



Informatica® Metadata Command Center
November 2025

SAS Base Programs (Accelerator) Sources

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Publication Date: 2025-11-20

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Preface

Read *SAS Base Programs (Accelerator) Sources* to learn how to register and configure SAS Base Programs (Accelerator) source systems in Metadata Command Center as catalog sources. After you configure a catalog source, you extract metadata and then view the results in Data Governance and Catalog.

CHAPTER 1

Introduction to SAS Base Programs (Accelerator) sources

You can use Metadata Command Center to extract metadata from a source system.

A source system is any system that contains data or metadata. For example, Base SAS is a source system from which you can extract metadata through an SAS Base Programs (Accelerator) catalog source with Metadata Command Center.

Before you extract metadata from a source system, you first create and register a catalog source that represents the source system.

When Metadata Command Center extracts metadata, Data Governance and Catalog displays the extracted metadata and its attributes as technical assets. You can then perform tasks such as analyzing the assets, viewing lineage, and creating links between those assets and their business context.

The following table describes the capabilities of the catalog source:

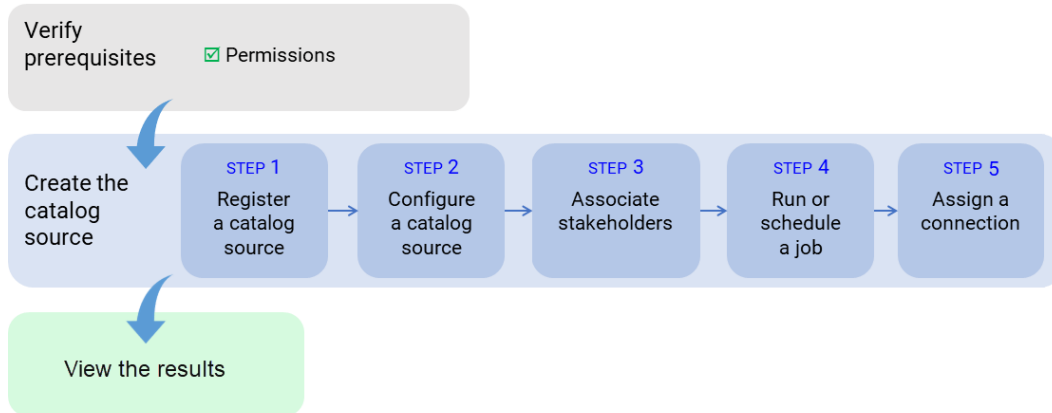
Capability	Description
Advanced Programming Language Parsing	Advanced Programming Language Parsing parses the source system code in addition to extracting objects from the source system.

Note: To enable and configure this catalog source, you need assistance from Informatica Professional Services. For more information, contact your account representative.

Extraction and view process

To extract metadata from a source system, configure the catalog source and run the extraction job in Metadata Command Center. Then view the results in Data Governance and Catalog.

The following image shows the process to extract metadata from a script:



After you verify prerequisites, perform the following tasks to extract metadata from SAS Base Programs (Accelerator):

1. Register a catalog source. Create a catalog source object, select SAS Base Programs (Accelerator), and specify values for connection properties.
2. Configure the catalog source. Specify the runtime environment, configure the metadata extraction capability, and add filters for metadata extraction.
3. Optionally, associate stakeholders. Associate users with technical assets, giving the users permission to perform actions determined by their roles.
4. Run or schedule the catalog source job.
5. Optionally, if the catalog source job generates referenced asset objects, you can assign a connection to referenced source system assets.
You can view the lineage with object references without performing connection assignment. After connection assignment, you can view the objects.

Run the catalog source again after you assign connections to referenced source system assets.

After you run the catalog source job, you view the results in Data Governance and Catalog.

About the SAS Base Programs (Accelerator) catalog source

You can use the SAS Base Programs (Accelerator) catalog source to extract metadata from a Base SAS source system.

Base SAS is a set of SAS statements stored in files that you can use to run sequential scripts.

Extracted metadata

You can use the SAS Base Programs (Accelerator) catalog source to extract metadata from Base SAS Programs script files.

Metadata Command Center extracts the following metadata from the Base SAS Programs source system:

- Calculation
- Folder
- Library
- Program
- Step
- Variable
- Work Dataset

CHAPTER 2

Before you begin

Before you create a catalog source, ensure that you have the information required to connect to the source system.

Perform the following tasks:

- Assign the required permissions to access the Base SAS Programs script files.
- Save the Base SAS Programs script files on the runtime environment from which you want to extract metadata.
- Create endpoint catalog sources for connection assignment.

Note: You don't need to create a connection in Informatica Intelligent Cloud Services Administrator for SAS Base Programs (Accelerator).

Verify permissions

To extract metadata and to configure other capabilities that a catalog source might include, you need account access and permissions on the source system. The permissions required might vary depending on the capability.

Permissions for metadata extraction

To extract SAS Base Programs metadata, you need account access and permissions to the SAS Base Programs script files stored locally.

Verify that the administrator has the read permission to access the folder containing SAS Base Programs script files.

Create endpoint catalog sources for connection assignment

An endpoint catalog source represents a source system that the catalog source references. Before you perform connection assignment, create endpoint catalog sources and run the catalog source jobs.

You can then perform connection assignment to reference source systems and run connection-aware scans to view complete lineage with source system objects.

Export SAS Base Programs script files

Before you configure the catalog source, you need to export SAS Base Programs script files for metadata extraction from the SAS environment.

Copy the SAS Base Programs script files to the machine where the Secure Agent is installed. When you configure the catalog source, you specify the path to the directory that contains the exported script files for metadata extraction.

Prepare the Base SAS Programs script files

Base SAS is a data analytics and discovery software. You can use Base SAS solutions for data management, decision-making, business intelligence, risk management, marketing, and advanced data analysis.

Prerequisites and permissions

Before you configure the SAS Base Programs (Accelerator) catalog source to extract metadata from the Base SAS data source, prepare the following prerequisites:

- Split input into logical applications, and then create a configuration for each logical application. For example, if you split the input into 10 logical applications based on lines of business, create 10 configurations. If a line of business comprises different areas such as treasury or accounting, create separate configurations for those areas.

Note: Jobs might run slowly or become unresponsive if you don't split the input into logical applications.

- **The SAS code to be processed**

To prepare the input SAS code, select one of the following methods:

- **SAS code extracted from execution logs. (Recommended).**

Use this method when you have a significant amount of dynamic code driven by runtime values.

- **Original SAS programs and macros**

Use this method when you do not have dynamic code driven by runtime values.

- **CSV files referenced as a source in SAS programs**

In the files, ensure that the headers contain only names of extracted columns.

Permissions

Not applicable.

Connection properties

Not applicable.

Types of input

You can extract SAS Base metadata from the following types of input:

Option	Description
Original SAS programs	<ol style="list-style-type: none">1. Copy the SAS programs from the SAS application instance.2. During scanner configuration, point to the location of the SAS programs by using the following parameters:<ul style="list-style-type: none">- Input files- Macro definitions files
SAS code extracted from execution logs. (Recommended).	<p>Run your SAS programs with the following SAS options enabled:</p> <ul style="list-style-type: none">- MPRINT Use this option to display the SAS statements that are generated with macros.- MFILE Use this option to redirect logs to a specific file.- MLOGIC Use this option to add detailed macro execution logs. <p>For more information about SAS macro system options, see SAS documentation.</p> <p>After execution, SAS generates process logs with one of the following programs, depending on your operating system:</p> <ul style="list-style-type: none">- <code>extractSasFromLog.bat</code>- <code>extractSasFromLog.sh</code> <p>Note: For more information about processing logs, see the How to pre-process SAS log files to prepare them for the SAS advanced scanner Knowledge Base article.</p>

Generated asset types

You can extract metadata directly from SAS scripts and indirectly from SAS execution logs.

The SAS Base Programs (Accelerator) catalog source can extract the following asset types:

- Folder
- Program
- Step
- Work data set
- Variable

Relationships

Not applicable.

CHAPTER 3

Create catalog sources in Metadata Command Center

Use Metadata Command Center to configure a catalog source for SAS Base Programs (Accelerator) and extract metadata.

When you configure a catalog source, you define the source system where you want to extract metadata from. Configure filters to include or exclude source system metadata before you run the job. To provide stakeholders access to technical assets, you can assign access through stakeholder roles. You can also associate technical assets extracted from the catalog source to asset groups.

Step 1. Register a catalog source

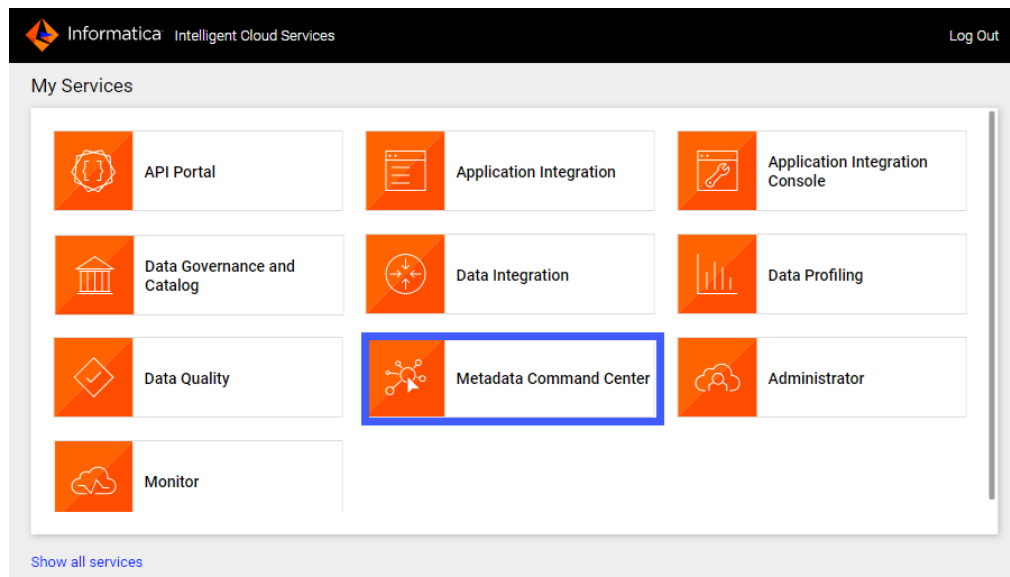
When you register a catalog source, provide general information and connection values.

1. Log in to Informatica Intelligent Cloud Services.

The **My Services** page appears.

2. Click **Metadata Command Center**.

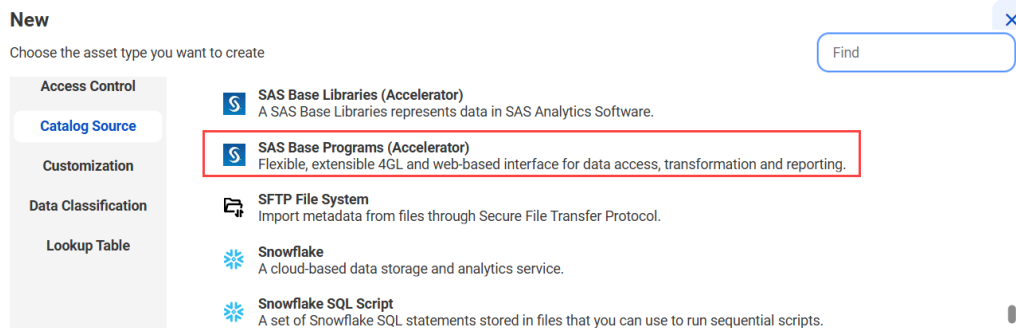
The following image shows the Metadata Command Center box on the **My Services** page:



The Metadata Command Center home page appears.

3. Click **New**.
4. Select **Catalog Source** from the list of asset types.
5. Select SAS Base Programs (Accelerator) from the list of catalog source types.
6. Click **Create**.

The following image shows the SAS Base Programs (Accelerator) catalog source type:



The **New Catalog Source** page opens.

7. In the **General Information** section, enter a name and an optional description for the catalog source.

Note: You can rename a catalog source after you create it, but to apply the change to all associated objects you must rerun the metadata extraction job.

After you save the catalog source, you can update the description in Metadata Command Center and Data Governance and Catalog. The update appears only in the service in which you update it.

8. Click **Next**.

The **Configuration** page appears.

Step 2. Configure capabilities

When you configure the SAS Base Programs (Accelerator) catalog source, you define the settings for the metadata extraction capability.

The metadata extraction capability extracts source metadata from external source systems.

You can save the catalog source configuration at any point after you enter the connection information. After you save the catalog source, you can choose to run the catalog source job. To run the job once, click **Run**. To run metadata extraction and other capabilities on a recurring schedule, configure schedules on the **Schedule** tab.

Configure metadata extraction

When you configure the SAS Base Programs (Accelerator) catalog source, you choose a runtime environment, define filters, and enter configuration parameters for metadata extraction.

1. In the **Connection and Runtime** area, choose a serverless runtime environment or the Secure Agent group where you want to run catalog source jobs.

Note: Serverless runtime environment options are available if the catalog source works with a serverless runtime environment.

2. Choose to retain, delete, or deprecate objects that are deleted from the source system in the catalog with the **Metadata Change Option**.
 - **Retain**. Retains objects that are deleted from the source system in the catalog. If you update or add a filter, the catalog retains objects extracted from the previous job and extracts additional objects that match the current filter. Objects deleted from the source system are not deleted from the catalog. Enrichments added on deleted objects and relationships are retained.
 - **Delete**. Deletes metadata from the catalog based on objects deleted from the source system and changes you make to the filter. Enrichments added on deleted objects and relationships are also permanently lost. Objects renamed in the source system are removed and recreated in the catalog.
 - **Deprecate**. The lifecycle of objects imported into the catalog moves to Obsolete based on objects deleted from the source system and changes you make to the filter. This does not impact enrichments added on deprecated objects and relationships. Objects renamed in the source system are removed and recreated in the catalog. When you run the catalog source job again for other capabilities such as data classification, relationship discovery, or glossary association, the job doesn't consider obsolete objects. Obsolete objects remain in the catalog until they are purged when you run a **Purge Obsolete Objects** job on the **Explore** page.

Note: You can also change the configured metadata change option when you run a catalog source.

3. In the **Filters** area, define one or more filter conditions to apply to metadata extraction.
 - a. From the Include or Exclude list, choose to include or exclude metadata based on the filter parameters.
 - b. From the Object type list, select **Program path**.
 - c. Enter the program path as the filter value.

Filter values can contain wildcard characters. Use the following rules when you enter filter values with wildcards:

 - For folder path hierarchies, use a forward slash as a separator.
 - If the object name contains an asterisk, enclose it in double quotes.
 - Enclose filter values in double quotes if you include spaces before or after a string value.

The following image shows the **Filter conditions** options:

Filters

Specify metadata filters: ☐ No ☒ Yes

[Show supported wildcards and examples](#)

Include or exclude meta... ▼	Program path ▼	Enter a value to specify the object location
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+ 🗑️

- d. Optionally, to include or exclude multiple objects, click the Add icon to add filters with the OR condition.
4. Optional. In the **Configuration Parameters** area, enter properties to override default content values and job parameters. Click **Show Advanced** to view all configuration parameters.

The following table describes the properties that you enter for the Catalog Source Configuration option:

Parameter	Description
Default variables values	Specify a default value for variables used in the programmable objects.
Skip macro calls	Indicates if SAS macro calls must be skipped from code generation.
Directory Mapping Configuration Options	Specify the path to the Base SAS Programs script files on the Secure Agent machine. To add more than one path, click Add Entry .
Macro Files Configuration Options	The paths to files with macro definitions. To add more than one entry, click Add Entry .

5. Click **Next**.

The **Associations** page appears.

Step 3. Associate stakeholders and asset groups

Associate users or user groups within a stakeholder role as stakeholders for technical assets in Data Governance and Catalog. Also, you can choose to assign technical assets extracted from the catalog source to asset groups. You can then use access policies to control permissions on assets that are assigned to asset groups.

Verify that the administrator assigned users and user groups to the stakeholder role that you want to associate with technical assets.

1. To associate users or user groups as stakeholders with technical assets extracted from the catalog source, perform the following steps:
 - a. On the **Associations** page, click **Stakeholders**.
 - b. Select **Assign Stakeholders**.
 - c. Select a stakeholder role.
 - d. Click **Select** to add users and user groups from the stakeholder role as stakeholders for the technical assets.

The **Add Users & User Groups** dialog box displays a list of users and user groups assigned to the selected stakeholder role.

Add Users & User Groups

Users

User Groups

All Users (1)

Find

↕

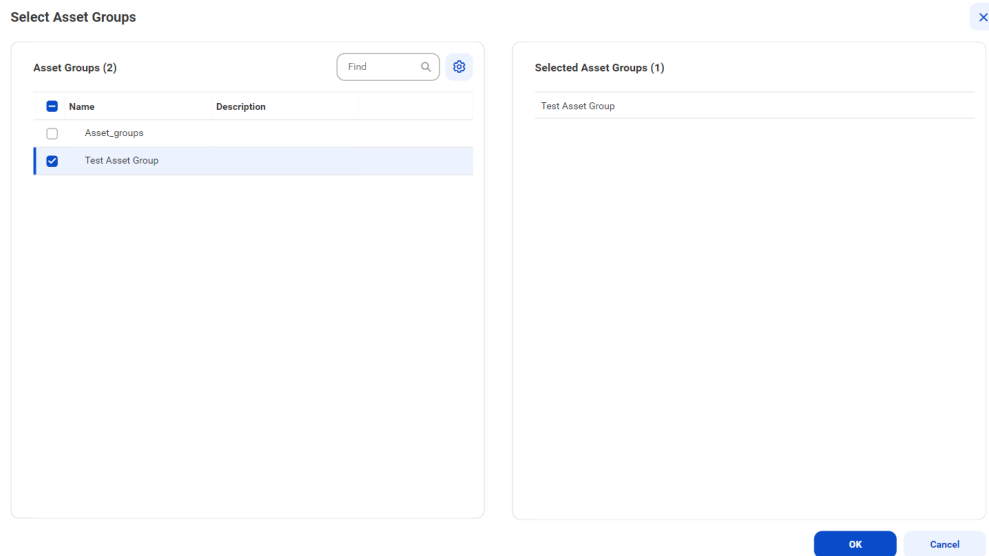
<input type="checkbox"/>	Full Name	Email	User Name ↑	Status
<input type="checkbox"/>	gov owner_09			Active

?

OK

Cancel

- e. Select one or more users or user groups to assign as stakeholders for the technical assets, and click **OK**.
Only the selected users and user groups belonging to the specified stakeholder role are granted the permissions to technical assets.
 - f. To assign users or user groups from another stakeholder role, click **Add** and then repeat the steps.
2. To assign asset groups to technical assets extracted from the catalog source, perform the following steps:
 - a. On the **Associations** page, click **Asset Groups**.
 - b. Select **Assign Asset Groups**.
 - c. Click **Select**.
The **Select Asset Groups** dialog box displays the list of asset groups.
If you enabled an access policy that includes an asset group, you can only view assets that belong to that asset group.
3. Select the asset groups to which you want to assign technical assets extracted from the catalog source, and click **OK**.



4. Choose to save and run the job or to schedule a recurring job.
 - To save and run the job, click **Save** and then **Run**.
 - To schedule a recurring job, click **Next** to open the **Schedule** page.

Step 4. Run or schedule the job

Choose to run a catalog source job manually, or configure it to run on schedule.

Note: You can't run multiple jobs simultaneously.

You can choose to perform a full or an incremental metadata extraction. A full metadata extraction extracts all objects from the source to the catalog. An incremental metadata extraction extracts only the changed and new objects since the last successful catalog source job run. Incremental metadata extraction doesn't remove deleted objects from the catalog and doesn't extract metadata of code-based objects if applicable.

When you run an incremental metadata extraction job with a filter to include metadata from objects, the job extracts only the objects that have the latest timestamp since the last successful job.

Note: The incremental extraction option appears if it is available for the catalog source.

Run the job manually

Click **Save** to save the catalog source and click **Run**. On the **Run Catalog Source Job** window, click **Run** to run the job.

You can override the capabilities that you selected while configuring your catalog source on the **Configuration** page. The first time you run the catalog source job, the metadata extraction capability is mandatory. From the second run onwards, you can choose to override the configured metadata change option. You can retain, delete, or deprecate objects that are deleted from the source in the catalog. For subsequent runs of the catalog source job, the metadata extraction capability is optional.

Note: You can choose incremental metadata extraction for subsequent runs only after one full metadata extraction job completes successfully. Incremental metadata extraction jobs run with the **Retain** metadata change option even if you set the option to **Delete** or **Deprecate** in the catalog source.

Note: To run a catalog source job, you need permissions on the connection to the source system. To run a catalog source job for catalog sources that reference other source systems, you need permissions on the connections for all the reference source systems.

Run the job on a schedule

You can choose to run metadata extraction and other capabilities on a recurring schedule. You can't choose incremental metadata extraction and full metadata extraction in the same schedule. To create a schedule for incremental metadata extraction, you must have completed at least one full metadata extraction job successfully. If not, first create a schedule for a full metadata extraction.

If an incremental metadata extraction is scheduled to run when the last run details aren't available, the job first performs a full metadata extraction, followed by incremental metadata extraction on subsequent runs.

For example, this can happen in the following scenarios:

- You create schedules for both incremental metadata extraction and full metadata extraction, but schedule the incremental extraction to run before the first full metadata extraction job.
- You create schedules for both incremental metadata extraction and full metadata extraction, but delete the full metadata extraction schedule before its first run.

1. On the **Schedule** tab, select **Run on Schedule**.
The **Schedule** configuration page opens.
2. Click the checkbox corresponding to each capability that you want to include in the schedule.
3. Enter the start date, time zone, and the interval at which you want to run the job.
4. You can manage additional schedules using the following options:
 - To create a new schedule, click the **Add** button.
 - To delete a schedule, click the **Delete** button.
 - To enable or disable a schedule, click the **Enable Schedule** toggle button.

Note: You can create a maximum of one schedule per capability that you enable. If you purged a catalog source or did not run the metadata extraction job, the catalog source job runs metadata extraction before running other scheduled capabilities.

Note: To create a schedule, you need permissions on the connection to the source system. If you lose permissions on the connection after you create a schedule, the scheduled jobs continue to run.

5. Click **Save** to save the schedule.

Monitor job status

After the job runs, you can monitor the status of the job on the **Overview** page of the job.

For more information about job monitoring, see *Administration*.

Step 5. Assign reference catalog source connections to endpoint catalog source objects

When you run the catalog source job, if the catalog source references another source system, a reference catalog source and connection get created that point to the reference source system. To view the complete lineage for your catalog source, you can perform connection assignment from the reference catalog source connection to the objects in the reference source system. A referenced source system might be a schema

such as an SAS library, or a relational database. You must first create and run an endpoint catalog source that connects to the reference source system.

Before you assign a connection, ensure that you have created and run an endpoint catalog source for each reference source system.

Note: If the source schema contains case-sensitive tables or if the reference objects contain multiple objects with the same name in different cases, perform case-sensitive connection assignment to get correct lineage.

If you enabled the lineage discovery capability for your catalog source, you can either curate the CLAIRE recommended endpoint objects on the **Related Catalog Sources** tab or assign connections manually.

For more information about related catalog sources and lineage discovery, see *Lineage discovery* in the *Administration* help.

1. On the **Configure** page, select the **Lineage** tab, and then select the **Lineage Discovery** tab. On the **Catalog Sources** panel, select the required catalog source and click the **Assign Connections** tab.

The **Assign Connections** tab displays a list of assigned and unassigned connections along with details for each connection. Use filters to view the connections based on the connection names. Click the **Add Filter** menu to add filters.

2. Select the connection to the reference source system and click **Assign**.

The connection name appears prefixed to the reference catalog source name on the **Hierarchy** tab of your catalog source in Data Governance and Catalog.

The **Assign Connection** dialog box appears with a list of recommended objects from the endpoint catalog sources. Click **All** to view all endpoint catalog source objects.

3. In the **Assign Connection** dialog box, select one or more catalog sources to assign to the selected connection and click **Assign**.

You can assign an SAS Libraries source system as a referenced source system. To create a connection assignment, the catalog source must belong to the Schema class type.

You can also assign a relational database as a referenced source system. To create a connection assignment, the catalog source must belong to the Relational Database class type.

When you click **Assign**, Metadata Command Center creates links between matching objects in the connected catalog sources, and it calculates the percentage of matched and unmatched objects. The higher the percentage of matched objects, the more accurate the lineage that you view in Data Governance and Catalog.

4. Run the catalog source job again with the **Delete** property selected in the **Metadata Change Option**. If you configured the catalog source job to run on a regular schedule, the next scheduled run picks up the updated details. If you didn't configure a schedule, run the catalog source job again to view complete lineage.

CHAPTER 4

View results in Data Governance and Catalog

After Metadata Command Center runs a job, you can view the results in Data Governance and Catalog where the catalog source and its elements are called technical assets. You can view a catalog source as a hierarchy. Expand each technical asset to see its components.

When referenced source systems are connected to a catalog source, you can expand the hierarchy to see details about the technical asset's component elements.

You can view the data lineage of an asset contained within a catalog source to see individual elements such as data sources, calculations, and filters. When you view data lineage, you can see the individual upstream elements that contribute data or expressions to each component of a data flow or catalog source.

View metadata extraction results

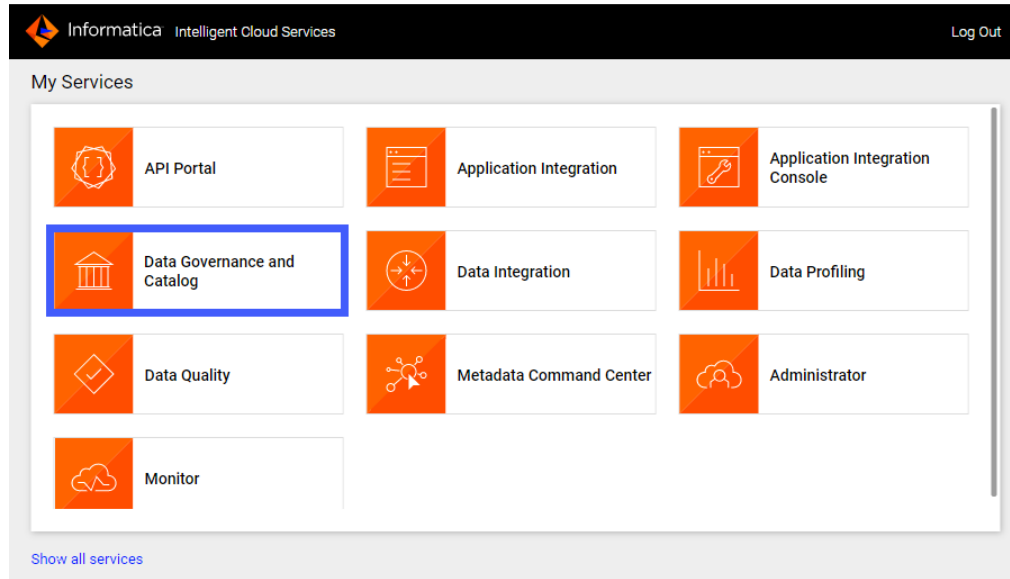
After a job runs in Metadata Command Center, view the results in Data Governance and Catalog. You can view details about source system contents in a hierarchical structure and trace data lineage.

1. Log in to Informatica Intelligent Cloud Services.

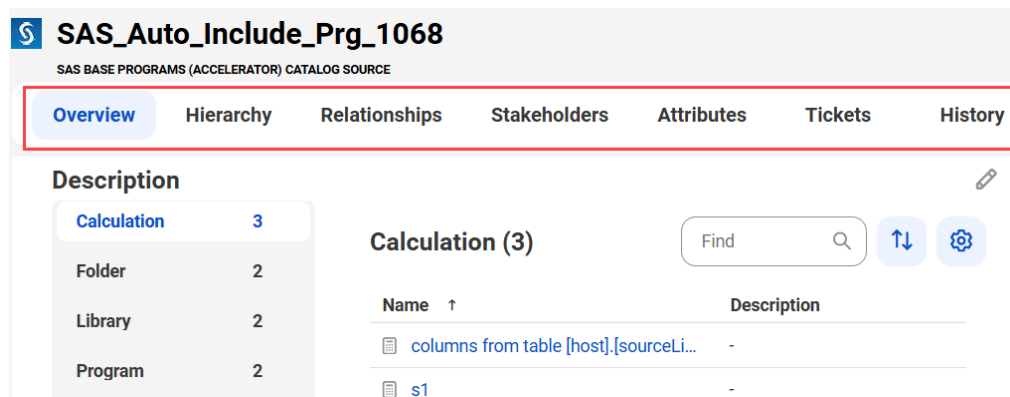
The **My Services** page appears.

2. Click Data Governance and Catalog.

The following image shows the Data Governance and Catalog box on the **My Services** page:



3. On the Data Governance and Catalog home page, click the number in the **Technical Assets** panel. The **Technical Assets** page opens.
4. Select **Catalog Source** in the **Filter** list. The list of catalog sources opens.
5. Search for the catalog source from which you extracted metadata, and click the name. The **Overview** tab of the asset opens. The following image shows a sample asset page:



6. View the asset from different perspectives by clicking on the tabs. For more information about working with assets, see *Working with Assets* in *Data Governance and Catalog* help.

View data lineage

Data lineage is a visual representation of the flow of data across the systems in your organization. Lineage depicts how the data flows from the system of its origin to the system of its destination.

Data lineage views are available for technical assets in the catalog source. You can view lineage at the catalog source, data set, or data element level.

The lineage at the catalog source level shows how data flows from one catalog source to another. The lineage at the data set and the data element levels show how other technical assets such as files or tables contribute to the selected asset.

If linking catalog sources is available for your catalog source, you can use Metadata Command Center to generate data lineage based on rules or by generating automated lineage with CLAIRE. You can choose source and target catalog sources and objects to link and generate lineage.

To determine whether linking catalog sources is available for your catalog source, navigate to the **Configuration** tab of the **Link Catalog Sources** page. The catalog source must appear in the list of source and target catalog sources.

For information about linking catalog sources, see *Link catalog sources* in the Administration help.

View lineage at the catalog source level

The catalog source level shows how data flows from one catalog source to another with the lineage aggregating data from the data set and data element levels.

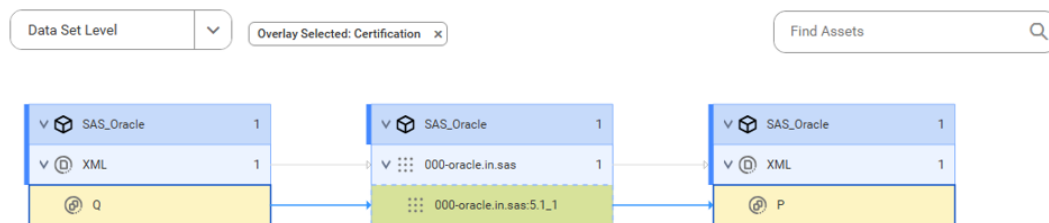
To view data lineage at the catalog source level, open a technical asset, click the **Lineage** tab, and then verify that the level is set to **Catalog Source Level**.

View lineage at the dataset level

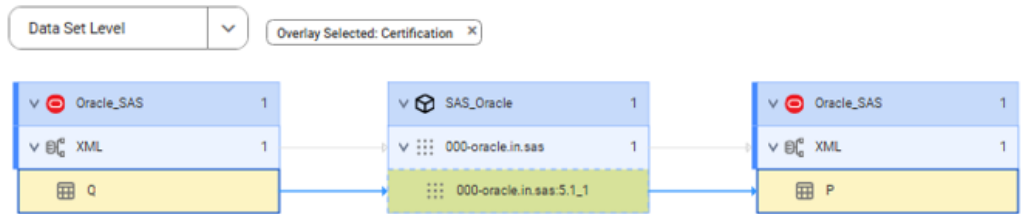
The data set level displays individual sets of data in the data flow.

To view lineage at the data set level, open a technical asset, click the **Lineage** tab, and then verify that the level is set to **Data Set Level**.

The following image shows how the target table gets data from the referenced source table before connection assignment:



The following image shows how the target table gets data from the actual source table after connection assignment:



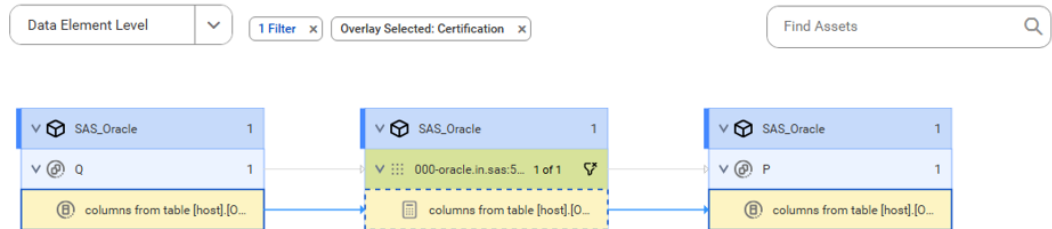
After connection assignment, the referenced object icons change to specific object icons.

View lineage at the data element level

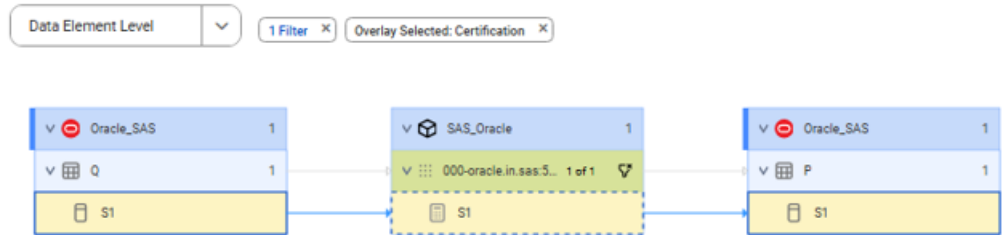
The data element level displays details of the data set level. At the data element level, you can see the input sources for expressions or commands and calculations or transformations on the data.

To view data lineage at the data element level, open a technical asset, click the **Lineage** tab, and then verify that the level is set to **Data Element Level**.

The following image shows how the target table gets data from the referenced source table before connection assignment:



The following image shows how the target table gets data from the actual source table after connection assignment:



After connection assignment, the referenced object icons change to specific object icons.