What's New
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Welcome to the Spring 2018 April release of Informatica Intelligent Cloud Services Data Integration.

This document is divided into two sections:

**Chapter 1, "Upgrading from Informatica Intelligent Cloud Services Winter 2017 to Spring 2018" on page 6**

Refer to this section if you are upgrading from the Data Integration Winter 2017 release. This section includes high-level descriptions of the new features and enhancements added since the Winter 2017 release.

**Chapter 2, "Migrating from Informatica Cloud Spring 2017 to Informatica Intelligent Cloud Services Spring 2018" on page 17**

Use this section if you are migrating from Informatica Cloud Spring 2017. This section includes an overview of Data Integration features and information on migrating to Data Integration.
Upgrading from Informatica Intelligent Cloud Services Winter 2017 to Spring 2018

This section provides a brief overview of the new features and enhancements in Informatica Intelligent Cloud Services Data Integration Spring 2018 April.

This section also includes instructions for upgrading from Informatica Intelligent Cloud Services Data Integration Winter 2017 to the Spring 2018 April release.

New Features and Enhancements

The Spring 2018 April release includes the following new features and enhancements.

New Connectors

This section describes new connectors for the Spring 2018 April release.

Coupa V2 Connector

You can use Coupa V2 Connector to connect to Coupa from Data Integration. Use Coupa V2 Connector to read data from and write data to Coupa. You can use a Coupa operation as a source or as a target in mapping tasks.

Google Analytics Connector

You can use Google Analytics Connector to connect to Google Analytics from Data Integration. Use Google Analytics Connector to read data from Google Analytics reports. You can use a Google Analytics object as a source in mapping tasks.

Hive Connector

You can use Hive Connector to connect to Hive from Data Integration. You can use a Hive object as a source and lookup in mappings and mapping tasks.

Oracle CDC

You can use Oracle CDC Connector to connect to a PowerExchange Express CDC for Oracle environment from Data Integration. Oracle CDC Connector retrieves metadata for Oracle source tables and extracts the
change records that PowerExchange captured from these source tables. Add the Oracle CDC sources in mappings, and then run the associated mapping tasks to transmit change records to a Microsoft SQL Server or Oracle target.

**Qlik Connector**

You can use Qlik Connector to connect to Qlik from Data Integration. You can use a Qlik object as a target in synchronization tasks, mappings, and mapping tasks.

### Enhanced Connectors

This section describes enhanced connectors for the Spring 2018 April release.

**Amazon Redshift Connector**

The Spring 2018 April release includes the following enhancements for Amazon Redshift Connector:

- You can now read data from or write data to the following regions:
  - AWS GovCloud
  - China (Beijing)
- The AWS SDK for Java is updated to version 1.11.250.
- You can configure cross-schema pushdown optimization for a mapping task that uses a Amazon Redshift ODBC connection to read or write data to Amazon Redshift objects of different schemas in the same database. Select the **Enable cross-schema pushdown optimization** property in the advanced session properties of the mapping task.

**Amazon Redshift V2 Connector**

The Spring 2018 April release includes the following enhancements for Amazon Redshift V2 Connector:

- For server-side encryption, you can configure the customer master key ID generated by AWS Key Management Service (AWS KMS) in the connection. You can provide the customer master key ID in the **Customer Master Key ID** field in the connection properties.
- When you read data from an Amazon Redshift V2 source, you can configure key range partitioning to optimize the mapping performance at run time.
- You can create a target object in the **Create Target** field under the target properties.
- In addition to the existing recovery options in the vacuum table, you can select the **Reindex** option to analyze the distribution of the values in an interleaved sort key column.
- You can specify the part size of an object in the **Part Size** field in the advanced target properties.
- You can configure the multipart upload option to upload a single object as a set of independent parts in the **TransferManager Thread Pool Size** field.

**Amazon S3 Connector**

The Spring 2018 April release includes the following enhancements for Amazon S3 Connector:

- You can now read data from or write data to the **AWS GovCloud region**.
- The AWS SDK for Java is updated to version 1.11.250.

**Amazon S3 V2 Connector**

The Spring 2018 April release includes the following enhancements for Amazon S3 V2 Connector:

- You can create and run a mass ingestion task to transfer files from an Amazon S3 source to an Amazon S3 target.
• You can create and run mappings or mapping tasks to read data from and write data to Amazon S3 objects.
• You can use AWS Identity and Access Management (IAM) authentication to securely control access to Amazon S3 resources.
• You can read multiple files, which are of flat format type, from Amazon S3 and write data to a target. In addition, you can configure the following properties when you use a file, which are of flat format type:
  - You can add one or more tags to the objects stored in the Amazon S3 bucket. You can add a tag to categorize the objects in the Object Tags field in the advanced target properties.
  - You can specify the part size of an object in the Part Size field in the advanced target properties.
  - You can configure the multipart upload option to upload a single object as a set of independent parts in the TransferManager Thread Pool Size field.
  - For client-side and server-side encryption, you can configure the customer master key ID generated by AWS Key Management Service (AWS KMS) in the connection properties.
  - You can encrypt data using AWS Key Management Service-managed customer master key for server-side encryption. You can select the encryption type as Server Side Encryption (SSE-KMS) in the advanced source properties.

Cvent Connector
The Spring 2018 April release includes the following enhancements for Cvent Connector:
• You can use data filters to fetch data records that have changed over a specific time period for a Cvent object. The synchronization task fetches the data that has changed for the period that you specify in the StartDate and EndDate filter fields.
• You can use StartDate and EndDate filter fields in basic and advanced data filters.

Google Cloud Spanner Connector
You can use Google Cloud Spanner Connector to read data from a Google Cloud Spanner source.
You can configure the following advanced properties for a Google Cloud Spanner source in a mapping task:
• Batch Size
• IndexDirective
• Source DataBase
• Source Table

JDBC Connector
You can define pre-SQL and post-SQL commands to run against the source database before and after reading data from the source. You can define pre-SQL and post-SQL commands to run against the target database before and after writing data to the target.

Microsoft Azure Data Lake Store V2 Connector
You can generate or skip header rows while writing data to a Microsoft Azure Data Lake Store object.

Microsoft Azure SQL Data Warehouse V2 Connector
The Spring 2018 April release includes the following enhancements for Microsoft Azure SQL Data Warehouse V2 Connector:
• You can use the IDENTITY column in synchronization and mapping tasks.
You can enable full pushdown optimization for Microsoft Azure SQL Data Warehouse sources and targets. Specify the Azure DW subtype in the ODBC connection properties to enable pushdown optimization when you read data from or write data to Microsoft Azure SQL Data Warehouse database. You can use cross-schema pushdown optimization in a mapping to read or write data based on the different schemas within the same database.

You can configure a task that includes pre-SQL or post-SQL commands to continue or to stop the read or write operation when the Data Integration service encounters errors. For example, the errors encountered while transforming data.

**Microsoft SharePoint Connector**

For an upsert operation, you can specify a secondary key field to map the source key field that you intend to use. You can specify the name of the secondary key field in the Secondary Key for Upsert property in the advanced target properties.

**Microsoft Sharepoint Online Connector**

You can create a subsite account in the Microsoft Sharepoint Online application to categorize the data as per your requirements. You can specify the URL of the subsite account in the Subsite_URL property in the connection properties.

**Microsoft SQL Server Connector**

The Spring 2018 April release includes the following enhancements for Microsoft SQL Server Connector:

- You can use a Microsoft SQL Server connection to connect to Microsoft SQL Server database 2017.
- You can configure Azure Active Directory authentication mode to authenticate and access Microsoft SQL Server from Data Integration.
- You can configure cross-schema pushdown optimization for a mapping task that uses a Microsoft SQL Server connection to read or write data to Microsoft SQL Server objects associated with different schemas within the same database. Select the Enable cross-schema pushdown optimization property in the advanced session properties of the mapping task.
- You can define pre-SQL and post-SQL commands to run against the target database before and after writing data to the target.

**ODBC Connector**

The Spring 2018 April release includes the following enhancements for ODBC Connector:

- You can read or write Unicode data.
- When you use an ODBC connection to write to DB2 and you enable Truncate Target Table option for the target object, the Secure Agent runs the truncate command instead of the delete command, which enhances the performance of the write operation. If the truncate command fails, the Secure Agent runs the delete command.

**Oracle Connector**

The Spring 2018 April release includes the following enhancements for Oracle Connector:

- You can use an Oracle connection to connect to Oracle 12C Release 2.
- You can configure cross-schema pushdown optimization for a mapping task that uses an Oracle connection to read or write data to Oracle objects associated with different schemas within the same database. Select the Enable cross-schema pushdown optimization property in the advanced session properties of the mapping task.
- You can define pre-SQL and post-SQL commands to run against the target database before and after writing data to the target.
REST V2 Connector
You can use the namespace attribute in the request message for the midstream and target transformations.

SAP Table Reader Connector
You can configure key range partitioning when you read data from SAP table sources.
You can configure a partition key for fields of the following data types:
- ACCP
- DATS
- INT1
- INT2
- INT4
- NUMC
- TIMS

Snowflake Connector
You can configure cross-schema pushdown optimization for a mapping task that uses a Snowflake ODBC connection to read or write data to Snowflake objects associated with different schemas within the same database. Select the Enable cross-schema pushdown optimization property in the advanced session properties of the mapping task.

Teradata Connector
When you use a Teradata connection to run a mapping to read data from Teradata, you can configure an SQL override query. You can provide the SQL override statement in the source properties of a Teradata task to override the default query when you read data from a Teradata source object. You can enter any SQL statement supported by the Teradata database to read data.

Zendesk Connector
You can use Zendesk Connector to create custom fields Tickets object. You can read data from and insert data to the custom attributes that are present in the Tickets object. To read and insert the values of custom fields in Tickets object, you must configure the schema.ini file.

Administration
The Administrator service includes the following enhancements.

Metering
You can view metering information for your organization and sub-organizations. Metering information displays job limits for your organization such as the maximum number of synchronization jobs that users can run per day or per month. It also includes usage information which shows the number of jobs that users have run during the metering period.

View metering information for your organization on the Licenses page in Administrator. View metering information for your sub-organizations on the Licenses page for the sub-organization. Metering information appears on the Metering tab.
The following image shows the **Metering** tab on the **Licenses** page for an organization:

For more information about licenses and license metering, see the Administrator help.

**SAML Single Sign-On**

You can enable single sign-on (SSO) so that users can access your organization without the need to enter login information.

Configure single sign-on for Informatica Intelligent Cloud Services, on the **SAML Setup** page in the Administrator service.

The following image shows the **SAML Setup** page:

For more information about configuring SAML single sign-on, see the Administrator help.
**Trusted IP Ranges**

You can configure trusted IP addresses for your organization.

Specify trusted IP address ranges in addition to account passwords to prevent unauthorized users from accessing your organization. When you specify trusted IP ranges, a user with a valid login must also have an IP address within the range of trusted IP addresses, or the user cannot log in to your organization.

To configure trusted IP ranges, enable the **Two Factor Authentication** option and enter the trusted IP ranges in the authentication settings on the **Organization** page in Administrator.

The following image shows the authentication settings on the **Organization** page:

![Authentication settings on Organization page](image)

For more information about configuring trusted IP ranges, see the Administrator help.

**Asset Management**

This release includes the following enhancements to asset management.

**Asset Migration**

Asset migration includes the following enhancements:

- Objects in the export file retain their original names. Previously the file names were system-generated.
- Project and folder structure is preserved in the export file. You can retain the structure during import.

**Bundles**

A bundle that is copy-enabled can contain any type of asset. Previously it could only contain mappings, mapping tasks, mapplets, and Visio templates.

**Permissions**

You can configure permissions for projects, folders, and assets to determine access rights for users and user groups. Configure permissions on the **Explore** page.

Your organization must have the Fine Grained Security license to use this feature.
Tags

You can assign tags to assets so that you can easily view associated assets on the Explore page.

For example, your company has four regional offices. You want to view tasks by the region that manages them. You create a tag for each region and associate each task with the appropriate tag. Then on the Explore page, you can find all of the tasks that a particular region manages.

You can create tags and assign tags to assets on the Explore page.

Mappings and Tasks

This release includes the following enhancements to mappings and tasks.

Mass Ingestion Task

The mass ingestion task includes the following enhancements.

- You can transfer files from cloud sources to on-premises targets. Transfer files from Amazon S3 to a local folder and to FTP, SFTP, and FTPS servers.
- You can transfer files to Microsoft Azure, including Microsoft Azure Data Warehouse and Microsoft Azure Blob.
- You can upload files from Amazon S3 to Amazon Redshift directly from the Amazon S3 source directory with no additional, intermediate staging.
- For Advanced FTP, Advanced FTPS, and Advanced SFTP sources you can select to rename files or archive files after file pickup.
- You can run mass ingestion tasks from remote locations with the Run Mass Ingestion Task REST API.

Pre- and Post-SQL Commands for Targets

You can run pre- and post-SQL commands against relational targets in a mapping.

Data Integration runs pre-SQL commands against the target before it reads data from the source. It runs post-SQL commands against the target after it writes data to the target.

For more information about pre- and post-SQL commands for relational targets, see the Data Integration help.

Pushdown Optimization

You can use pushdown optimization for mappings that have source objects in multiple schemas.

Set the Enable pushdown optimization across schemas advanced property when you configure the mapping task.

This enhancement is not available for all connector types. To find out if the connector type used in your mapping supports pushdown optimization across multiple schemas, see the relevant connector guide.
Structure Parser Transformation

You can use a Structure Parser transformation in a mapping to transform input data into a user-defined structured format based on an intelligent structure model. You can use the Structure Parser transformation to analyze data such as log files, clickstreams, XML or JSON files, Microsoft Word tables, and other formats.

The intelligent structure is created based on a sample of your input data, such as an XML file, PDF form or Microsoft Excel file. The Structure Parser transformation transforms your input data into a user-defined structured format based on the intelligent structure that you associate with the transformation.

REST API

You can use the REST API to log in to an organization using SAML single sign-on credentials.

Use the loginSaml version 2 resource or the LoginSaml version 3 resource.

Use one of the following URLs to log in using SAML:

- REST API version 2: https://dm-us.informaticacloud.com/ma/api/v2/user/loginSaml
- REST API version 3: https://dm-us.informaticacloud.com/saas/public/core/v3/LoginSaml

Preparing for the Upgrade

The Secure Agent upgrades the first time that you access the Informatica Intelligent Cloud Services Spring 2018 April release.

Files that you added to the following directory are preserved after the upgrade:

<Secure Agent installation directory>/apps/Data_Integration_Server/ext/deploy_to_main/bin/rdtm-extra

Perform the following steps to ensure that the Secure Agent is ready for the upgrade:

1. Ensure that each Secure Agent machine has sufficient disk space available for upgrade. To calculate the free space required for upgrade, use the following formula:
   
   Minimum required free space = 3 * (size of current <Secure Agent installation directory>) + 1 GB

2. Ensure that no tasks run during the maintenance window. If you use Informatica Intelligent Cloud Services to schedule tasks, you can configure a blackout period for the organization.
   
   To configure a blackout period, in Administrator, select Schedules, and then click Blackout Period.

3. Close all applications and open files to avoid file lock issues, for example:
   
   - Windows Explorer
   - Notepad
   - Windows Command Processor (cmd.exe)

After You Upgrade

Perform the following tasks after you upgrade from Data Integration Winter 2017.
Hadoop Connector Post-Upgrade Tasks

After you upgrade, you must have a license to use Cloudera CDH, Amazon Elastic MapReduce (EMR), or Hortonworks HDP packages with Hadoop Connector.

You must have appropriate read and write permissions on the temporary directory. For Linux, `/tmp` is the default directory. Make sure that an identical temporary directory structure is available on the Secure Agent system and the HDFS cluster.

Within an organization, you cannot enable licenses for more than one Hadoop distribution. If you want to use multiple Hadoop distributions, you must create separate sub-organizations for each Hadoop distribution that you want to use and assign a license for the Hadoop distribution. Otherwise, the mapping task fails.

You can also switch from one Hadoop distribution license to another within a sub-organization.

To switch from one Hadoop distribution license to another, you must perform the following tasks:

1. In Administrator, select Organization.
2. Click Sub-Organizations.
3. Select the sub-organization for which you want to switch the Hadoop distribution.
4. Click Licenses.
5. On the Custom Licenses section, disable the license for the currently active Hadoop distribution.
6. Delete the existing Hadoop distribution package folder and the hadoop distribution .checksum file from the following location:
   `<Secure Agent Installation Directory>/downloads`
7. On the Licenses page, select the license for the Hadoop distribution package that you want to use for the sub-organization.
8. Restart the Secure Agent.

Microsoft SQL Server Connector Post-Upgrade Tasks

Before you can use the Azure Active Directory Password authentication mode, you must contact Informatica Global Customer Support.

REST V2 Connector Post-Upgrade Tasks

After you upgrade from Informatica Intelligent Cloud Services Winter 2017 to Informatica Intelligent Cloud Services Spring 2018 April, and you create a new mapping, the request message editor shows the sample request in the JSON format for the JSON data.

Previously, the sample request for the JSON data was shown in the xml format. This changed behavior occurs because in Spring 2018 April, REST V2 Connector uses the JSON parser shipped with Data Integration.

If you update the business service, source, or target either by changing the connection or by changing the operation in the mappings created in the previous release, the Informatica JSON parser gets enabled. The new JSON parser has the following impact:

- The associated schema changes and all the required fields mapping is removed. Map all the required fields again for the REST V2 objects in source, midstream, and target transformations.
- The swagger specification file will need modifications in certain scenarios. For example, if Request or Response is a named object or Request and Response has array elements when the array element is not defined in the swagger specification file.
When the new JSON parser is enabled, the connector generates a new schema. If the schema, the xsd file saved in the temp directory, related to the operation does not have a write permission, the updated mapping might throw a null pointer exception during metadata fetch.

If you do not change the mappings created in the previous release, the mappings continue to use the old parsing technique and run successfully.

Salesforce Marketing Cloud Connector Post-Upgrade Tasks

After you upgrade, you must perform the following tasks for Salesforce Marketing Cloud Connector:

1. Retrieve the Client ID and the Client Secret for an existing package in the Salesforce Marketing Cloud account.
2. Assign Administrator role to the API user which is the minimum permission required to access the APIs.
3. Disable the Salesforce Marketing Cloud account password expiry date.
4. Enable read and write scopes for the installed packages in the Salesforce Marketing Cloud account which is the minimum permission required to access the installed packages.
CHAPTER 2

Migrating from Informatica Cloud Spring 2017 to Informatica Intelligent Cloud Services Spring 2018

This section includes information to help you migrate from Informatica Cloud Spring 2017 to the Informatica Intelligent Cloud Services Data Integration Spring 2018 April release.

This section includes the following information:
- Overview of Data Integration features
- Overview of the new user interface
- Connector changes
- REST API changes
- Quick references that list terminology and user interface differences
- Migration information

Data Integration Features

Informatica Cloud is now Data Integration, one of several Informatica Intelligent Cloud Services.

Use Data Integration to create your data integration projects. Data Integration gives you access to design tools that you can use to create and configure your data integration assets and run data integration tasks.

Administrative features are now in the Administrator service. Use this service to perform administrative tasks such as setting up users for Data Integration and installing bundles. Administrator supports all of the Informatica Intelligent Cloud Services. For example, if you subscribe to Data Integration and Application Integration, you perform all of your administrative tasks for Data Integration and Application Integration in Administrator.

Monitoring your organization’s job activity is now in the Monitor service. Like Administrator, Monitor is a supporting service in Informatica Intelligent Cloud Services. Monitor might support other services in addition to Data Integration.

Use the following features to create and manage your data integration projects.
Assets

Assets are data integration objects such as mappings, mapping tasks, taskflows, and components. Components are assets that support other assets, such as saved queries, fixed-width file formats, and business services. You can view and manage all of your data integration assets in a single assets library.

The following assets have new names in Data Integration:

<table>
<thead>
<tr>
<th>Informatica Cloud</th>
<th>Data Integration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data Replication task</td>
<td>Replication task</td>
</tr>
<tr>
<td>Data Synchronization task</td>
<td>Synchronization task</td>
</tr>
<tr>
<td>Data Masking task</td>
<td>Masking task</td>
</tr>
<tr>
<td>Task flow</td>
<td>Linear taskflow</td>
</tr>
<tr>
<td>Integration template</td>
<td>Visio template</td>
</tr>
</tbody>
</table>

Projects

You can define projects to group assets based on your implementation needs. Within projects, you can create folders to organize your assets.

Tags

You can assign tags to assets so that you can easily view associated assets on the Explore page.

For example, your company has four regional offices. You want the ability to view tasks by the region that manages them. You create a tag for each region and associate each task with the appropriate tag. Then on the Explore page, you can find all of the tasks that a particular region manages.

You can create tags and assign tags to assets on the Explore page.

Tags replace the custom view feature in Informatica Cloud.

Templates

You can create a mapping, mapping task, or taskflow from a template.

In the New Asset dialog box, you can choose to create a new asset from scratch or use one of the templates available for mappings, mapping tasks, and taskflows. Templates include pre-built logic that you can use for common data integration, data cleansing, and data warehousing tasks. Data Integration offers a variety of data manipulation templates to help jump-start your project.

Mass Ingestion

Use mass ingestion tasks to transfer files between on-premises and cloud repositories.

Transfer files from remote FTP, SFTP, and FTPS servers to Amazon S3 and Amazon Redshift. For example, collect logs from customer servers through FTP or SFTP and load the logs to Amazon Redshift.
Advanced Taskflows

Data Integration includes two types of taskflows. The task flow in Informatica Cloud is now referred to as a linear taskflow. The advanced taskflow introduced in Data Integration is referred to as a taskflow.

A taskflow is a new feature that you can use to control the execution sequence of mapping tasks and synchronization tasks.

For example, you can create a taskflow to load data into three different targets, `target_1`, `target_2`, and `target_3` at the same time. Previously, you needed to run a mapping task multiple times.

When you create a taskflow, you can perform the following actions to dynamically orchestrate Data Integration tasks:

- Add multiple steps, including Assignment, Data Task, Parallel Paths, Decision, Jump, and Wait, to create a taskflow as per your business requirement.
- Select from predesigned taskflow templates.
- Use the Expression Editor to create formulas that determine field values and other attributes.
- Override the source data object, source connection, target data object, or target connection input parameters for a mapping task.
- Override in-out parameters for a mapping.
- Configure how you want the taskflow to handle errors and warnings for the Data Integration task.

After you run a taskflow, you can view detailed runtime properties for the taskflow and for the Data Integration task.

Intelligent Structure Discovery and Structure Parser Transformation

Intelligent Structure Discovery and the Structure Parser transformation have the following updates:

- Intelligent Structure Discovery extends machine learning functionality to create models for XML input files and for the insert fields in PDF forms. The Structure Parser can parse XML files and PDF forms when you incorporate an appropriate intelligent structure.
- Intelligent Structure Discovery creates separate output groups for repeating elements, which simplifies the output and avoids repeating all related record data for each element in each repeating group.
- Intelligent Structure Discovery assigns unique enumerated names to elements in the same group. If an element name repeats, each name has a number appended to the name to ensure uniqueness. Output groups cannot contain elements with the same name.
- You can select to display intelligent structure table elements sorted by incoming records or output groups. This greatly enhances the ability to understand the actual output that the model will produce and perform any required model refinement.
- The intelligent structure identifies JSON key elements that are also values as values in the model. The model includes a separate output group for these values. This enhancement preserves the data values of the key element that might otherwise be lost during parsing.
- Intelligent Structure Discovery improves algorithm recognition of element types to enhance the effectiveness and accuracy of the intelligent structure.

For more information, see Transformations.
Pre- and Post-SQL Commands for Targets

You can run pre- and post-SQL commands against relational targets in a mapping.

Data Integration runs pre-SQL commands against the target before it reads data from the source. It runs post-SQL commands against the target after it writes data to the target.

For more information about pre- and post-SQL commands for relational targets, see the Data Integration help.

Job Monitoring

Informatica Intelligent Cloud Services includes new pages for monitoring jobs.

You can monitor the following types of jobs:

- Instances of mappings, tasks, and taskflows
- Import jobs
- Export jobs

You can monitor jobs from the following pages:

Jobs Page

Administrators can view information about all jobs in an organization on the Jobs page. The page displays information about all jobs in the organization that are running or have run.

To access the Jobs page, open Monitor, and select Jobs. You can drill-down on any job to view detailed information about the job, view job errors, and download job-related files such as session logs or export files.

My Jobs Page

You can view information about your data integration, import, and export jobs on the My Jobs page. The page displays information about the jobs that you are running or have run.

To access the My Jobs page, open Data Integration, and select My Jobs. You can drill-down on any job to view detailed information about the job, view job errors, and download job-related files such as session logs or export files.

The Jobs and My Jobs pages replace the Activity Log and Activity Monitor in previous versions of Informatica Cloud.

Event Monitoring

Informatica Data Integration contains the following new logs for monitoring events:

Asset log

Displays events for assets such as when each asset was created, updated, copied, or deleted and the name of the user that modified the asset.

To open the asset log, open Administrator, select Logs, and then select Asset Logs at the top of the page.

Security log

Displays events for Secure Agents and organizations such as when each agent was created or updated, when organization information was updated, and the name of the user that modified the agent or organization. Also displays authentication events for users such as when each user in the organization logged in to Data Integration.
To open the security log, open Administrator, select **Logs**, and then select **Security Logs** at the top of the page.

The asset and security logs replace the audit log in previous versions of Informatica Cloud.

**Bundles**

Bundles were enhanced for Data Integration.

When you create a bundle, you can specify which of the following actions is allowed:

- **Copy bundle assets.** Users can copy the bundle assets to a project folder and edit the assets for a particular project. Bundles that allow copy only can be located in any project folder.
- **Reference the bundle assets.** Users select assets from the Add-on Bundles project when they configure a task. Users cannot modify a bundle that only allows reference.
- **Copy or reference the bundle assets.** Users can either copy the bundle assets to a project folder or reference the bundle assets in the Add-on Bundles project.

Install and manage public and unlisted bundles in Administrator. Create and use bundles in Data Integration.

**Custom User Roles**

You can create custom roles to define the privileges that users have for product features and asset types. For example, you can create a custom role with privileges to view and run tasks and taskflows and also monitor jobs.

After you create a role, assign it to an individual user or to a group of users. The user or group inherits all of the privileges associated with the role.

**Asset Migration**

You can migrate assets from one organization to another organization.

To migrate assets in Data Integration, you export the assets from a source organization and then import the assets into a target organization. When you export a task or taskflow, all of its related objects such as tasks, mappings, mapplets, runtime environments, and connections are also exported and then imported into the target organization. During the import process, you can change the connection or runtime environment and resolve any name conflicts.

You can also migrate projects or folders. During import, you can import the entire project or folder, or select individual assets to import.

**New User Interface**

The Informatica Cloud user interface was redesigned for Informatica Intelligent Cloud Services. Most of the features that were available in prior releases of Informatica Cloud work in a similar way in Data Integration but all of the menus and navigation options have changed.

Improvements to the user interface include the following components:

- **My Services page**
- **Home page**
My Services Page

The My Services page first appears when you log in to Informatica Intelligent Cloud Services. Use the My Services page to switch from one service to another.

The content on the My Services page is based on the services that your organization is licensed to use and your user permissions. To see other services, click Show all services. The All Services page includes your services and services that you are not licensed to use. Some of these services might be available on a trial basis.

The following image shows the My Services page with the Data Integration service, Administrator service, and Monitor service:

You can select one of the services to be the default service when you log in to Informatica Intelligent Cloud Services in the future. To do so, hover the mouse over the top left corner of the service label and click Set as Default, as shown in the following image:

To see a summary about each service on the My Services page, hover the cursor over the Information icon in the lower right corner of the service label.
Home Page

When you log in to Data Integration, the Home page appears.

The following image shows the Data Integration Home page:

![Home page image]

The Home page displays the following panels:

- Overview. A summary of runtime environments, connections, projects, folders, and assets in the organization.
- Runtime Environment Status. The status of all of the organization's runtime environments.
- My Jobs. The jobs that you ran in the last 24 hours.
- Most Recent Project. The last project that you created or the project that contains the most recently modified asset.
- Recent Assets. The assets that you most recently modified.

You can get to the last project or asset that you viewed using links on the Home page.

Informatica Intelligent Cloud Services Header

The header always appears at the top of the Informatica Intelligent Cloud Services window regardless of the service you have open or the current page in view.

The following image shows the Data Integration header:

![Header image]

The header includes the name of the service that you have open and the Organization menu, Notifications list, User menu, and Help menu.

Service name
Displays the name of the open service and links to the My Services page. Use the My Services page to switch to a different service.

Organization menu
Displays the name of the organization that you are logged in to.

Notifications list
Lists messages about recent jobs.
User menu
Displays your user name and has a link to your user profile. You can also log out from the User menu.

Help menu
Includes links to the following resources:

<table>
<thead>
<tr>
<th>Resource</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Online Help</td>
<td>Displays the help for the service that is currently open.</td>
</tr>
<tr>
<td>Contact Support</td>
<td>Use to submit a support request directly to Informatica Global Customer Support.</td>
</tr>
<tr>
<td>Videos</td>
<td>Provides access to hundreds of videos in HD quality. These self-help videos will help you learn more about the Cloud product and troubleshoot issues effectively.</td>
</tr>
<tr>
<td>Informatica Network</td>
<td>Provides access to Data Integration Community articles and the Informatica Knowledge Base.</td>
</tr>
<tr>
<td>Cloud Academy</td>
<td>Provides access to instructor-led courses. Use the Cloud Academy to get certified as a specialist.</td>
</tr>
<tr>
<td>Marketplace</td>
<td>Includes the latest connectors, templates, and services to help you extend your Data Integration capabilities. You can submit an idea to the marketplace. You can also get more information on connectors available for the Data Integration product and download a trial.</td>
</tr>
<tr>
<td>Walkthroughs</td>
<td>Provides examples of how to perform typical data integration tasks. You choose the data integration task that you are interested in, and then Data Integration walks you through the process of creating the task.</td>
</tr>
</tbody>
</table>
Navigation Bar

The navigation bar always appears in the Informatica Intelligent Cloud Services window regardless of the current page in view. However, the options that are available in the navigation bar vary depending on which service is open.

The following image shows the navigation bar when Data Integration is open:

In addition to the Data Integration options, the image shows that two assets are open. Unlike Informatica Cloud, you can have multiple assets open at the same time. When you have multiple assets open at the same time, you can see them listed in the navigation bar so you can easily move from one asset to another. If a listed asset has unsaved changes, you will see a blue dot next to the name.

When Data Integration is open, you can access the following pages:

- **New.** Create new data integration assets such as mappings, tasks, and taskflows. You can create assets from scratch or use templates as a head start.
- **Home.** Return to the Home page.
- **Explore.** Create and manage Data Integration projects and assets.
- **Bundles.** Create and manage bundles that contain assets that you can share with others in your organization or make available to all Data Integration organizations.
- **My Jobs.** Review run-time details about jobs that you initiated.

When Administrator is open, you can access the following options:

- **Organization.** Configure organization details such as address information and authentication options.
- **Licenses.** Manage licenses.
- **Users.** Set up and manage users for your organization.
- **User Groups.** Set up and manage user groups.
- **User Roles.** Set up and manage user roles and privileges.
• Runtime Environment. Set up and manage runtime environments and Secure Agent groups, and download Secure Agents.
• Connections. Set up and manage connections for the organization.
• Add-On Connections. Set up and manage connections for non-native connectors.
• Schedules. Set up schedules to run integration tasks.
• Add-On Bundles. Install and manage bundles.
• Logs. View asset and security logs.

When Monitor is open, you can review run-time details about the following types of jobs that are running or have run in your organization:
• Data integration jobs, which are instances of mappings, tasks, and taskflows
• Import jobs
• Export jobs

**Explore Page**

Use the **Explore** page to view and work on your projects and assets.

The **Explore** page uses a convenient and intuitive tree structure to organize your assets.

You can view the **Explore** page by projects, assets, or tags.

![Explore Page Image](image)

You can sort the **Explore** page by name, date, or description.

You can filter the **Explore** page. For example, you can explore by assets, and then select the asset type so that only the assets of the selected type appear on the **Explore** page.

You can also find projects or assets by name. The following image shows the **Explore** page after "My Project" was entered in the Find field:

![Explore Page Filtered Image](image)
You can perform actions from the **Explore** page such as copying a mapping or running a synchronization task. Navigate to an asset, project, or folder and then click **Actions** to select an action to perform, as shown in the following image:

To perform an action on several objects at once, use the check boxes on the **Explore** page to select each object, and then use the Selection menu to choose the action, as shown in the following image:
New Asset Dialog Box

Use the New Asset dialog box to create assets.

To create an asset, click the asset type in the left panel, and then select the asset you want to use. The following image shows assets available for the task asset type:

You can select the asset that you want to create or for some asset types, you can select a template. The following image shows the cleansing templates that are available for the task asset type:
Connectors

This section lists the new and enhanced connectors from the Informatica Cloud Spring 2017 release to the Informatica Intelligent Cloud Services Spring 2018 April release.

Use the Data Integration service from Informatica Intelligent Cloud Services to create connections and data integration tasks.

New Connectors

This section describes new connections for the Spring 2018 April release.

Amazon Redshift V2 Connector
You can use Amazon Redshift V2 Connector to connect to Amazon Redshift from Data Integration. You can use an Amazon Redshift V2 object as a source or target in mappings and mapping tasks. You can use an Amazon Redshift V2 object as a target in mass ingestion tasks.

Amazon S3 V2 Connector
You can use Amazon S3 V2 Connector to connect to Amazon S3 from Data Integration. You can use an Amazon S3 V2 object as a source or target in mass ingestion tasks, mappings, and mapping tasks.

Advanced FTP Connector
You can use an Advanced FTP Connector to connect to Data Integration. You can use an Advanced FTP Connector as a source in mass ingestion tasks.

Advanced FTPS Connector
You can use an Advanced FTPS Connector to connect to Data Integration. You can use an Advanced FTPS Connector as a source in mass ingestion tasks.

Advanced SFTP Connector
You can use an Advanced SFTP Connector to connect to Data Integration. You can use an Advanced SFTP Connector as a source in mass ingestion tasks.

Coupa V2 Connector
You can use Coupa V2 Connector to connect to Coupa from Data Integration. Use Coupa V2 Connector to read data from and write data to Coupa. You can use a Coupa operation as a source or as a target in mapping tasks.

Google Analytics Connector
You can use Google Analytics Connector to connect to Google Analytics from Data Integration. Use Google Analytics Connector to read data from Google Analytics reports. You can use a Google Analytics object as a source in mapping tasks.

Google Cloud Spanner Connector
You can use Google Cloud Spanner Connector to connect to Google Cloud Spanner from Data Integration. You can use a Google Cloud Spanner object as a source or a target in mapping tasks.

Hive Connector
You can use Hive Connector to connect to Hive from Data Integration. You can use a Hive object as a source and lookup in mappings and mapping tasks.
Oracle CDC

You can use Oracle CDC Connector to connect to a PowerExchange Express CDC for Oracle environment from Data Integration. Oracle CDC Connector retrieves metadata for Oracle source tables and extracts the change records that PowerExchange captured from these source tables. Add the Oracle CDC sources in mappings, and then run the associated mapping tasks to transmit change records to a Microsoft SQL Server or Oracle target.

Qlik Connector

You can use Qlik Connector to connect to Qlik from Data Integration. You can use a Qlik object as a target in synchronization tasks, mappings, and mapping tasks.

Zuora REST V2 Connector

You can use Zuora REST V2 Connector to connect to Zuora from Data Integration. You can use Zuora object as sources and targets in mappings and mapping tasks.

Enhanced Connectors

This section describes enhanced connections for the Spring 2018 April release.

Amazon Redshift Connector

You can configure cross-schema pushdown optimization for a mapping task that uses a Amazon Redshift ODBC connection to read or write data to Amazon Redshift objects of different schemas in the same database. Select the Enable cross-schema pushdown optimization property in the advanced session properties of the mapping task.

Cvent Connector

The Spring 2018 April release includes the following enhancements for Cvent Connector:

- You can use data filters to fetch data records that have changed over a specific time period for a Cvent object. The synchronization task fetches the data that has changed for the period that you specify in the StartDate and EndDate filter fields.
- You can use StartDate and EndDate filter fields in basic and advanced data filters.

Microsoft Azure Data Lake Store V2 Connector

You can generate or skip header rows while writing data to a Microsoft Azure Data Lake Store object.

Microsoft Azure SQL Data Warehouse V2 Connector

The Spring 2018 April release includes the following enhancements for Microsoft Azure SQL Data Warehouse V2 Connector:

- You can use the IDENTITY column in synchronization and mapping tasks.
- You can enable full pushdown optimization for Microsoft Azure SQL Data Warehouse sources and targets. Specify the Azure DW subtype in the ODBC connection properties to enable pushdown optimization when you read data from or write data to Microsoft Azure SQL Data Warehouse database. You can use cross-schema pushdown optimization in a mapping to read or write data based on the different schemas within the same database.
- You can configure a task that includes pre-SQL or post-SQL commands to continue or to stop the read or write operation when the Data Integration service encounters errors. For example, the errors encountered while transforming data.
Microsoft SQL Server Connector

The Spring 2018 April release includes the following enhancements for Microsoft SQL Server Connector:

- You can use a Microsoft SQL Server connection to connect to Microsoft SQL Server database 2017.
- You can configure Azure Active Directory authentication mode to authenticate and access Microsoft SQL Server from Data Integration.
- You can configure cross-schema pushdown optimization for a mapping task that uses a Microsoft SQL Server connection to read or write data to Microsoft SQL Server objects associated with different schemas within the same database. Select the **Enable cross-schema pushdown optimization** property in the advanced session properties of the mapping task.
- You can define pre-SQL and post-SQL commands to run against the target database before and after writing data to the target.

ODBC Connector

The Spring 2018 April release includes the following enhancements for ODBC Connector:

- You can read or write Unicode data.
- When you use an ODBC connection to write to DB2 and you enable Truncate Target Table option for the target object, the Secure Agent runs the truncate command instead of the delete command, which enhances the performance of the write operation. If the truncate command fails, the Secure Agent runs the delete command.

Oracle Connector

The Spring 2018 April release includes the following enhancements for ODBC Connector:

- You can use an Oracle connection to connect to Oracle 12C Release 2.
- You can configure cross-schema pushdown optimization for a mapping task that uses an Oracle connection to read or write data to Oracle objects associated with different schemas within the same database. Select the **Enable cross-schema pushdown optimization** property in the advanced session properties of the mapping task.
- You can define pre-SQL and post-SQL commands to run against the target database before and after writing data to the target.

REST V2 Connector

You can use the namespace attribute in the request message for the midstream and target transformations. You can use the namespace attribute in the response message for the source, midstream, and target transformations.

SAP Table Reader Connector

You can configure key range partitioning when you read data from SAP table sources.

You can configure a partition key for fields of the following data types:

- ACCP
- DATS
- INT1
- INT2
- INT4
- NUMC
- TIMS
Snowflake Connector
You can configure cross-schema pushdown optimization for a mapping task that uses a Snowflake ODBC connection to read or write data to Snowflake objects associated with different schemas within the same database. Select the **Enable cross-schema pushdown optimization** property in the advanced session properties of the mapping task.

Teradata Connector
When you use a Teradata connection to run a mapping to read data from Teradata, you can configure an SQL override query. You can provide the SQL override statement in the source properties of a Teradata task to override the default query when you read data from a Teradata source object. You can enter any SQL statement supported by the Teradata database to read data.

Zendesk Connector
You can use Zendesk Connector to create custom fields Tickets object. You can read data from and insert data to the custom attributes that are present in the Tickets object. To read and insert the values of custom fields in Tickets object, you must configure the `schema.ini` file.

Hadoop Files Connector Migration Task
To migrate from Complex File Connector- Informatica Cloud Spring 2017 release to the Hadoop Files Connector- Informatica Intelligent Cloud Services Data Integration Spring 2018 April release, you must perform the following tasks:

1. Enable the Hadoop Files Connector license for your organization.
2. Copy the required configuration files to the following directory:
   `/export/home/qamercury/staging2/downloads/package-Cloudera_5_8.3/package/cloudera_cdh5u8/conf` or `/export/home/qamercury/cloud_sand/downloads/package-Hortonworks_2_5.2/package/hortonworks_2.5/conf`
3. Edit the existing Complex File connections to use the Hadoop Files connection type.

REST API
There are now two versions of the REST API.

REST API version 1 is no longer supported. For Informatica Intelligent Cloud Services, use REST API version 2 and version 3.

The *Informatica Cloud Data Integration REST API Reference* explains the two REST API versions in detail and how to use each of them to interact with Data Integration using REST API calls. You can find the latest REST API Reference in the following article on Informatica Network:

[https://network.informatica.com/docs/DOC-17563](https://network.informatica.com/docs/DOC-17563)

Note the following high level changes:

**REST API Version 2**

Version 2 includes the same resources as in Informatica Cloud Spring 2017 except where noted below. To use any of the REST API version 2 resources, you must log in using the version 2 login resource.

Note the following changes to REST API version 2:
Login URL

The login URL has changed to https://dm-us.informaticacloud.com/ma/api/v2/user/login.

License Resource

The license resource is now a REST API version 3 resource. To use the license resource, you must log in using the version 3 login URL.

REST API Version 3

Version 3 includes REST API resources that support the new features available in Data Integration such as import and export. To use any of the REST API version 3 resources, you must log in using the version 3 login resource.

Note the following differences from version 2:

Format

REST API version 3 supports JSON calls. It does not support XML calls.

Login URL

To log in to REST API version 3, use the following login URL: https://dm-us.informaticacloud.com/saas/public/core/v3/login

Base URL

When you log in to REST API version 3, the response includes the baseApiUrl attribute instead of the serverUrl attribute that REST API version 2 returns. Use the baseApiUrl attribute in the base URL for all version 3 resources except for the login resource.

The base URL is also different from version 2. Use the following base URL for version 3: <baseApiUrl>/public/core/v3/<API name>.

Session ID

Use INFA-SESSION-ID in the header for REST API version 3 calls instead of icSessionId, which is only used in version 2 calls.

Online Help

After migration from the Informatica Cloud Spring 2017 release to the Informatica Intelligent Cloud Services Spring 2018 release, you might notice changes in the online help.

Informatica Intelligent Cloud Services is comprised of different services. Information in the online help varies based on the service that you are using. For example, if you open help from the Administrator service, you see information about the Administrator service features but not information about Data Integration service or Monitor service features.

The following help systems provide different information based on the service:

Administrator help

Provides information about Administrator service features. Includes information about organizations and sub-organizations, SAML setup, license management, users, user groups, user roles, runtime environment and Secure Agent configuration, connection configuration, schedule creation, bundle installation and management, swagger file generation, and asset and security logs.
Data Integration help
Provides information about Data Integration service features. Includes information about asset management and organization, connection configuration, mappings, tasks, taskflows, job monitoring, and data integration connectors.

Monitor help
Provides information about Monitor service features. Includes information about monitoring jobs for your organization.

Quick References
This section lists the differences between Informatica Cloud and Informatica Intelligent Cloud Services in tables that you can use as a quick reference.

New and Changed Terms
Some terms used in Informatica Cloud are different in Data Integration and some terms have been added.

New Terms
The following terms are new:

<table>
<thead>
<tr>
<th>Term</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mass ingestion</td>
<td>Transfers large files between on-premise and cloud repositories.</td>
</tr>
<tr>
<td>Taskflow</td>
<td>Advanced taskflow that runs multiple tasks sequentially or in parallel based on decision criteria that you specify.</td>
</tr>
<tr>
<td>Project</td>
<td>Top-level container to store assets such as mappings, tasks, and taskflows.</td>
</tr>
<tr>
<td>Asset</td>
<td>Data integration object such as a mapping, task, or saved query.</td>
</tr>
<tr>
<td>Component</td>
<td>Asset that is used within other assets such as within mappings and tasks.</td>
</tr>
</tbody>
</table>

Changed Terms
The following terms have changed:

<table>
<thead>
<tr>
<th>Informatica Cloud</th>
<th>Data Integration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Object migration</td>
<td>Asset migration, import and export</td>
</tr>
<tr>
<td>Integration template</td>
<td>Visio template</td>
</tr>
<tr>
<td>Task flow</td>
<td>Linear taskflow</td>
</tr>
<tr>
<td>Mapping Configuration task</td>
<td>Mapping task</td>
</tr>
</tbody>
</table>
Informatica Cloud and Informatica Intelligent Cloud Services Task Locations

The following tables show you where to perform common tasks in Informatica Intelligent Cloud Services as compared to Informatica Cloud.

Task Wizard Tasks

The following table shows where the tasks in the Informatica Cloud Task Wizard menu are located in Informatica Intelligent Cloud Services.

<table>
<thead>
<tr>
<th>Functionality</th>
<th>Informatica Cloud Location</th>
<th>Informatica Intelligent Cloud Services Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>View/edit existing assets.</td>
<td>Task Wizards &gt; (task type) &gt; (task)</td>
<td>Data Integration &gt; Explore</td>
</tr>
<tr>
<td>Create a Data Synchronization task</td>
<td>Task Wizards &gt; Data Synchronization</td>
<td>Data Integration &gt; New &gt; Tasks &gt; Synchronization Task</td>
</tr>
<tr>
<td>Create a Data Replication task</td>
<td>Task Wizards &gt; Data Replication</td>
<td>Data Integration &gt; New &gt; Tasks &gt; Replication Task</td>
</tr>
<tr>
<td>Create a Mapping Configuration task</td>
<td>Task Wizards &gt; Mapping Configuration</td>
<td>Data Integration &gt; New &gt; Tasks &gt; Mapping Task</td>
</tr>
<tr>
<td>Create a Contact Validation task.</td>
<td>Task Wizards &gt; Contact Validation</td>
<td>Not applicable. Use an Address Doctor based web service for cleansing addresses.</td>
</tr>
<tr>
<td>Create a Data Assessment task.</td>
<td>Task Wizards &gt; Data Assessment</td>
<td>Not applicable. Use DQ Radar for assessing data quality.</td>
</tr>
<tr>
<td>Create a Data Masking task.</td>
<td>Task Wizards &gt; Data Masking</td>
<td>Data Integration &gt; New &gt; Tasks &gt; Masking Task</td>
</tr>
<tr>
<td>Create a PowerCenter task.</td>
<td>Task Wizards &gt; PowerCenter</td>
<td>Data Integration &gt; New &gt; Tasks &gt; PowerCenter Task</td>
</tr>
<tr>
<td>Organize existing assets into projects and folders.</td>
<td>Not applicable.</td>
<td>Data Integration &gt; Explore &gt; Projects</td>
</tr>
</tbody>
</table>
Design Tasks

The following table shows where the tasks in the Informatica Cloud Design menu are located in Informatica Intelligent Cloud Services.

<table>
<thead>
<tr>
<th>Functionality</th>
<th>Informatica Cloud Location</th>
<th>Informatica Intelligent Cloud Services Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Create mappings.</td>
<td>Design &gt; Mappings</td>
<td>Data Integration &gt; New &gt; Mappings &gt; Mapping</td>
</tr>
<tr>
<td>Create bundles.</td>
<td>Design &gt; Bundles</td>
<td>Data Integration &gt; Bundles</td>
</tr>
<tr>
<td>Upload an integration (Visio) template.</td>
<td>Design &gt; Integration Templates</td>
<td>Data Integration &gt; New &gt; Components &gt; Visio Templates</td>
</tr>
<tr>
<td>Create simple taskflows to run multiple data integration tasks in a specified order.</td>
<td>Design &gt; Task Flows</td>
<td>Data Integration &gt; New &gt; Taskflows &gt; Linear Taskflow</td>
</tr>
<tr>
<td>Create advanced taskflows that can control the execution sequence of multiple data integration tasks.</td>
<td>Not applicable.</td>
<td>Data Integration &gt; New &gt; Taskflows &gt; Taskflow</td>
</tr>
</tbody>
</table>

Monitoring Tasks

The following table shows where the tasks related to the Informatica Cloud activity log and activity monitor are located in Informatica Intelligent Cloud Services.

<table>
<thead>
<tr>
<th>Functionality</th>
<th>Informatica Cloud Location</th>
<th>Informatica Intelligent Cloud Services Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>View all completed jobs.</td>
<td>Monitor &gt; Activity Log</td>
<td>Monitor &gt; Jobs</td>
</tr>
<tr>
<td>View all running jobs.</td>
<td>Monitor &gt; Activity Monitor</td>
<td>Monitor &gt; Jobs</td>
</tr>
<tr>
<td>View your completed and running jobs.</td>
<td>Not applicable.</td>
<td>Data Integration &gt; My Jobs</td>
</tr>
</tbody>
</table>

Configuration Tasks

The following table shows where the tasks in the Informatica Cloud Configure menu are located in Informatica Intelligent Cloud Services.

<table>
<thead>
<tr>
<th>Functionality</th>
<th>Informatica Cloud Location</th>
<th>Informatica Intelligent Cloud Services Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Configure runtime environments and download Secure Agents</td>
<td>Configure &gt; Runtime Environments</td>
<td>Administrator &gt; Runtime Environments</td>
</tr>
<tr>
<td>Configure connections.</td>
<td>Configure &gt; Connections</td>
<td>Administrator &gt; Connections</td>
</tr>
<tr>
<td>Configure schedules and blackout periods.</td>
<td>Configure &gt; Schedules</td>
<td>Administrator &gt; Schedules</td>
</tr>
</tbody>
</table>
### Functionality

<table>
<thead>
<tr>
<th>Functionality</th>
<th>Informatica Cloud Location</th>
<th>Informatica Intelligent Cloud Services Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Import mapplets from PowerCenter</td>
<td>Configure &gt; Mapplets &gt; New PowerCenter Mapplet</td>
<td>Data Integration &gt; New &gt; Components &gt; Mapplet - PC Import</td>
</tr>
<tr>
<td>Create SAP BAPI/RFC mapplets.</td>
<td>Configure &gt; New SAP Mapplet</td>
<td>Data Integration &gt; New &gt; Components &gt; Mapplet - BAPI/IDOC</td>
</tr>
<tr>
<td>Create/upload hierarchical schemas.</td>
<td>Configure &gt; Hierarchical Schema</td>
<td>Data Integration &gt; New &gt; Components &gt; Hierarchical Schema</td>
</tr>
<tr>
<td>Create saved queries.</td>
<td>Configure &gt; Saved Queries</td>
<td>Data Integration &gt; New &gt; Components &gt; Saved Query</td>
</tr>
<tr>
<td>Create business services.</td>
<td>Configure &gt; Business Services</td>
<td>Data Integration &gt; New &gt; Components &gt; Business Services</td>
</tr>
<tr>
<td>Configure fixed width file formats.</td>
<td>Configure &gt; Fixed Width File Formats</td>
<td>Data Integration &gt; New &gt; Components &gt; Fixed Width File Format</td>
</tr>
<tr>
<td>Create an intelligent structure model.</td>
<td>Configure &gt; Intelligent Structures</td>
<td>Data Integration &gt; New &gt; Components &gt; Intelligent Structure</td>
</tr>
<tr>
<td>Install add-on bundles.</td>
<td>Configure &gt; Add-On Bundles</td>
<td>Administrator &gt; Add-On Bundles</td>
</tr>
<tr>
<td>Install add-on connectors.</td>
<td>Configure &gt; Add-On Connectors</td>
<td>Administrator &gt; Add-On Connectors</td>
</tr>
<tr>
<td>Create swagger files.</td>
<td>Configure &gt; Swagger Files</td>
<td>Administrator &gt; Swagger Files</td>
</tr>
</tbody>
</table>

### Administrative Tasks

The following table shows where the tasks in the Informatica Cloud Administer menu are located in Informatica Intelligent Cloud Services.

<table>
<thead>
<tr>
<th>Functionality</th>
<th>Informatica Cloud Location</th>
<th>Informatica Intelligent Cloud Services Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Configure organization and authentication settings.</td>
<td>Administer &gt; Organization</td>
<td>Administrator &gt; Organization &gt; Settings</td>
</tr>
<tr>
<td>Create or link sub-organizations.</td>
<td>Administer &gt; Sub-organizations</td>
<td>Administrator &gt; Organization &gt; Sub-Organizations</td>
</tr>
<tr>
<td>View license and metering details.</td>
<td>Administer &gt; Licenses</td>
<td>Administrator &gt; Licenses</td>
</tr>
<tr>
<td>Configure SAML single sign-on.</td>
<td>Administer &gt; SAML SSO</td>
<td>Administrator &gt; SAML Setup</td>
</tr>
<tr>
<td>Configure users, user groups, and user roles.</td>
<td>Administer &gt; Users</td>
<td>Administrator &gt; Users                                          Administrator &gt; User Groups Administrator &gt; User Roles</td>
</tr>
<tr>
<td>View log events for users.</td>
<td>Administer &gt; Audit Log</td>
<td>Administrator &gt; Logs &gt; Asset Logs Administrator &gt; Logs &gt; Security Logs</td>
</tr>
</tbody>
</table>
Use Discovery IQ.
Administer > Discovery IQ
Discovery IQ on My Services page.

Migrate assets.
Administer > Migrate Objects
Data Integration > Explore.
To export asset from source organization, select asset, then Actions > Export.
To import asset into target organization, Explore > Explore by project, then click Import.

### Miscellaneous Tasks

The following table shows where miscellaneous tasks such as creating views and configuring object-level permissions are located in Informatica Intelligent Cloud Services.

<table>
<thead>
<tr>
<th>Functionality</th>
<th>Informatica Cloud Location</th>
<th>Informatica Intelligent Cloud Services Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Create custom views.</td>
<td>Select asset, then View &gt; New View</td>
<td>Not applicable. Use tags to label similar assets. Data Integration &gt; Explore &gt; Tags</td>
</tr>
<tr>
<td>Configure object-level</td>
<td>Select asset, then Edit &gt; Change</td>
<td>Select asset, then Actions &gt; Permissions or Change Permission icon.</td>
</tr>
<tr>
<td>permissions.</td>
<td>Permissions</td>
<td></td>
</tr>
</tbody>
</table>

### Preparing to Migrate

Before your organization is migrated from Informatica Cloud Spring 2017 to Informatica Intelligent Cloud Services, you need to prepare your organization.

To ensure that your organization is ready for the migration, perform the following tasks:

**Administrative tasks**

Perform the following administrative tasks:

- Prepare a checklist of important tasks and items that you want to validate after the migration.
- Be sure to complete your sandbox testing. If you notice any issues, report them to Informatica Global Customer Support.
- Complete any task that Informatica Global Customer Support has recommended for your organization.
- Ensure that no tasks are scheduled to run during the migration period.
- If you scheduled a blackout period that occurs after the migration, note the blackout date and time so that you can re-create it in Informatica Intelligent Cloud Services.

**Secure Agent tasks**

Perform the following tasks related to the Secure Agent:

- As a best practice, back up your Secure Agent directories.
  Informatica recommends that you back up your Secure Agent directories so that you can restore them easily in the unlikely event that you require a migration rollback.
• Ensure that your Secure Agents are up and running.
• Ensure that each Secure Agent machine has sufficient disk space available for upgrade. To calculate the free space required for upgrade, use the following formula:
  Minimum required free space = 3 * (size of current <Secure Agent installation directory>) + 1 GB
• If you have Secure Agent files that you want to preserve after the migration, copy the files to the following directory:
  <Secure Agent installation directory>/apps/Data_Integration_Server/ext/deploy_to_main/bin/rdtm-extra
• Immediately before the migration, close all applications and open files on each Secure Agent machine to avoid file lock issues, for example:
  - Windows Explorer
  - Notepad
  - Windows Command Processor (cmd.exe)

Data integration tasks

Perform the following tasks related to data integration:

• If your organization uses Contact Validation tasks, convert them to Address Doctor-based web services. Informatica Intelligent Cloud Services does not include Contact Validation tasks.
• If your organization uses Data Assessment tasks, convert them to Data Quality Radar. Informatica Intelligent Cloud Services does not include Data Assessment tasks.
• If your organization has task flows that include Contact Validation or Data Assessment tasks, update the task flows to remove these tasks or replace them with other logic. Task flows that contain Contact Validation or Data Assessment tasks will not be migrated.

For more information about pre-migration tasks, see the "Informatica Intelligent Cloud Services Migration FAQ" community article on Informatica Network:


After You Migrate

After migration from Informatica Cloud Spring 2017 to Informatica Intelligent Cloud Services, you might need to perform certain tasks to ensure that users can access your organization and run tasks without interruption.

The following sections describe the post-migration tasks that you might need to perform.

For more information about post-migration tasks, see the "Informatica Intelligent Cloud Services Migration FAQ" community article on Informatica Network:

Administrator Post-Migration Tasks

If you use SAML single sign-on or have configured a schedule blackout period, you need to perform some administrative tasks after the migration.

You might need to perform the following tasks:

**Download the SAML service provider metadata.**

The single sign-on URL is changed between Informatica Cloud and Informatica Intelligent Cloud Services.

If you use SAML single sign-on, you must download the Informatica Intelligent Cloud Services service provider metadata after the migration and deliver the metadata and the Informatica Intelligent Cloud Services single sign-on URL for your organization to your SAML identity provider administrator. You can download the service provider metadata from the SAML Setup page in Administrator.

Additionally, ensure that you update the Informatica Intelligent Cloud Services single sign-on URL and app in your identity provider application.

**Re-create the schedule blackout period.**

If you configured a schedule blackout period in Informatica Cloud, re-create the blackout period on the Schedules page in Administrator.

For more information about SAML single sign-on and schedules, see the Administrator help.

Data Integration Post-Migration Tasks

If you set custom permissions on objects in Informatica Cloud, you need to reconfigure the permissions after the migration.

If you set custom permissions on objects in Informatica Cloud to grant additional permissions to user groups, reconfigure the asset permissions in Data Integration.

For more information about asset permissions, see the Data Integration help.

Secure Agent Post-Migration Tasks

The list of IP addresses for the Secure Agent has changed between Informatica Cloud and Informatica Intelligent Cloud Services. If you use a firewall, you might need to update the list of approved Informatica Intelligent Cloud Services URLs or IP addresses in your firewall program.

For the list of approved URLs and IP addresses, see the following KB article:

https://kb.informatica.com/faq/7/Pages/20/524982.aspx

REST API Post-Migration Tasks

If you use scripts that call the REST API, you must replace the Informatica Cloud domain URLs with Informatica Intelligent Cloud Services domain URLs before January 1, 2019.

After the migration, login API requests will automatically be redirected to Informatica Intelligent Cloud Services. Informatica Intelligent Cloud Services will redirect requests through December 31, 2018. As you did previously, you must construct subsequent API requests based on the <serverUrl> and <icSessionId> that was received in the login response. Ensure that you have not hard-coded the base URL for any other API endpoints other than the login API endpoint.

After December 31, to use the APIs in Informatica Intelligent Cloud Services, you must replace the Informatica Cloud domain URLs with the Informatica Intelligent Cloud Services URLs.
For example, if your POD is located in North America, the new Informatica Intelligent Cloud Services domain URL is https://dm-us.informaticacloud.com, and the V2 login Informatica Intelligent Cloud Services API endpoint to use is https://dm-us.informaticacloud.com/ma/api/v2/user/login.

For the list of Informatica Intelligent Cloud Services domain URLs, see the following KB article:
https://kb.informatica.com/faq/7/Pages/20/524982.aspx

Salesforce Post-Migration Tasks

If you use Salesforce outbound message links, you must update the links in Salesforce so that they point to the new Informatica Intelligent Cloud Services URL.

**Note:** Informatica will redirect the links for four weeks after your organization is migrated from Informatica Cloud to Informatica Intelligent Cloud Services. Therefore, you must update the links within four weeks.

runAJobCli Post-Migration Tasks

If you use the runAJobCli utility, you must update the restenv.properties file to use the new Informatica Intelligent Cloud Services URL.

Also, if you have scripts that call the utility using the task name (-n) option, and you want them to run on tasks that are not in the Default folder, update the scripts. The task name (-n) option works for tasks in the Default folder. The task ID (-i) option works for tasks in any folder.

Hadoop Connector Post-Migration Tasks

After you migrate, you must have a license to use Cloudera CDH, Amazon Elastic MapReduce (EMR), or Hortonworks HDP packages with Hadoop Connector.

You must have appropriate read and write permissions on the temporary directory. For Linux, /tmp is the default directory. Make sure that an identical temporary directory structure is available on the Secure Agent system and the HDFS cluster.

Within an organization, you cannot enable licenses for more than one Hadoop distribution. If you want to use multiple Hadoop distributions, you must create separate sub-organizations for each Hadoop distribution that you want to use and assign a license for the Hadoop distribution. Otherwise, the mapping task fails.

You can also switch from one Hadoop distribution license to another within a sub-organization.

To switch from one Hadoop distribution license to another, you must perform the following tasks:

1. In Administrator, select **Organization**.
2. Click **Sub-Organizations**.
3. Select the sub-organization for which you want to switch the Hadoop distribution.
4. Click **Licenses**.
5. On the Custom Licenses section, disable the license for the currently active Hadoop distribution.
6. Delete the existing Hadoop distribution package folder and the hadoop distribution .checksum file from the following location:
   <Secure Agent Installation Directory>/downloads
7. On the **Licenses** page, select the license for the Hadoop distribution package that you want to use for the sub-organization.
8. Restart the Secure Agent.
Microsoft SQL Server Connector Post-Migration Tasks

Before you can use the Azure Active Directory Password authentication mode, you must contact Informatica Global Customer Support.

MySQL Connector Post-Migration Tasks

After you migrate, you must download and install the MySQL JDBC and ODBC drivers on your Windows or Linux system to use MySQL Connector.

For more information about installing the MySQL JDBC and ODBC drivers, see the MySQL Connector Guide.

REST V2 Connector Post-Migration Tasks

After you migrate from Informatica Cloud Spring 2017 to Informatica Intelligent Cloud Services Spring 2018 April, and you create a new mapping, the request message editor shows the sample request in the JSON format for the JSON data.

Previously, the sample request for the JSON data was shown in the xml format. This changed behavior occurs because in Spring 2018 April, REST V2 Connector uses the JSON parser shipped with Data Integration.

If you update the business service, source, or target either by changing the connection or by changing the operation in the mappings created in the previous release, the Informatica JSON parser gets enabled. The new JSON parser has the following impact:

• The associated schema changes and all the required fields mapping is removed. Map all the required fields again for the REST V2 objects in source, midstream, and target transformations.

• The swagger specification file will need modifications in certain scenarios. For example, if Request or Response is a named object or Request and Response has array elements when the array element is not defined in the swagger specification file.

When the new JSON parser is enabled, the connector generates a new schema. If the schema, the xsd file saved in the temp directory, related to the operation does not have a write permission, the updated mapping might throw a null pointer exception during metadata fetch.

If you do not change the mappings created in the previous release, the mappings continue to use the old parsing technique and run successfully.

Salesforce Connector Post-Migration Tasks

If a Data Synchronization task created in Informatica Cloud Spring 2017 release contains a custom assignment rule, after you migrate, the value of custom assignment rule is not displayed in the Advanced Salesforce Options. You must edit the task and apply a valid custom assignment rule.

Salesforce Marketing Cloud Connector Post-Migration Tasks

After you migrate, you must perform the following tasks for Salesforce Marketing Cloud Connector:

1. Retrieve the Client ID and the Client Secret for an existing package in the Salesforce Marketing Cloud account.

2. Assign Administrator role to the API user which is the minimum permission required to access the APIs.

3. Disable the Salesforce Marketing Cloud account password expiry date.
4. Enable read and write scopes for the installed packages in the Salesforce Marketing Cloud account which is the minimum permission required to access the installed packages.

Zendesk Connector Post-Migration Tasks

After you migrate, you must perform the following tasks for Zendesk Connector:

1. Generate the `schema.ini` file.
2. Place the `schema.ini` file in the following directory:
   `<Secure Agent installation directory>\apps\Data_Integration_Server\ext\deploy_to_main\bin\rdtm-extra\Zendesk\schema.ini`
3. Create the following directory:
   `Secure Agent installation directory>\downloads<latest connector package>\package\tpl`
4. Create the `tpl.properties` file in the following directory:
   `Secure Agent installation directory>\downloads<latest connector package>\package\tpl`
5. Open the `tpl.properties` file and add the following value:
   `path=rdtm-extra/Zendesk`

Post-Migration Tasks for Custom Configuration Files

If the connector includes customised configurations in Informatica Cloud Spring 2017, you must copy the configuration files to the Informatica Intelligent Cloud Services Spring 2018 version. The following table lists the configuration files in connectors that you can back up from the Informatica Cloud Spring 2017 version:

<table>
<thead>
<tr>
<th>Connector</th>
<th>Configuration File</th>
</tr>
</thead>
<tbody>
<tr>
<td>Avature</td>
<td>customFields.ini</td>
</tr>
<tr>
<td>BigMachines</td>
<td>WSDL, Jar</td>
</tr>
<tr>
<td>Birst</td>
<td>birstconfiguration.ini</td>
</tr>
<tr>
<td>Box API</td>
<td>config.properties</td>
</tr>
<tr>
<td>Coupa</td>
<td>coupa.ini, read.xsd</td>
</tr>
<tr>
<td>Dropbox</td>
<td>config.ini</td>
</tr>
<tr>
<td>Google API</td>
<td>config.properties</td>
</tr>
<tr>
<td>Hadoop</td>
<td>setHadoopConnectorClassPath.sh</td>
</tr>
<tr>
<td>JDBC</td>
<td>jdbc.ini</td>
</tr>
<tr>
<td>Jira</td>
<td>jirsfields.ini, config.ini</td>
</tr>
<tr>
<td>JSON Target</td>
<td>config.ini</td>
</tr>
<tr>
<td>Marketo</td>
<td>activityattributes.csv</td>
</tr>
<tr>
<td>Connector</td>
<td>Configuration File</td>
</tr>
<tr>
<td>---------------</td>
<td>-----------------------------</td>
</tr>
<tr>
<td>Microsoft TFS</td>
<td>fields.ini</td>
</tr>
<tr>
<td>OpenAir</td>
<td>OpenAirCodes.properties</td>
</tr>
<tr>
<td>Quickbooks V2</td>
<td>connectionparameters.ini</td>
</tr>
<tr>
<td>Workday</td>
<td>fields.ini</td>
</tr>
<tr>
<td>Xactly</td>
<td>xactly-client.jar</td>
</tr>
<tr>
<td>XML Source</td>
<td>config.ini</td>
</tr>
</tbody>
</table>

Perform the following tasks for custom configuration files when you migrate from Informatica Cloud Spring 2017 release to the Informatica Intelligent Cloud Services Spring 2018 release:

1. Copy the configuration file from the following directory in Informatica Cloud Spring 2017:
   `<Secure Agent installation directory>\downloads\latest connector zip package>\package\plugins\<Plugin ID>`

2. After the migration, paste the configuration file to the following directory in Informatica Intelligent Cloud Services:
   `<Secure Agent installation directory>\downloads\latest connector zip package>\package\plugins\<Plugin ID>`

3. Restart the Secure Agent.

### Post-Migration Asset Changes

After migration from the Informatica Cloud Spring 2017 release to the Informatica Intelligent Cloud Services Spring 2018 release, you might notice changes in asset locations or behavior.

The following assets have post-migration changes:

**Asset location**

All mappings, tasks, and task flows are moved to the Default project in Data Integration. To view assets in the Default project, open Data Integration, click **Explore**, and open the Default project.

**Contact Validation tasks**

Contact Validation tasks are not available in Data Integration.

**Data Assessment tasks**

Data Assessment tasks are not available in Data Integration.

**Task flows**

Task flows in Informatica Cloud are converted to linear taskflows in Data Integration.

**Views**

Public views in Informatica Cloud are replaced with tags in Data Integration. All assets in a public view are labeled with a tag in Data Integration that has the same name as the view. For example, if you created custom view called SalesObjects that contained 30 mappings in Informatica Cloud, all 30 mappings are labeled with the tag SalesObjects in Data Integration.

If the same view name was used for different asset types, the tag names have different suffixes in Data Integration. For example, if you created the SalesObjects view for mappings and also for mapping tasks, mappings might be labeled with the tag SalesObjects and mapping tasks with the tag SalesObjects_1.
Private views, views that are associated with connectors, and activity log views are not replaced with tags.

For more information about the Explore page, linear taskflows, and tags, see the Data Integration help.

Post-Migration Administrative Functionality Changes

The Informatica Intelligent Cloud Services Spring 2018 release includes changes to administrative functionality such as SAML settings, schedules, user groups, and user names.

The following administrative functionality has post-migration changes:

**SAML single sign-on**

SAML single sign-on settings are not preserved in Informatica Intelligent Cloud Services. Reconfigure SAML settings in Administrator after the migration.

**Schedule blackout period**

Schedule blackout periods are not preserved in Informatica Intelligent Cloud Services. If you configured a blackout period in Informatica Cloud, reconfigure it in Administrator after the migration.

**User groups**

Informatica Cloud user groups are converted to user roles in Administrator. All users in a group are assigned a custom user role with the same name as the Informatica Cloud user group.

**User names**

Usually, Informatica Intelligent Cloud Services user names are the same as Informatica Cloud user names.

However, at the time of migration, if there is an Informatica Intelligent Cloud Services user account with the same name as a user account being migrated, then the Informatica Intelligent Cloud Services user name for the migrated user will be appended with extra characters to form a unique name. For example, if your Informatica Cloud user name is "infaclouduser" and there is already an Informatica Intelligent Cloud Services user account with the name "infaclouduser," the Informatica Intelligent Cloud Services user name of the migrated user might be set to "infaclouduser.IICS." If any user name is changed between Informatica Cloud and Informatica Intelligent Cloud Services, Informatica notifies the affected user through email.

If the affected user uses SAML or Salesforce single sign-on, the Informatica Intelligent Cloud Services user name that appears in the user profile is appended with a string such as "_.SAML" or "_.Salesforce" to ensure that the user name is unique. The affected user will still be able to log in to Informatica Intelligent Cloud Services using single sign-on.

For more information about SAML single sign-on, schedules, and users, see the Administrator help.
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