

New Features

The following features have been added since the last major release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Version 2.2.0

Long-Term Support (LTS) Support

TIBCO DataSynapse™ High-Performance Computing Cloud Adapter 2.2.0 is a LTS Release. For more information about the DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA) LTS Support, see TIBCO LTS Policy.

Automating Deployment through Silent Installation Mode

You can now use silent installation feature to automate the deployment of DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA). For more information, see TIBCO DataSynapse™ High-Performance Computing Cloud Adapter Installation Guide.

Orphan Virtual Machine (VM) Detection and Termination

Added automated detection and termination of cloud VMs that fail to register a GridServer Engine Daemon, preventing runaway cost from untracked instances across AWS, Azure, and (Google Cloud Platform) GCP.

Cloud VM Instance Type Visibility

The GridServer UI Engines page displays two instance types from all supported cloud providers - Spot instances and On-Demand instances. This page helps the administrator to track and easily manage these cloud compute resources from a single interface.

Version 2.1.0

Restarting HPCCA

TIBCO DataSynapse™ High-Performance Computing Cloud Adapter can now restart, without restarting TIBCO DataSynapse GridServer® for changes in `cloudprovider.properties` file. You must set the `USE_HPPCA_AUTO_RESTART` property present in `cloudprovider.properties`

file to true. For more information, see TIBCODataSynapse™High-Performance Computing Cloud Adapter User Guide.

VM Batch Termination For Google Cloud Provider (GCP)

You can now stop virtual machines in batch sizes by setting the `BATCH_VM_TERMINATION` property to true in Cloud Provider.

Park Engine Feature for Aggressive Scale Down

Using the Park Engine feature, you can now mark Engine Daemon as a candidate to stop, if busy Engine count is less than or equal to `MINIMUM_BUSY_ENGINE`. This is based on value provided in `MINIMUM_BUSY_ENGINE`. For more information, see TIBCODataSynapse™High-Performance Computing Cloud Adapter User Guide.

Version 2.0.0

Support for multiple cloud providers

DataSynapse HPCCA now support engines for multiple cloud providers mentioned in the `cloudprovider.properties` file. For more information, see TIBCO DataSynapse™High-Performance Computing Cloud Adapter User Guide.

Aggressive scale down of engines

If no task is running on the DataSynapse GridServer® Engine, DataSynapse HPCCA reduces the number of engines irrespective of the `ENGINEIDLETIMEOUT` value. To enable this feature, set the `AGGRESSIVE_SCALEDOWN` property in the `cloudprovider.properties` file to true. For more information, see TIBCO DataSynapse™High-Performance Computing Cloud Adapter User Guide.

Monitoring engines on specific brokers

DataSynapse HPCCA now monitors engines on particular brokers. A list of brokers is provided in the `BROKER_HOSTNAME` property in the `cloudprovider.properties` file. For more information, see TIBCO DataSynapse™High-Performance Computing Cloud Adapter User Guide.

Version 1.5.0

No new features have been added in this release.

Version 1.4.0

Support for Google Cloud Platform

Starting from this release, DataSynapse™High-Performance Computing Cloud Adapter(HPCCA) can be configured for Google Cloud Platform (GCP) by using the `cloudprovider.properties` file. For more information, see TIBCO DataSynapse™High-Performance Computing Cloud Adapter User Guide.

Consideration for DataSynapse HPCCA engines for calculating computational need

Starting from this release, engines that are not created by DataSynapse HPCCA can be included when calculating computational needs. To enable this feature, set the `CONSIDER_NON_HPCCA_ENGINES` property in the `cloudprovider.properties` file to `true`. For more information, see TIBCO DataSynapse™High-Performance Computing CloudAdapter User Guide.

Version 1.3.0

Support for scale sets

Scale sets that allow you to create and manage a group of identical, load balanced VMs on Azure are now supported for Windows and Linux 64-bit platforms.

Version 1.2.0

Support for custom images

Custom images for both Windows and Linux 64-bit platforms are now supported on AWS and Azure.

Support for auto scaling group

Autoscaling groups for Windows and Linux 64-bit platforms are now supported on AWS.

Grid Library Deployer

A new feature to assist in deployment is a TIBCO-supported tool for deploying grid libraries from the command line. The included `GridLibraryDeployer.zip` is a simple Java-based grid library deployment utility based on the `GridLibDeployer.java` class included in the TIBCO

DataSynapse GridServer® SDK. Enter `java -jar GridLibraryDeployer.jar` at the command line. A list of options is displayed.

Support for SSL-Enabled DataSynapse GridServer® Manager

DataSynapse HPCCA can now be installed on SSL-enabled managers. Earlier versions did not support SSL-enabled managers.

Version 1.1.0

Windows engines and initial reconfiguration changes

The initial release of the DataSynapse HPCCA only included Linux-based engines. It now supports Windows engines. Also, the DataSynapse HPCCA now reconfigures an existing DataSynapse GridServer® Engine installation to enable it to connect to the current grid environment. This is done rather than the previous method of a fresh install, to enable you to configure the virtual machine to connect properly into your infrastructure and to enable for the reinstallation of things like grid libraries and caching solutions.

Version 1.0.0

TIBCO DataSynapse™ High-Performance Computing Cloud Adapter

DataSynapse HPCCA extends the functionality of DataSynapse GridServer® by enabling it to dynamically create virtual machines and provision them with the Engine Daemon. It was created to allow customers to temporarily increase their compute capacity during periods of unusually high load on their DataSynapse GridServer® deployment. The initial release, version 1.0.0, includes Linux 64-bit engines and a very simple cloud management algorithm.

Changes in Functionality

The following features have been changed since the last major release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Upgraded Cloud Provider SDKs: AWS (2.41.24), Azure (2.49.0), GCP (v1-

rev202511102.0.0).

Deprecated Features

No features have been deprecated in this release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Removed Features

No features have been removed in this release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Migration and Compatibility

The following information provides migration procedures and a compatibility matrix for this release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Migrating to Version 2.2.0

Migration to version 2.2.0 from previous versions of DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA) is not supported. For critical functionality or VM Images/AMIs that need to be used, contact TIBCO Support.

Closed Issues

The table lists closed issues since version 1.0.0 of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Version 2.2.0

No issues have been closed in this release of DataSynapse HPCCA.

Version 2.1.0

No issues have been closed in this release of DataSynapse HPCCA.

Version 2.0.0

No issues have been closed in this release of DataSynapse HPCCA.

Version 1.5.0

No issues have been closed in this release of DataSynapse HPCCA.

Version 1.4.0

No issues have been closed in this release of DataSynapse HPCCA.

Version 1.3.0

KEY	SUMMARY
GS-15344	When the GridLibrary Deployer was used without a <code>driver.properties</code> file, it threw a Malformed URL exception. The GridLibrary Deployer has been removed from this release.
GS-13281	A Null Pointer Exception appeared while editing the hook properties within the GridServer Administration tool. The adapter has been modified to fix this issue.

Version 1.2.0

Engine

KEY	SUMMARY
GS-13246	The adapter previously updated the <code>/etc/hosts</code> file on Linux Engine VMs. There is no need to do this. By introducing the customizable images and startup scripting (or ARM Templates) the Engine VM is no longer modified by the adapter automatically. If you want to continue to perform this activity, you must include it in their User Data or VM Extension scripting.

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KEY	SUMMARY
GS-13278	The Director Communication Port was not being set properly on standaloneBrokers. A <code>DIRECTORPORT</code> property was created in the <code>cloudprovider.properties</code> file which explicitly sets this value rather than relying on the <code>install.properties</code> .

Known Issues

The following issues exists in this release of TIBCO DataSynapse™High-PerformanceComputing Cloud Adapter (HPCCA).

Key Summary and Workaround

Key	Description
HPCCA-545	Summary: Users might face new VM instances spin up during VM scale down in AWS. Workaround: None. AWS support ticket is raised.
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TIBCO Documentation and Support Services

For information about this product, you can read the documentation, contact TIBCOsupport, 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

The documentation for this product is available on the TIBCO DataSynapse™ High-Performance Computing Cloud Adapter Documentation page.

Other TIBCO Product Documentation

When working with TIBCO DataSynapse™ High-Performance Computing Cloud Adapter, you may find it useful to read the documentation of the following TIBCO products:

- TIBCO DataSynapse GridServer® Manager

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 login 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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Closed Issues

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Product-Specific Documentation

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Other TIBCO Product Documentation

When working with TIBCO DataSynapse™ High-Performance Computing Cloud Adapter, you may find it useful to read the documentation of the following TIBCO products:

- TIBCO DataSynapse GridServer® Manager

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 login 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 employees 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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Starting from this release, DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA) can be configured for Google Cloud Platform (GCP) by using the `cloudprovider.properties` file. For more information, see TIBCO DataSynapse™ High-Performance Computing Cloud Adapter User Guide.

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Starting from this release, engines that are not created by DataSynapse HPCCA can be included when calculating computational needs. To enable this feature, set the

`CONSIDER_NON_HPCCA_ENGINES` property in the `cloudprovider.properties` file to `true`. For more information, see TIBCO DataSynapse™ High-Performance Computing CloudAdapter User Guide.

Version 1.3.0

Support for scale sets

Scale sets that allow you to create and manage a group of identical, load balanced VMs on Azure are now supported for Windows and Linux 64-bit platforms.

Version 1.2.0

Support for custom images

Custom images for both Windows and Linux 64-bit platforms are now supported on AWS and Azure.

Support for auto scaling group

Autoscaling groups for Windows and Linux 64-bit platforms are now supported on AWS.

Grid Library Deployer

A new feature to assist in deployment is a TIBCO-supported tool for deploying grid libraries from the command line. The included `GridLibraryDeployer.zip` is a simple Java-based grid library deployment utility based on the `GridLibDeployer.java` class included in the TIBCO DataSynapse GridServer® SDK. Enter `java -jar GridLibraryDeployer.jar` at the command line. A list of options is displayed.

Support for SSL-Enabled DataSynapse GridServer® Manager

DataSynapse HPCCA can now be installed on SSL-enabled managers. Earlier versions did not support SSL-enabled managers.

Version 1.1.0

Windows engines and initial reconfiguration changes

The initial release of the DataSynapse HPCCA only included Linux-based engines. It now supports Windows engines. Also, the DataSynapse HPCCA now reconfigures an existing DataSynapse GridServer® Engine installation to enable it to connect to the current grid environment. This is done rather than the previous method of a fresh install, to enable you to configure the virtual machine to connect properly into your infrastructure and to enable for the preinstallation of things like grid libraries and caching solutions.

Version 1.0.0

TIBCO DataSynapse™ High-Performance Computing Cloud Adapter

DataSynapse HPCCA extends the functionality of DataSynapse GridServer® by enabling it to dynamically create virtual machines and provision them with the Engine Daemon. It was created to allow customers to temporarily increase their compute capacity during periods of unusually high load on their DataSynapse GridServer® deployment. The initial release, version 1.0.0, includes Linux 64-bit engines and a very simple cloud management algorithm.

Changes in Functionality

The following features have been changed since the last major release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Upgraded Cloud Provider SDKs: AWS (2.41.24), Azure (2.49.0), GCP (v1-rev202511102.0.0).

Deprecated Features

No features have been deprecated in this release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Removed Features

No features have been removed in this release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Migration and Compatibility

The following information provides migration procedures and a compatibility matrix for this release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Migrating to Version 2.2.0

Migration to version 2.2.0 from previous versions of DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA) is not supported. For critical functionality or VM Images/AMIs that need to be used, contact TIBCO Support.

Closed Issues

The table lists closed issues since version 1.0.0 of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Version 2.2.0

No issues have been closed in this release of DataSynapse HPCCA.

Version 2.1.0

No issues have been closed in this release of DataSynapse HPCCA.

Version 2.0.0

No issues have been closed in this release of DataSynapse HPCCA.

Version 1.5.0

No issues have been closed in this release of DataSynapse HPCCA.

Version 1.4.0

No issues have been closed in this release of DataSynapse HPCCA.

Version 1.3.0

KEY	SUMMARY
GS-15344	When the GridLibrary Deployer was used without a <code>driver.properties</code> file, it threw a

KEY	SUMMARY
	Malformed URL exception. The GridLibrary Deployer has been removed from this release.
GS-13281	A Null Pointer Exception appeared while editing the hook properties within the GridServer Administration tool. The adapter has been modified to fix this issue.

Version 1.2.0

Engine

KEY	SUMMARY
GS-13246	The adapter previously updated the <code>/etc/hosts</code> file on Linux Engine VMs. There is no need to do this. By introducing the customizable images and startup scripting (or ARM Templates) the Engine VM is no longer modified by the adapter automatically. If you want to continue to perform this activity, you must include it in their User Data or VM Extension scripting.

Version 1.1.0

KEY	SUMMARY
GS-13278	The Director Communication Port was not being set properly on standalone Brokers. A <code>DIRECTORPORT</code> property was created in the <code>cloudprovider.properties</code> file which explicitly sets this value rather than relying on the <code>install.properties</code> .

Known Issues

The following issues exist in this release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Key Summary and Workaround

Key	Description
HPCCA-545	Summary: Users might face new VM instances spin up during VM scale down in AWS. Workaround: None. AWS support ticket is raised.
HPCCA-444	Summary: An unexpected error occurs on DataSynapse GridServer® UI when enabling and disabling the hook from the UI. Workaround: None

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

The documentation for this product is available on the TIBCO DataSynapse™ High-Performance Computing Cloud Adapter Documentation page.

Other TIBCO Product Documentation

When working with TIBCO DataSynapse™ High-Performance Computing Cloud Adapter, you may find it useful to read the documentation of the following TIBCO products:

- TIBCO DataSynapse GridServer® Manager

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 login 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 employees 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 since the last major release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Version 2.2.0

Long-Term Support (LTS) Support

TIBCO DataSynapse™ High-Performance Computing Cloud Adapter 2.2.0 is a LTS Release. For more information about the DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA) LTS Support, see TIBCO LTS Policy.

Automating Deployment through Silent Installation Mode

You can now use silent installation feature to automate the deployment of DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA). For more information, see TIBCO DataSynapse™ High-Performance Computing Cloud Adapter Installation Guide.

Orphan Virtual Machine (VM) Detection and Termination

Added automated detection and termination of cloud VMs that fail to register a GridServer Engine Daemon, preventing runaway cost from untracked instances across AWS, Azure, and (Google Cloud Platform) GCP.

Cloud VM Instance Type Visibility

The GridServer UI Engines page displays two instance types from all supported cloud providers - Spot instances and On-Demand instances. This page helps the administrator to track and easily manage these cloud compute resources from a single interface.

Version 2.1.0

Restarting HPCCA

TIBCO DataSynapse™ High-Performance Computing Cloud Adapter can now restart, without restarting TIBCO DataSynapse GridServer® for changes in `cloudprovider.properties` file. You must set the `USE_HPPCA_AUTO_RESTART` property present in `cloudprovider.properties` file to true. For more information, see TIBCO DataSynapse™ High-Performance Computing Cloud Adapter User Guide.

VM Batch Termination For Google Cloud Provider (GCP)

You can now stop virtual machines in batch sizes by setting the `BATCH_VM_TERMINATION` property to true in Cloud Provider.

Park Engine Feature for Aggressive Scale Down

Using the Park Engine feature, you can now mark Engine Daemon as a candidate to stop, if busy Engine count is less than or equal to `MINIMUM_BUSY_ENGINE`. This is based on value provided in `MINIMUM_BUSY_ENGINE`. For more information, see TIBCO DataSynapse™ High-Performance Computing Cloud Adapter User Guide.

Version 2.0.0

Support for multiple cloud providers

DataSynapse HPCCA now support engines for multiple cloud providers mentioned in the `cloudprovider.properties` file. For more information, see TIBCO DataSynapse™ High-Performance Computing Cloud Adapter User Guide.

Aggressive scale down of engines

If no task is running on the DataSynapse GridServer® Engine, DataSynapse HPCCA reduces the number of engines irrespective of the `ENGINEIDLETIMEOUT` value. To enable this feature, set the `AGGRESSIVE_SCALEDOWN` property in the `cloudprovider.properties` file to true. For more information, see TIBCO DataSynapse™ High-Performance Computing Cloud Adapter User Guide.

Monitoring engines on specific brokers

DataSynapse HPCCA now monitors engines on particular brokers. A list of brokers is provided in the `BROKER_HOSTNAME` property in the `cloudprovider.properties` file. For more information, see TIBCO DataSynapse™ High-Performance Computing Cloud Adapter User Guide.

Version 1.5.0

No new features have been added in this release.

Version 1.4.0

Support for Google Cloud Platform

Starting from this release, DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA) can be configured for Google Cloud Platform (GCP) by using the `cloudprovider.properties` file. For more information, see TIBCO DataSynapse™ High-Performance Computing Cloud Adapter User Guide.

Consideration for DataSynapse HPCCA engines for calculating computational need

Starting from this release, engines that are not created by DataSynapse HPCCA can be included when calculating computational needs. To enable this feature, set the `CONSIDER_NON_HPCCA_ENGINES` property in the `cloudprovider.properties` file to `true`. For more information, see TIBCO DataSynapse™ High-Performance Computing Cloud Adapter User Guide.

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Support for scale sets

Scale sets that allow you to create and manage a group of identical, load balanced VMs on Azure are now supported for Windows and Linux 64-bit platforms.

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Support for SSL-Enabled DataSynapse GridServer® Manager

DataSynapse HPCCA can now be installed on SSL-enabled managers. Earlier versions did not support SSL-enabled managers.

Version 1.1.0

Windows engines and initial reconfiguration changes

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TIBCO DataSynapse™ High-Performance Computing Cloud Adapter

DataSynapse HPCCA extends the functionality of DataSynapse GridServer® by enabling it to dynamically create virtual machines and provision them with the Engine Daemon. It was created to allow customers to temporarily increase their compute capacity during periods of unusually high load on their DataSynapse GridServer® deployment. The initial release, version 1.0.0, includes Linux 64-bit engines and a very simple cloud management algorithm.

Changes in Functionality

The following features have been changed since the last major release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Upgraded Cloud Provider SDKs: AWS (2.41.24), Azure (2.49.0), GCP (v1-rev202511102.0.0).

Deprecated Features

No features have been deprecated in this release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Removed Features

No features have been removed in this release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Migration and Compatibility

The following information provides migration procedures and a compatibility matrix for this release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Migrating to Version 2.2.0

Migration to version 2.2.0 from previous versions of DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA) is not supported. For critical functionality or VM images/AMIs that need to be used, contact TIBCO Support.

Closed Issues

The table lists closed issues since version 1.0.0 of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Version 2.2.0

No issues have been closed in this release of DataSynapse HPCCA.

Version 2.1.0

No issues have been closed in this release of DataSynapse HPCCA.

Version 2.0.0

No issues have been closed in this release of DataSynapse HPCCA.

Version 1.5.0

No issues have been closed in this release of DataSynapse HPCCA.

Version 1.4.0

No issues have been closed in this release of DataSynapse HPCCA.

Version 1.3.0

KEY	SUMMARY
GS-15344	When the GridLibrary Deployer was used without a <code>driver.properties</code> file, it threw a Malformed URL exception. The GridLibrary Deployer has been removed from this release.
GS-13281	A Null Pointer Exception appeared while editing the hook properties within the GridServer Administration tool. The adapter has been modified to fix this issue.

Version 1.2.0

Engine

KEY	SUMMARY
GS-13246	The adapter previously updated the <code>/etc/hosts</code> file on Linux Engine VMs. There is no need to do this. By introducing the customizable images and startup scripting (or ARM Templates) the Engine VM is no longer modified by the adapter automatically. If you want to continue to perform this activity, you must include it in their User Data or VM Extension scripting.

Version 1.1.0

KEY	SUMMARY
GS-13278	The Director Communication Port was not being set properly on standalone Brokers. A <code>DIRECTORPORT</code> property was created in the <code>cloudprovider.properties</code> file which explicitly sets this value rather than relying on the <code>install.properties</code> .

Known Issues

The following issues exist in this release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Key Summary and Workaround

Key	Description
HPCCA-545	Summary: Users might face new VM instances spin up during VM scale down in AWS.

	Workaround: None. AWS support ticket is raised.
HPCCA-444	Summary: An unexpected error occurs on DataSynapse GridServer® UI when enabling and disabling the hook from the UI. Workaround: None

TIBCO Documentation and Support Services

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Product-Specific Documentation

The documentation for this product is available on the TIBCO DataSynapse™ High-Performance Computing Cloud Adapter Documentation page.

Other TIBCO Product Documentation

When working with TIBCO DataSynapse™ High-Performance Computing Cloud Adapter, you may find it useful to read the documentation of the following TIBCO products:

- TIBCO DataSynapse GridServer® Manager

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 login 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 employeesubject matter experts to share and access their collective experience. TIBCO Communityoffers access to Q&A forums, product wikis, and best practices. It also offers access toextensions, adapters, solution accelerators, and tools that extend and enable customers togain 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 since the last major release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Version 2.2.0

Long-Term Support (LTS) Support

TIBCO DataSynapse™ High-Performance Computing Cloud Adapter 2.2.0 is a LTS Release. For more information about the DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA) LTS Support, see TIBCO LTS Policy.

Automating Deployment through Silent Installation Mode

You can now use silent installation feature to automate the deployment of DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA). For more information, see TIBCO DataSynapse™ High-Performance Computing Cloud Adapter Installation Guide.

Orphan Virtual Machine (VM) Detection and Termination

Added automated detection and termination of cloud VMs that fail to register aGridServer Engine Daemon, preventing runaway cost from untracked instances across AWS, Azure, and (Google Cloud Platform) GCP.

Cloud VM Instance Type Visibility

The GridServer UI Engines page displays two instance types from all supported cloud providers - Spot instances and On-Demand instances. This page helps the administrator to track and easily manage these cloud compute resources from a single interface.

Version 2.1.0

Restarting HPCCA

TIBCO DataSynapse™ High-Performance Computing Cloud Adapter can now restart, without restarting TIBCO DataSynapse GridServer® for changes in `cloudprovider.properties` file. You must set the `USE_HPPCA_AUTO_RESTART` property present in `cloudprovider.properties` file to true. For more information, see TIBCO DataSynapse™ High-Performance Computing Cloud Adapter User Guide.

VM Batch Termination For Google Cloud Provider (GCP)

You can now stop virtual machines in batch sizes by setting the `BATCH_VM_TERMINATION` property to true in Cloud Provider.

Park Engine Feature for Aggressive Scale Down

Using the Park Engine feature, you can now mark Engine Daemon as a candidate to stop, if busy Engine count is less than or equal to `MINIMUM_BUSY_ENGINE`. This is based on value provided in `MINIMUM_BUSY_ENGINE`. For more information, see TIBCO DataSynapse™ High-Performance Computing Cloud Adapter User Guide.

Version 2.0.0

Support for multiple cloud providers

DataSynapse HPCCA now supports engines for multiple cloud providers mentioned in the `cloudprovider.properties` file. For more information, see TIBCO DataSynapse™ High-Performance Computing Cloud Adapter User Guide.

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Monitoring engines on specific brokers

DataSynapse HPCCA now monitors engines on particular brokers. A list of brokers is provided in the `BROKER_HOSTNAME` property in the `cloudprovider.properties` file. For more information, see TIBCO DataSynapse™ High-Performance Computing Cloud Adapter User Guide.

Version 1.5.0

No new features have been added in this release.

Version 1.4.0

Support for Google Cloud Platform

Starting from this release, DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA) can be configured for Google Cloud Platform (GCP) by using the `cloudprovider.properties` file. For more information, see TIBCO DataSynapse™ High-Performance Computing Cloud Adapter User Guide.

Consideration for DataSynapse HPCCA engines for calculating computational need

Starting from this release, engines that are not created by DataSynapse HPCCA can be included when calculating computational needs. To enable this feature, set the `CONSIDER_NON_HPCCA_ENGINES` property in the `cloudprovider.properties` file to `true`. For more information, see TIBCO DataSynapse™ High-Performance Computing Cloud Adapter User Guide.

Version 1.3.0

Support for scale sets

Scale sets that allow you to create and manage a group of identical, load balanced VMs on Azure are now supported for Windows and Linux 64-bit platforms.

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Support for custom images

Custom images for both Windows and Linux 64-bit platforms are now supported on AWS and Azure.

Support for auto scaling group

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Grid Library Deployer

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Support for SSL-Enabled DataSynapse GridServer® Manager

DataSynapse HPCCA can now be installed on SSL-enabled managers. Earlier versions did not support SSL-enabled managers.

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Windows engines and initial reconfiguration changes

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Version 1.0.0

TIBCO DataSynapse™ High-Performance Computing Cloud Adapter

DataSynapse HPCCA extends the functionality of DataSynapse GridServer® by enabling it to dynamically create virtual machines and provision them with the Engine Daemon. It was created to allow customers to temporarily increase their compute capacity during periods of unusually high

load on their DataSynapse GridServer® deployment. The initial release, version 1.0.0, includes Linux 64-bit engines and a very simple cloud management algorithm.

Changes in Functionality

The following features have been changed since the last major release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Upgraded Cloud Provider SDKs: AWS (2.41.24), Azure (2.49.0), GCP (v1-rev202511102.0.0).

Deprecated Features

No features have been deprecated in this release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Removed Features

No features have been removed in this release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Migration and Compatibility

The following information provides migration procedures and a compatibility matrix for this release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Migrating to Version 2.2.0

Migration to version 2.2.0 from previous versions of DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA) is not supported. For critical functionality or VM Images/AMIs that need to be used, contact TIBCO Support.

Closed Issues

The table lists closed issues since version 1.0.0 of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Version 2.2.0

No issues have been closed in this release of DataSynapse HPCCA.

Version 2.1.0

No issues have been closed in this release of DataSynapse HPCCA.

Version 2.0.0

No issues have been closed in this release of DataSynapse HPCCA.

Version 1.5.0

No issues have been closed in this release of DataSynapse HPCCA.

Version 1.4.0

No issues have been closed in this release of DataSynapse HPCCA.

Version 1.3.0

KEY	SUMMARY
GS-15344	When the GridLibrary Deployer was used without a <code>driver.properties</code> file, it threw a Malformed URL exception. The GridLibrary Deployer has been removed from this release.
GS-13281	A Null Pointer Exception appeared while editing the hook properties within the GridServer Administration tool. The adapter has been modified to fix this issue.

Version 1.2.0

Engine

KEY	SUMMARY
GS-13246	The adapter previously updated the <code>/etc/hosts</code> file on Linux Engine VMs. There is no need to do this. By introducing the customizable images and startup scripting (or ARM Templates) the Engine VM is no longer modified by the adapter automatically. If you want to continue to perform this activity, you

KEY	SUMMARY
	must include itin their User Data or VM Extension scripting.

Version 1.1.0

KEY	SUMMARY
GS-13278	The Director Communication Port was not being set properly on standaloneBrokers. A <code>DIRECTORPORT</code> property was created in the <code>cloudprovider.properties</code> file which explicitly sets this value rather than relying on the <code>install.properties</code> .

Known Issues

The following issues exists in this release of TIBCO DataSynapse™High-PerformanceComputing Cloud Adapter (HPCCA).

Key Summary and Workaround

Key	Description
HPCCA-545	Summary: Users might face new VM instances spin up during VM scale down in AWS. Workaround: None. AWS support ticket is raised.
HPCCA-444	Summary: An unexpected error occurs on DataSynapse GridServer® UI when enabling and disabling the hook from the UI. Workaround: None

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

The documentation for this product is available on the TIBCO DataSynapse™ High-Performance Computing Cloud Adapter Documentation page.

Other TIBCO Product Documentation

When working with TIBCO DataSynapse™ High-Performance Computing Cloud Adapter, you may find it useful to read the documentation of the following TIBCO products:

- TIBCO DataSynapse GridServer® Manager

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 login 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 employees 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 since the last major release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Version 2.2.0

Long-Term Support (LTS) Support

TIBCO DataSynapse™ High-Performance Computing Cloud Adapter 2.2.0 is a LTS Release. For more information about the DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA) LTS Support, see TIBCO LTS Policy.

Automating Deployment through Silent Installation Mode

You can now use silent installation feature to automate the deployment of DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA). For more information, see TIBCO DataSynapse™ High-Performance Computing Cloud Adapter Installation Guide.

Orphan Virtual Machine (VM) Detection and Termination

Added automated detection and termination of cloud VMs that fail to register a GridServer Engine Daemon, preventing runaway cost from untracked instances across AWS, Azure, and (Google Cloud Platform) GCP.

Cloud VM Instance Type Visibility

The GridServer UI Engines page displays two instance types from all supported cloud providers - Spot instances and On-Demand instances. This page helps the administrator to track and easily manage these cloud compute resources from a single interface.

Version 2.1.0

Restarting HPCCA

TIBCO DataSynapse™ High-Performance Computing Cloud Adapter can now restart, without restarting TIBCO DataSynapse GridServer® for changes in `cloudprovider.properties` file. You must set the `USE_HPPCA_AUTO_RESTART` property present in `cloudprovider.properties` file to true. For more information, see TIBCO DataSynapse™ High-Performance Computing Cloud Adapter User Guide.

VM Batch Termination For Google Cloud Provider (GCP)

You can now stop virtual machines in batch sizes by setting the `BATCH_VM_TERMINATION` property to true in Cloud Provider.

Park Engine Feature for Aggressive Scale Down

Using the Park Engine feature, you can now mark Engine Daemon as a candidate to stop, if busy Engine count is less than or equal to `MINIMUM_BUSY_ENGINE`. This is based on value provided in `MINIMUM_BUSY_ENGINE`. For more information, see TIBCO DataSynapse™ High-Performance Computing Cloud Adapter User Guide.

Version 2.0.0

Support for multiple cloud providers

DataSynapse HPCCA now supports engines for multiple cloud providers mentioned in the `cloudprovider.properties` file. For more information, see TIBCO DataSynapse™ High-Performance Computing Cloud Adapter User Guide.

Aggressive scale down of engines

If no task is running on the DataSynapse GridServer® Engine, DataSynapse HPCCA reduces the number of engines irrespective of the `ENGINE_IDLE_TIMEOUT` value. To enable this feature, set the `AGGRESSIVE_SCALEDOWN` property in the `cloudprovider.properties` file to true. For more information, see TIBCO DataSynapse™ High-Performance Computing Cloud Adapter User Guide.

Monitoring engines on specific brokers

DataSynapse HPCCA now monitors engines on particular brokers. A list of brokers is provided in the `BROKER_HOSTNAME` property in the `cloudprovider.properties` file. For more information, see TIBCO DataSynapse™ High-Performance Computing Cloud Adapter User Guide.

Version 1.5.0

No new features have been added in this release.

Version 1.4.0

Support for Google Cloud Platform

Starting from this release, DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA) can be configured for Google Cloud Platform (GCP) by using the `cloudprovider.properties` file. For more information, see TIBCO DataSynapse™ High-Performance Computing Cloud Adapter User Guide.

Consideration for DataSynapse HPCCA engines for calculating computational need

Starting from this release, engines that are not created by DataSynapse HPCCA can be included when calculating computational needs. To enable this feature, set the `CONSIDER_NON_HPCCA_ENGINES` property in the `cloudprovider.properties` file to `true`. For more information, see TIBCO DataSynapse™ High-Performance Computing Cloud Adapter User Guide.

Version 1.3.0

Support for scale sets

Scale sets that allow you to create and manage a group of identical, load balanced VMs on Azure are now supported for Windows and Linux 64-bit platforms.

Version 1.2.0

Support for custom images

Custom images for both Windows and Linux 64-bit platforms are now supported on AWS and Azure.

Support for auto scaling group

Autoscaling groups for Windows and Linux 64-bit platforms are now supported on AWS.

Grid Library Deployer

A new feature to assist in deployment is a TIBCO-supported tool for deploying gridlibraries from the command line. The included `GridLibraryDeployer.zip` is a simpleJava-based grid library deployment utility based on the `GridLibDeployer.java` class included in the TIBCO DataSynapse GridServer® SDK. Enter `java -jar GridLibraryDeployer.jar` at the command line. A list of options is displayed.

Support for SSL-Enabled DataSynapse GridServer® Manager

DataSynapse HPCCA can now be installed on SSL-enabled managers. Earlier versions didnot support SSL-enabled managers.

Version 1.1.0

Windows engines and initial reconfiguration changes

The initial release of the DataSynapse HPCCA only included Linux-based engines. It now supports Windows engines. Also, the DataSynapse HPCCA now reconfigures an existing DataSynapse GridServer®Engine installation to enable it to connect to the current grid environment. This is done rather than the previous method of a fresh install, to enable you to configure the virtual machine to connect properly into your infrastructure and to enable for the preinstallation of things like grid libraries and caching solutions.

Version 1.0.0

TIBCO DataSynapse™ High-Performance Computing Cloud Adapter

DataSynapse HPCCA extends the functionality of DataSynapse GridServer® by enabling it to dynamically create virtual machines and provision them with the Engine Daemon. It was created to allow customers to temporarily increase their compute capacity during periods of unusually high load on their DataSynapse GridServer® deployment. The initial release, version 1.0.0, includes Linux 64-bit engines and a very simple cloud management algorithm.

Changes in Functionality

The following features have been changed since the last major release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Upgraded Cloud Provider SDKs: AWS (2.41.24), Azure (2.49.0), GCP (v1-rev202511102.0.0).

Deprecated Features

No features have been deprecated in this release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Removed Features

No features have been removed in this release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Migration and Compatibility

The following information provides migration procedures and a compatibility matrix for this release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Migrating to Version 2.2.0

Migration to version 2.2.0 from previous versions of DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA) is not supported. For critical functionality or VM Images/AMIs that need to be used, contact TIBCO Support.

Closed Issues

The table lists closed issues since version 1.0.0 of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Version 2.2.0

No issues have been closed in this release of DataSynapse HPCCA.

Version 2.1.0

No issues have been closed in this release of DataSynapse HPCCA.

Version 2.0.0

No issues have been closed in this release of DataSynapse HPCCA.

Version 1.5.0

No issues have been closed in this release of DataSynapse HPCCA.

Version 1.4.0

No issues have been closed in this release of DataSynapse HPCCA.

Version 1.3.0

KEY	SUMMARY
GS-15344	When the GridLibrary Deployer was used without a <code>driver.properties</code> file, it threw a Malformed URL exception. The GridLibrary Deployer has been removed from this release.
GS-13281	A Null Pointer Exception appeared while editing the hook properties within the GridServer Administration tool. The adapter has been modified to fix this issue.

Version 1.2.0

Engine

KEY	SUMMARY
GS-13246	The adapter previously updated the <code>/etc/hosts</code> file on Linux Engine VMs. There is no need to do this. By introducing the customizable images and startup scripting (or ARM Templates) the Engine VM is no longer modified by the adapter automatically. If you want to continue to perform this activity, you must include it in their User Data or VM Extension scripting.

Version 1.1.0

KEY	SUMMARY
GS-13278	The Director Communication Port was not being set properly on standalone Brokers. A <code>DIRECTORPORT</code> property was created in the <code>cloudprovider.properties</code> file which

KEY	SUMMARY
	explicitly sets this value rather than relying on the <code>install.properties</code> .

Known Issues

The following issues exists in this release of TIBCO DataSynapse™High-PerformanceComputing Cloud Adapter (HPCCA).

Key Summary and Workaround

Key	Description
HPCCA-545	Summary: Users might face new VM instances spin up during VM scale down in AWS. Workaround: None. AWS support ticket is raised.
HPCCA-444	Summary: An unexpected error occurs on DataSynapse GridServer® UI when enabling and disabling the hook from the UI. Workaround: None

TIBCO Documentation and Support Services

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Product-Specific Documentation

The documentation for this product is available on the TIBCO DataSynapse™ High-Performance Computing Cloud Adapter Documentation page.

Other TIBCO Product Documentation

When working with TIBCO DataSynapse™ High-Performance Computing Cloud Adapter, you may find it useful to read the documentation of the following TIBCO products:

- TIBCO DataSynapse GridServer® Manager

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 login 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 employees 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 since the last major release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Version 2.2.0

Long-Term Support (LTS) Support

TIBCO DataSynapse™ High-Performance Computing Cloud Adapter 2.2.0 is a LTS Release. For more information about the DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA) LTS Support, see TIBCO LTS Policy.

Automating Deployment through Silent Installation Mode

You can now use silent installation feature to automate the deployment of DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA). For more information, see TIBCO DataSynapse™ High-Performance Computing Cloud Adapter Installation Guide.

Orphan Virtual Machine (VM) Detection and Termination

Added automated detection and termination of cloud VMs that fail to register a GridServer Engine Daemon, preventing runaway cost from untracked instances across AWS, Azure, and (Google Cloud Platform) GCP.

Cloud VM Instance Type Visibility

The GridServer UI Engines page displays two instance types from all supported cloud providers - Spot instances and On-Demand instances. This page helps the administrator to track and easily manage these cloud compute resources from a single interface.

Version 2.1.0

Restarting HPCCA

TIBCO DataSynapse™ High-Performance Computing Cloud Adapter can now restart, without restarting TIBCO DataSynapse GridServer® for changes in `cloudprovider.properties` file. You must set the `USE_HPPCA_AUTO_RESTART` property present in `cloudprovider.properties` file to true. For more information, see TIBCO DataSynapse™ High-Performance Computing Cloud Adapter User Guide.

VM Batch Termination For Google Cloud Provider (GCP)

You can now stop virtual machines in batch sizes by setting the `BATCH_VM_TERMINATION` property to true in Cloud Provider.

Park Engine Feature for Aggressive Scale Down

Using the Park Engine feature, you can now mark Engine Daemon as a candidate to stop, if busy Engine count is less than or equal to `MINIMUM_BUSY_ENGINE`. This is based on value provided in `MINIMUM_BUSY_ENGINE`. For more information, see TIBCO DataSynapse™ High-Performance Computing Cloud Adapter User Guide.

Version 2.0.0

Support for multiple cloud providers

DataSynapse HPCCA now support engines for multiple cloud providers mentioned in the `cloudprovider.properties` file. For more information, see TIBCO DataSynapse™ High-Performance Computing Cloud Adapter User Guide.

Aggressive scale down of engines

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Monitoring engines on specific brokers

DataSynapse HPCCA now monitors engines on particular brokers. A list of brokers is provided in the `BROKER_HOSTNAME` property in the `cloudprovider.properties` file. For more information, see TIBCO DataSynapse™ High-Performance Computing Cloud Adapter User Guide.

Version 1.5.0

No new features have been added in this release.

Version 1.4.0

Support for Google Cloud Platform

Starting from this release, DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA) can be configured for Google Cloud Platform (GCP) by using the `cloudprovider.properties`

file. For more information, see TIBCO DataSynapse™High-Performance Computing Cloud Adapter User Guide.

Consideration for DataSynapse HPCCA engines for calculating computational need

Starting from this release, engines that are not created by DataSynapse HPCCA can be included when calculating computational needs. To enable this feature, set the

`CONSIDER_NON_HPCCA_ENGINES` property in the `cloudprovider.properties` file to `true`. For more information, see TIBCO DataSynapse™High-Performance Computing CloudAdapter User Guide.

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Support for scale sets

Scale sets that allow you to create and manage a group of identical, load balanced VMs on Azure are now supported for Windows and Linux 64-bit platforms.

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Windows engines and initial reconfiguration changes

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TIBCO DataSynapse™ High-Performance Computing Cloud Adapter

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Changes in Functionality

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Removed Features

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No issues have been closed in this release of DataSynapse HPCCA.

Version 2.0.0

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Version 1.5.0

No issues have been closed in this release of DataSynapse HPCCA.

Version 1.4.0

No issues have been closed in this release of DataSynapse HPCCA.

Version 1.3.0

KEY	SUMMARY
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KEY	SUMMARY
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Engine

KEY	SUMMARY
GS-13246	The adapter previously updated the <code>/etc/hosts</code> file on Linux Engine VMs. There is no need to do this. By introducing the customizable images and startup scripting (or ARM Templates) the Engine VM is no longer modified by the adapter automatically. If you want to continue to perform this activity, you must include it in their User Data or VM Extension scripting.

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Known Issues

The following issues exist in this release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Key Summary and Workaround

Key	Description
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Other TIBCO Product Documentation

When working with TIBCO DataSynapse™ High-Performance Computing Cloud Adapter, you may find it useful to read the documentation of the following TIBCO products:

- TIBCO DataSynapse GridServer® Manager

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 login 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 employees 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 since the last major release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Version 2.2.0

Long-Term Support (LTS) Support

TIBCO DataSynapse™ High-Performance Computing Cloud Adapter 2.2.0 is a LTS Release. For more information about the DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA) LTS Support, see TIBCO LTS Policy.

Automating Deployment through Silent Installation Mode

You can now use silent installation feature to automate the deployment of DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA). For more information, see TIBCO DataSynapse™ High-Performance Computing Cloud Adapter Installation Guide.

Orphan Virtual Machine (VM) Detection and Termination

Added automated detection and termination of cloud VMs that fail to register a GridServer Engine Daemon, preventing runaway cost from untracked instances across AWS, Azure, and (Google Cloud Platform) GCP.

Cloud VM Instance Type Visibility

The GridServer UI Engines page displays two instance types from all supported cloud providers - Spot instances and On-Demand instances. This page helps the administrator to track and easily manage these cloud compute resources from a single interface.

Version 2.1.0

Restarting HPCCA

TIBCO DataSynapse™ High-Performance Computing Cloud Adapter can now restart, without restarting TIBCO DataSynapse GridServer® for changes in `cloudprovider.properties` file. You must set the `USE_HPPCA_AUTO_RESTART` property present in `cloudprovider.properties` file to true. For more information, see TIBCO DataSynapse™ High-Performance Computing Cloud Adapter User Guide.

VM Batch Termination For Google Cloud Provider (GCP)

You can now stop virtual machines in batch sizes by setting the `BATCH_VM_TERMINATION` property to true in Cloud Provider.

Park Engine Feature for Aggressive Scale Down

Using the Park Engine feature, you can now mark Engine Daemon as a candidate to stop, if busy Engine count is less than or equal to `MINIMUM_BUSY_ENGINE`. This is based on value provided in `MINIMUM_BUSY_ENGINE`. For more information, see TIBCO DataSynapse™ High-Performance Computing Cloud Adapter User Guide.

Version 2.0.0

Support for multiple cloud providers

DataSynapse HPCCA now support engines for multiple cloud providers mentioned in the `cloudprovider.properties` file. For more information, see TIBCO DataSynapse™ High-Performance Computing Cloud Adapter User Guide.

Aggressive scale down of engines

If no task is running on the DataSynapse GridServer® Engine, DataSynapse HPCCA reduces the number of engines irrespective of the `ENGINEIDLETIMEOUT` value. To enable this feature, set the `AGGRESSIVE_SCALEDOWN` property in the `cloudprovider.properties` file to true. For more information, see TIBCO DataSynapse™ High-Performance Computing Cloud Adapter User Guide.

Monitoring engines on specific brokers

DataSynapse HPCCA now monitors engines on particular brokers. A list of brokers is provided in the `BROKER_HOSTNAME` property in the `cloudprovider.properties` file. For more information, see TIBCO DataSynapse™ High-Performance Computing Cloud Adapter User Guide.

Version 1.5.0

No new features have been added in this release.

Version 1.4.0

Support for Google Cloud Platform

Starting from this release, DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA) can be configured for Google Cloud Platform (GCP) by using the `cloudprovider.properties` file. For more information, see TIBCO DataSynapse™ High-Performance Computing Cloud Adapter User Guide.

Consideration for DataSynapse HPCCA engines for calculating computational need

Starting from this release, engines that are not created by DataSynapse HPCCA can be included when calculating computational needs. To enable this feature, set the `CONSIDER_NON_HPCCA_ENGINES` property in the `cloudprovider.properties` file to `true`. For more information, see TIBCO DataSynapse™ High-Performance Computing Cloud Adapter User Guide.

Version 1.3.0

Support for scale sets

Scale sets that allow you to create and manage a group of identical, load balanced VMs on Azure are now supported for Windows and Linux 64-bit platforms.

Version 1.2.0

Support for custom images

Custom images for both Windows and Linux 64-bit platforms are now supported on AWS and Azure.

Support for auto scaling group

Autoscaling groups for Windows and Linux 64-bit platforms are now supported on AWS.

Grid Library Deployer

A new feature to assist in deployment is a TIBCO-supported tool for deploying grid libraries from the command line. The included `GridLibraryDeployer.zip` is a simple Java-based grid library deployment utility based on the `GridLibDeployer.java` class included in the TIBCO DataSynapse GridServer® SDK. Enter `java -jar GridLibraryDeployer.jar` at the command line. A list of options is displayed.

Support for SSL-Enabled DataSynapse GridServer® Manager

DataSynapse HPCCA can now be installed on SSL-enabled managers. Earlier versions did not support SSL-enabled managers.

Version 1.1.0

Windows engines and initial reconfiguration changes

The initial release of the DataSynapse HPCCA only included Linux-based engines. It now supports Windows engines. Also, the DataSynapse HPCCA now reconfigures an existing DataSynapse GridServer® Engine installation to enable it to connect to the current grid environment. This is done rather than the previous method of a fresh install, to enable you to configure the virtual machine to connect properly into your infrastructure and to enable for the preinstallation of things like grid libraries and caching solutions.

Version 1.0.0

TIBCO DataSynapse™ High-Performance Computing Cloud Adapter

DataSynapse HPCCA extends the functionality of DataSynapse GridServer® by enabling it to dynamically create virtual machines and provision them with the Engine Daemon. It was created to allow customers to temporarily increase their compute capacity during periods of unusually high load on their DataSynapse GridServer® deployment. The initial release, version 1.0.0, includes Linux 64-bit engines and a very simple cloud management algorithm.

Changes in Functionality

The following features have been changed since the last major release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Upgraded Cloud Provider SDKs: AWS (2.41.24), Azure (2.49.0), GCP (v1-rev202511102.0.0).

Deprecated Features

No features have been deprecated in this release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Removed Features

No features have been removed in this release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Migration and Compatibility

The following information provides migration procedures and a compatibility matrix for this release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Migrating to Version 2.2.0

Migration to version 2.2.0 from previous versions of DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA) is not supported. For critical functionality or VM images/AMIs that need to be used, contact TIBCO Support.

Closed Issues

The table lists closed issues since version 1.0.0 of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Version 2.2.0

No issues have been closed in this release of DataSynapse HPCCA.

Version 2.1.0

No issues have been closed in this release of DataSynapse HPCCA.

Version 2.0.0

No issues have been closed in this release of DataSynapse HPCCA.

Version 1.5.0

No issues have been closed in this release of DataSynapse HPCCA.

Version 1.4.0

No issues have been closed in this release of DataSynapse HPCCA.

Version 1.3.0

KEY	SUMMARY
GS-15344	When the GridLibrary Deployer was used without a <code>driver.properties</code> file, it threw a Malformed URL exception. The GridLibrary Deployer has been removed from this release.
GS-13281	A Null Pointer Exception appeared while editing the hook properties within the GridServer Administration tool. The adapter has been modified to fix this issue.

Version 1.2.0

Engine

KEY	SUMMARY
GS-13246	The adapter previously updated the <code>/etc/hosts</code> file on Linux Engine VMs. There is no need to do this. By introducing the customizable images and startup scripting (or ARM Templates) the Engine VM is no longer modified by the adapter automatically. If you want to continue to perform this activity, you must include it in their User Data or VM Extension scripting.

Version 1.1.0

KEY	SUMMARY
GS-13278	The Director Communication Port was not being set properly on standalone Brokers. A <code>DIRECTORPORT</code> property was created in the <code>cloudprovider.properties</code> file which explicitly sets this value rather than relying on the <code>install.properties</code> .

Known Issues

The following issues exist in this release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Key Summary and Workaround

Key	Description
HPCCA-545	Summary: Users might face new VM instances spin up during VM scale down in AWS.

	Workaround: None. AWS support ticket is raised.
HPCCA-444	Summary: An unexpected error occurs on DataSynapse GridServer® UI when enabling and disabling the hook from the UI. Workaround: None

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

The documentation for this product is available on the TIBCO DataSynapse™ High-Performance Computing Cloud Adapter Documentation page.

Other TIBCO Product Documentation

When working with TIBCO DataSynapse™ High-Performance Computing Cloud Adapter, you may find it useful to read the documentation of the following TIBCO products:

- TIBCO DataSynapse GridServer® Manager

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.
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New Features

The following features have been added since the last major release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Version 2.2.0

Long-Term Support (LTS) Support

TIBCO DataSynapse™ High-Performance Computing Cloud Adapter 2.2.0 is a LTS Release. For more information about the DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA) LTS Support, see TIBCO LTS Policy.

Automating Deployment through Silent Installation Mode

You can now use silent installation feature to automate the deployment of DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA). For more information, see TIBCO DataSynapse™ High-Performance Computing Cloud Adapter Installation Guide.

Orphan Virtual Machine (VM) Detection and Termination

Added automated detection and termination of cloud VMs that fail to register aGridServer Engine Daemon, preventing runaway cost from untracked instances across AWS, Azure, and (Google Cloud Platform) GCP.

Cloud VM Instance Type Visibility

The GridServer UI Engines page displays two instance types from all supported cloud providers - Spot instances and On-Demand instances. This page helps the administrator to track and easily manage these cloud compute resources from a single interface.

Version 2.1.0

Restarting HPCCA

TIBCO DataSynapse™ High-Performance Computing Cloud Adapter can now restart, without restarting TIBCO DataSynapse GridServer® for changes in `cloudprovider.properties` file. You must set the `USE_HPPCA_AUTO_RESTART` property present in `cloudprovider.properties` file to true. For more information, see TIBCO DataSynapse™ High-Performance Computing Cloud Adapter User Guide.

VM Batch Termination For Google Cloud Provider (GCP)

You can now stop virtual machines in batch sizes by setting the `BATCH_VM_TERMINATION` property to true in Cloud Provider.

Park Engine Feature for Aggressive Scale Down

Using the Park Engine feature, you can now mark Engine Daemon as a candidate to stop, if busy Engine count is less than or equal to `MINIMUM_BUSY_ENGINE`. This is based on value provided in `MINIMUM_BUSY_ENGINE`. For more information, see TIBCO DataSynapse™ High-Performance Computing Cloud Adapter User Guide.

Version 2.0.0

Support for multiple cloud providers

DataSynapse HPCCA now supports engines for multiple cloud providers mentioned in the `cloudprovider.properties` file. For more information, see TIBCO DataSynapse™ High-Performance Computing Cloud Adapter User Guide.

Aggressive scale down of engines

If no task is running on the DataSynapse GridServer® Engine, DataSynapse HPCCA reduces the number of engines irrespective of the ENGINEIDLETIMEOUT value. To enable this feature, set the `AGGRESSIVE_SCALEDOWN` property in the `cloudprovider.properties` file to true. For more information, see TIBCO DataSynapse™ High-Performance Computing Cloud Adapter User Guide.

Monitoring engines on specific brokers

DataSynapse HPCCA now monitors engines on particular brokers. A list of brokers is provided in the `BROKER_HOSTNAME` property in the `cloudprovider.properties` file. For more information, see TIBCO DataSynapse™ High-Performance Computing Cloud Adapter User Guide.

Version 1.5.0

No new features have been added in this release.

Version 1.4.0

Support for Google Cloud Platform

Starting from this release, DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA) can be configured for Google Cloud Platform (GCP) by using the `cloudprovider.properties` file. For more information, see TIBCO DataSynapse™ High-Performance Computing Cloud Adapter User Guide.

Consideration for DataSynapse HPCCA engines for calculating computational need

Starting from this release, engines that are not created by DataSynapse HPCCA can be included when calculating computational needs. To enable this feature, set the `CONSIDER_NON_HPCCA_ENGINES` property in the `cloudprovider.properties` file to `true`. For more information, see TIBCO DataSynapse™ High-Performance Computing Cloud Adapter User Guide.

Version 1.3.0

Support for scale sets

Scale sets that allow you to create and manage a group of identical, load balanced VMs on Azure are now supported for Windows and Linux 64-bit platforms.

Version 1.2.0

Support for custom images

Custom images for both Windows and Linux 64-bit platforms are now supported on AWS and Azure.

Support for auto scaling group

Autoscaling groups for Windows and Linux 64-bit platforms are now supported on AWS.

Grid Library Deployer

A new feature to assist in deployment is a TIBCO-supported tool for deploying grid libraries from the command line. The included `GridLibraryDeployer.zip` is a simple Java-based grid library deployment utility based on the `GridLibDeployer.java` class included in the TIBCO DataSynapse GridServer® SDK. Enter `java -jar GridLibraryDeployer.jar` at the command line. A list of options is displayed.

Support for SSL-Enabled DataSynapse GridServer® Manager

DataSynapse HPCCA can now be installed on SSL-enabled managers. Earlier versions did not support SSL-enabled managers.

Version 1.1.0

Windows engines and initial reconfiguration changes

The initial release of the DataSynapse HPCCA only included Linux-based engines. It now supports Windows engines. Also, the DataSynapse HPCCA now reconfigures an existing DataSynapse GridServer® Engine installation to enable it to connect to the current grid environment. This is done rather than the previous method of a fresh install, to enable you to configure the virtual machine to connect properly into your infrastructure and to enable for the preinstallation of things like grid libraries and caching solutions.

Version 1.0.0

TIBCO DataSynapse™ High-Performance Computing Cloud Adapter

DataSynapse HPCCA extends the functionality of DataSynapse GridServer® by enabling it to dynamically create virtual machines and provision them with the Engine Daemon. It was created to allow customers to temporarily increase their compute capacity during periods of unusually high

load on their DataSynapse GridServer® deployment. The initial release, version 1.0.0, includes Linux 64-bit engines and a very simple cloud management algorithm.

Changes in Functionality

The following features have been changed since the last major release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Upgraded Cloud Provider SDKs: AWS (2.41.24), Azure (2.49.0), GCP (v1-rev202511102.0.0).

Deprecated Features

No features have been deprecated in this release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Removed Features

No features have been removed in this release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Migration and Compatibility

The following information provides migration procedures and a compatibility matrix for this release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Migrating to Version 2.2.0

Migration to version 2.2.0 from previous versions of DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA) is not supported. For critical functionality or VM Images/AMIs that need to be used, contact TIBCO Support.

Closed Issues

The table lists closed issues since version 1.0.0 of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Version 2.2.0

No issues have been closed in this release of DataSynapse HPCCA.

Version 2.1.0

No issues have been closed in this release of DataSynapse HPCCA.

Version 2.0.0

No issues have been closed in this release of DataSynapse HPCCA.

Version 1.5.0

No issues have been closed in this release of DataSynapse HPCCA.

Version 1.4.0

No issues have been closed in this release of DataSynapse HPCCA.

Version 1.3.0

KEY	SUMMARY
GS-15344	When the GridLibrary Deployer was used without a <code>driver.properties</code> file, it threw a Malformed URL exception. The GridLibrary Deployer has been removed from this release.
GS-13281	A Null Pointer Exception appeared while editing the hook properties within the GridServer Administration tool. The adapter has been modified to fix this issue.

Version 1.2.0

Engine

KEY	SUMMARY
GS-13246	The adapter previously updated the <code>/etc/hosts</code> file on Linux Engine VMs. There is no need to do this. By introducing the customizable images and startup scripting (or ARM Templates) the Engine VM is no longer modified by the adapter automatically. If you want to continue to perform this activity, you

KEY	SUMMARY
	must include itin their User Data or VM Extension scripting.

Version 1.1.0

KEY	SUMMARY
GS-13278	The Director Communication Port was not being set properly on standaloneBrokers. A <code>DIRECTORPORT</code> property was created in the <code>cloudprovider.properties</code> file which explicitly sets this value rather than relying on the <code>install.properties</code> .

Known Issues

The following issues exists in this release of TIBCO DataSynapse™High-PerformanceComputing Cloud Adapter (HPCCA).

Key Summary and Workaround

Key	Description
HPCCA-545	Summary: Users might face new VM instances spin up during VM scale down in AWS. Workaround: None. AWS support ticket is raised.
HPCCA-444	Summary: An unexpected error occurs on DataSynapse GridServer® UI when enabling and disabling the hook from the UI. Workaround: None

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Product-Specific Documentation

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Other TIBCO Product Documentation

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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 since the last major release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Version 2.2.0

Long-Term Support (LTS) Support

TIBCO DataSynapse™ High-Performance Computing Cloud Adapter 2.2.0 is a LTS Release. For more information about the DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA) LTS Support, see TIBCO LTS Policy.

Automating Deployment through Silent Installation Mode

You can now use silent installation feature to automate the deployment of DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA). For more information, see TIBCO DataSynapse™ High-Performance Computing Cloud Adapter Installation Guide.

Orphan Virtual Machine (VM) Detection and Termination

Added automated detection and termination of cloud VMs that fail to register a GridServer Engine Daemon, preventing runaway cost from untracked instances across AWS, Azure, and (Google Cloud Platform) GCP.

Cloud VM Instance Type Visibility

The GridServer UI Engines page displays two instance types from all supported cloud providers - Spot instances and On-Demand instances. This page helps the administrator to track and easily manage these cloud compute resources from a single interface.

Version 2.1.0

Restarting HPCCA

TIBCO DataSynapse™ High-Performance Computing Cloud Adapter can now restart, without restarting TIBCO DataSynapse GridServer® for changes in `cloudprovider.properties` file. You must set the `USE_HPPCA_AUTO_RESTART` property present in `cloudprovider.properties` file to true. For more information, see TIBCO DataSynapse™ High-Performance Computing Cloud Adapter User Guide.

VM Batch Termination For Google Cloud Provider (GCP)

You can now stop virtual machines in batch sizes by setting the `BATCH_VM_TERMINATION` property to true in Cloud Provider.

Park Engine Feature for Aggressive Scale Down

Using the Park Engine feature, you can now mark Engine Daemon as a candidate to stop, if busy Engine count is less than or equal to `MINIMUM_BUSY_ENGINE`. This is based on value provided in `MINIMUM_BUSY_ENGINE`. For more information, see TIBCO DataSynapse™ High-Performance Computing Cloud Adapter User Guide.

Version 2.0.0

Support for multiple cloud providers

DataSynapse HPCCA now supports engines for multiple cloud providers mentioned in the `cloudprovider.properties` file. For more information, see TIBCO DataSynapse™ High-Performance Computing Cloud Adapter User Guide.

Aggressive scale down of engines

If no task is running on the DataSynapse GridServer® Engine, DataSynapse HPCCA reduces the number of engines irrespective of the `ENGINE_IDLE_TIMEOUT` value. To enable this feature, set the `AGGRESSIVE_SCALEDOWN` property in the `cloudprovider.properties` file to true. For more information, see TIBCO DataSynapse™ High-Performance Computing Cloud Adapter User Guide.

Monitoring engines on specific brokers

DataSynapse HPCCA now monitors engines on particular brokers. A list of brokers is provided in the `BROKER_HOSTNAME` property in the `cloudprovider.properties` file. For more information, see TIBCO DataSynapse™ High-Performance Computing Cloud Adapter User Guide.

Version 1.5.0

No new features have been added in this release.

Version 1.4.0

Support for Google Cloud Platform

Starting from this release, DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA) can be configured for Google Cloud Platform (GCP) by using the `cloudprovider.properties` file. For more information, see TIBCO DataSynapse™ High-Performance Computing Cloud Adapter User Guide.

Consideration for DataSynapse HPCCA engines for calculating computational need

Starting from this release, engines that are not created by DataSynapse HPCCA can be included when calculating computational needs. To enable this feature, set the `CONSIDER_NON_HPCCA_ENGINES` property in the `cloudprovider.properties` file to `true`. For more information, see TIBCO DataSynapse™ High-Performance Computing Cloud Adapter User Guide.

Version 1.3.0

Support for scale sets

Scale sets that allow you to create and manage a group of identical, load balanced VMs on Azure are now supported for Windows and Linux 64-bit platforms.

Version 1.2.0

Support for custom images

Custom images for both Windows and Linux 64-bit platforms are now supported on AWS and Azure.

Support for auto scaling group

Autoscaling groups for Windows and Linux 64-bit platforms are now supported on AWS.

Grid Library Deployer

A new feature to assist in deployment is a TIBCO-supported tool for deploying gridlibraries from the command line. The included `GridLibraryDeployer.zip` is a simpleJava-based grid library deployment utility based on the `GridLibDeployer.java` classincluded in the TIBCO DataSynapse GridServer® SDK. Enter `java -jar GridLibraryDeployer.jar` at the command line. A list of options is displayed.

Support for SSL-Enabled DataSynapse GridServer® Manager

DataSynapse HPCCA can now be installed on SSL-enabled managers. Earlier versions didnot support SSL-enabled managers.

Version 1.1.0

Windows engines and initial reconfiguration changes

The initial release of the DataSynapse HPCCA only included Linux-based engines. It nowsupports Windows engines. Also, the DataSynapse HPCCA now reconfigures an existing DataSynapse GridServer®Engine installation to enable it to connect to the current grid environment. This is donerather than the previous method of a fresh install, to enable you to configure the virtualmachine to connect properly into your infrastructure and to enable for thepreinstallation of things like grid libraries and caching solutions.

Version 1.0.0

TIBCO DataSynapse™High-Performance Computing Cloud Adapter

DataSynapse HPCCA extends the functionality of DataSynapse GridServer® by enabling itto dynamically create virtual machines and provision them with the Engine Daemon. Itwas created to allow customers to temporarily increase their compute capacity duringperiods of unusually high load on their DataSynapse GridServer® deployment. The initialrelease, version 1.0.0, includes Linux 64-bit engines and a very simple cloudmanagement algorithm.

Changes in Functionality

The following feature have been changed since the last major release of TIBCODataSynapse™High-Performance Computing Cloud Adapter (HPCCA).

Upgraded Cloud Provider SDKs: AWS (2.41.24), Azure (2.49.0), GCP (v1-rev202511102.0.0).

Deprecated Features

No features have been deprecated in this release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Removed Features

No features have been removed in this release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Migration and Compatibility

The following information provides migration procedures and a compatibility matrix for this release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Migrating to Version 2.2.0

Migration to version 2.2.0 from previous versions of DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA) is not supported. For critical functionality or VM Images/AMIs that need to be used, contact TIBCO Support.

Closed Issues

The table lists closed issues since version 1.0.0 of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Version 2.2.0

No issues have been closed in this release of DataSynapse HPCCA.

Version 2.1.0

No issues have been closed in this release of DataSynapse HPCCA.

Version 2.0.0

No issues have been closed in this release of DataSynapse HPCCA.

Version 1.5.0

No issues have been closed in this release of DataSynapse HPCCA.

Version 1.4.0

No issues have been closed in this release of DataSynapse HPCCA.

Version 1.3.0

KEY	SUMMARY
GS-15344	When the GridLibrary Deployer was used without a <code>driver.properties</code> file, it threw a Malformed URL exception. The GridLibrary Deployer has been removed from this release.
GS-13281	A Null Pointer Exception appeared while editing the hook properties within the GridServer Administration tool. The adapter has been modified to fix this issue.

Version 1.2.0

Engine

KEY	SUMMARY
GS-13246	The adapter previously updated the <code>/etc/hosts</code> file on Linux Engine VMs. There is no need to do this. By introducing the customizable images and startup scripting (or ARM Templates) the Engine VM is no longer modified by the adapter automatically. If you want to continue to perform this activity, you must include it in their User Data or VM Extension scripting.

Version 1.1.0

KEY	SUMMARY
GS-13278	The Director Communication Port was not being set properly on standalone Brokers. A <code>DIRECTORPORT</code> property was created in the <code>cloudprovider.properties</code> file which

KEY	SUMMARY
	explicitly sets this value rather than relying on the <code>install.properties</code> .

Known Issues

The following issues exists in this release of TIBCO DataSynapse™High-PerformanceComputing Cloud Adapter (HPCCA).

Key Summary and Workaround

Key	Description
HPCCA-545	Summary: Users might face new VM instances spin up during VM scale down in AWS. Workaround: None. AWS support ticket is raised.
HPCCA-444	Summary: An unexpected error occurs on DataSynapse GridServer® UI when enabling and disabling the hook from the UI. Workaround: None

TIBCO Documentation and Support Services

For information about this product, you can read the documentation, contact TIBCOsupport, 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 anyother documentation included with the product.

Product-Specific Documentation

The documentation for this product is available on the TIBCO DataSynapse™ High-Performance Computing Cloud Adapter Documentation page.

Other TIBCO Product Documentation

When working with TIBCO DataSynapse™ High-Performance Computing Cloud Adapter, you may find it useful to read the documentation of the following TIBCO products:

- TIBCO DataSynapse GridServer® Manager

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 login 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 employees 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 since the last major release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Version 2.2.0

Long-Term Support (LTS) Support

TIBCO DataSynapse™ High-Performance Computing Cloud Adapter 2.2.0 is a LTS Release. For more information about the DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA) LTS Support, see TIBCO LTS Policy.

Automating Deployment through Silent Installation Mode

You can now use silent installation feature to automate the deployment of DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA). For more information, see TIBCO DataSynapse™ High-Performance Computing Cloud Adapter Installation Guide.

Orphan Virtual Machine (VM) Detection and Termination

Added automated detection and termination of cloud VMs that fail to register a GridServer Engine Daemon, preventing runaway cost from untracked instances across AWS, Azure, and (Google Cloud Platform) GCP.

Cloud VM Instance Type Visibility

The GridServer UI Engines page displays two instance types from all supported cloud providers - Spot instances and On-Demand instances. This page helps the administrator to track and easily manage these cloud compute resources from a single interface.

Version 2.1.0

Restarting HPCCA

TIBCO DataSynapse™ High-Performance Computing Cloud Adapter can now restart, without restarting TIBCO DataSynapse GridServer® for changes in `cloudprovider.properties` file. You must set the `USE_HPPCA_AUTO_RESTART` property present in `cloudprovider.properties`

file to true. For more information, see TIBCODataSynapse™High-Performance Computing Cloud Adapter User Guide.

VM Batch Termination For Google Cloud Provider (GCP)

You can now stop virtual machines in batch sizes by setting the `BATCH_VM_TERMINATION` property to true in Cloud Provider.

Park Engine Feature for Aggressive Scale Down

Using the Park Engine feature, you can now mark Engine Daemon as a candidate to stop, if busy Engine count is less than or equal to `MINIMUM_BUSY_ENGINE`. This is based on value provided in `MINIMUM_BUSY_ENGINE`. For more information, see TIBCODataSynapse™High-Performance Computing Cloud Adapter User Guide.

Version 2.0.0

Support for multiple cloud providers

DataSynapse HPCCA now support engines for multiple cloud providers mentioned in the `cloudprovider.properties` file. For more information, see TIBCO DataSynapse™High-Performance Computing Cloud Adapter User Guide.

Aggressive scale down of engines

If no task is running on the DataSynapse GridServer® Engine, DataSynapse HPCCA reduces the number of engines irrespective of the `ENGINEIDLETIMEOUT` value. To enable this feature, set the `AGGRESSIVE_SCALEDOWN` property in the `cloudprovider.properties` file to true. For more information, see TIBCO DataSynapse™High-Performance Computing Cloud Adapter User Guide.

Monitoring engines on specific brokers

DataSynapse HPCCA now monitors engines on particular brokers. A list of brokers is provided in the `BROKER_HOSTNAME` property in the `cloudprovider.properties` file. For more information, see TIBCO DataSynapse™High-Performance Computing Cloud Adapter User Guide.

Version 1.5.0

No new features have been added in this release.

Version 1.4.0

Support for Google Cloud Platform

Starting from this release, DataSynapse™High-Performance Computing Cloud Adapter(HPCCA) can be configured for Google Cloud Platform (GCP) by using the `cloudprovider.properties` file. For more information, see TIBCO DataSynapse™High-Performance Computing Cloud Adapter User Guide.

Consideration for DataSynapse HPCCA engines for calculating computational need

Starting from this release, engines that are not created by DataSynapse HPCCA can be included when calculating computational needs. To enable this feature, set the `CONSIDER_NON_HPCCA_ENGINES` property in the `cloudprovider.properties` file to `true`. For more information, see TIBCO DataSynapse™High-Performance Computing CloudAdapter User Guide.

Version 1.3.0

Support for scale sets

Scale sets that allow you to create and manage a group of identical, load balanced VMs on Azure are now supported for Windows and Linux 64-bit platforms.

Version 1.2.0

Support for custom images

Custom images for both Windows and Linux 64-bit platforms are now supported on AWS and Azure.

Support for auto scaling group

Autoscaling groups for Windows and Linux 64-bit platforms are now supported on AWS.

Grid Library Deployer

A new feature to assist in deployment is a TIBCO-supported tool for deploying grid libraries from the command line. The included `GridLibraryDeployer.zip` is a simple Java-based grid library deployment utility based on the `GridLibDeployer.java` class included in the TIBCO

DataSynapse GridServer® SDK. Enter `java -jar GridLibraryDeployer.jar` at the command line. A list of options is displayed.

Support for SSL-Enabled DataSynapse GridServer® Manager

DataSynapse HPCCA can now be installed on SSL-enabled managers. Earlier versions did not support SSL-enabled managers.

Version 1.1.0

Windows engines and initial reconfiguration changes

The initial release of the DataSynapse HPCCA only included Linux-based engines. It now supports Windows engines. Also, the DataSynapse HPCCA now reconfigures an existing DataSynapse GridServer® Engine installation to enable it to connect to the current grid environment. This is done rather than the previous method of a fresh install, to enable you to configure the virtual machine to connect properly into your infrastructure and to enable for the reinstallation of things like grid libraries and caching solutions.

Version 1.0.0

TIBCO DataSynapse™ High-Performance Computing Cloud Adapter

DataSynapse HPCCA extends the functionality of DataSynapse GridServer® by enabling it to dynamically create virtual machines and provision them with the Engine Daemon. It was created to allow customers to temporarily increase their compute capacity during periods of unusually high load on their DataSynapse GridServer® deployment. The initial release, version 1.0.0, includes Linux 64-bit engines and a very simple cloud management algorithm.

Changes in Functionality

The following features have been changed since the last major release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Upgraded Cloud Provider SDKs: AWS (2.41.24), Azure (2.49.0), GCP (v1-

rev202511102.0.0).

Deprecated Features

No features have been deprecated in this release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Removed Features

No features have been removed in this release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Migration and Compatibility

The following information provides migration procedures and a compatibility matrix for this release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Migrating to Version 2.2.0

Migration to version 2.2.0 from previous versions of DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA) is not supported. For critical functionality or VM Images/AMIs that need to be used, contact TIBCO Support.

Closed Issues

The table lists closed issues since version 1.0.0 of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Version 2.2.0

No issues have been closed in this release of DataSynapse HPCCA.

Version 2.1.0

No issues have been closed in this release of DataSynapse HPCCA.

Version 2.0.0

No issues have been closed in this release of DataSynapse HPCCA.

Version 1.5.0

No issues have been closed in this release of DataSynapse HPCCA.

Version 1.4.0

No issues have been closed in this release of DataSynapse HPCCA.

Version 1.3.0

KEY	SUMMARY
GS-15344	When the GridLibrary Deployer was used without a <code>driver.properties</code> file, it threw a Malformed URL exception. The GridLibrary Deployer has been removed from this release.
GS-13281	A Null Pointer Exception appeared while editing the hook properties within the GridServer Administration tool. The adapter has been modified to fix this issue.

Version 1.2.0

Engine

KEY	SUMMARY
GS-13246	The adapter previously updated the <code>/etc/hosts</code> file on Linux Engine VMs. There is no need to do this. By introducing the customizable images and startup scripting (or ARM Templates) the Engine VM is no longer modified by the adapter automatically. If you want to continue to perform this activity, you must include it in their User Data or VM Extension scripting.

Version 1.1.0

KEY	SUMMARY
GS-13278	The Director Communication Port was not being set properly on standaloneBrokers. A <code>DIRECTORPORT</code> property was created in the <code>cloudprovider.properties</code> file which explicitly sets this value rather than relying on the <code>install.properties</code> .

Known Issues

The following issues exists in this release of TIBCO DataSynapse™High-PerformanceComputing Cloud Adapter (HPCCA).

Key Summary and Workaround

Key	Description
HPCCA-545	Summary: Users might face new VM instances spin up during VM scale down in AWS. Workaround: None. AWS support ticket is raised.
HPCCA-444	Summary: An unexpected error occurs on DataSynapse GridServer® UI when enabling and disabling the hook from the UI. Workaround: None

TIBCO Documentation and Support Services

For information about this product, you can read the documentation, contact TIBCOsupport, 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

The documentation for this product is available on the TIBCO DataSynapse™ High-Performance Computing Cloud Adapter Documentation page.

Other TIBCO Product Documentation

When working with TIBCO DataSynapse™ High-Performance Computing Cloud Adapter, you may find it useful to read the documentation of the following TIBCO products:

- TIBCO DataSynapse GridServer® Manager

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 login 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 employees 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 since the last major release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Version 2.2.0

Long-Term Support (LTS) Support

TIBCO DataSynapse™ High-Performance Computing Cloud Adapter 2.2.0 is a LTS Release. For more information about the DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA) LTS Support, see TIBCO LTS Policy.

Automating Deployment through Silent Installation Mode

You can now use silent installation feature to automate the deployment of DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA). For more information, see TIBCO DataSynapse™ High-Performance Computing Cloud Adapter Installation Guide.

Orphan Virtual Machine (VM) Detection and Termination

Added automated detection and termination of cloud VMs that fail to register a GridServer Engine Daemon, preventing runaway cost from untracked instances across AWS, Azure, and (Google Cloud Platform) GCP.

Cloud VM Instance Type Visibility

The GridServer UI Engines page displays two instance types from all supported cloud providers - Spot instances and On-Demand instances. This page helps the administrator to track and easily manage these cloud compute resources from a single interface.

Version 2.1.0

Restarting HPCCA

TIBCO DataSynapse™ High-Performance Computing Cloud Adapter can now restart, without restarting TIBCO DataSynapse GridServer® for changes in `cloudprovider.properties` file.

You must set the `USE_HPPCA_AUTO_RESTART` property present in `cloudprovider.properties`

file to true. For more information, see TIBCODataSynapse™High-Performance Computing Cloud Adapter User Guide.

VM Batch Termination For Google Cloud Provider (GCP)

You can now stop virtual machines in batch sizes by setting the `BATCH_VM_TERMINATION` property to true in Cloud Provider.

Park Engine Feature for Aggressive Scale Down

Using the Park Engine feature, you can now mark Engine Daemon as a candidate to stop, if busy Engine count is less than or equal to `MINIMUM_BUSY_ENGINE`. This is based on value provided in `MINIMUM_BUSY_ENGINE`. For more information, see TIBCODataSynapse™High-Performance Computing Cloud Adapter User Guide.

Version 2.0.0

Support for multiple cloud providers

DataSynapse HPCCA now support engines for multiple cloud providers mentioned in the `cloudprovider.properties` file. For more information, see TIBCO DataSynapse™High-Performance Computing Cloud Adapter User Guide.

Aggressive scale down of engines

If no task is running on the DataSynapse GridServer® Engine, DataSynapse HPCCA reduces the number of engines irrespective of the `ENGINEIDLETIMEOUT` value. To enable this feature, set the `AGGRESSIVE_SCALEDOWN` property in the `cloudprovider.properties` file to true. For more information, see TIBCO DataSynapse™High-Performance Computing Cloud Adapter User Guide.

Monitoring engines on specific brokers

DataSynapse HPCCA now monitors engines on particular brokers. A list of brokers is provided in the `BROKER_HOSTNAME` property in the `cloudprovider.properties` file. For more information, see TIBCO DataSynapse™High-Performance Computing Cloud Adapter User Guide.

Version 1.5.0

No new features have been added in this release.

Version 1.4.0

Support for Google Cloud Platform

Starting from this release, DataSynapse™High-Performance Computing Cloud Adapter(HPCCA) can be configured for Google Cloud Platform (GCP) by using the `cloudprovider.properties` file. For more information, see TIBCO DataSynapse™High-Performance Computing Cloud Adapter User Guide.

Consideration for DataSynapse HPCCA engines for calculating computational need

Starting from this release, engines that are not created by DataSynapse HPCCA can be included when calculating computational needs. To enable this feature, set the `CONSIDER_NON_HPCCA_ENGINES` property in the `cloudprovider.properties` file to `true`. For more information, see TIBCO DataSynapse™High-Performance Computing CloudAdapter User Guide.

Version 1.3.0

Support for scale sets

Scale sets that allow you to create and manage a group of identical, load balanced VMs on Azure are now supported for Windows and Linux 64-bit platforms.

Version 1.2.0

Support for custom images

Custom images for both Windows and Linux 64-bit platforms are now supported on AWS and Azure.

Support for auto scaling group

Autoscaling groups for Windows and Linux 64-bit platforms are now supported on AWS.

Grid Library Deployer

A new feature to assist in deployment is a TIBCO-supported tool for deploying grid libraries from the command line. The included `GridLibraryDeployer.zip` is a simple Java-based grid library deployment utility based on the `GridLibDeployer.java` class included in the TIBCO

DataSynapse GridServer® SDK. Enter `java -jar GridLibraryDeployer.jar` at the command line. A list of options is displayed.

Support for SSL-Enabled DataSynapse GridServer® Manager

DataSynapse HPCCA can now be installed on SSL-enabled managers. Earlier versions did not support SSL-enabled managers.

Version 1.1.0

Windows engines and initial reconfiguration changes

The initial release of the DataSynapse HPCCA only included Linux-based engines. It now supports Windows engines. Also, the DataSynapse HPCCA now reconfigures an existing DataSynapse GridServer® Engine installation to enable it to connect to the current grid environment. This is done rather than the previous method of a fresh install, to enable you to configure the virtual machine to connect properly into your infrastructure and to enable for the reinstallation of things like grid libraries and caching solutions.

Version 1.0.0

TIBCO DataSynapse™ High-Performance Computing Cloud Adapter

DataSynapse HPCCA extends the functionality of DataSynapse GridServer® by enabling it to dynamically create virtual machines and provision them with the Engine Daemon. It was created to allow customers to temporarily increase their compute capacity during periods of unusually high load on their DataSynapse GridServer® deployment. The initial release, version 1.0.0, includes Linux 64-bit engines and a very simple cloud management algorithm.

Changes in Functionality

The following features have been changed since the last major release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Upgraded Cloud Provider SDKs: AWS (2.41.24), Azure (2.49.0), GCP (v1-

rev202511102.0.0).

Deprecated Features

No features have been deprecated in this release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Removed Features

No features have been removed in this release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Migration and Compatibility

The following information provides migration procedures and a compatibility matrix for this release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Migrating to Version 2.2.0

Migration to version 2.2.0 from previous versions of DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA) is not supported. For critical functionality or VM Images/AMIs that need to be used, contact TIBCO Support.

Closed Issues

The table lists closed issues since version 1.0.0 of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Version 2.2.0

No issues have been closed in this release of DataSynapse HPCCA.

Version 2.1.0

No issues have been closed in this release of DataSynapse HPCCA.

Version 2.0.0

No issues have been closed in this release of DataSynapse HPCCA.

Version 1.5.0

No issues have been closed in this release of DataSynapse HPCCA.

Version 1.4.0

No issues have been closed in this release of DataSynapse HPCCA.

Version 1.3.0

KEY	SUMMARY
GS-15344	When the GridLibrary Deployer was used without a <code>driver.properties</code> file, it threw a Malformed URL exception. The GridLibrary Deployer has been removed from this release.
GS-13281	A Null Pointer Exception appeared while editing the hook properties within the GridServer Administration tool. The adapter has been modified to fix this issue.

Version 1.2.0

Engine

KEY	SUMMARY
GS-13246	The adapter previously updated the <code>/etc/hosts</code> file on Linux Engine VMs. There is no need to do this. By introducing the customizable images and startup scripting (or ARM Templates) the Engine VM is no longer modified by the adapter automatically. If you want to continue to perform this activity, you must include it in their User Data or VM Extension scripting.

Version 1.1.0

KEY	SUMMARY
GS-13278	The Director Communication Port was not being set properly on standaloneBrokers. A <code>DIRECTORPORT</code> property was created in the <code>cloudprovider.properties</code> file which explicitly sets this value rather than relying on the <code>install.properties</code> .

Known Issues

The following issues exists in this release of TIBCO DataSynapse™High-PerformanceComputing Cloud Adapter (HPCCA).

Key Summary and Workaround

Key	Description
HPCCA-545	Summary: Users might face new VM instances spin up during VM scale down in AWS. Workaround: None. AWS support ticket is raised.
HPCCA-444	Summary: An unexpected error occurs on DataSynapse GridServer® UI when enabling and disabling the hook from the UI. Workaround: None

TIBCO Documentation and Support Services

For information about this product, you can read the documentation, contact TIBCOsupport, 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

The documentation for this product is available on the TIBCO DataSynapse™ High-Performance Computing Cloud Adapter Documentation page.

Other TIBCO Product Documentation

When working with TIBCO DataSynapse™ High-Performance Computing Cloud Adapter, you may find it useful to read the documentation of the following TIBCO products:

- TIBCO DataSynapse GridServer® Manager

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 login 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 since the last major release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Version 2.2.0

Long-Term Support (LTS) Support

TIBCO DataSynapse™ High-Performance Computing Cloud Adapter 2.2.0 is a LTS Release. For more information about the DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA) LTS Support, see TIBCO LTS Policy.

Automating Deployment through Silent Installation Mode

You can now use silent installation feature to automate the deployment of DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA). For more information, see TIBCO DataSynapse™ High-Performance Computing Cloud Adapter Installation Guide.

Orphan Virtual Machine (VM) Detection and Termination

Added automated detection and termination of cloud VMs that fail to register a GridServer Engine Daemon, preventing runaway cost from untracked instances across AWS, Azure, and (Google Cloud Platform) GCP.

Cloud VM Instance Type Visibility

The GridServer UI Engines page displays two instance types from all supported cloud providers - Spot instances and On-Demand instances. This page helps the administrator to track and easily manage these cloud compute resources from a single interface.

Version 2.1.0

Restarting HPCCA

TIBCO DataSynapse™ High-Performance Computing Cloud Adapter can now restart, without restarting TIBCO DataSynapse GridServer® for changes in `cloudprovider.properties` file. You must set the `USE_HPPCA_AUTO_RESTART` property present in `cloudprovider.properties`

file to true. For more information, see TIBCODataSynapse™High-Performance Computing Cloud Adapter User Guide.

VM Batch Termination For Google Cloud Provider (GCP)

You can now stop virtual machines in batch sizes by setting the `BATCH_VM_TERMINATION` property to true in Cloud Provider.

Park Engine Feature for Aggressive Scale Down

Using the Park Engine feature, you can now mark Engine Daemon as a candidate to stop, if busy Engine count is less than or equal to `MINIMUM_BUSY_ENGINE`. This is based on value provided in `MINIMUM_BUSY_ENGINE`. For more information, see TIBCODataSynapse™High-Performance Computing Cloud Adapter User Guide.

Version 2.0.0

Support for multiple cloud providers

DataSynapse HPCCA now support engines for multiple cloud providers mentioned in the `cloudprovider.properties` file. For more information, see TIBCO DataSynapse™High-Performance Computing Cloud Adapter User Guide.

Aggressive scale down of engines

If no task is running on the DataSynapse GridServer® Engine, DataSynapse HPCCA reduces the number of engines irrespective of the `ENGINEIDLETIMEOUT` value. To enable this feature, set the `AGGRESSIVE_SCALEDOWN` property in the `cloudprovider.properties` file to true. For more information, see TIBCO DataSynapse™High-Performance Computing Cloud Adapter User Guide.

Monitoring engines on specific brokers

DataSynapse HPCCA now monitors engines on particular brokers. A list of brokers is provided in the `BROKER_HOSTNAME` property in the `cloudprovider.properties` file. For more information, see TIBCO DataSynapse™High-Performance Computing Cloud Adapter User Guide.

Version 1.5.0

No new features have been added in this release.

Version 1.4.0

Support for Google Cloud Platform

Starting from this release, DataSynapse™High-Performance Computing Cloud Adapter(HPCCA) can be configured for Google Cloud Platform (GCP) by using the `cloudprovider.properties` file. For more information, see TIBCO DataSynapse™High-Performance Computing Cloud Adapter User Guide.

Consideration for DataSynapse HPCCA engines for calculating computational need

Starting from this release, engines that are not created by DataSynapse HPCCA can be included when calculating computational needs. To enable this feature, set the `CONSIDER_NON_HPCCA_ENGINES` property in the `cloudprovider.properties` file to `true`. For more information, see TIBCO DataSynapse™High-Performance Computing CloudAdapter User Guide.

Version 1.3.0

Support for scale sets

Scale sets that allow you to create and manage a group of identical, load balanced VMs on Azure are now supported for Windows and Linux 64-bit platforms.

Version 1.2.0

Support for custom images

Custom images for both Windows and Linux 64-bit platforms are now supported on AWS and Azure.

Support for auto scaling group

Autoscaling groups for Windows and Linux 64-bit platforms are now supported on AWS.

Grid Library Deployer

A new feature to assist in deployment is a TIBCO-supported tool for deploying grid libraries from the command line. The included `GridLibraryDeployer.zip` is a simple Java-based grid library deployment utility based on the `GridLibDeployer.java` class included in the TIBCO

DataSynapse GridServer® SDK. Enter `java -jar GridLibraryDeployer.jar` at the command line. A list of options is displayed.

Support for SSL-Enabled DataSynapse GridServer® Manager

DataSynapse HPCCA can now be installed on SSL-enabled managers. Earlier versions did not support SSL-enabled managers.

Version 1.1.0

Windows engines and initial reconfiguration changes

The initial release of the DataSynapse HPCCA only included Linux-based engines. It now supports Windows engines. Also, the DataSynapse HPCCA now reconfigures an existing DataSynapse GridServer® Engine installation to enable it to connect to the current grid environment. This is done rather than the previous method of a fresh install, to enable you to configure the virtual machine to connect properly into your infrastructure and to enable for the reinstallation of things like grid libraries and caching solutions.

Version 1.0.0

TIBCO DataSynapse™ High-Performance Computing Cloud Adapter

DataSynapse HPCCA extends the functionality of DataSynapse GridServer® by enabling it to dynamically create virtual machines and provision them with the Engine Daemon. It was created to allow customers to temporarily increase their compute capacity during periods of unusually high load on their DataSynapse GridServer® deployment. The initial release, version 1.0.0, includes Linux 64-bit engines and a very simple cloud management algorithm.

Changes in Functionality

The following features have been changed since the last major release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Upgraded Cloud Provider SDKs: AWS (2.41.24), Azure (2.49.0), GCP (v1-

rev202511102.0.0).

Deprecated Features

No features have been deprecated in this release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Removed Features

No features have been removed in this release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Migration and Compatibility

The following information provides migration procedures and a compatibility matrix for this release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Migrating to Version 2.2.0

Migration to version 2.2.0 from previous versions of DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA) is not supported. For critical functionality or VM Images/AMIs that need to be used, contact TIBCO Support.

Closed Issues

The table lists closed issues since version 1.0.0 of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Version 2.2.0

No issues have been closed in this release of DataSynapse HPCCA.

Version 2.1.0

No issues have been closed in this release of DataSynapse HPCCA.

Version 2.0.0

No issues have been closed in this release of DataSynapse HPCCA.

Version 1.5.0

No issues have been closed in this release of DataSynapse HPCCA.

Version 1.4.0

No issues have been closed in this release of DataSynapse HPCCA.

Version 1.3.0

KEY	SUMMARY
GS-15344	When the GridLibrary Deployer was used without a <code>driver.properties</code> file, it threw a Malformed URL exception. The GridLibrary Deployer has been removed from this release.
GS-13281	A Null Pointer Exception appeared while editing the hook properties within the GridServer Administration tool. The adapter has been modified to fix this issue.

Version 1.2.0

Engine

KEY	SUMMARY
GS-13246	The adapter previously updated the <code>/etc/hosts</code> file on Linux Engine VMs. There is no need to do this. By introducing the customizable images and startup scripting (or ARM Templates) the Engine VM is no longer modified by the adapter automatically. If you want to continue to perform this activity, you must include it in their User Data or VM Extension scripting.

Version 1.1.0

KEY	SUMMARY
GS-13278	The Director Communication Port was not being set properly on standaloneBrokers. A <code>DIRECTORPORT</code> property was created in the <code>cloudprovider.properties</code> file which explicitly sets this value rather than relying on the <code>install.properties</code> .

Known Issues

The following issues exists in this release of TIBCO DataSynapse™High-PerformanceComputing Cloud Adapter (HPCCA).

Key Summary and Workaround

Key	Description
HPCCA-545	Summary: Users might face new VM instances spin up during VM scale down in AWS. Workaround: None. AWS support ticket is raised.
HPCCA-444	Summary: An unexpected error occurs on DataSynapse GridServer® UI when enabling and disabling the hook from the UI. Workaround: None

TIBCO Documentation and Support Services

For information about this product, you can read the documentation, contact TIBCOsupport, 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

The documentation for this product is available on the TIBCO DataSynapse™ High-Performance Computing Cloud Adapter Documentation page.

Other TIBCO Product Documentation

When working with TIBCO DataSynapse™ High-Performance Computing Cloud Adapter, you may find it useful to read the documentation of the following TIBCO products:

- TIBCO DataSynapse GridServer® Manager

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 login 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 since the last major release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Version 2.2.0

Long-Term Support (LTS) Support

TIBCO DataSynapse™ High-Performance Computing Cloud Adapter 2.2.0 is a LTS Release. For more information about the DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA) LTS Support, see TIBCO LTS Policy.

Automating Deployment through Silent Installation Mode

You can now use silent installation feature to automate the deployment of DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA). For more information, see TIBCO DataSynapse™ High-Performance Computing Cloud Adapter Installation Guide.

Orphan Virtual Machine (VM) Detection and Termination

Added automated detection and termination of cloud VMs that fail to register a GridServer Engine Daemon, preventing runaway cost from untracked instances across AWS, Azure, and (Google Cloud Platform) GCP.

Cloud VM Instance Type Visibility

The GridServer UI Engines page displays two instance types from all supported cloud providers - Spot instances and On-Demand instances. This page helps the administrator to track and easily manage these cloud compute resources from a single interface.

Version 2.1.0

Restarting HPCCA

TIBCO DataSynapse™ High-Performance Computing Cloud Adapter can now restart, without restarting TIBCO DataSynapse GridServer® for changes in `cloudprovider.properties` file. You must set the `USE_HPPCA_AUTO_RESTART` property present in `cloudprovider.properties`

file to true. For more information, see TIBCODataSynapse™High-Performance Computing Cloud Adapter User Guide.

VM Batch Termination For Google Cloud Provider (GCP)

You can now stop virtual machines in batch sizes by setting the `BATCH_VM_TERMINATION` property to true in Cloud Provider.

Park Engine Feature for Aggressive Scale Down

Using the Park Engine feature, you can now mark Engine Daemon as a candidate to stop, if busy Engine count is less than or equal to `MINIMUM_BUSY_ENGINE`. This is based on value provided in `MINIMUM_BUSY_ENGINE`. For more information, see TIBCODataSynapse™High-Performance Computing Cloud Adapter User Guide.

Version 2.0.0

Support for multiple cloud providers

DataSynapse HPCCA now support engines for multiple cloud providers mentioned in the `cloudprovider.properties` file. For more information, see TIBCO DataSynapse™High-Performance Computing Cloud Adapter User Guide.

Aggressive scale down of engines

If no task is running on the DataSynapse GridServer® Engine, DataSynapse HPCCA reduces the number of engines irrespective of the `ENGINEIDLETIMEOUT` value. To enable this feature, set the `AGGRESSIVE_SCALEDOWN` property in the `cloudprovider.properties` file to true. For more information, see TIBCO DataSynapse™High-Performance Computing Cloud Adapter User Guide.

Monitoring engines on specific brokers

DataSynapse HPCCA now monitors engines on particular brokers. A list of brokers is provided in the `BROKER_HOSTNAME` property in the `cloudprovider.properties` file. For more information, see TIBCO DataSynapse™High-Performance Computing Cloud Adapter User Guide.

Version 1.5.0

No new features have been added in this release.

Version 1.4.0

Support for Google Cloud Platform

Starting from this release, DataSynapse™High-Performance Computing Cloud Adapter(HPCCA) can be configured for Google Cloud Platform (GCP) by using the `cloudprovider.properties` file. For more information, see TIBCO DataSynapse™High-Performance Computing Cloud Adapter User Guide.

Consideration for DataSynapse HPCCA engines for calculating computational need

Starting from this release, engines that are not created by DataSynapse HPCCA can be included when calculating computational needs. To enable this feature, set the `CONSIDER_NON_HPCCA_ENGINES` property in the `cloudprovider.properties` file to `true`. For more information, see TIBCO DataSynapse™High-Performance Computing CloudAdapter User Guide.

Version 1.3.0

Support for scale sets

Scale sets that allow you to create and manage a group of identical, load balanced VMs on Azure are now supported for Windows and Linux 64-bit platforms.

Version 1.2.0

Support for custom images

Custom images for both Windows and Linux 64-bit platforms are now supported on AWS and Azure.

Support for auto scaling group

Autoscaling groups for Windows and Linux 64-bit platforms are now supported on AWS.

Grid Library Deployer

A new feature to assist in deployment is a TIBCO-supported tool for deploying grid libraries from the command line. The included `GridLibraryDeployer.zip` is a simple Java-based grid library deployment utility based on the `GridLibDeployer.java` class included in the TIBCO

DataSynapse GridServer® SDK. Enter `java -jar GridLibraryDeployer.jar` at the command line. A list of options is displayed.

Support for SSL-Enabled DataSynapse GridServer® Manager

DataSynapse HPCCA can now be installed on SSL-enabled managers. Earlier versions did not support SSL-enabled managers.

Version 1.1.0

Windows engines and initial reconfiguration changes

The initial release of the DataSynapse HPCCA only included Linux-based engines. It now supports Windows engines. Also, the DataSynapse HPCCA now reconfigures an existing DataSynapse GridServer® Engine installation to enable it to connect to the current grid environment. This is done rather than the previous method of a fresh install, to enable you to configure the virtual machine to connect properly into your infrastructure and to enable for the reinstallation of things like grid libraries and caching solutions.

Version 1.0.0

TIBCO DataSynapse™ High-Performance Computing Cloud Adapter

DataSynapse HPCCA extends the functionality of DataSynapse GridServer® by enabling it to dynamically create virtual machines and provision them with the Engine Daemon. It was created to allow customers to temporarily increase their compute capacity during periods of unusually high load on their DataSynapse GridServer® deployment. The initial release, version 1.0.0, includes Linux 64-bit engines and a very simple cloud management algorithm.

Changes in Functionality

The following features have been changed since the last major release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Upgraded Cloud Provider SDKs: AWS (2.41.24), Azure (2.49.0), GCP (v1-

rev202511102.0.0).

Deprecated Features

No features have been deprecated in this release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Removed Features

No features have been removed in this release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Migration and Compatibility

The following information provides migration procedures and a compatibility matrix for this release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Migrating to Version 2.2.0

Migration to version 2.2.0 from previous versions of DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA) is not supported. For critical functionality or VM Images/AMIs that need to be used, contact TIBCO Support.

Closed Issues

The table lists closed issues since version 1.0.0 of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Version 2.2.0

No issues have been closed in this release of DataSynapse HPCCA.

Version 2.1.0

No issues have been closed in this release of DataSynapse HPCCA.

Version 2.0.0

No issues have been closed in this release of DataSynapse HPCCA.

Version 1.5.0

No issues have been closed in this release of DataSynapse HPCCA.

Version 1.4.0

No issues have been closed in this release of DataSynapse HPCCA.

Version 1.3.0

KEY	SUMMARY
GS-15344	When the GridLibrary Deployer was used without a <code>driver.properties</code> file, it threw a Malformed URL exception. The GridLibrary Deployer has been removed from this release.
GS-13281	A Null Pointer Exception appeared while editing the hook properties within the GridServer Administration tool. The adapter has been modified to fix this issue.

Version 1.2.0

Engine

KEY	SUMMARY
GS-13246	The adapter previously updated the <code>/etc/hosts</code> file on Linux Engine VMs. There is no need to do this. By introducing the customizable images and startup scripting (or ARM Templates) the Engine VM is no longer modified by the adapter automatically. If you want to continue to perform this activity, you must include it in their User Data or VM Extension scripting.

Version 1.1.0

KEY	SUMMARY
GS-13278	The Director Communication Port was not being set properly on standaloneBrokers. A <code>DIRECTORPORT</code> property was created in the <code>cloudprovider.properties</code> file which explicitly sets this value rather than relying on the <code>install.properties</code> .

Known Issues

The following issues exists in this release of TIBCO DataSynapse™High-PerformanceComputing Cloud Adapter (HPCCA).

Key Summary and Workaround

Key	Description
HPCCA-545	Summary: Users might face new VM instances spin up during VM scale down in AWS. Workaround: None. AWS support ticket is raised.
HPCCA-444	Summary: An unexpected error occurs on DataSynapse GridServer® UI when enabling and disabling the hook from the UI. Workaround: None

TIBCO Documentation and Support Services

For information about this product, you can read the documentation, contact TIBCOsupport, 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

The documentation for this product is available on the TIBCO DataSynapse™ High-Performance Computing Cloud Adapter Documentation page.

Other TIBCO Product Documentation

When working with TIBCO DataSynapse™ High-Performance Computing Cloud Adapter, you may find it useful to read the documentation of the following TIBCO products:

- TIBCO DataSynapse GridServer® Manager

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 login 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 employees 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 since the last major release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Version 2.2.0

Long-Term Support (LTS) Support

TIBCO DataSynapse™ High-Performance Computing Cloud Adapter 2.2.0 is a LTS Release. For more information about the DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA) LTS Support, see TIBCO LTS Policy.

Automating Deployment through Silent Installation Mode

You can now use silent installation feature to automate the deployment of DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA). For more information, see TIBCO DataSynapse™ High-Performance Computing Cloud Adapter Installation Guide.

Orphan Virtual Machine (VM) Detection and Termination

Added automated detection and termination of cloud VMs that fail to register a GridServer Engine Daemon, preventing runaway cost from untracked instances across AWS, Azure, and (Google Cloud Platform) GCP.

Cloud VM Instance Type Visibility

The GridServer UI Engines page displays two instance types from all supported cloud providers - Spot instances and On-Demand instances. This page helps the administrator to track and easily manage these cloud compute resources from a single interface.

Version 2.1.0

Restarting HPCCA

TIBCO DataSynapse™ High-Performance Computing Cloud Adapter can now restart, without restarting TIBCO DataSynapse GridServer® for changes in `cloudprovider.properties` file. You must set the `USE_HPPCA_AUTO_RESTART` property present in `cloudprovider.properties`

file to true. For more information, see TIBCODataSynapse™High-Performance Computing Cloud Adapter User Guide.

VM Batch Termination For Google Cloud Provider (GCP)

You can now stop virtual machines in batch sizes by setting the `BATCH_VM_TERMINATION` property to true in Cloud Provider.

Park Engine Feature for Aggressive Scale Down

Using the Park Engine feature, you can now mark Engine Daemon as a candidate to stop, if busy Engine count is less than or equal to `MINIMUM_BUSY_ENGINE`. This is based on value provided in `MINIMUM_BUSY_ENGINE`. For more information, see TIBCODataSynapse™High-Performance Computing Cloud Adapter User Guide.

Version 2.0.0

Support for multiple cloud providers

DataSynapse HPCCA now support engines for multiple cloud providers mentioned in the `cloudprovider.properties` file. For more information, see TIBCO DataSynapse™High-Performance Computing Cloud Adapter User Guide.

Aggressive scale down of engines

If no task is running on the DataSynapse GridServer® Engine, DataSynapse HPCCA reduces the number of engines irrespective of the `ENGINEIDLETIMEOUT` value. To enable this feature, set the `AGGRESSIVE_SCALEDOWN` property in the `cloudprovider.properties` file to true. For more information, see TIBCO DataSynapse™High-Performance Computing Cloud Adapter User Guide.

Monitoring engines on specific brokers

DataSynapse HPCCA now monitors engines on particular brokers. A list of brokers is provided in the `BROKER_HOSTNAME` property in the `cloudprovider.properties` file. For more information, see TIBCO DataSynapse™High-Performance Computing Cloud Adapter User Guide.

Version 1.5.0

No new features have been added in this release.

Version 1.4.0

Support for Google Cloud Platform

Starting from this release, DataSynapse™High-Performance Computing Cloud Adapter(HPCCA) can be configured for Google Cloud Platform (GCP) by using the `cloudprovider.properties` file. For more information, see TIBCO DataSynapse™High-Performance Computing Cloud Adapter User Guide.

Consideration for DataSynapse HPCCA engines for calculating computational need

Starting from this release, engines that are not created by DataSynapse HPCCA can be included when calculating computational needs. To enable this feature, set the `CONSIDER_NON_HPCCA_ENGINES` property in the `cloudprovider.properties` file to `true`. For more information, see TIBCO DataSynapse™High-Performance Computing CloudAdapter User Guide.

Version 1.3.0

Support for scale sets

Scale sets that allow you to create and manage a group of identical, load balanced VMs on Azure are now supported for Windows and Linux 64-bit platforms.

Version 1.2.0

Support for custom images

Custom images for both Windows and Linux 64-bit platforms are now supported on AWS and Azure.

Support for auto scaling group

Autoscaling groups for Windows and Linux 64-bit platforms are now supported on AWS.

Grid Library Deployer

A new feature to assist in deployment is a TIBCO-supported tool for deploying grid libraries from the command line. The included `GridLibraryDeployer.zip` is a simple Java-based grid library deployment utility based on the `GridLibDeployer.java` class included in the TIBCO

DataSynapse GridServer® SDK. Enter `java -jar GridLibraryDeployer.jar` at the command line. A list of options is displayed.

Support for SSL-Enabled DataSynapse GridServer® Manager

DataSynapse HPCCA can now be installed on SSL-enabled managers. Earlier versions did not support SSL-enabled managers.

Version 1.1.0

Windows engines and initial reconfiguration changes

The initial release of the DataSynapse HPCCA only included Linux-based engines. It now supports Windows engines. Also, the DataSynapse HPCCA now reconfigures an existing DataSynapse GridServer® Engine installation to enable it to connect to the current grid environment. This is done rather than the previous method of a fresh install, to enable you to configure the virtual machine to connect properly into your infrastructure and to enable for the reinstallation of things like grid libraries and caching solutions.

Version 1.0.0

TIBCO DataSynapse™ High-Performance Computing Cloud Adapter

DataSynapse HPCCA extends the functionality of DataSynapse GridServer® by enabling it to dynamically create virtual machines and provision them with the Engine Daemon. It was created to allow customers to temporarily increase their compute capacity during periods of unusually high load on their DataSynapse GridServer® deployment. The initial release, version 1.0.0, includes Linux 64-bit engines and a very simple cloud management algorithm.

Changes in Functionality

The following features have been changed since the last major release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Upgraded Cloud Provider SDKs: AWS (2.41.24), Azure (2.49.0), GCP (v1-

rev202511102.0.0).

Deprecated Features

No features have been deprecated in this release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Removed Features

No features have been removed in this release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Migration and Compatibility

The following information provides migration procedures and a compatibility matrix for this release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Migrating to Version 2.2.0

Migration to version 2.2.0 from previous versions of DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA) is not supported. For critical functionality or VM Images/AMIs that need to be used, contact TIBCO Support.

Closed Issues

The table lists closed issues since version 1.0.0 of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Version 2.2.0

No issues have been closed in this release of DataSynapse HPCCA.

Version 2.1.0

No issues have been closed in this release of DataSynapse HPCCA.

Version 2.0.0

No issues have been closed in this release of DataSynapse HPCCA.

Version 1.5.0

No issues have been closed in this release of DataSynapse HPCCA.

Version 1.4.0

No issues have been closed in this release of DataSynapse HPCCA.

Version 1.3.0

KEY	SUMMARY
GS-15344	When the GridLibrary Deployer was used without a <code>driver.properties</code> file, it threw a Malformed URL exception. The GridLibrary Deployer has been removed from this release.
GS-13281	A Null Pointer Exception appeared while editing the hook properties within the GridServer Administration tool. The adapter has been modified to fix this issue.

Version 1.2.0

Engine

KEY	SUMMARY
GS-13246	The adapter previously updated the <code>/etc/hosts</code> file on Linux Engine VMs. There is no need to do this. By introducing the customizable images and startup scripting (or ARM Templates) the Engine VM is no longer modified by the adapter automatically. If you want to continue to perform this activity, you must include it in their User Data or VM Extension scripting.

Version 1.1.0

KEY	SUMMARY
GS-13278	The Director Communication Port was not being set properly on standaloneBrokers. A <code>DIRECTORPORT</code> property was created in the <code>cloudprovider.properties</code> file which explicitly sets this value rather than relying on the <code>install.properties</code> .

Known Issues

The following issues exists in this release of TIBCO DataSynapse™High-PerformanceComputing Cloud Adapter (HPCCA).

Key Summary and Workaround

Key	Description
HPCCA-545	Summary: Users might face new VM instances spin up during VM scale down in AWS. Workaround: None. AWS support ticket is raised.
HPCCA-444	Summary: An unexpected error occurs on DataSynapse GridServer® UI when enabling and disabling the hook from the UI. Workaround: None

TIBCO Documentation and Support Services

For information about this product, you can read the documentation, contact TIBCOsupport, 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

The documentation for this product is available on the TIBCO DataSynapse™ High-Performance Computing Cloud Adapter Documentation page.

Other TIBCO Product Documentation

When working with TIBCO DataSynapse™ High-Performance Computing Cloud Adapter, you may find it useful to read the documentation of the following TIBCO products:

- TIBCO DataSynapse GridServer® Manager

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 login 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 employees 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 since the last major release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Version 2.2.0

Long-Term Support (LTS) Support

TIBCO DataSynapse™ High-Performance Computing Cloud Adapter 2.2.0 is a LTS Release. For more information about the DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA) LTS Support, see TIBCO LTS Policy.

Automating Deployment through Silent Installation Mode

You can now use silent installation feature to automate the deployment of DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA). For more information, see TIBCO DataSynapse™ High-Performance Computing Cloud Adapter Installation Guide.

Orphan Virtual Machine (VM) Detection and Termination

Added automated detection and termination of cloud VMs that fail to register a GridServer Engine Daemon, preventing runaway cost from untracked instances across AWS, Azure, and (Google Cloud Platform) GCP.

Cloud VM Instance Type Visibility

The GridServer UI Engines page displays two instance types from all supported cloud providers - Spot instances and On-Demand instances. This page helps the administrator to track and easily manage these cloud compute resources from a single interface.

Version 2.1.0

Restarting HPCCA

TIBCO DataSynapse™ High-Performance Computing Cloud Adapter can now restart, without restarting TIBCO DataSynapse GridServer® for changes in `cloudprovider.properties` file. You must set the `USE_HPPCA_AUTO_RESTART` property present in `cloudprovider.properties`

file to true. For more information, see TIBCODataSynapse™High-Performance Computing Cloud Adapter User Guide.

VM Batch Termination For Google Cloud Provider (GCP)

You can now stop virtual machines in batch sizes by setting the `BATCH_VM_TERMINATION` property to true in Cloud Provider.

Park Engine Feature for Aggressive Scale Down

Using the Park Engine feature, you can now mark Engine Daemon as a candidate to stop, if busy Engine count is less than or equal to `MINIMUM_BUSY_ENGINE`. This is based on value provided in `MINIMUM_BUSY_ENGINE`. For more information, see TIBCODataSynapse™High-Performance Computing Cloud Adapter User Guide.

Version 2.0.0

Support for multiple cloud providers

DataSynapse HPCCA now support engines for multiple cloud providers mentioned in the `cloudprovider.properties` file. For more information, see TIBCO DataSynapse™High-Performance Computing Cloud Adapter User Guide.

Aggressive scale down of engines

If no task is running on the DataSynapse GridServer® Engine, DataSynapse HPCCA reduces the number of engines irrespective of the `ENGINEIDLETIMEOUT` value. To enable this feature, set the `AGGRESSIVE_SCALEDOWN` property in the `cloudprovider.properties` file to true. For more information, see TIBCO DataSynapse™High-Performance Computing Cloud Adapter User Guide.

Monitoring engines on specific brokers

DataSynapse HPCCA now monitors engines on particular brokers. A list of brokers is provided in the `BROKER_HOSTNAME` property in the `cloudprovider.properties` file. For more information, see TIBCO DataSynapse™High-Performance Computing Cloud Adapter User Guide.

Version 1.5.0

No new features have been added in this release.

Version 1.4.0

Support for Google Cloud Platform

Starting from this release, DataSynapse™High-Performance Computing Cloud Adapter(HPCCA) can be configured for Google Cloud Platform (GCP) by using the `cloudprovider.properties` file. For more information, see TIBCO DataSynapse™High-Performance Computing Cloud Adapter User Guide.

Consideration for DataSynapse HPCCA engines for calculating computational need

Starting from this release, engines that are not created by DataSynapse HPCCA can be included when calculating computational needs. To enable this feature, set the `CONSIDER_NON_HPCCA_ENGINES` property in the `cloudprovider.properties` file to `true`. For more information, see TIBCO DataSynapse™High-Performance Computing CloudAdapter User Guide.

Version 1.3.0

Support for scale sets

Scale sets that allow you to create and manage a group of identical, load balanced VMs on Azure are now supported for Windows and Linux 64-bit platforms.

Version 1.2.0

Support for custom images

Custom images for both Windows and Linux 64-bit platforms are now supported on AWS and Azure.

Support for auto scaling group

Autoscaling groups for Windows and Linux 64-bit platforms are now supported on AWS.

Grid Library Deployer

A new feature to assist in deployment is a TIBCO-supported tool for deploying grid libraries from the command line. The included `GridLibraryDeployer.zip` is a simple Java-based grid library deployment utility based on the `GridLibDeployer.java` class included in the TIBCO

DataSynapse GridServer® SDK. Enter `java -jar GridLibraryDeployer.jar` at the command line. A list of options is displayed.

Support for SSL-Enabled DataSynapse GridServer® Manager

DataSynapse HPCCA can now be installed on SSL-enabled managers. Earlier versions did not support SSL-enabled managers.

Version 1.1.0

Windows engines and initial reconfiguration changes

The initial release of the DataSynapse HPCCA only included Linux-based engines. It now supports Windows engines. Also, the DataSynapse HPCCA now reconfigures an existing DataSynapse GridServer® Engine installation to enable it to connect to the current grid environment. This is done rather than the previous method of a fresh install, to enable you to configure the virtual machine to connect properly into your infrastructure and to enable for the reinstallation of things like grid libraries and caching solutions.

Version 1.0.0

TIBCO DataSynapse™ High-Performance Computing Cloud Adapter

DataSynapse HPCCA extends the functionality of DataSynapse GridServer® by enabling it to dynamically create virtual machines and provision them with the Engine Daemon. It was created to allow customers to temporarily increase their compute capacity during periods of unusually high load on their DataSynapse GridServer® deployment. The initial release, version 1.0.0, includes Linux 64-bit engines and a very simple cloud management algorithm.

Changes in Functionality

The following features have been changed since the last major release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Upgraded Cloud Provider SDKs: AWS (2.41.24), Azure (2.49.0), GCP (v1-

rev202511102.0.0).

Deprecated Features

No features have been deprecated in this release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Removed Features

No features have been removed in this release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Migration and Compatibility

The following information provides migration procedures and a compatibility matrix for this release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Migrating to Version 2.2.0

Migration to version 2.2.0 from previous versions of DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA) is not supported. For critical functionality or VM Images/AMIs that need to be used, contact TIBCO Support.

Closed Issues

The table lists closed issues since version 1.0.0 of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Version 2.2.0

No issues have been closed in this release of DataSynapse HPCCA.

Version 2.1.0

No issues have been closed in this release of DataSynapse HPCCA.

Version 2.0.0

No issues have been closed in this release of DataSynapse HPCCA.

Version 1.5.0

No issues have been closed in this release of DataSynapse HPCCA.

Version 1.4.0

No issues have been closed in this release of DataSynapse HPCCA.

Version 1.3.0

KEY	SUMMARY
GS-15344	When the GridLibrary Deployer was used without a <code>driver.properties</code> file, it threw a Malformed URL exception. The GridLibrary Deployer has been removed from this release.
GS-13281	A Null Pointer Exception appeared while editing the hook properties within the GridServer Administration tool. The adapter has been modified to fix this issue.

Version 1.2.0

Engine

KEY	SUMMARY
GS-13246	The adapter previously updated the <code>/etc/hosts</code> file on Linux Engine VMs. There is no need to do this. By introducing the customizable images and startup scripting (or ARM Templates) the Engine VM is no longer modified by the adapter automatically. If you want to continue to perform this activity, you must include it in their User Data or VM Extension scripting.

Version 1.1.0

KEY	SUMMARY
GS-13278	The Director Communication Port was not being set properly on standaloneBrokers. A <code>DIRECTORPORT</code> property was created in the <code>cloudprovider.properties</code> file which explicitly sets this value rather than relying on the <code>install.properties</code> .

Known Issues

The following issues exists in this release of TIBCO DataSynapse™High-PerformanceComputing Cloud Adapter (HPCCA).

Key Summary and Workaround

Key	Description
HPCCA-545	Summary: Users might face new VM instances spin up during VM scale down in AWS. Workaround: None. AWS support ticket is raised.
HPCCA-444	Summary: An unexpected error occurs on DataSynapse GridServer® UI when enabling and disabling the hook from the UI. Workaround: None

TIBCO Documentation and Support Services

For information about this product, you can read the documentation, contact TIBCOsupport, 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

The documentation for this product is available on the TIBCO DataSynapse™ High-Performance Computing Cloud Adapter Documentation page.

Other TIBCO Product Documentation

When working with TIBCO DataSynapse™ High-Performance Computing Cloud Adapter, you may find it useful to read the documentation of the following TIBCO products:

- TIBCO DataSynapse GridServer® Manager

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 login 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 employees 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 since the last major release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Version 2.2.0

Long-Term Support (LTS) Support

TIBCO DataSynapse™ High-Performance Computing Cloud Adapter 2.2.0 is a LTS Release. For more information about the DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA) LTS Support, see TIBCO LTS Policy.

Automating Deployment through Silent Installation Mode

You can now use silent installation feature to automate the deployment of DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA). For more information, see TIBCO DataSynapse™ High-Performance Computing Cloud Adapter Installation Guide.

Orphan Virtual Machine (VM) Detection and Termination

Added automated detection and termination of cloud VMs that fail to register a GridServer Engine Daemon, preventing runaway cost from untracked instances across AWS, Azure, and (Google Cloud Platform) GCP.

Cloud VM Instance Type Visibility

The GridServer UI Engines page displays two instance types from all supported cloud providers - Spot instances and On-Demand instances. This page helps the administrator to track and easily manage these cloud compute resources from a single interface.

Version 2.1.0

Restarting HPCCA

TIBCO DataSynapse™ High-Performance Computing Cloud Adapter can now restart, without restarting TIBCO DataSynapse GridServer® for changes in `cloudprovider.properties` file. You must set the `USE_HPPCA_AUTO_RESTART` property present in `cloudprovider.properties`

file to true. For more information, see TIBCODataSynapse™High-Performance Computing Cloud Adapter User Guide.

VM Batch Termination For Google Cloud Provider (GCP)

You can now stop virtual machines in batch sizes by setting the `BATCH_VM_TERMINATION` property to true in Cloud Provider.

Park Engine Feature for Aggressive Scale Down

Using the Park Engine feature, you can now mark Engine Daemon as a candidate to stop, if busy Engine count is less than or equal to `MINIMUM_BUSY_ENGINE`. This is based on value provided in `MINIMUM_BUSY_ENGINE`. For more information, see TIBCODataSynapse™High-Performance Computing Cloud Adapter User Guide.

Version 2.0.0

Support for multiple cloud providers

DataSynapse HPCCA now support engines for multiple cloud providers mentioned in the `cloudprovider.properties` file. For more information, see TIBCO DataSynapse™High-Performance Computing Cloud Adapter User Guide.

Aggressive scale down of engines

If no task is running on the DataSynapse GridServer® Engine, DataSynapse HPCCA reduces the number of engines irrespective of the `ENGINEIDLETIMEOUT` value. To enable this feature, set the `AGGRESSIVE_SCALEDOWN` property in the `cloudprovider.properties` file to true. For more information, see TIBCO DataSynapse™High-Performance Computing Cloud Adapter User Guide.

Monitoring engines on specific brokers

DataSynapse HPCCA now monitors engines on particular brokers. A list of brokers is provided in the `BROKER_HOSTNAME` property in the `cloudprovider.properties` file. For more information, see TIBCO DataSynapse™High-Performance Computing Cloud Adapter User Guide.

Version 1.5.0

No new features have been added in this release.

Version 1.4.0

Support for Google Cloud Platform

Starting from this release, DataSynapse™High-Performance Computing Cloud Adapter(HPCCA) can be configured for Google Cloud Platform (GCP) by using the `cloudprovider.properties` file. For more information, see TIBCO DataSynapse™High-Performance Computing Cloud Adapter User Guide.

Consideration for DataSynapse HPCCA engines for calculating computational need

Starting from this release, engines that are not created by DataSynapse HPCCA can be included when calculating computational needs. To enable this feature, set the `CONSIDER_NON_HPCCA_ENGINES` property in the `cloudprovider.properties` file to `true`. For more information, see TIBCO DataSynapse™High-Performance Computing CloudAdapter User Guide.

Version 1.3.0

Support for scale sets

Scale sets that allow you to create and manage a group of identical, load balanced VMs on Azure are now supported for Windows and Linux 64-bit platforms.

Version 1.2.0

Support for custom images

Custom images for both Windows and Linux 64-bit platforms are now supported on AWS and Azure.

Support for auto scaling group

Autoscaling groups for Windows and Linux 64-bit platforms are now supported on AWS.

Grid Library Deployer

A new feature to assist in deployment is a TIBCO-supported tool for deploying grid libraries from the command line. The included `GridLibraryDeployer.zip` is a simple Java-based grid library deployment utility based on the `GridLibDeployer.java` class included in the TIBCO

DataSynapse GridServer® SDK. Enter `java -jar GridLibraryDeployer.jar` at the command line. A list of options is displayed.

Support for SSL-Enabled DataSynapse GridServer® Manager

DataSynapse HPCCA can now be installed on SSL-enabled managers. Earlier versions did not support SSL-enabled managers.

Version 1.1.0

Windows engines and initial reconfiguration changes

The initial release of the DataSynapse HPCCA only included Linux-based engines. It now supports Windows engines. Also, the DataSynapse HPCCA now reconfigures an existing DataSynapse GridServer® Engine installation to enable it to connect to the current grid environment. This is done rather than the previous method of a fresh install, to enable you to configure the virtual machine to connect properly into your infrastructure and to enable for the reinstallation of things like grid libraries and caching solutions.

Version 1.0.0

TIBCO DataSynapse™ High-Performance Computing Cloud Adapter

DataSynapse HPCCA extends the functionality of DataSynapse GridServer® by enabling it to dynamically create virtual machines and provision them with the Engine Daemon. It was created to allow customers to temporarily increase their compute capacity during periods of unusually high load on their DataSynapse GridServer® deployment. The initial release, version 1.0.0, includes Linux 64-bit engines and a very simple cloud management algorithm.

Changes in Functionality

The following features have been changed since the last major release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Upgraded Cloud Provider SDKs: AWS (2.41.24), Azure (2.49.0), GCP (v1-

rev202511102.0.0).

Deprecated Features

No features have been deprecated in this release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Removed Features

No features have been removed in this release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Migration and Compatibility

The following information provides migration procedures and a compatibility matrix for this release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Migrating to Version 2.2.0

Migration to version 2.2.0 from previous versions of DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA) is not supported. For critical functionality or VM Images/AMIs that need to be used, contact TIBCO Support.

Closed Issues

The table lists closed issues since version 1.0.0 of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Version 2.2.0

No issues have been closed in this release of DataSynapse HPCCA.

Version 2.1.0

No issues have been closed in this release of DataSynapse HPCCA.

Version 2.0.0

No issues have been closed in this release of DataSynapse HPCCA.

Version 1.5.0

No issues have been closed in this release of DataSynapse HPCCA.

Version 1.4.0

No issues have been closed in this release of DataSynapse HPCCA.

Version 1.3.0

KEY	SUMMARY
GS-15344	When the GridLibrary Deployer was used without a <code>driver.properties</code> file, it threw a Malformed URL exception. The GridLibrary Deployer has been removed from this release.
GS-13281	A Null Pointer Exception appeared while editing the hook properties within the GridServer Administration tool. The adapter has been modified to fix this issue.

Version 1.2.0

Engine

KEY	SUMMARY
GS-13246	The adapter previously updated the <code>/etc/hosts</code> file on Linux Engine VMs. There is no need to do this. By introducing the customizable images and startup scripting (or ARM Templates) the Engine VM is no longer modified by the adapter automatically. If you want to continue to perform this activity, you must include it in their User Data or VM Extension scripting.

Version 1.1.0

KEY	SUMMARY
GS-13278	The Director Communication Port was not being set properly on standaloneBrokers. A <code>DIRECTORPORT</code> property was created in the <code>cloudprovider.properties</code> file which explicitly sets this value rather than relying on the <code>install.properties</code> .

Known Issues

The following issues exists in this release of TIBCO DataSynapse™High-PerformanceComputing Cloud Adapter (HPCCA).

Key Summary and Workaround

Key	Description
HPCCA-545	Summary: Users might face new VM instances spin up during VM scale down in AWS. Workaround: None. AWS support ticket is raised.
HPCCA-444	Summary: An unexpected error occurs on DataSynapse GridServer® UI when enabling and disabling the hook from the UI. Workaround: None

TIBCO Documentation and Support Services

For information about this product, you can read the documentation, contact TIBCOsupport, 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

The documentation for this product is available on the TIBCO DataSynapse™ High-Performance Computing Cloud Adapter Documentation page.

Other TIBCO Product Documentation

When working with TIBCO DataSynapse™ High-Performance Computing Cloud Adapter, you may find it useful to read the documentation of the following TIBCO products:

- TIBCO DataSynapse GridServer® Manager

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 login 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 employees 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 since the last major release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Version 2.2.0

Long-Term Support (LTS) Support

TIBCO DataSynapse™ High-Performance Computing Cloud Adapter 2.2.0 is a LTS Release. For more information about the DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA) LTS Support, see TIBCO LTS Policy.

Automating Deployment through Silent Installation Mode

You can now use silent installation feature to automate the deployment of DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA). For more information, see TIBCO DataSynapse™ High-Performance Computing Cloud Adapter Installation Guide.

Orphan Virtual Machine (VM) Detection and Termination

Added automated detection and termination of cloud VMs that fail to register a GridServer Engine Daemon, preventing runaway cost from untracked instances across AWS, Azure, and (Google Cloud Platform) GCP.

Cloud VM Instance Type Visibility

The GridServer UI Engines page displays two instance types from all supported cloud providers - Spot instances and On-Demand instances. This page helps the administrator to track and easily manage these cloud compute resources from a single interface.

Version 2.1.0

Restarting HPCCA

TIBCO DataSynapse™ High-Performance Computing Cloud Adapter can now restart, without restarting TIBCO DataSynapse GridServer® for changes in `cloudprovider.properties` file.

You must set the `USE_HPPCA_AUTO_RESTART` property present in `cloudprovider.properties`

file to true. For more information, see TIBCODataSynapse™High-Performance Computing Cloud Adapter User Guide.

VM Batch Termination For Google Cloud Provider (GCP)

You can now stop virtual machines in batch sizes by setting the `BATCH_VM_TERMINATION` property to true in Cloud Provider.

Park Engine Feature for Aggressive Scale Down

Using the Park Engine feature, you can now mark Engine Daemon as a candidate to stop, if busy Engine count is less than or equal to `MINIMUM_BUSY_ENGINE`. This is based on value provided in `MINIMUM_BUSY_ENGINE`. For more information, see TIBCODataSynapse™High-Performance Computing Cloud Adapter User Guide.

Version 2.0.0

Support for multiple cloud providers

DataSynapse HPCCA now support engines for multiple cloud providers mentioned in the `cloudprovider.properties` file. For more information, see TIBCO DataSynapse™High-Performance Computing Cloud Adapter User Guide.

Aggressive scale down of engines

If no task is running on the DataSynapse GridServer® Engine, DataSynapse HPCCA reduces the number of engines irrespective of the `ENGINEIDLETIMEOUT` value. To enable this feature, set the `AGGRESSIVE_SCALEDOWN` property in the `cloudprovider.properties` file to true. For more information, see TIBCO DataSynapse™High-Performance Computing Cloud Adapter User Guide.

Monitoring engines on specific brokers

DataSynapse HPCCA now monitors engines on particular brokers. A list of brokers is provided in the `BROKER_HOSTNAME` property in the `cloudprovider.properties` file. For more information, see TIBCO DataSynapse™High-Performance Computing Cloud Adapter User Guide.

Version 1.5.0

No new features have been added in this release.

Version 1.4.0

Support for Google Cloud Platform

Starting from this release, DataSynapse™High-Performance Computing Cloud Adapter(HPCCA) can be configured for Google Cloud Platform (GCP) by using the `cloudprovider.properties` file. For more information, see TIBCO DataSynapse™High-Performance Computing Cloud Adapter User Guide.

Consideration for DataSynapse HPCCA engines for calculating computational need

Starting from this release, engines that are not created by DataSynapse HPCCA can be included when calculating computational needs. To enable this feature, set the `CONSIDER_NON_HPCCA_ENGINES` property in the `cloudprovider.properties` file to `true`. For more information, see TIBCO DataSynapse™High-Performance Computing CloudAdapter User Guide.

Version 1.3.0

Support for scale sets

Scale sets that allow you to create and manage a group of identical, load balanced VMs on Azure are now supported for Windows and Linux 64-bit platforms.

Version 1.2.0

Support for custom images

Custom images for both Windows and Linux 64-bit platforms are now supported on AWS and Azure.

Support for auto scaling group

Autoscaling groups for Windows and Linux 64-bit platforms are now supported on AWS.

Grid Library Deployer

A new feature to assist in deployment is a TIBCO-supported tool for deploying grid libraries from the command line. The included `GridLibraryDeployer.zip` is a simple Java-based grid library deployment utility based on the `GridLibDeployer.java` class included in the TIBCO

DataSynapse GridServer® SDK. Enter `java -jar GridLibraryDeployer.jar` at the command line. A list of options is displayed.

Support for SSL-Enabled DataSynapse GridServer® Manager

DataSynapse HPCCA can now be installed on SSL-enabled managers. Earlier versions did not support SSL-enabled managers.

Version 1.1.0

Windows engines and initial reconfiguration changes

The initial release of the DataSynapse HPCCA only included Linux-based engines. It now supports Windows engines. Also, the DataSynapse HPCCA now reconfigures an existing DataSynapse GridServer® Engine installation to enable it to connect to the current grid environment. This is done rather than the previous method of a fresh install, to enable you to configure the virtual machine to connect properly into your infrastructure and to enable for the reinstallation of things like grid libraries and caching solutions.

Version 1.0.0

TIBCO DataSynapse™ High-Performance Computing Cloud Adapter

DataSynapse HPCCA extends the functionality of DataSynapse GridServer® by enabling it to dynamically create virtual machines and provision them with the Engine Daemon. It was created to allow customers to temporarily increase their compute capacity during periods of unusually high load on their DataSynapse GridServer® deployment. The initial release, version 1.0.0, includes Linux 64-bit engines and a very simple cloud management algorithm.

Changes in Functionality

The following features have been changed since the last major release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Upgraded Cloud Provider SDKs: AWS (2.41.24), Azure (2.49.0), GCP (v1-

rev202511102.0.0).

Deprecated Features

No features have been deprecated in this release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Removed Features

No features have been removed in this release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Migration and Compatibility

The following information provides migration procedures and a compatibility matrix for this release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Migrating to Version 2.2.0

Migration to version 2.2.0 from previous versions of DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA) is not supported. For critical functionality or VM Images/AMIs that need to be used, contact TIBCO Support.

Closed Issues

The table lists closed issues since version 1.0.0 of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter (HPCCA).

Version 2.2.0

No issues have been closed in this release of DataSynapse HPCCA.

Version 2.1.0

No issues have been closed in this release of DataSynapse HPCCA.

Version 2.0.0

No issues have been closed in this release of DataSynapse HPCCA.

Version 1.5.0

No issues have been closed in this release of DataSynapse HPCCA.

Version 1.4.0

No issues have been closed in this release of DataSynapse HPCCA.

Version 1.3.0

KEY	SUMMARY
GS-15344	When the GridLibrary Deployer was used without a <code>driver.properties</code> file, it threw a Malformed URL exception. The GridLibrary Deployer has been removed from this release.
GS-13281	A Null Pointer Exception appeared while editing the hook properties within the GridServer Administration tool. The adapter has been modified to fix this issue.

Version 1.2.0

Engine

KEY	SUMMARY
GS-13246	The adapter previously updated the <code>/etc/hosts</code> file on Linux Engine VMs. There is no need to do this. By introducing the customizable images and startup scripting (or ARM Templates) the Engine VM is no longer modified by the adapter automatically. If you want to continue to perform this activity, you must include it in their User Data or VM Extension scripting.

Version 1.1.0

KEY	SUMMARY
GS-13278	The Director Communication Port was not being set properly on standaloneBrokers. A <code>DIRECTORPORT</code> property was created in the <code>cloudprovider.properties</code> file which explicitly sets this value rather than relying on the <code>install.properties</code> .

Known Issues

The following issues exists in this release of TIBCO DataSynapse™High-PerformanceComputing Cloud Adapter (HPCCA).

Key Summary and Workaround

Key	Description
HPCCA-545	Summary: Users might face new VM instances spin up during VM scale down in AWS. Workaround: None. AWS support ticket is raised.
HPCCA-444	Summary: An unexpected error occurs on DataSynapse GridServer® UI when enabling and disabling the hook from the UI. Workaround: None

TIBCO Documentation and Support Services

For information about this product, you can read the documentation, contact TIBCOsupport, 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

The documentation for this product is available on the TIBCO DataSynapse™ High-Performance Computing Cloud Adapter Documentation page.

Other TIBCO Product Documentation

When working with TIBCO DataSynapse™ High-Performance Computing Cloud Adapter, you may find it useful to read the documentation of the following TIBCO products:

- TIBCO DataSynapse GridServer® Manager

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 login 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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