

New Features

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

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 properly connect into your infrastructure and to enable for the reinstallation of things like grid libraries and caching solutions.

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Changes in Functionality

The following functionality or feature has been changed in this release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter.

Adapter shifted to Director-level hook

Starting from this release, HPCCA should be installed on the Director-level hook, which monitors Engines on the entire Grid Server Architecture.

Deprecated Features

No features have been deprecated as of this release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter.

Removed Features

No features have been removed as of this release of DataSyTIBCO DataSynapse™High-Performance Computing Cloud Adapternapse 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.

Migrating to Version 2.0.0

Migration to version 2.0.0 from previous versions of DataSynapse™High-Performance Computing Cloud Adapter (HPCCA) is not supported. For critical functionality or VMImages/AMIs that need to be used, contact TIBCO Support for further.

Closed Issues

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

Version 2.0.0

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

Version 1.5.0

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Key	Summary
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The adapter previously updated the `/etc/hosts` 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.

Key	Summary
GS-13246	

Version 1.1.0

KEY	SUMMARY
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Known Issues

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

Key Summary and Workaround

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Key	Description
HPCCA-444	Summary: An unexpected error occurs on DataSynapse GridServer® UI while enabling and disabling the hook from the UI. Workaround: None.

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Migration and Compatibility

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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 2.0.0

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 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.

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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 properly connect into your infrastructure and to enable for thepreinstallation of things like grid libraries and caching solutions.

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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 functionality or feature has been changed in this release of TIBCODataSynapse™High-Performance Computing Cloud Adapter.

Adapter shifted to Director-level hook

Starting from this release, HPCCA should be installed on the Director-level hook, which monitors Engines on the entire Grid Server Architecture.

Deprecated Features

No features have been deprecated as of this release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter.

Removed Features

No features have been removed as of this release of DataSynapse™ High-Performance Computing Cloud Adapter.

Migration and Compatibility

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

Migrating to Version 2.0.0

Migration to version 2.0.0 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 for further.

Closed Issues

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

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

When the GridLibrary Deployer was used without a `driver.properties` file, it threw a Malformed URL exception. The GridLibrary Deployer has been removed from this release.

Key	Summary
GS-15344	Key Summary 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

The adapter previously updated the `/etc/hosts` 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.

Key	Summary
GS-13246	

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-PerformanceComputing Cloud Adapter.

Key Summary and Workaround

Summary

Key	Description
HPCCA-444	Summary: An unexpected error occurs on DataSynapse GridServer® UI while enablingand disabling the hook from the UI. Workaround: None.

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

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Product-Specific Documentation

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- For creating a Support case, you must have a valid maintenance or support contract with TIBCO. You also need a user name and password to log in to TIBCO Support website. If you do not have a user name, you can request one by clicking Register on the 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 2.0.0

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

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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.

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.

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

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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 properly connect into your infrastructure and to enable for thepreinstallation of things like grid libraries and caching solutions.

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Changes in Functionality

The following functionality or feature has been changed in this release of TIBCODataSynapse™High-Performance Computing Cloud Adapter.

Adapter shifted to Director-level hook

Starting from this release, HPCCA should be installed on the Director-level hook, which monitors Engines on the entire Grid Server Architecture.

Deprecated Features

No features have been deprecated as of this release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter.

Removed Features

No features have been removed as of this release of DataSynapse™ High-Performance Computing Cloud Adapter.

Migration and Compatibility

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

Migrating to Version 2.0.0

Migration to version 2.0.0 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 for further.

Closed Issues

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

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

When the GridLibrary Deployer was used without a `driver.properties` file, it threw a Malformed URL exception. The GridLibrary Deployer has been removed from this release.

Key	Summary
GS-15344	Key Summary 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.

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Engine

The adapter previously updated the `/etc/hosts` 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.

Key	Summary
GS-13246	

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-PerformanceComputing Cloud Adapter.

Key Summary and Workaround

Summary

Key	Description
HPCCA-444	Summary: An unexpected error occurs on DataSynapse GridServer® UI while enablingand disabling the hook from the UI. Workaround: None.

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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 2.0.0

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

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No new features have been added in this release.

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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.

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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.

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The adapter previously updated the `/etc/hosts` 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.

Key	Summary
GS-13246	

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-PerformanceComputing Cloud Adapter.

Key Summary and Workaround

Summary

Key	Description
HPCCA-444	Summary: An unexpected error occurs on DataSynapse GridServer® UI while enablingand disabling the hook from the UI. Workaround: None.

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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).

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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.

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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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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.

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Changes in Functionality

The following functionality or feature has been changed in this release of TIBCODataSynapse™High-Performance Computing Cloud Adapter.

Adapter shifted to Director-level hook

Starting from this release, HPCCA should be installed on the Director-level hook, which monitors Engines on the entire Grid Server Architecture.

Deprecated Features

No features have been deprecated as of this release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter.

Removed Features

No features have been removed as of this release of DataSynapse™ High-Performance Computing Cloud Adapter.

Migration and Compatibility

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

Migrating to Version 2.0.0

Migration to version 2.0.0 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 for further.

Closed Issues

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

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The following issues exist in this release of TIBCO DataSynapse™High-PerformanceComputing Cloud Adapter.

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

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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.

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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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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 properly connect 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 functionality or feature has been changed in this release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter.

Adapter shifted to Director-level hook

Starting from this release, HPCCA should be installed on the Director-level hook, which monitors Engines on the entire Grid Server Architecture.

Deprecated Features

No features have been deprecated as of this release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter.

Removed Features

No features have been removed as of this release of DataSyTIBCO DataSynapse™High-Performance Computing Cloud Adapternapse 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.

Migrating to Version 2.0.0

Migration to version 2.0.0 from previous versions of DataSynapse™High-Performance Computing Cloud Adapter (HPCCA) is not supported. For critical functionality or VMImages/AMIs that need to be used, contact TIBCO Support for further.

Closed Issues

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

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

When the GridLibrary Deployer was used without a `driver.properties` file, it threw a Malformed URL exception. The GridLibrary Deployer has been removed from this release.

Key	Summary
GS-15344	Key Summary GS-13281 A Null Pointer Exception appeared while editing the hook properties within theGridServer Administration tool. The adapter has been modified to fix this issue.

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Engine

The adapter previously updated the `/etc/hosts` 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.

Key	Summary
GS-13246	

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 exist in this release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter.

Key Summary and Workaround

Summary

Key	Description
HPCCA-444	Summary: An unexpected error occurs on DataSynapse GridServer® UI while enabling and disabling the hook from the UI. Workaround: None.

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Product-Specific Documentation

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

- TIBCO DataSynapse™ High-Performance Computing Cloud Adapter Release Notes
- TIBCO DataSynapse™ High-Performance Computing Cloud Adapter Installation
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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 2.0.0

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.

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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 custom images

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

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

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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.

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

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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 properly connect 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 functionality or feature has been changed in this release of TIBCODataSynapse™High-Performance Computing Cloud Adapter.

Adapter shifted to Director-level hook

Starting from this release, HPCCA should be installed on the Director-level hook, which monitors Engines on the entire Grid Server Architecture.

Deprecated Features

No features have been deprecated as of this release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter.

Removed Features

No features have been removed as of this release of DataSynapse™ High-Performance Computing Cloud Adapter.

Migration and Compatibility

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

Migrating to Version 2.0.0

Migration to version 2.0.0 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 for further.

Closed Issues

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

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.

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When the GridLibrary Deployer was used without a `driver.properties` file, it threw a Malformed URL exception. The GridLibrary Deployer has been removed from this release.

Key	Summary
GS-15344	Key Summary 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

The adapter previously updated the `/etc/hosts` 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.

Key	Summary
GS-13246	

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-PerformanceComputing Cloud Adapter.

Key Summary and Workaround

Summary

Key	Description
HPCCA-444	Summary: An unexpected error occurs on DataSynapse GridServer® UI while enablingand disabling the hook from the UI. Workaround: None.

TIBCO Documentation and Support Services

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Product-Specific Documentation

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

- TIBCO DataSynapse™High-Performance Computing Cloud Adapter Release Notes
- TIBCO DataSynapse™High-Performance Computing Cloud Adapter Installation
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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 2.0.0

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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Changes in Functionality

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Adapter shifted to Director-level hook

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Deprecated Features

No features have been deprecated as of this release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter.

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Key	Summary
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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> .

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

Key Summary and Workaround

Summary

Key	Description
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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 2.0.0

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.

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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.

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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 properly connect into your infrastructure and to enable for the preinstallation of things like grid libraries and caching solutions.

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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 functionality or feature has been changed in this release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter.

Adapter shifted to Director-level hook

Starting from this release, HPCCA should be installed on the Director-level hook, which monitors Engines on the entire Grid Server Architecture.

Deprecated Features

No features have been deprecated as of this release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter.

Removed Features

No features have been removed as of this release of DataSyTIBCO DataSynapse™High-Performance Computing Cloud Adapternapse 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.

Migrating to Version 2.0.0

Migration to version 2.0.0 from previous versions of DataSynapse™High-Performance Computing Cloud Adapter (HPCCA) is not supported. For critical functionality or VMImages/AMIs that need to be used, contact TIBCO Support for further.

Closed Issues

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

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

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When the GridLibrary Deployer was used without a `driver.properties` file, it threw a Malformed URL exception. The GridLibrary Deployer has been removed from this release.

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Engine

The adapter previously updated the `/etc/hosts` 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.

Key	Summary
GS-13246	

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 exist in this release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter.

Key Summary and Workaround

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Key	Description
HPCCA-444	Summary: An unexpected error occurs on DataSynapse GridServer® UI while enabling and disabling the hook from the UI. Workaround: None.

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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).

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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.

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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.

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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 properly connect into your infrastructure and to enable for the preinstallation of things like grid libraries and caching solutions.

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Changes in Functionality

The following functionality or feature has been changed in this release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter.

Adapter shifted to Director-level hook

Starting from this release, HPCCA should be installed on the Director-level hook, which monitors Engines on the entire Grid Server Architecture.

Deprecated Features

No features have been deprecated as of this release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter.

Removed Features

No features have been removed as of this release of DataSyTIBCO DataSynapse™High-Performance Computing Cloud Adapternapse 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.

Migrating to Version 2.0.0

Migration to version 2.0.0 from previous versions of DataSynapse™High-Performance Computing Cloud Adapter (HPCCA) is not supported. For critical functionality or VMImages/AMIs that need to be used, contact TIBCO Support for further.

Closed Issues

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

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

Version 1.5.0

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Version 1.4.0

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

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When the GridLibrary Deployer was used without a `driver.properties` file, it threw a Malformed URL exception. The GridLibrary Deployer has been removed from this release.

Key	Summary
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Key	Summary
GS-13246	

Version 1.1.0

KEY	SUMMARY
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Known Issues

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

Key Summary and Workaround

Summary

Key	Description
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New Features

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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.

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No new features have been added in this release.

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

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

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When the GridLibrary Deployer was used without a `driver.properties` file, it threw a Malformed URL exception. The GridLibrary Deployer has been removed from this release.

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The adapter previously updated the `/etc/hosts` 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.

Key	Summary
GS-13246	

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 exist in this release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter.

Key Summary and Workaround

Summary

Key	Description
HPCCA-444	Summary: An unexpected error occurs on DataSynapse GridServer® UI while enabling and disabling the hook from the UI. Workaround: None.

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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).

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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.

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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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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 functionality or feature has been changed in this release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter.

Adapter shifted to Director-level hook

Starting from this release, HPCCA should be installed on the Director-level hook, which monitors Engines on the entire Grid Server Architecture.

Deprecated Features

No features have been deprecated as of this release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter.

Removed Features

No features have been removed as of this release of DataSyTIBCO DataSynapse™High-Performance Computing Cloud Adapternapse 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.

Migrating to Version 2.0.0

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Known Issues

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

Key Summary and Workaround

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New Features

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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.

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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.

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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

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Deprecated Features

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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 properly connect 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 functionality or feature has been changed in this release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter.

Adapter shifted to Director-level hook

Starting from this release, HPCCA should be installed on the Director-level hook, which monitors Engines on the entire Grid Server Architecture.

Deprecated Features

No features have been deprecated as of this release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter.

Removed Features

No features have been removed as of this release of DataSyTIBCO DataSynapse™High-Performance Computing Cloud Adapternapse 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.

Migrating to Version 2.0.0

Migration to version 2.0.0 from previous versions of DataSynapse™High-Performance Computing Cloud Adapter (HPCCA) is not supported. For critical functionality or VMImages/AMIs that need to be used, contact TIBCO Support for further.

Closed Issues

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

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

When the GridLibrary Deployer was used without a `driver.properties` file, it threw a Malformed URL exception. The GridLibrary Deployer has been removed from this release.

Key	Summary
GS-15344	Key Summary GS-13281 A Null Pointer Exception appeared while editing the hook properties within theGridServer Administration tool. The adapter has been modified to fix this issue.

Version 1.2.0

Engine

The adapter previously updated the `/etc/hosts` 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.

Key	Summary
GS-13246	

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 exist in this release of TIBCO DataSynapse™ High-Performance Computing Cloud Adapter.

Key Summary and Workaround

Summary

Key	Description
HPCCA-444	Summary: An unexpected error occurs on DataSynapse GridServer® UI while 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 TIBCO Product Documentation website, mainly in HTML and PDF formats. The TIBCO Product Documentation website is updated frequently and is more current than any other documentation included with the product.

Product-Specific Documentation

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

- TIBCO DataSynapse™ High-Performance Computing Cloud Adapter Release Notes
- TIBCO DataSynapse™ High-Performance Computing Cloud Adapter Installation
- TIBCO DataSynapse™ High-Performance Computing Cloud Adapter User Guide

How to Contact TIBCO Support

Get an overview of TIBCO Support. You can contact TIBCO Support in the following ways:

- For accessing the Support Knowledge Base and getting personalized content about products you are interested in, visit the TIBCO Support website.

- For creating a Support case, you must have a valid maintenance or support contract with TIBCO. You also need a user name and password to log in to TIBCO Supportwebsite. If you do not have a user name, you can request one by clicking Register onthe website.

How to Join TIBCO Community

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