

# Cloud Agent Groups

## Introduction

A Jitterbit Cloud Agent Group consists of a set of [Private Agents](#) maintained and managed by Jitterbit. This option allows you to run all of your integrations in the cloud with a scalable, multi-tenant, fault-tolerant clustered [Jitterbit Cloud Agent Group](#).

## Production Cloud Agent Group Notes

### Production Cloud Agent Group Update to Version 10.3 12 August 2019 in APAC, 13 August 2019 in EMEA, and August 15, 2019 in NA

This update is an upgrade of the Production Cloud Agent Group from agent version 9.4.2 to agent version 10.3. This includes all updates up to and including the 10.3 release.

The Sandbox Cloud Agent Group is currently available for testing your projects to ensure that you are ready for this upgrade of the Production Cloud Agent Group. (Note that projects migrated to the Sandbox Cloud Agent Group cannot be migrated back to the Production Cloud Agent Group because of differing agent versions.)

Production Cloud Agent Group updates now occur every 30 days; see the [Upgrade Schedule](#) for details.

## New Features

- Application-specific [Cloud Studio connectors](#) released in 10.1 or later are now available to use with agents version 10.1 or higher. The new connectors can be accessed on the right side of the project designer from the design component palette and will automatically be downloaded by an agent as required. (Added in 10.1)

## Changes

- A change made to the [Cloud Studio Cherwell connector](#) means it is no longer compatible with 10.0 agents. If using the Cherwell connector, please upgrade to 10.1 or higher agents. (Added in 10.1)
- The [Production Cloud Agent Group](#) no longer supports creating new projects using ODBC drivers as of agent version 10.1. This change has already been made for the [Sandbox Cloud Agent Group](#) as of [version 10.0](#), effective March 26, 2019. Existing projects using ODBC will continue to work for the time being, but will no longer be supported at a later date. We encourage you to convert existing projects using ODBC to JDBC or migrate them to a Private Agent ahead of this upcoming change. For assistance, contact [Jitterbit Support](#). (Added in 10.1)

## Enhancements

- Support for NetSuite's 2019.1 WSDL is now available for use with Jitterbit's NetSuite connectors. To use the new WSDL, specify its URL during configuration of a [Cloud Studio NetSuite connection](#) or [Design Studio NetSuite endpoint](#). Jitterbit continues to be *Built for NetSuite* (BFN) certified. (Added in 10.4)
- LDAP passwords can be set and updated in Jitterbit Script using the [LDAP functions](#). (Added in 9.9)
- The maximum iterations for JavaScript loops can now be set in the `jitterbit.conf` file. In the `[Settings]` section, specify `JavaScriptMaxIterations=limit` where *limit* is the maximum number of iterations to be permitted. (Added in 9.8)
- The Java distribution included in the Jitterbit Harmony Linux Agent has been changed from the Oracle JRE to the AdoptOpenJDK JRE. (Added in 9.8)
- The Java distribution included in the Jitterbit Harmony Windows Agent has been changed from the Oracle JRE to the AdoptOpenJDK JRE. (Added in 9.8)
- The PostgreSQL instance bundled in the Windows Private Agent installer has been upgraded to version 9.6.11. (Added in 9.8)
- Boolean types are now supported for OData when using SQL Server, MySQL, or PostgreSQL. (Added in 9.7)
- SAP fields defined as doubles now work correctly when used in OData APIs. (Added in 9.7)

## Fixes

- When testing a connection's configuration in Cloud Studio using the **Test** button, you will no longer see an erroneous error message indicating the connector is being downloaded across agents when the connection was actually successful. (Added in 10.3)
- When configuring a pipe-delimited custom schema in Cloud Studio or Design Studio, the option to convert escape sequences now works as expected. Previously, using this option with such a schema would cause the operation to fail. (Added in 10.3)

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- [Harmony](#)
- [Jitterbit Cloud Agent Group](#)

Last updated: Aug 19, 2019

- The Jitterbit Script function `SendEmail()` in Cloud Studio or Design Studio can now be used to send emails containing multi-byte characters. (Added in 10.1)
- Fixed an issue with the SAP Connector driver when it is installed for the first time on a Jitterbit Harmony Linux Agent. (Added in 10.0)
- Fixed an issue with the architecture of the third-party SAP JCo (Java Connector) library included in the Jitterbit Harmony Linux Agent. (Added in 9.9)
- Fixed an issue with the installation of the AdoptOpenJDK JRE by the Harmony Windows Agent installer that prevented certain plugins from functioning. (Added in 9.9)
- An issue with the Jitterbit global variable `jitterbit.source.preserve_char_whitespace` not being honored when transforming from CSV to JSON or from an Oracle Database to XML has been fixed. Setting `jitterbit.source.preserve_char_whitespace=true` means white space will be preserved and won't be trimmed from the beginning and end of strings in the source.

The default value for this variable is `false`, and white space will be trimmed from the beginning and end of strings in the source. This default value will be used if the variable has not been explicitly set. The default behavior is unchanged from prior releases. (Added in 9.8)

- Fixed an issue with retrieval of the NetSuite custom segments to avoid timeout errors while generating or refreshing the schemas. (Added in 9.7)
- Fixed an issue in the JMS Connector with messages that are missing a JMS destination header. (Added in 9.7)
- Fixed an issue with the parsing of IDoc types. It is now enabled. (Added in 9.6)
- Resolved timeout issues when using JDBC to retrieve a large number of tables. (Added in 9.5)
- Fixed an Issue with the input parameter of the `CVTDate()` script function being set to an empty value. The `CVTDate()` function now successfully converts each input data value to the appropriate date and does not set any input to an empty value. (Added in 9.5)

## Production Cloud Agent Group Update to Version 9.4.2 6 February 2019 in EMEA and February 8, 2019 in NA

This update was an upgrade of the Production Cloud Agent Group from agent version 9.2 to agent version 9.4.2. This includes all updates up to and including the 9.4.2 release.

The Sandbox Cloud Agent Group was made available on January 7, 2019 in both EMEA and NA for testing your projects with agent version 9.4.2 to ensure that you are ready for this upgrade of the Production Cloud Agent Group.

### Enhancements

- Added the SQL Server Microsoft JDBC Driver to the Jitterbit Harmony Agent. The SQL Server Microsoft JDBC Driver is now included in the Harmony Agent as an alternative way to connect to SQL Server. This fixes a known Date type bug in the jTDS Driver. (Added in 9.3)

### Fixes

- Fixed an issue with retrieval of the NetSuite custom segments to avoid timeout errors while generating or refreshing the schemas. (Added in 9.4.2)
- Fixed an issue where you were unable to create an SAP RFC function. SAP Remote Function Call now utilizes the user created functions. (Added in 9.3)
- Fixed an issue where a field is missing on the actual SAP request, which causes the operation to fail. The Agent transformation engine now generates the required XML tag if the element in the schema has 0 occurrences and contains a fixed attribute. (Added in 9.3)

## Sandbox Cloud Agent Group Notes

### Sandbox Cloud Agent Group Update to Version 10.6 3 September 2019 in APAC, 4 September 2019 in EMEA, and September 5, 2019 in NA

This update is an upgrade of the Sandbox Cloud Agent Group from agent version 10.4 to agent version 10.5.

The 10.6 release notes will be published on this page by the time of the APAC release.

### Sandbox Cloud Agent Group Update to Version 10.5 7 August 2019 in APAC, 8 August 2019 in EMEA, and August 12, 2019 in NA

This update is an upgrade of the Sandbox Cloud Agent Group from agent version 10.4 to agent version 10.5.

## Sandbox Cloud Agent Group Update to Version 10.4

### 17 July 2019 in APAC, 18 July 2019 in EMEA, and July 22, 2019 in NA

This update is an upgrade of the Sandbox Cloud Agent Group from agent version 10.3 to agent version 10.4.

#### Enhancements

- **NetSuite 2019.1 WSDL is now supported**  
Support for NetSuite's 2019.1 WSDL is now available for use with Jitterbit's NetSuite connectors. To use the new WSDL, specify its URL during configuration of a [Cloud Studio NetSuite connection](#) or [Design Studio NetSuite endpoint](#). Jitterbit continues to be *Built for NetSuite* (BFN) certified. (Added in 10.4)

## Sandbox Cloud Agent Group Update to Version 10.3

### 26 June 2019 in APAC, 8 July 2019 in EMEA, and July 10, 2019 in NA

This update is an upgrade of the Sandbox Cloud Agent Group from agent version 10.1 to agent version 10.3. This includes all updates up to and including the 10.3 release.

#### Fixes

- **Escaping characters in pipe-delimited schemas now works**  
When configuring a pipe-delimited custom schema in Cloud Studio or Design Studio, the option to convert escape sequences now works as expected. Previously, using this option with such a schema would cause the operation to fail. (Added in 10.3)
- **An erroneous error no longer appears when testing a Cloud Studio connection**  
When testing a connection's configuration in Cloud Studio using the **Test** button, you will no longer see an erroneous error message indicating the connector is being downloaded across agents when the connection was actually successful. (Added in 10.3)

## Sandbox Cloud Agent Group Update to Version 10.1

### 1 May 2019 in APAC, 2 May 2019 in EMEA, and May 6, 2019 in NA

This update was an upgrade of the Sandbox Cloud Agent Group from agent version 10.0 to agent version 10.1.

#### New Features

- **New Cloud Studio connectors**  
New Cloud Studio connectors for [Evernote](#), [Google Drive](#), [HubSpot](#), [Magento](#), and [SugarCRM](#) are now available to use with agents version 10.1 or higher. The new connectors can be accessed on the right side of the project designer from the design component palette.

#### Changes

- **The Cloud Studio Cherwell connector no longer works with 10.0 agents**  
A change made to the [Cherwell connector](#) in Cloud Studio means it is no longer compatible with 10.0 agents. If using the Cherwell connector, please upgrade to 10.1 agents.

#### Fixes

- **The `sendEmail()` function now supports multi-byte characters**  
The Jitterbit Script function `sendEmail()` in [Cloud Studio](#) or [Design Studio](#) can now be used to send emails containing multi-byte characters.

## Sandbox Cloud Agent Group Update to Version 10.0

### 4 April 2019 in EMEA and April 8, 2019 in NA

This update was an upgrade of the Sandbox Cloud Agent Group from agent version 9.9.0 to agent version 10.0. This includes all updates up to and including the 10.0 release.

#### Changes

- The Sandbox Cloud Agent Group no longer supports creating new projects using ODBC drivers. Use a JDBC driver or a Private Agent instead. For assistance, contact [Jitterbit Support](#). (Effective March 26, 2019)

#### Fixes

- Fixed an issue with the SAP Connector driver when it is installed for the first time on a Jitterbit Harmony Linux Agent. (Added in 10.0)

## Sandbox Cloud Agent Group Update to Version 9.9 14 March 2019 in EMEA and March 18, 2019 in NA

This update was an upgrade of the Sandbox Cloud Agent Group from agent version 9.4.2 to agent version 9.9. This included all updates up to and including the 9.9 release.

### Enhancements

- LDAP passwords can be set and updated in Jitterbit Script using the [LDAP functions](#). (Added in 9.9)
- The Java distribution included in the Jitterbit Harmony Windows Agent has been changed from the Oracle JRE to the AdoptOpenJDK JRE. (Added in 9.8)
- Boolean types are now supported for OData when using SQL Server, MySQL, or PostgreSQL. (Added in 9.7)
- SAP fields defined as doubles now work correctly when used in OData APIs. (Added in 9.7)

### Fixes

- Fixed an issue with the architecture of the third-party SAP JCo (Java Connector) library included in the Jitterbit Harmony Linux Agent. (Added in 9.9)
- Fixed an issue with the installation of the AdoptOpenJDK JRE by the Harmony Windows Agent installer that prevented certain plugins from functioning. (Added in 9.9)
- An issue with the Jitterbit global variable `jitterbit.source.preserve_char_whitespace` not being honored when transforming from CSV to JSON or from an Oracle Database to XML has been fixed. Setting `jitterbit.source.preserve_char_whitespace=true` means white space will be preserved and won't be trimmed from the beginning and end of strings in the source.

The default value for this variable is "false", and white space will be trimmed from the beginning and end of strings in the source. This default value will be used if the variable has not been explicitly set. The default behavior is unchanged from prior releases. (Added in 9.8)

- Fixed an issue with retrieval of the NetSuite custom segments to avoid timeout errors while generating or refreshing the schemas. (Added in 9.7)
- Fixed an issue in the JMS Connector with messages that are missing a JMS destination header. (Added in 9.7)
- Fixed an issue with the parsing of IDoc types. It is now enabled. (Added in 9.6)
- Resolved timeout issues when using JDBC to retrieve a large number of tables. (Added in 9.5)
- Fixed an Issue with the input parameter of the `CVTDate()` script function being set to an empty value. The `CVTDate()` function now successfully converts each input data value to the appropriate date and does not set any input to an empty value. (Added in 9.5)

## Known Issues

These issues apply to all recent Cloud Agent Group versions:

- **SFTP directories sometimes aren't auto-created**
  - **Summary:** When writing to SFTP as a target using Design Studio or Cloud Studio, the auto-creation of directories works inconsistently.
  - **Additional Info:** Depending on the particular FTP server involved, the directory may not be created.
  - **Workaround:** Confirm that the directory has been created before production use.
- **setSalesforceSession function doesn't work**
  - **Summary:** The Jitterbit Script function `SetSalesforceSession` doesn't work correctly and shouldn't be used in Design Studio or Cloud Studio.
  - **Additional Info:** If used, the script may or may not generate an error. Even if the script does not generate an error, the function will not work correctly. As the function doesn't work, the built-in session handling of the Salesforce connector will be used.