Informatica

Informatica® Cloud Data Integration
July 2024

Data Integration Connector What's New

Informatica Cloud Data Integration Data Integration Connector What's New
July 2024

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Preface

Read Data Integration Connector *What's New* to learn about new and updated connector packages, new connectors, enhanced connectors, and behavior changes in Data Integration Connectors for the July 2024 release. You can also learn about upgrade steps that you might need to perform.

Informatica Resources

Informatica provides you with a range of product resources through the Informatica Network and other online portals. Use the resources to get the most from your Informatica products and solutions and to learn from other Informatica users and subject matter experts.

Informatica Documentation

Use the Informatica Documentation Portal to explore an extensive library of documentation for current and recent product releases. To explore the Documentation Portal, visit https://docs.informatica.com.

If you have questions, comments, or ideas about the product documentation, contact the Informatica Documentation team at infa_documentation@informatica.com.

Informatica Intelligent Cloud Services web site

You can access the Informatica Intelligent Cloud Services web site at http://www.informatica.com/cloud. This site contains information about Informatica Cloud integration services.

Informatica Intelligent Cloud Services Communities

Use the Informatica Intelligent Cloud Services Community to discuss and resolve technical issues. You can also find technical tips, documentation updates, and answers to frequently asked questions.

Access the Informatica Intelligent Cloud Services Community at:

https://network.informatica.com/community/informatica-network/products/cloud-integration

Developers can learn more and share tips at the Cloud Developer community:

https://network.informatica.com/community/informatica-network/products/cloud-integration/cloud-developers

Informatica Intelligent Cloud Services Marketplace

Visit the Informatica Marketplace to try and buy Data Integration Connectors, templates, and mapplets:

https://marketplace.informatica.com/

Data Integration connector documentation

You can access documentation for Data Integration Connectors at the Documentation Portal. To explore the Documentation Portal, visit https://docs.informatica.com.

Informatica Knowledge Base

Use the Informatica Knowledge Base to find product resources such as how-to articles, best practices, video tutorials, and answers to frequently asked questions.

To search the Knowledge Base, visit https://search.informatica.com. If you have questions, comments, or ideas about the Knowledge Base, contact the Informatica Knowledge Base team at KB_Feedback@informatica.com.

Informatica Intelligent Cloud Services Trust Center

The Informatica Intelligent Cloud Services Trust Center provides information about Informatica security policies and real-time system availability.

You can access the trust center at https://www.informatica.com/trust-center.html.

Subscribe to the Informatica Intelligent Cloud Services Trust Center to receive upgrade, maintenance, and incident notifications. The Informatica Intelligent Cloud Services Status page displays the production status of all the Informatica cloud products. All maintenance updates are posted to this page, and during an outage, it will have the most current information. To ensure you are notified of updates and outages, you can subscribe to receive updates for a single component or all Informatica Intelligent Cloud Services components. Subscribing to all components is the best way to be certain you never miss an update.

To subscribe, on the Informatica Intelligent Cloud Services Status page, click **SUBSCRIBE TO UPDATES**. You can choose to receive notifications sent as emails, SMS text messages, webhooks, RSS feeds, or any combination of the four.

Informatica Global Customer Support

You can contact a Global Support Center through the Informatica Network or by telephone.

To find online support resources on the Informatica Network, click **Contact Support** in the Informatica Intelligent Cloud Services Help menu to go to the **Cloud Support** page. The **Cloud Support** page includes system status information and community discussions. Log in to Informatica Network and click **Need Help** to find additional resources and to contact Informatica Global Customer Support through email.

The telephone numbers for Informatica Global Customer Support are available from the Informatica web site at https://www.informatica.com/services-and-training/support-services/contact-us.html.

CHAPTER 1

July 2024

Read about new and updated connector packages, new connectors, enhanced connectors, and behavior changes in the July 2024 release of Data Integration Connectors.

The following table lists the new and updated connector packages. The updated packages might include feature enhancements or might address bugs and internal fixes implemented for the release.

Amazon Athena Connector	Microsoft Fabric Data Warehouse Connector
Amazon Redshift Connector	Microsoft Fabric Lakehouse Connector
Amazon Redshift V2 Connector	Microsoft Fabric OneLake Connector
Amazon S3 Connector	Microsoft SharePoint Online Connector
Amazon S3 V2 Connector	Netezza Connector
Business 360 Connector	OData V2 Protocol Reader Connector
Business 360 Events Connector	Power BI Connector
Business 360 FEP Connector	SAP BAPI Connector
Concur V2 Connector	SAP BW Connector
Databricks Connector	SAP BW BEx Query Connector
Db2 for i CDC Connector	SAP HANA Connector
Google Analytics Connector	SAP ODP Extractor Connector
Google BigQuery V2 Connector	SAP RFC/BAPI Interface Connector
Greenplum Connector	SAP Table Connector
IDoc Reader	ServiceNow Connector
IBM MQ Connector	SuccessFactors ODATA Connector
IMS Connector	Snowflake Data Cloud Connector
Kafka Connector	Teradata Connector
Microsoft Azure Data Lake Storage Gen2 Connector	Workday V2 Connector
Microsoft Azure Synapse SQL Connector	

To learn about feature enhancements, see *Enhanced Connectors*. For known and fixed issues, see the *Data Integration Connector Release Notes*.

New connectors

The July 2024 release includes the following new connector.

Open Table Connector

You can use Open Table Connector to connect to AWS Glue Catalog from Data Integration to read from and write data to Apache Iceberg tables. Use an Open Table connection in mappings configured in advanced mode to read data from or write data to Apache Iceberg tables in an AWS Glue Catalog.

Enhanced connectors

The July 2024 release includes enhancements to the following connectors.

Common

This release includes the following enhancement for Flat File Connector, Teradata Connector, and Relational connectors that support partitioning:

- You can configure partitioning for a parameterized Source transformation from the mapping task. You can also override the partition details configured in the mapping from the mapping task.

Amazon Redshift V2 Connector

This release includes the following enhancements for Amazon Redshift V2 Connector:

- You can create a mapping in SQL ELT mode when you extract data from the following sources and load data to Amazon Redshift:
  - Amazon Redshift
  - Amazon S3
- You can configure a SQL statement in an Amazon Redshift V2 connection to set up the database environment that applies for the entire session.
- You can configure a virtual private cloud endpoint to enable private communication between the Secure Agent and the AWS Security Token Service or AWS Key Management Service for staging.
- The JDBC driver version is upgraded to 2.1.0.26.

Databricks Connector

This release includes the following enhancements for Databricks Connector:

- You can create a mapping in SQL ELT mode when you extract data from the following sources and load data to Databricks:
  - Amazon S3
  - Databricks
  - Microsoft Azure Data Lake Storage Gen2
- **SQL ELT enhancement**
  You can define expressions in a data driven condition to flag rows for an insert, update, delete, or reject operation.
- You can configure a virtual private cloud endpoint to enable private communication between the Secure Agent and Amazon S3 or AWS Security Token Service for staging.

Google BigQuery V2 Connector

This release includes the following enhancements for Google BigQuery V2 Connector:

- You can create a mapping in SQL ELT mode when you extract data from the following sources and load data to Google BigQuery:
  - Amazon S3
  - Google BigQuery
  - Google Cloud Storage
- You can use the MD5 function with Base16 format in a mapping enabled with SQL ELT optimization.
- You can set the default column value for the return field in a cached and connected Lookup transformation in a mapping.

Greenplum Connector

You can use Kerberos authentication to connect to Greenplum.

Hive Connector

You can connect to Hive on a Cloudera CDP Private Cloud 7.1 distribution enabled with Knox to read or write data.

IBM MQ Connector

You can configure two-way secure communication in the IBM MQ connection to connect to IBM MQ.

IMS Connector

The IMS connector can now read data from a nonrelational data source with multiple record types and write the multiple record types to a nonrelational target, while maintaining the sequence of data. When you configure a mapping, select the new **Multi Group** option for the Source Type and Target Type. This feature is useful when you need to preserve the sequence of data for applications that must process the data in a specific order, or if you want to filter a portion of the records to obtain a smaller subset of records.

JDBC V2 Connector

You can configure a SQL statement to set up the database environment for a PostgreSQL endpoint using JDBC V2 Connector that applies for the entire session.

Microsoft Azure Data Lake Storage Gen2 Connector

You can use the Delta file format to read a Delta Lake or create a Delta Lake in Microsoft Azure Data Lake Storage Gen2.

Microsoft Azure Synapse SQL Connector

This release includes the following enhancements for Microsoft Azure Synapse SQL Connector:

- You can set the default column value for the return field in a Lookup transformation in a Microsoft Azure Synapse SQL mapping. This feature doesn't apply to mappings in advanced mode.
- You can configure the Parquet staging file format to stage files in Azure storage when you write data to Microsoft Azure Synapse SQL.

Microsoft Fabric Data Warehouse Connector

This release includes the following enhancements for Microsoft Fabric Data Warehouse Connector:

- You can use a Microsoft Fabric Data Warehouse connection in mappings to read from and write data to Microsoft Fabric Data Warehouse.

- You can use a hosted agent or serverless runtime environment in a Microsoft Fabric Data Warehouse connection.

Microsoft Fabric Lakehouse Connector

This release includes the following enhancements for Microsoft Fabric Lakehouse Connector:

- You can use a Microsoft Fabric Lakehouse connection in mappings to read from and write data to Microsoft Fabric Lakehouse.
- You can use a hosted agent or serverless runtime environment in a Microsoft Fabric Lakehouse connection.

Microsoft Fabric OneLake Connector

You can use a hosted agent or serverless runtime environment in a Microsoft Fabric OneLake connection.

Microsoft SQL Server Connector

You can run Microsoft SQL Server mappings using the upgraded JDBC driver version 6.0.0.001475 or ODBC driver version 08.02.1617. These drivers are available in the `latest` folder in the Secure Agent installation directory. The previous latest drivers are available in the `base` folder. For information on using the latest driver, see
How to use the patched or latest JDBC or ODBC driver for Oracle and Microsoft SQL Server Connectors.

Oracle Cloud Object Storage Connector

You can configure authenticated or unauthenticated HTTP proxy in Oracle Cloud Object Storage Connector.

ODBC Connector

You can configure a SQL statement to set up the database environment for a PostgreSQL endpoint using ODBC Connector that applies for the entire session.

Oracle Connector

You can run Oracle mappings using the upgraded JDBC driver version 6.0.0.001235 or ODBC driver version 08.02.3140. These drivers are available in the `latest` folder in the Secure Agent installation directory. The previous latest drivers are available in the `base` folder. For information on using the latest driver, see
How to use the patched or latest JDBC or ODBC driver for Oracle and Microsoft SQL Server Connectors.

PostgreSQL Connector

You can configure a SQL statement to set up the database environment for a PostgreSQL connection that applies for the entire session.

Sequential Connector

The Sequential connector can now read data from a nonrelational data source with multiple record types and write the multiple record types to a nonrelational target, while maintaining the sequence of data. When you configure a mapping, select the new **Multi Group** option for the Source Type and Target Type. This feature is useful when you need to preserve the sequence of data for applications that must process the data in a specific order, or if you want to filter a portion of the records to obtain a smaller subset of records.

SharePoint Online Connector

You can now use the Microsoft Entra ID authentication type to connect to SharePoint Online.

Snowflake Data Cloud Connector

This release includes the following enhancements for Snowflake Data Cloud Connector:

- **Mapping in SQL ELT mode**
  You can push a few conditional expression, cortex, date and time, and window functions to Snowflake.

  For the list of supported functions, see the Snowflake Data Cloud Connector documentation.
- You can improve the writing performance of a Snowflake mapping that uses a CDC source and Snowflake target.

Workday V2 Connector

You can configure a Web Services transformation in a mapping that reads from Workday to include descriptors in the response.

VSAM Connector

The VSAM connector can now read data from a nonrelational data source with multiple record types and write the multiple record types to a nonrelational target, while maintaining the sequence of data. When you configure a mapping, select the new **Multi Group** option for the Source Type and Target Type. This feature is useful when you need to preserve the sequence of data for applications that must process the data in a specific order, or if you want to filter a portion of the records to obtain a smaller subset of records.

Changed behavior

The July 2024 release includes changes in behavior for the following connectors.

Amazon Redshift V2 Connector

Effective in this release, Amazon Redshift V2 Connector includes the following changed behaviors due to upgrade of the JDBC driver version to 2.1.0.26:

- When an SQL query in an SQL transformation returns an error, the error messages are displayed in the following format:
  ```
  Error: column""xyz"" does not exist in department_auto_dynamic
  ```
  Before the upgrade, the error messages were displayed in the following format:
  ```
  [Amazon] (500310) Invalid operation: column ""xyz"" does not exist in
  department_auto_dynamic
  ```
- When you read an external table with decimal values from a Parquet source in Amazon Redshift, the precision and scale of decimal values are maintained in the target.
  For example, if a column of decimal data type has a precision of 15 and a scale of 10 in the source, after the upgrade, the decimal value 12345.6789012345 retains its precision and scale in the target.

Business 360 FEP Connector

Effective in this release, when you use Business 360 FEP connector in the mapping for an egress job for exporting field groups, the exported data includes the source systems of the field groups. If field groups contain multiple entries, you can identify them based on their source systems in the exported data.

Previously, the exported data included only the source systems for the root fields.

Databricks Connector

Effective in this release, Databricks Delta Connector is renamed to Databricks Connector.

Microsoft SQL Server Connector

The JDBC base driver is updated to version 6.0.0.001282.

The Microsoft SQL Server Connector uses this driver by default. The previous base drivers are available in the EBF folder. You can configure some custom properties to use the drivers from the EBF folder. For more information on using the EBF drivers, see
How to use the patched or latest JDBC or ODBC driver for Oracle and Microsoft SQL Server Connectors.

Oracle Connector

Effective in this release, Oracle Connector includes the following changed behaviors:

- The base drivers for JDBC and ODBC are updated to the following versions:

  - JDBC: 6.0.0.001165

  - ODBC: 08.02.3072

  The Oracle Connector uses these drivers by default. The previous base drivers are available in the EBF folder. You can configure some custom properties to use the drivers from the EBF folder. For more information on using the EBF drivers, see
  How to use the patched or latest JDBC or ODBC driver for Oracle and Microsoft SQL Server Connectors.
- When you run a mapping with an Oracle connection to write data to a column with nVarchar2 data type, and the source data length exceeds the precision set for the target object, the rows are rejected with a warning message.
  Previously, these records were written to the target after truncating the data as per the precision set for the target object.
- When you set the `OdbcDataDirectNonWapi` system property for the DTM type to 1 in the Secure Agent and configure a mapping to write data to a column with the VARCHAR2 data type, if the source data length exceeds the precision set for the target object, the rows are rejected with a warning message. This issue occurs when you use the driver version available in the `base` folder.
  Previously, these records were written to the target after truncating the data as per the precision set for the target object.

  To resolve this issue, perform one of the following actions:

  - You can increase the length of the column in Oracle database and resync the target before running the mapping.
  - To truncate and write data of the VARCHAR2 data type based on the column width, enter `ColumnSizeAsCharacter=0` in the **Runtime Advanced Connection Properties** field in the Oracle connection and then run the mapping.

Snowflake Data Cloud Connector

Effective in this release, you can use a SQL transformation to call overloaded stored procedure in Snowflake that contain the same name and different number of arguments.

Previously, you could not configure a mapping that uses schema with multiple stored procedures that contain the same name and different number of arguments.

However, after the upgrade, if you add a stored procedure to a schema that is used in an existing mapping that already contains a stored procedure with an identical name and different number of arguments, the mapping fails at run time.

To run mapping successfully, re-select the stored procedure from the schema and re-run the mapping.

Upgrade tasks

The following topics provide information about tasks that you might need to perform before or after an upgrade of Informatica Intelligent Cloud Services Data Integration Connectors. Post-upgrade tasks for previous monthly releases are also included in case you haven't performed these tasks after the previous upgrade.

Post-upgrade tasks for the July 2024 release

Perform the following tasks after your organization is upgraded to the July 2024 release.

Oracle Connector

If you run a mapping with an Oracle connection to write data to a column with nVarchar2 datatype, and the source data length exceeds the precision set for the target object, the rows are rejected with a warning message. Previously, these records were written to the target after truncating the data as per the precision set for the target object. This issue occurs because the base drivers for Oracle Connector is upgraded to the following versions:

- JDBC: 6.0.0.001165
- ODBC: 08.02.3072

To resolve this issue, perform one of the following actions:

- You can increase length of column in Oracle database and resync the target before running the mappings.
- To retain the old behavior, you can use the older version of the driver available in the EBF folder. Perform the following steps to use the drivers from the EBF folder:
  1. Log in to Informatica Intelligent Cloud Services.
  2. In Administrator, select **Runtime Environments**.
  3. Select the Secure Agent that runs the mapping, and click **Edit**.
  4. In the **Custom Configuration Details** section, select Data Integration Server as the service.
  5. Select the applicable Data Integration Server type and add the following custom properties based on the JDBC or ODBC driver that you want to use for your connector.

Driver	Type	Custom Property	Value
Oracle JDBC	Tomcat	ORACLE_JDBC_DRIVER_JARNAME	'dworacle-ebf.jar'
Oracle ODBC	DTM	DD_CLOSED_ORACLE_DRIVER	'DataDirect CLOSED 8.0 Oracle Wire Protocol for Informatica - EBF'

  6. Click **Save**.

CHAPTER 2

May 2024

The following topics provide information about new connectors and enhanced connectors in the May 2024 release of Informatica Intelligent Cloud Services℠ Data Integration Connectors.

New connectors

This release includes the following new connector.

Slack Connector

You can use Slack Connector to read from and write to Slack. Slack sources and targets represent operations such as messaging, administration, and file management in Slack.

Note: This connector is developed by Informatica partners, third-party system integrators, or customers. You can look up the Product Availability Matrix or Informatica Marketplace for more information.

Enhanced connectors

This release includes enhancements to the following connectors.

Amazon Redshift V2 Connector

You can use input and in-out parameters to partially parameterize the following properties in a mapping in advanced mode:

- Advanced filter
- Query
- Pre-SQL
- Post-SQL
- SQL query
- Override target query

Google BigQuery V2 Connector

When you enable cross-region replication in Google BigQuery for disaster recovery purposes, you can read from or write to datasets in these replicated regions.

Kafka Connector

You can configure incremental load in a mapping in advanced mode to read from Kafka source topics.

Salesforce Connector

You can configure a data transfer task to run in real time when it receives an outbound message from Salesforce.

ServiceNow Connector

You can read and write data of the schedule_date_time data type.

CHAPTER 3

April 2024

The following topics provide information about enhancements and behavior changes in the April 2024 release of Informatica Intelligent Cloud Services℠ Data Integration Connectors.

Important notices

Informatica has modified the levels of customer support that it offers for one or more Informatica Intelligent Cloud Services Data Integration features in the current release. The following notices identify the features and the current support levels.

Preview lifted

Effective in the April 2024 release, the following connectors are lifted from preview and are production ready:

- Microsoft Fabric Data Warehouse
- Microsoft Fabric Lakehouse
- Microsoft Fabric OneLake

Enhanced connectors

This release includes enhancements to the following connectors.

Adabas Connector

- When you define a connection, you can specify one or more connection overrides in the **Custom Properties** field, such as $UserPass="User Name=jdoe;Password=mypassword".
- You can override source objects through parameterization in mappings. Parameterization enables you to parameterize the number of source objects and object names. In mappings, the new Parameter field appears on the **Source** > **Details** tab. Click **New Parameter** next to the field to create a parameter with the new type of multi group data object. This type of parameter can define a set of source object groups, one group per object. You can then map the group names to target transformations.

Adabas CDC Connector

You can set a user-defined parameter in the **Custom Properties** connection property that allows you to specify connection property overrides through a parameter file.

Amazon Athena Connector

You can configure AWS Identity and Access Management (IAM) authentication when the Secure Agent is installed on an Amazon Elastic Compute Cloud (EC2) system.

Amazon Redshift V2 Connector

This release includes the following enhancements for Amazon Redshift V2 Connector:

- **SQL ELT optimization enhancement**
  - When you run a mapping enabled for SQL ELT optimization and the mapping contains multiple pipelines, you can define the flow run order when you want Data Integration to load the targets from the pipelines in a particular order.
  - When you configure a mapping to write to multiple targets in a single pipeline, with each target configured for any write operation, the target operations are processed in a predefined order of delete, update, upsert, and insert.
- You can configure a SQL transformation to process a user-entered query to call a stored procedure that returns a value or no values.
- You can configure a virtual private cloud endpoint to enable private communication between the Secure Agent and the Amazon S3 bucket for staging.

Databricks Delta Connector

This release includes the following enhancements for Databricks Delta Connector:

- **SQL ELT optimization enhancement**
  When you run a mapping enabled for SQL ELT optimization and the mapping contains multiple pipelines, you can define the flow run order when you want Data Integration to load the targets from the pipelines in a particular order.
- You can configure partitioning to optimize the mapping performance at run time when you write data to Databricks Delta targets.
- You can improve the staging performance of a mapping that writes to Databricks Delta.
- You can configure a connection and mapping in one environment and then migrate and run the mapping in another environment.

Db2 Data Map Connector

- When you define a connection, you can specify one or more connection overrides in the **Custom Properties** field, such as $UserPass="User Name=jdoe;Password=mypassword".
- You can override source objects through parameterization in mappings. Parameterization enables you to parameterize the number of source objects and object names. In mappings, the new Parameter field appears on the **Source** > **Details** tab. Click **New Parameter** next to the field to create a parameter with the new type of multi group data object. This type of parameter can define a set of source object groups, one group per object. You can then map the group names to target transformations. .

Db2 for i CDC Connector

This release includes the following enhancements for Db2 for i CDC Connector:

- You can set a user-defined parameter in the **Custom Properties** connection property that allows you to specify connection property overrides through a parameter file.
- The optional mapping source property, **Journal Name**, enables you to override the library and journal name in the PowerExchange CAPI_CONNECTION statement.

Db2 for LUW CDC Connector

You can set a user-defined parameter in the **Custom Properties** connection property that allows you to specify connection property overrides through a parameter file.

Db2 for z/OS Bulk Load Connector

When you define a connection, you can specify one or more connection overrides in the **Custom Properties** field, such as $UserPass="User Name=jdoe;Password=mypassword".

Db2 for z/OS CDC Connector

You can set a user-defined parameter in the **Custom Properties** connection property that allows you to specify connection property overrides through a parameter file.

Db2 for z/OS Image Copy Connector

- When you define a connection, you can specify one or more connection overrides in the **Custom Properties** field, such as $UserPass="User Name=jdoe;Password=mypassword".
- You can override source objects through parameterization in mappings. Parameterization enables you to parameterize the number of source objects and object names. In mappings, the new Parameter field appears on the **Source** > **Details** tab. Click **New Parameter** next to the field to create a parameter with the new type of multi group data object. This type of parameter can define a set of source object groups, one group per object. You can then map the group names to target transformations.

Db2 for z/OS Unload File Connector

- When you define a connection, you can specify one or more connection overrides in the **Custom Properties** field, such as $UserPass="User Name=jdoe;Password=mypassword".
- You can override source objects through parameterization in mappings. Parameterization enables you to parameterize the number of source objects and object names. In mappings, the new Parameter field appears on the **Source** > **Details** tab. Click **New Parameter** next to the field to create a parameter with the new type of multi group data object. This type of parameter can define a set of source object groups, one group per object. You can then map the group names to target transformations.

DB2 Loader Connector

You can encrypt passwords when connecting to DB2 databases.

Google BigQuery V2 Connector

This release includes the following enhancements for Google BigQuery V2 Connector:

- You can create a target table with clustered columns at run time.
- You can configure the threshold number of errors in a mapping task. The mapping continues to run until the number of errors reaches the set threshold value, then it fails.
- You can enable sorted input in a cached Lookup transformation to enhance the lookup performance.
- You can add a label in a mapping to filter the associated jobs in the Google Log Explorer.
- You can configure views in a mapping in the following scenarios:
  - Within a Lookup transformation.
  - Within a Source transformation with staging optimization enabled.

IMS Connector

This release includes the following enhancements for IMS Connector:

- When you define a connection, you can specify one or more connection overrides in the **Custom Properties** field, such as $UserPass="User Name=jdoe;Password=mypassword".

- You can override source objects through parameterization in mappings. Parameterization enables you to parameterize the number of source objects and object names. In mappings, the new Parameter field appears on the **Source** > **Details** tab. Click **New Parameter** next to the field to create a parameter with the new type of multi group data object. This type of parameter can define a set of source object groups, one group per object. You can then map the group names to target transformations.

IMS CDC Connector

You can set a user-defined parameter in the **Custom Properties** connection property that allows you to specify connection property overrides through a parameter file.

JDBC V2 Connector

You can use a JDBC V2 connection to read data from Salesforce Data Cloud.

Kafka Connector

You can configure the polling interval value in the source advanced properties. The polling interval determines how long the agent waits to retrieve records from the Kafka broker.

Microsoft Azure Cosmos DB SQl API Connector

When you write data in bulk to Microsoft Azure Cosmos DB SQl API, you can set the mapping to throttle throughput of low priority requests and prioritize higher priority requests.

Microsoft Azure Synapse SQL Connector

This release includes the following enhancements for Microsoft Azure Synapse SQL Connector:

- **SQL ELT optimization enhancement**
  When you run a mapping enabled for SQL ELT optimization and the mapping contains multiple pipelines, you can define the flow run order when you want Data Integration to load the targets from the pipelines in a particular order.
- When you run a mapping that reads from and writes to Microsoft Azure Synapse SQL, you can override the schema name that the Secure Agent uses to create external tables for staging data files.
- You can use the ISNULL or ISNOTNULL operators when you define a source filter or an uncached lookup condition.
- You can push the IS_DATE() function to process in Microsoft Azure Synapse SQL.

Microsoft Fabric Data Warehouse Connector

This release includes the following enhancements for Microsoft Fabric Data Warehouse Connector:

- You can use custom queries to read data from Microsoft Fabric Data Warehouse source objects.
- You can configure a connection and mapping in one environment and then migrate and run the mapping in another environment.
- You can determine the behavior of a task that encounters errors while executing pre-SQL or post-SQL commands.
- You can perform delete and data driven operations when you write to a Microsoft Fabric Data Warehouse target.
- You can truncate the target data before inserting the data to a Microsoft Fabric Data Warehouse target.

Microsoft Fabric Lakehouse Connector

This release includes the following enhancements for Microsoft Fabric Lakehouse Connector:

- You can configure a connection and mapping in one environment and then migrate and run the mapping in another environment.

- You can use custom queries to read data from Microsoft Fabric Lakehouse source objects.

Microsoft Fabric OneLake Connector

This release includes the following enhancements for Microsoft Fabric OneLake Connector:

- You can read files from directories and sub-directories.
- You can use wildcard characters to specify the source files and source directory names.
- You can configure an authenticated or unauthenticated proxy server to connect to Microsoft Fabric OneLake.
- You can read data from semi-structured or unstructured source files in a mapping in advanced mode.
- You can append data to an existing file in Microsoft Fabric OneLake.

Microsoft SQL Server Connector

This release includes the following enhancements for Microsoft SQL Server Connector:

- You can run Microsoft SQL Server mappings using the upgraded JDBC driver version 6.0.0.001282 or ODBC driver version 08.02.1500.
- You can configure the connection timeout value for test connection while creating a Microsoft SQL Server connection.

Microsoft SQL Server CDC Connector

You can set a user-defined parameter in the **Custom Properties** connection property that allows you to specify connection property overrides through a parameter file.

MySQL Connector

You can configure the connection timeout value for test connection while creating a MySQL connection.

MySQL CDC Connector

You can set a user-defined parameter in the **Custom Properties** connection property that allows you to specify connection property overrides through a parameter file.

ODBC Connector

This release includes the following enhancements for ODBC Connector:

- You can read from or write data to Sybase ASE databases.
- You can use Kerberos authentication to connect to SSL-enabled Sybase ASE databases.

Oracle Cloud Object Storage Connector

You can read and write Gzip-compressed flat files.

Oracle CDC V2 Connector

You can set a user-defined parameter in the **Custom Properties** connection property that allows you to specify connection property overrides through a parameter file.

Oracle Connector

This release includes the following enhancements for Oracle Connector:

- You can run Oracle mappings using the upgraded JDBC driver version 6.0.0.001165 or ODBC driver version 08.02.3072.
- You can configure the connection timeout value for test connection while creating an Oracle connection.

PostgreSQL Connector

You can use Kerberos authentication to connect to PostgreSQL databases.

PostgreSQL CDC Connector

You can set a user-defined parameter in the **Custom Properties** connection property that allows you to specify connection property overrides through a parameter file.

Salesforce Connector

You can use version 59.0 and 60.0 of Salesforce API to create a Salesforce connection and access Salesforce objects.

SAP HANA Connector

You can read from SAP HANA external views that are created by SAP BW CompositeProviders in the SAP system.

SAP HANA CDC Connector

You can set a user-defined parameter in the **Custom Properties** connection property that allows you to specify connection property overrides through a parameter file.

Sequential File Connector

This release includes the following enhancements for Sequential File Connector:

- When you define a connection, you can specify one or more connection overrides in the **Custom Properties** field, such as $UserPass="User Name=jdoe;Password=mypassword".
- You can override source objects through parameterization in mappings. Parameterization enables you to parameterize the number of source objects and object names. In mappings, the new Parameter field appears on the **Source** > **Details** tab. Click **New Parameter** next to the field to create a parameter with the new type of multi group data object. This type of parameter can define a set of source object groups, one group per object. You can then map the group names to target transformations.

Snowflake Data Cloud Connector

This release includes the following enhancements for Snowflake Data Cloud Connector:

- **Mapping in SQL ELT mode enhancements**
  - You can preview data for individual transformations to validate the mapping logic. You can also preview data from fields that contain primitive and hierarchical data types.
  - You can preview the SQL queries at design time.
  - When you configure multiple targets, you can view statistics for each target separately in the job details page.
  - You can push a few data generation, encryption, string and binary, and numeric functions to Snowflake. For the list of supported functions, see the Snowflake Data Cloud Connector documentation.
- When you run a mapping enabled for SQL ELT optimization and the mapping contains multiple pipelines, you can define the flow run order when you want Data Integration to load the targets from the pipelines in a particular order.
- You can set the default column value for the return field in a Lookup transformation in a Snowflake mapping. This feature does not apply to mappings in advanced mode.
- You can override the query_tag parameter that is defined in the Snowflake connection in a mapping task. This feature does not apply to mappings in advanced mode.
- You can remove the leading and trailing white spaces from strings when you write to a target. You can also convert fields that contain only spaces into empty strings and write them as Null values to a target. This feature does not apply to mappings in advanced mode.

- You can read from Apache Iceberg tables that are managed by Snowflake or any external catalog, and write to Apache Iceberg tables that are managed by Snowflake.

  Preview Notice: Reading from Apache Iceberg tables that are managed by Snowflake or any external catalog, and writing to Apache Iceberg tables that are managed by Snowflake is available for preview. Preview functionality is supported for evaluation purposes but is unwarranted and is not supported in production environments or any environment that you plan to push to production. Informatica intends to include the preview functionality in an upcoming release for production use, but might choose not to in accordance with changing market or technical circumstances. Note that if you are working on a preview POD, all data is excluded from SOC 2 compliance coverage. For more information, contact Informatica Global Customer Support.

Tableau V3 Connector

You can configure a personal access token authentication to connect to Tableau Server or Tableau Online.

VSAM Connector

This release includes the following enhancements for VSAM Connector:

- When you define a connection, you can specify one or more connection overrides in the **Custom Properties** field, such as $UserPass="User Name=jdoe;Password=mypassword".
- You can override source objects through parameterization in mappings. Parameterization enables you to parameterize the number of source objects and object names. In mappings, the new Parameter field appears on the **Source** > **Details** tab. Click **New Parameter** next to the field to create a parameter with the new type of multi group data object. This type of parameter can define a set of source object groups, one group per object. You can then map the group names to target transformations. .

VSAM CDC Connector

You can set a user-defined parameter in the **Custom Properties** connection property that allows you to specify connection property overrides through a parameter file.

Changed behavior

This release includes changes in behavior for the following connectors.

Amazon Redshift V2 Connector

When you configure a mapping enabled for full SQL ELT optimization and define a simple filter on a column of Super data type, the mapping fails.

Previously, the mapping ran with full SQL ELT optimization. However, zero records were written to target.

Google BigQuery V2 Connector

Effective in this release, Google BigQuery V2 Connector includes the following changes in behavior:

- In an existing mapping task configured with the **Stop on errors** advanced session property, the value is honored. The mapping continues to run until the number of errors reaches the set threshold value, then it fails.
  Previously, the mapping failed at the first occurrence of an error, regardless of the value set for the **Stop on errors** advanced session property.

- If you enabled `-DENABLE_NULL_FLAG_FOR_UNCACHED_LOOKUP=true` property in the JVM options of the Secure Agent and have an existing mapping with the following scenarios, the mapping fetches correct data in the first row of the table:
  - Configured an uncached Lookup transformation to read from Google BigQuery.
  - Lookup transformation input contains null data in the first row.

  Previously, the mapping fetched incorrect data in the first row of the table.
- If you enabled `-DENABLE_SORTED_INPUT_FOR_LKP=true` property in the JVM options of the Secure Agent and have an existing mapping with the following scenarios, the mapping fails:
  - Staging is not selected as the read mode.
  - The **Sorted Input** property is selected and the **Use EXPORT DATA Statement to stage** property is not selected in the lookup advanced properties.

  Previously, the mapping ran successfully.
- When a Google BigQuery table is imported as a single object source in Staging mode using CSV format, and the backend schema in Google BigQuery is modified by rearranging the columns, the mapping correctly writes the data to the corresponding columns in the target table.
  Previously, the mapping either failed to run or corrupted the data in the target table.

Microsoft Azure Synapse SQL Connector

Effective in this release, Microsoft Azure Synapse SQL Connector includes the following change in behavior:

- When you choose a storage type in the connection properties, the mapping shows the properties relevant to that storage type in both the source and target properties, simplifying the user experience. Previously, all storage properties were displayed.
- The mapping displays the advanced runtime properties only if the configured runtime environment is up and running. If you have configured a Secure Agent group, then the mapping displays the advanced runtime properties if at least one agent in the Secure Agent group is up and running. Previously, the mapping displayed the advanced runtime properties irrespective of the runtime environment status.
- If you configure an uncached Lookup transformation to look up data from a Microsoft Azure Synapse SQL source, where the source data of the string data type contains empty values, the uncached lookup query condition uses the correct values from the lookup object. Previously, the uncached lookup query condition used incorrect values from the lookup object.

Microsoft SQL Server Connector

Effective in this release, if you use the latest DataDirect driver and use SSL encryption, the OpenSSL version 3.0 is used by default.

Previously, the default version was OpenSSL 1.1.1.

If you want to use an earlier version of OpenSSL, add the following property in the **Runtime Advanced Connection Properties** field:

```
AllowedOpenSSLVersions=<OpenSSL_version>
```

Oracle Connector

Effective in this release, if you use the latest DataDirect driver and use SSL encryption, the OpenSSL version 3.0 is used by default.

Previously, the default version was OpenSSL 1.1.1.

If you want to use an earlier version of OpenSSL, add the following property in the **Runtime Advanced Connection Properties** field:

```
AllowedOpenSSLVersions=<OpenSSL_version>
```

Snowflake Data Cloud Connector

Effective in this release, when you configure a mapping enabled for full SQL ELT optimization and specify a temporary key column that contains the Binary data type in the **Update Column** field for the target, the mapping runs successfully with full SQL ELT optimization.

Previously, the mapping ran without SQL ELT optimization.

CHAPTER 4

February 2024

The following topics provide information about enhancements and behavior changes in the February 2024 release of Informatica Intelligent Cloud Services℠ Data Integration Connectors.

Enhanced connectors

This release includes enhancements to the following connectors.

Databricks Delta Connector

This release includes the following enhancements for Databricks Delta Connector:

- You can use the Databricks cluster version 13.3 LTS at runtime to process Databricks Delta mappings and tasks.
- You can use key range partitioning to distribute the rows of source data based on the partition key and the range of values for each partition.

Google BigQuery V2 Connector

This release includes the following enhancements for Google BigQuery V2 Connector:

- The Google BigQuery V2 Connector uses Spark BigQuery connector library to write the data in a mapping in advanced mode. This library utilizes the Google BigQuery Storage API to directly write the data into Google BigQuery and does not use Google Cloud Storage for intermediate staging.
- You can configure standard and materialized views in the following scenarios within a mapping:
  - Configure the connection to use Google BigQuery Storage API for staging.
  - Configure the retry strategy in the connection.
  - Configure a source object with Record data type and repeated columns.
  - Configure the EXPORT DATA statement for staging.
  - Read the data in an advanced mode mapping.

Snowflake Data Cloud Connector

You can push a few additional functions such as bitwise expression, context, and aggregate functions to Snowflake when you create a mapping in SQL ELT mode.

For the list of supported functions, see the Snowflake Data Cloud Connector documentation.

Changed behavior

This release includes changes in behavior for the following connectors.

Google BigQuery V2 Connector

Effective in this release, Google BigQuery V2 Connector includes the following change in behavior:

- When you configure a mapping, you cannot use view or materialized view as a target object.
  Previously, you could import view or materialized view as a target object.
- If you have an existing mapping that writes a view as the target object, override the target object with the **Target Table Name** advanced property, and set the optional property `DisableMappingDeployment:true` at the Google BigQuery V2 connection, the mapping fails with the following error:
  `Operation failed: Internal Error Occurred. Contact Support : [Cannot create write operation. The node supports read operation only.].`

  Previously, the mapping ran successfully.

  To revert to the previous behavior, remove the optional property `DisableMappingDeployment:true` at the Google BigQuery V2 connection and run the mapping again.
- When you configure a mapping in advanced mode that writes the data of more than 10 MB to a row, the mapping fails.
  Previously, the mapping ran successfully.

  To revert to the previous behavior, contact Informatica Global Customer Support.
- When you configure a mapping in advanced mode and write Date, Datetime, and Timestamp values, `0001-01-01 00:00:00` or `0001-01-02` into a Timestamp column in the target, the mapping fails. Also, data corruption might occur when you write Date, Datetime, and Timestamp values less than `1910-01-01 00:00:00`.
  Previously, the mapping ran successfully.

  To revert to the previous behavior, contact Informatica Global Customer Support.
- When you configure a mapping in advanced mode with Write truncate selected in the **Write Disposition** target advanced property, and the target table contains Date or Datetime columns, the mapping fails.
  Previously, the mapping ran successfully.

  To revert to the previous behavior, select Write append in the **Write Disposition** target advanced property and enable the **Truncate Target Table** target advanced property.

Microsoft Azure Synapse SQL Connector

Effective in this release, when you use the copy command to load data from the staging location to Microsoft Azure Synapse SQL and the data contains Windows newline characters, the Secure Agent writes the newline characters with both the carriage return (/r) and line feed (/n) to the target.

Previously, the Secure Agent wrote only the line feed (/n) to the target causing a change in the length of characters in the target data.

Snowflake Data Cloud Connector

Effective in this release, Snowflake Data Cloud Connector includes the following changes in behavior:

- When you run a mapping task to insert data from a CDC source to a Snowflake target where a primary key is not defined, the mapping task inserts data directly to the target table instead of creating a temporary stage table.
  Previously, if the Snowflake target did not have a defined primary key, the mapping task inserted data from a CDC source to a temporary stage table before inserting to the Snowflake target.

- When you run a mapping task to read from a CDC source that does not contain any changed data and write to a Snowflake target for which the recovery mechanism is disabled, the mapping task does not commit data to the target.
  Previously, even if a CDC source does not contain any changed data and the recovery mechanism is disabled for a Snowflake target, the mapping task executed the commit request and showed incorrect result.

Upgrade tasks

The following topics provide information about tasks that you might need to perform before or after an upgrade of Informatica Intelligent Cloud Services Data Integration Connectors. Post-upgrade tasks for previous monthly releases are also included in case you haven't performed these tasks after the previous upgrade.

Post-upgrade tasks for the February 2024 release

Perform the following tasks after your organization is upgraded to the February 2024 release.

Hive Connector

The Informatica Hive third-party script and the Informatica Hive third-party properties files for Hive Connector include updates in the third-party JAR names for the Azure HDInsight 4.0 distribution.

After the upgrade, if you are using the Azure HDInsight 4.0 distribution for Hive Connector, your existing Hive mappings fail.

Before you run existing mappings, run the Informatica Hive third-party script and download the required Azure HDInsight 4.0 distribution files that are available as part of the Hive Connector package in the Secure Agent installation directory. Then, restart the Secure Agent.

For more information about the tasks that you need to perform, see the *Hive Connector* documentation.

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