridserver.rest.EngineAdmin | | com.datasynapse.gridserver.admin.EngineDaemonAdmin | com.datasynapse.gridserver.rest.EngineDaemonAdmin | |

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Migration and Compatibility

The following information provides migration procedures and a compatibility matrix for this release of TIBCO DataSynapse GridServer® Manager:

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In DataSynapse GridServer® Manager 7.2.0, the underlying .NET runtime has been upgraded from .NET 6 to .NET 8. This update affects both the .NET driver and the .NET bridge components. There is no change to the configured serviceType. The value NET5 continues to be used for .NET-based services and remains valid. Internally, it now targets .NET 8. Ensure that your application code, libraries, and dependencies are compatible with .NET 8. Projects must be recompiled to guarantee compatibility and runtime stability. For details on how to migrate from a previous release to the current release, see the section Upgrading GridServer in the TIBCO GridServer® Installation Guide.

Closed Issues

The following issues have been fixed in this release of TIBCO DataSynapse GridServer® Manager:

C++ Specific

KEY	SUMMARY
GS-17793	The OpenSSL library requires an updated version 3.x.

Documentation

KEY	SUMMARY
GS-15287	C++ API documentation is not consistent with the Java API documentation . In the Java API, `Service` and `ServiceInvocationHandler` methods consistently return an `invocation ID`. However, the C++ API documentation used varying terms, including handler id, id, service id, and invocation id (new invocation id)'.

Drivers-All

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Services

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Note:

When the `Synchronize Resources to Engines` property is set to `false` , the Grid Library must be placed manually along with the signature file `(.#extracted` file) under `<Engine_directory>/resources/gridlib/` `(default location)` or at the custom Grid Library path. The custom Grid Library path is the location of the Grid Libraries, set through Engine Configuration > Grid Library Path . This should only be set if not using Grid Library Synchronization.

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Note:

This parameter is only necessary for Java 17. Do not include it for lower Java versions, such as Java 8 and Java 11.

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Workaround: Refresh the cached engine configuration on Linux engines by performing following steps:

1. Open the Engine Configuration UI in GS 7.2.0.
2. Change Engine GCC built version from `gcc83` to `gcc115`, then save the change.
3. Change Engine GCC built version from `gcc115` back to `gcc83`, then save the change again. This action forces the regeneration of the cached configuration. It also updates the `x4088.default` file under `engineDistros`.

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Manager

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Note:

For changing the non-SSL server to an SSL server, ensure that the Manager ID before and after reconfiguration is the same. You must manually enter the old server ID during configuration. For the non-SSL server (for converting a Broker to a Director or from Director to a Broker).

- Ensure that the Manager ID before and after reconfiguration is the same. You must manually enter the old server ID during configuration. For an already running server 1. Purge the offline Broker from Grid Components > Broker Admin. 2. Stop the server.

1. Go to `DS_DATA/cache` and delete the `old_offline_broker_` `id.broker` file.
2. Start the server.

Services

KEY	SUMMARY
GS-17423	Summary Service Priority Changed Event is not captured through Kafka Event Streaming.

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New Features

The following features have been added in this release of TIBCO DataSynapse GridServer® Manager:

Release Type & Core Support

Long-Term Support (LTS) Support

DataSynapse GridServer® Manager 7.2.0 is a LTS Release. For more information about the DataSynapse GridServer® Manager LTS Support, see TIBCO LTS Policy.

Azul OpenJDK Integration

Azul Java 17.0.12 is now fully supported across all GridServer components.

Note:

Oracle Java 17 is the default Engine JRE for Win64 and Linux64.

- When running the Engine on Azul Java 17 you need to configure specific JVM parameters for the Engine and Driver Software Development Kit (SDK) components. Grid-library support is available for Linux 64-bit and Windows 64-bit.
- No installation or configuration changes are required for the Broker and Manager to support Azul OpenJDK 17.

Apache Tomcat® Upgrade

The bundled Apache Tomcat server has been upgraded to version 9.0.113.

Platform, Component, & Compiler Upgrades

Additional Platform Support

DataSynapse GridServer® Manager 7.2.0 is now supported on Rocky Linux 10, Red Hat Enterprise Linux (RHEL) 10, and Windows Server 2025.

Component Upgrades

To ensure optimal security and performance, the following third-party dependencies have been upgraded:

- Python 3.10.6 applies to Python Bridge, drivers, and associated examples.
- .NET 8
- OpenSSL 3.0.14

New Compiler Support

Integration for modern compilers has been added to leverage the latest features and optimizations for third-party libraries. This includes GCC 11.5 for Linux and VC17 for Windows. For the updated list of supported TIBCO Software, platforms, and third-party software, see the Readme file provided with TIBCO DataSynapse GridServer® Manager.

High Availability Enhancements

Secondary Director Acts as Primary

Failover reliability has been significantly enhanced. In the event of a Primary Director outage, the Secondary Director now automatically assumes the Primary role and can execute the following critical operations:

- Update Broker configurations (including modifying Broker sharing)
- Update Engine and Engine Daemon configurations
- Add new Brokers to the GridServer.
- Perform Grid Libraries Deployment
- Manage the Service Type Registry

Comprehensive REST API Additions

This release vastly expands the programmatic control by introducing new REST APIs that mirror functionalities previously only available through the user interface:

Broker Admin and Configuration

New APIs support all Broker Admin capabilities. A notable addition is the `updateBrokerConfigurationAPI`, enabling programmatic modifications to broker settings. Additionally, a `purge-broker` API has been introduced.

Broker Routing

The administrators can now list, add, delete, or update routing details by performing CRUD (Create, Read, Update, Delete) operations on broker routing properties.

Engine Configuration

You can now programmatically adjust Engine parameters and log levels without interacting with the user interface.

EngineDaemonAdmin

The offline Engine Daemons can be efficiently removed from the Director. This is specifically designed for automated daemon management in cloud environments characterized by frequent provisioning and de-provisioning.

Run-As Credential

You can programmatically retrieve a list of Run-As Credential users, as well as add or delete a Run-As credential user.

Added REST API for Manager Diagnostics Logs

Access a new programmatic method for fetching integration and troubleshooting data, including Manager Logs, Environment configurations, and Task Queues.

Service Logs and Service Admin

You can search service logs for specific service sessions to monitor instances and retrieve the `grid-library.xml` configuration file for designated grid libraries.

Added REST API for Service Test

A new endpoint allows users to trigger Linpack tests directly for the job admin scheduler.

User Interface (UI) Improvements

Altered Configuration Highlighting

A configuration row is highlighted if the value is altered after comparing it with the system's default value, allowing the administrators to identify easily customized settings.

Table Row Numbering

To improve data visibility and ease of navigation, row numbers have been added to tabular pages across the application. This includes, but is not limited to the following UI pages:

- Engine Daemons
- Engine Admin
- Service Types
- User Admin

Changes in Functionality

The following changes in functionality have been made in this release of TIBCO DataSynapse GridServer® Manager:

Windows Engine Deployment

DataSynapse GridServer® Manager 7.2.0 introduces a new installation process for the Windows Engine. This update provides a unified experience that mirrors the existing Linux Engine installation workflow. The Windows Engine installer is delivered as a `.tar.gz` archive. This packaging ensures consistent delivery across different operating systems. You can now manage engine installation and execution on Windows using a built-in command-line interface.

Updated Windows Runtime Dependencies

Updated the application runtime requirements by replacing legacy Visual C++ 2013 libraries (`msvcp120.dll`, `msvcr120.dll`) with Visual C++ 2015-2022 redistributables (`msvcp140.dll`, `vcruntime140.dll`). This change ensures full compatibility and optimized performance across modern environments, including Windows Server 2016 through Windows Server 2025.

Updated Build Tooling Requirements

In DataSynapse GridServer® Manager Software Development Kit (SDK), all the core C++ and .NET components are now bundled with Visual Code 16. However, to maintain developer flexibility, the provided SDK example projects continue to be bundled with Visual Code 15 build configurations. You should ensure that the appropriate redistributables are installed for their target environment.

.NET Runtime Update

DataSynapse GridServer® Manager 7.2.0 introduces an upgrade to the underlying .NET runtime. The platform now supports .NET 8, moving from the previous .NET 6 version. This update affects both the .NET driver and the .NET bridge components. This ensures compatibility with the latest .NET framework. For details on changes in functionality since the last major release of this product, see the section Upgrading GridServer in the TIBCO DataSynapse GridServer® Manager Installation Guide.

Deprecated and Removed Features

The following feature has been deprecated or removed as of this release of TIBCO DataSynapse GridServer® Manager:

Removed Features

Removed Support for 32-bit Artifacts

DataSynapse GridServer® Manager 7.2.0 no longer supports 32-bit artifacts. This change impacts Windows (Win32) and Linux platforms.

Removed Support for SOAP APIs

The SOAP API functionality has been deprecated and so the support for SOAP API is removed from the Gridserver. The following table lists the removed SOAP APIs and their corresponding REST API replacements: | SOAP API | REST API | | --- | --- | | com.datasynapse.gridserver.admin.BatchAdmin | com.datasynapse.gridserver.rest.BatchAdmin. | | com.datasynapse.gridserver.admin.BrokerAdmin | com.datasynapse.gridserver.rest.BrokerAdmin | | com.datasynapse.gridserver.admin.DriverAdmin | com.datasynapse.gridserver.rest.DriverAdmin | | com.datasynapse.gridserver.admin.EngineAdmin | com.datasynapse.gridserver.rest.EngineAdmin | | com.datasynapse.gridserver.admin.EngineDaemonAdmin | com.datasynapse.gridserver.rest.EngineDaemonAdmin | |

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com.datasynapse.webservices.gridserver.admin.BatchAdmin |
com.datasynapse.webservices.gridserver.rest.BatchAdmin | |
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com.datasynapse.webservices.gridserver.rest.BrokerAdmin | |
com.datasynapse.webservices.gridserver.admin.DriverAdmin |
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com.datasynapse.webservices.gridserver.rest.ManagerAdmin | |
com.datasynapse.webservices.gridserver.admin.ServiceAdmin |
com.datasynapse.webservices.gridserver.rest.ServiceAdmin | |
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Migration and Compatibility

The following information provides migration procedures and a compatibility matrix for this release of TIBCO DataSynapse GridServer® Manager:

.NET Runtime Update

In DataSynapse GridServer® Manager 7.2.0, the underlying .NET runtime has been upgraded from .NET 6 to .NET 8. This update affects both the .NET driver and the .NET bridge components. There is no change to the configured serviceType. The value NET5 continues to be used for .NET-based services and remains valid. Internally, it now targets .NET 8. Ensure that your application code, libraries, and dependencies are compatible with .NET 8. Projects must be recompiled to guarantee compatibility and runtime stability. For details on how to migrate from a previous release to the current release, see the section Upgrading GridServer in the TIBCO GridServer® Installation Guide.

Closed Issues

The following issues have been fixed in this release of TIBCO DataSynapse GridServer® Manager:

C++ Specific

KEY	SUMMARY
GS-17793	The OpenSSL library requires an updated version 3.x.

Documentation

KEY	SUMMARY
GS-15287	C++ API documentation is not consistent with the Java API documentation . In the Java API, `Service` and `ServiceInvocationHandler` methods consistently return an `invocation ID`. However, the C++ API documentation used varying terms, including handler id, id, service id, and invocation id (new invocation id)'.

Drivers-All

KEY	SUMMARY
GS-18964	There is an issue where the DSDriver in GridServer 7.1.0 would overwrite the Root Logger level settings of integrated Java applications. The `driver.properties` file often defaulted to a Finest logging level, which caused rapid disk storage consumption. the `DSLogLevelOverWritten` parameter If the GridServer application is integrated within another Java application and you want to prevent the overwriting of Root Logger level

KEY	SUMMARY
	setting with GridServer Log Level setting, then set The `DSLogLevelOverWritten` parameter is introduced to prevent the GridServer Log Level setting from overwriting the Root Logger level setting. When you set this parameter to `false`, the DataSynapse Logger does not change the Root Logger level. When you set the `DSLogLevelOverWritten` parameter to `false`, the DataSynapse Logger does not change the Root Logger level.
GS-16447	A security vulnerability is identified in the driver's internal web server ports. This issue involved an XSS vulnerability in the driver when you access the driver's file sharing port through HTTP.

Engine

KEY	SUMMARY
GS-19271	You must install the required Visual C++ Redistributable libraries as a prerequisite for Engine installation. The legacy Visual C++ 2013 runtime DLLs (`msvcp120.dll`, `msvcr120.dll`) are replaced with Visual C++ 2016 and later runtime DLLs (`msvcp140.dll`, `vcruntime140.dll`).
GS-19242	The Python example of Linux64 failed to run. A Python `ServiceInvocationException` is observed with the message, `Task failed after 3 retries. Last failure: Engine crashed`. This issue occurs when setting up a combo server, configuring the linux64 engine, extracting the linux64 SDK, and running the Python example after exporting `LD_` `LIBRARY_PATH` and PATH variables. To resolve this issue, changes were implemented to set correctly the `ds.PYTH_MODULE_PATH`

KEY	SUMMARY
	environment variable. The `setManagerProperties` method called `addProperties` method now tracks whether the password is already encoded, preventing double encryption and the `Invalid Password` error.
GS-18969	When the primary director is down, the secondary director becomes `Acting as Primary`. In such a case, the secondary director is not able to perform the following operations: - Update Broker configurations (change broker sharing) - Update Engine configuration - Update Engine Daemon configuration - Add a broker to the grid. - Perform Grid Libraries Deployment

Manager

KEY	SUMMARY
GS-18910	A new parameter needs to be added to handle Browser active session timeout.
GS-18844	When a single Driver submits multiple jobs, some jobs containing a large number of tasks could cause delays in the completion of other jobs with a smaller number of tasks. To mitigate this issue, a new configuration parameter, `Equal weight tasks dispatch` is introduced that ensures more equitable task dispatching. If a small job takes longer than the usual time to complete, then setting the `Equal weight tasks dispatch` parameter to `true` prevents delays in the completion of smaller jobs, even when a large job has many tasks. The default value of the `Equal weight tasks dispatch` parameter is `false`.

KEY	SUMMARY
GS-18610	Critical and high-priority Common Vulnerabilities and Exposures (CVEs) detected in the Manager and Engine components are resolved. AngularJS updated version 1.8.3 enhances UI stability and security.
GS-17648	You cannot assign a role to an LDAP user if no email is entered.
GS-17645	When changing a non-SSL server to an SSL server, the Manager (Broker) ID changes when re-configuring the server.

Note:

For changing the non-SSL server to an SSL server, ensure that the Manager ID before and after reconfiguration is the same. You must manually input the old server ID during configuration.

KEY	SUMMARY
GS-16590	In GridServer user interface (UI), if a value of the configuration row differs from the default value, then it highlights the altered configuration row with a distinct color.
GS-16589	In the GridServer user interface (UI), row numbers are displayed across all pages where data is presented in a tabular format.

Operating Systems

KEY	SUMMARY
GS-18794	Apache Tomcat should be upgraded to 9.0.113.
GS-18527	GridServer requires support for Rocky Linux 9.

REST API

KEY	SUMMARY
GS-19415	A new REST API is needed for adding, removing and fetching list of Run-As Credentials.
GS-18618	New REST APIs are required to manage various engine configuration parameters. The new REST APIs are introduced that performs all operations available for the Engine Configuration tab. You can change the engine settings, such as log levels, through an automated interface.
GS-15890	Administrators had to remove manually offline daemon entries. With the new REST API methods, you can now purge offline daemons.

Security

KEY	SUMMARY
GS-18610	Critical and high-priority Common Vulnerabilities and Exposures (CVEs) detected in the Manager and Engine components are resolved. AngularJS updated version 1.8.3 enhances UI stability and security.

Services

KEY	SUMMARY
GS-19013	When you set the `Synchronize Resources to Engines` property to `false` under Admin > System Admin > Manager Configuration > Resource Deployment, the following error is displayed, Grid Library has not been deployed. Manually updating the Grid Libraries on the Engine side did not resolve this issue. The

KEY	SUMMARY
	service would only run successfully if you set the `Synchronize Resources to Engines` property to true. This is resolved. The Manager can now find the Grid Library when the `Synchronize Resources to Engines` property is set to `false`.

Note:

When the `Synchronize Resources to Engines` property is set to `false` , the Grid Library must be placed manually along with the signature file `(.#extracted` file) under `<Engine_directory>/resources/gridlib/` `(default location)` or at the custom Grid Library path. The custom Grid Library path is the location of the Grid Libraries, set through Engine Configuration > Grid Library Path . This should only be set if not using Grid Library Synchronization.

Upgrade and Migration

KEY	SUMMARY
GS-17656	Access to internal JDK packages, which were previously available, is now restricted. So, in the Command-Line Argument in the Engine JVM section under Grid Components > Engine > Engine Configurations use the following parameters: `--add-``exports=java.desktop/com.sun.beans.editors=ALL-``UNNAMED` Select the engine configuration file based on your operating system.

Note:

This parameter is only necessary for Java 17. Do not include it for lower Java versions, such as Java 8 and Java 11.

Known Issues

This section lists known issues in this release of TIBCO DataSynapse GridServer® Manager:

Engine, Engine Daemon

KEY	SUMMARY/WORKAROUND
GS-19447	Summary: When you upgrade to GridServer (GS) 7.2.0, the `gcc34` and `gcc49` compilers are no longer supported. If you upgrade from an earlier GS version where you configured `gcc34` or `gcc49` as the Engine GCC built version, the cached engine configuration may continue to reference an unsupported GCC version.

Workaround: Refresh the cached engine configuration on Linux engines by performing following steps:

1. Open the Engine Configuration UI in GS 7.2.0.
2. Change Engine GCC built version from `gcc83` to `gcc115`, then save the change.
3. Change Engine GCC built version from `gcc115` back to `gcc83`, then save the change again. This action forces the regeneration of the cached configuration. It also updates the `x4088.default` file under `engineDistros`.

KEY	SUMMARY
GS-19250	Summary: GridServer UI and SDK artifacts for .NET 8 are incorrectly named as .NET 5 artifacts.
GS-19127	Summary: Under Windows Authentication mode, GridServer may fail to restart after the LGPL JAR file is applied. HTTP Status `404–Not Found` error occurs on the Web UI. This occurs when the domain configuration is saved prior to the JAR deployment.

KEY	SUMMARY
GS-17640	Summary: When move Engines from GridServer version 6.3.1_hotfix05 to GridServer version 7.1.0, sometimes the win32 and win64 Engines do not move to the GridServer 7.1.0 server. The server running is the SSL server using a self-signed certificate. 1. After the Engines are online on GridServer version 6.3.1, change the Primary Director URL from 631 to 710 in the Engine Configuration. 2. Check after some time (for example, 15 secs), the GridServer version 7.1.0 Primary Director URL reflects in the `engined.log` file and that the Engine is trying to connect to the GridServer version 7.1.0 server. 3. Then copy the GridServer version 7.1.0 certificates to the Engine directory.

Manager

KEY	SUMMARY/WORKAROUND
GS-19285	Summary: There is an issue for the GridServer 7.2.0 startup on RHEL 10 machines due to the missing compatibility libraries for Apache Tomcat Native. To resolve the Grid Server startup issue on RHEL 10, install the `libxcrypt-compat` package. This package provides the necessary compatibility library for the POSIX `crypt()` API. 1. Run the following command in your terminal: `sudo dnf install libxcrypt-compat` 2. After installing the package, start the Grid Server. The server starts successfully.
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1. Go to `DS_DATA/cache` and delete the `old_offline_broker_` `id.broker` file.
2. Start the server.

Services

KEY	SUMMARY
GS-17423	Summary Service Priority Changed Event is not captured through Kafka Event Streaming.

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- To submit ideas, suggestions, or feedback for TIBCO products, visit our product Support website.

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