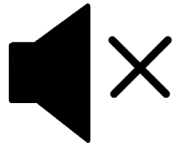Oct 10, 2023

Cloud Data Marketplace with Auto Data Provisioning

- Mayank Kumar Shrivastava, Principal Consultant, IPS
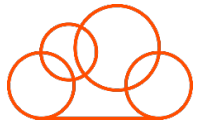
Informatica®

Housekeeping Tips

- Today's Webinar is scheduled for 1 hour

- The session will include a webcast and then your questions will be answered live at the end of the presentation

- All dial-in participants will be muted to enable the speakers to present without interruption

- Questions can be submitted to "All Panelists" via the Q&A option and we will respond at the end of the presentation

- The webinar is being recorded and will be available on our Success Portal - where you can also download the slide deck for the presentation. The link to the recording will be emailed as well.

- Please take time to complete the post-webinar survey and provide your feedback and suggestions for upcoming topics.

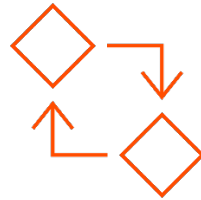Informatica®

Feature Rich Success Portal

Bootstrap trial and POC Customers

Enriched Customer Onboarding experience

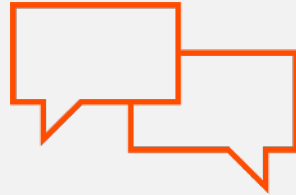**Product Learning Paths and Weekly Expert Sessions**

Informatica Concierge

Tailored training and content recommendations

Informatica®

More Information

Success Portal

https://success.informatica.com

Communities & Support

https://network.informatica.com

Documentation

https://docs.informatica.com

University

https://www.informatica.com/in/services-and-training/informatica-university.html
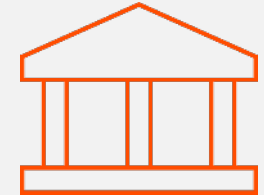
Safe Harbor

The information being provided today is for informational purposes only. The development, release, and timing of any Informatica product or functionality described today remain at the sole discretion of Informatica and should not be relied upon in making a purchasing decision.

Statements made today are based on currently available information, which is subject to change. Such statements should not be relied upon as a representation, warranty or commitment to deliver specific products or functionality in the future.

Informatica

Agenda

1 Cataloguing Business & Technical Data Assets

2 Governance of Catalogued Data Assets

3 Catalogued based shopping of Data Assets

4 Data Provisioning for shopped Data Assets

5 Demo

6 Q&A

Informatica

Catalog Business Assets

- Informatica Cloud Data Governance and Catalog provides a platform to document and collaborate different Business Assets in an organization as below.
  - Glossary
  - System
  - Data Set
  - Policy
  - Process
  - Data Quality Rules

Informatica

Catalog Business Assets
Sample Business Assets

Business Term

Policy

Process

Governance Assets

190	49	5	14
BUSINESS TERM	SUBDOMAIN	DOMAIN	DATA SET
88	54	8	7
POLICY	PROCESS	SYSTEM	METRIC

Catalog Technical Assets

- Informatica Cloud Data Governance and Catalog provides a platform to auto catalog different Technical Assets in an organization which mainly follows below high-level steps.
  - Scanning of Technical Metadata
  - Scanning Data Lineage
  - Data Profiling & Data Quality
  - Data Classification
  - Glossary Association
  - Stakeholders Assignment

Catalog Technical Assets

Sample Technical Assets

Oracle

Tableau

IDMC CDI

Govern Cataloged Assets

- Once both Business and Technical Assets are cataloged on Informatica Cloud Data Governance and Catalog platform, they need to be governed, which may include below examples:
  - Defines roles, responsibilities, and stakeholders for ensuring accountability and ownership of data assets across the organization
  - Enforcing approval process to onboard a new asset or update existing asset
  - Tracking the changes on the assets for auditing and impact analysis
  - Reviewing and curating Data Classification on Technical Assets
  - Reviewing and curating Glossary Association on Technical Assets
  - Measuring Data Quality on key Data Elements and reporting DQ Score on Dashboards
  - Using Data Lineage to govern the flow of data within and outside of an organization

Govern Cataloged Assets

Workflow
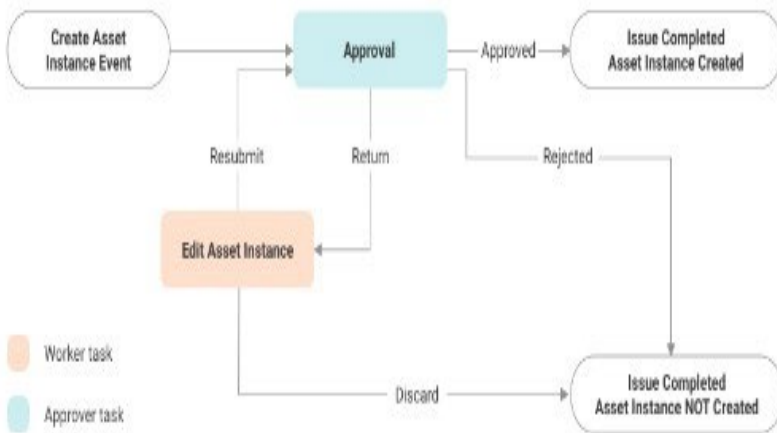
Stakeholder

Data Quality Dashboard
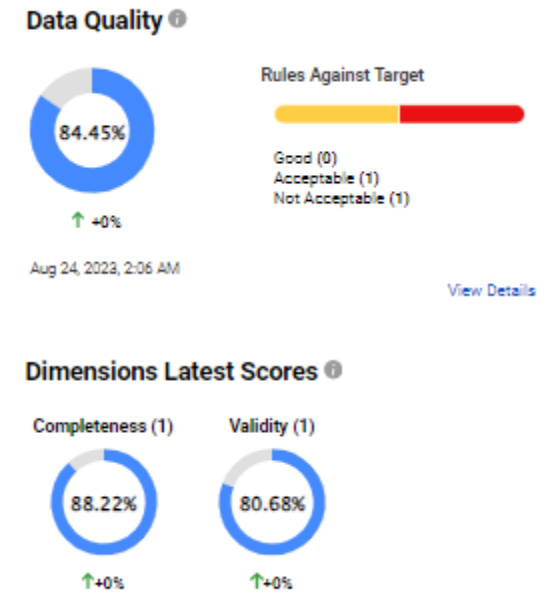
Data Consumers making Data Compromises

Data Consumers

Data Scientist
Marketing Analyst
Departmental Report Creator
Project Manager
Data Analyst
ETL Developer
Manager
Data Engineer
Customer Team
HR Department
HR Analyst
Senior Manager
Finance Team
Data Scientist
Everyone is a Data Consumer
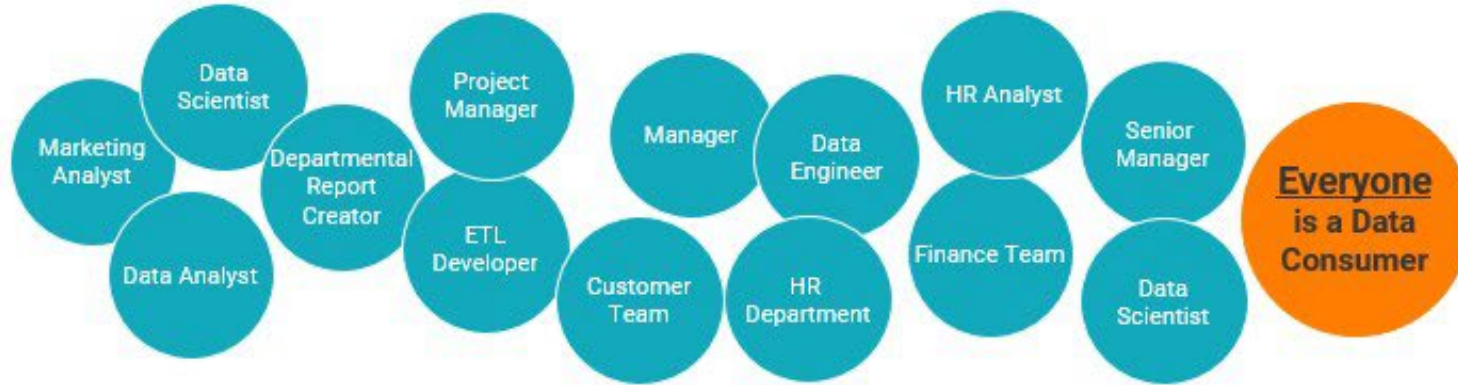
○ Technical skillset
○ Non-technical skillset
○ Hybrid skillset

Many methods of finding data, always shifting, progressively risky

Finding Data

| Find within Data Lake / Apps | Data Catalog | Data Operations | System owners | Word of mouth | Peer to peer sharing | Google | Cannot find 'Right' Data | Cannot find data at all |

Demand and usage **tracking is patchy**, as access requests are broadly distributed across the data estate

Getting Access

| Already have access | Ask for data access | Ask for system access | Ask colleague for access | Don't know how to get the data | Cannot get the data |

Can't **find** the right data?
Make **Data Compromises** 🤔

Informatica

Data Consumers Need a "1 Stop Shop"

A centralized place for all their data and data access needs

- Numerous network folders
- Innumerable files
- Incalculable eMails
- Duplicate databases
- Various legacy reports

Your Corporate Network

FTP
ODBC
MySQL
SQL
SAP

DATA MARKETPLACE

Informatica

Data Consumers

Cloud Applications

aws

- Thousands of reports
- Hundreds of data warehouses
- Countless files
- Too many services
- Various skillsets required
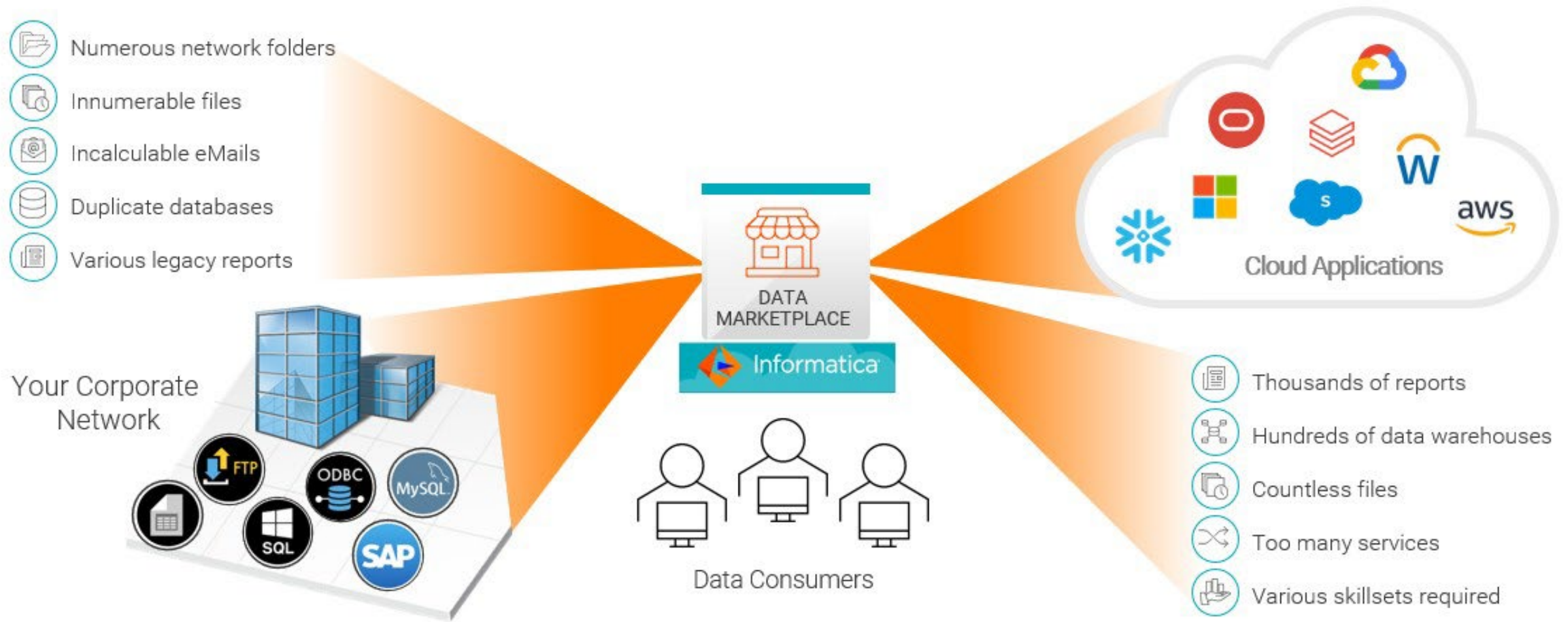
Informatica

Automated Data Provisioning
With Informatica's Intelligent Data Management Cloud

Data Consumers

Approver

Data Consumer

Request Data

CLOUD DATA MARKETPLACE

Orchestrate Delivery

CLOUD APPLICATION INTEGRATION

Get Metadata

CLOUD DATA CATALOG

Initiate Provisioning

CLOUD DATA INTEGRATION

Deliver Data

Cloud Data Lake

External Data Sharing

Analytics & Reporting

Data Science Notebooks

Informatica
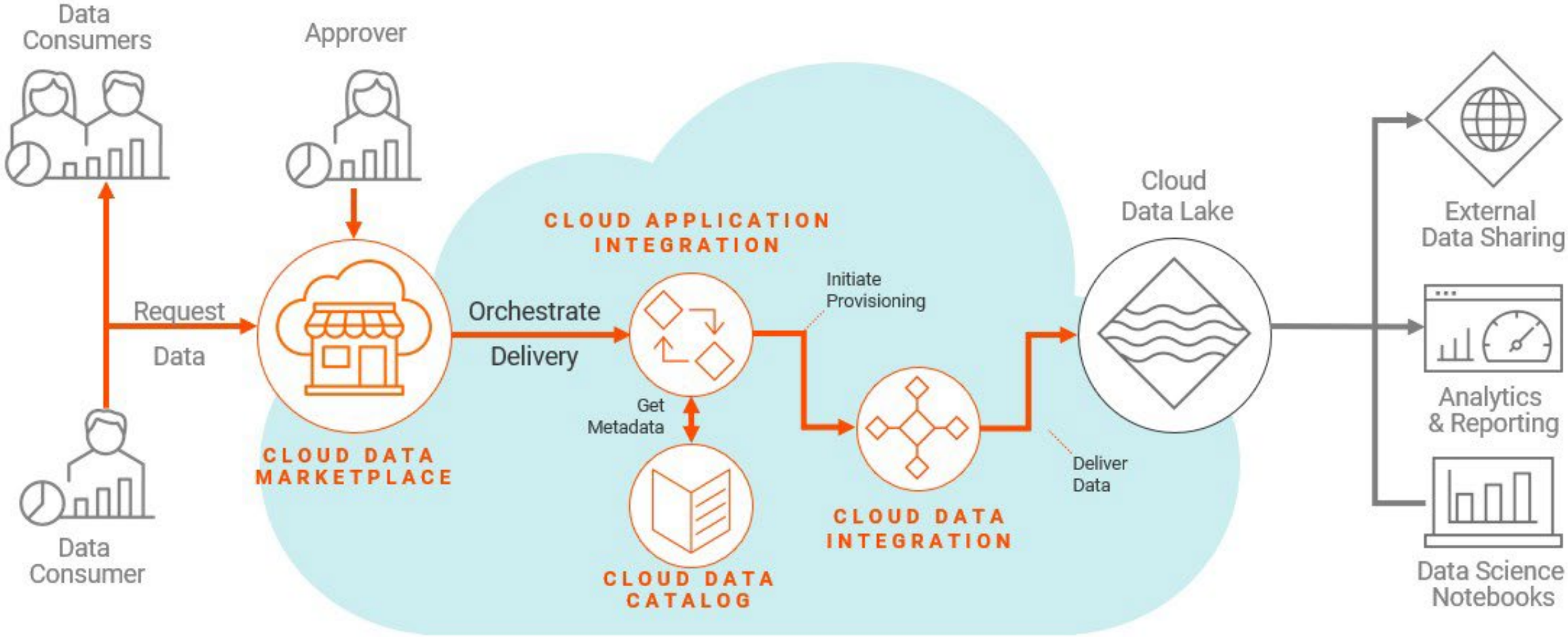
Retrieve Orders

Endpoint and method

The following table lists the connection parameters for the API:

Property	Description
Endpoint	/api/v1/integration/orders/
Method	GET

```json
{
    "processingTime": 508,
    "offset": 0,
    "limit": 50,
    "totalCount": 1,
    "objects": [
        {
            "justification": "Need for internal reports.",
            "deliveryRequests": null,
            "defaultDeliveryTemplateId": null,
            "requestedProvisionedTargetRef": "7cf9df68-722f-4185-a960-417173066fe
            "refId": "ORD-3",
            "dataCollections": [
                {
                    "id": "4cbldeff-a527-4cca-ad46-5f6aad8aff48",
                    "name": "Employee",
                    "description": "<p>Employee</p>",
                    "refId": "DCL-1",
                    "category": {
                    "usageContexts": [
                        {
                    ],
                    "dataset": null,
                    "dataCollectionStatus": "PUBLISHED",
                    "dataOwners": [
                    "technicalOwners": [
                        {
                    ],
                    "createdBy": {
                    "createdOn": "2023-08-28T09:37:48.980Z",
                    "modifiedBy": {
                    "modifiedOn": "2023-08-28T09:37:48.980Z"
                }
            ],
            "termsOfUse": [
            "status": "PENDING",
            "id": "06fbe508-e5eb-4a57-8724-a8666058a067",
            "usageContext": {
            "costCenter": null,
            "customFields": [],
            "createdBy": {
            "createdOn": "2023-10-02T09:37:38.126Z",
            "modifiedBy": {
            "modifiedOn": "2023-10-02T09:37:38.126Z"
        }
    ]
}
```

Retrieve Data Assets of a Data Collection

Endpoint and method

The following table lists the connection parameters for the API:

Property	Description
Endpoint	**/api/v1/integration/dataCollections/<dataCollectionId>/dataAssets** `<dataCollectionId>`: Required. Enter the system generated unique identifier of the data collection for which you want to retrieve the data assets. To get the unique identifier of a data collection, open the data collection. The data collection page's URL contains the unique identifier. **For example, in the URL** `https://{{CDMP_URL}}/datacollection/25158afc-3dfb-44ef-8f3e-cec1e171d0f1?dtn=&tab=summary`, **the unique identifier is** `25158afc-3dfb-44ef-8f3e-cec1e171d0f1`. For more information on how you can use an API to get the unique identifier of a data collection, see "Retrieve data collections" on page 120.
Method	GET

```json
{
    "processingTime": 0,
    "offset": 0,
    "limit": 50,
    "totalCount": 1,
    "objects": [
        {
            "name": "EMPLOYEE",
            "id": "d96f6ff3-b203-4d7b-ac11-c42b6e91f6f4",
            "refId": "DAS-3",
            "description": "Imported from Cloud Data Governance and Catalog",
            "source": "Loyalty",
            "descriptiveSource": "CDGC",
            "type": "Table",
            "refLink": "https://cdgc.dm-ap.informaticacloud.com/asset/a85f88b4-7472-4f90-96d8-4661be10e6af?type=Table&name=EMPLOYEE",
            "assetLocation": null,
            "assetLocationDescription": null,
            "technicalAssetName": null,
            "status": "ENABLED",
            "resourceReference": {
                "typeReference": "com.infa.odin.models.relational.Table",
                "sourceAssetId": "a85f88b4-7472-4f90-96d8-4661be10e6af"
            },
            "createdBy": "5uMVYqlERVJfbH2E2ahZUG",
            "createdOn": "2023-08-28T09:41:08.201Z",
            "modifiedBy": "5uMVYqlERVJfbH2E2ahZUG",
            "modifiedOn": "2023-08-28T09:41:08.201Z"
        }
    ]
}
```

Informatica®

Get details of an asset

Method	Endpoint
GET	<baseApiUrl>/data360/search/v1/assets/<assetID>

Region	Base API URL
APJ	https://idmc-api.dm-ap.informaticacloud.com/
Canada	https://idmc-api.dm-na.informaticacloud.com/
EMEA	https://idmc-api.dm-em.informaticacloud.com/
North America	https://idmc-api.dm-us.informaticacloud.com/
United Kingdom	https://idmc-api.dm-uk.informaticacloud.com/

```json
{
    "core.identity": "a85f88b4-7472-4f90-96d8-4661be10e6af",
    "core.externalId":
    "6f9bcfdc-2899-372d-b94c-824e396b3296://infaorcl/LOYALTY/EMPLOYEE
    ~com.infa.odin.models.relational.Table",
    "summary": {
        "core.location":
        "6f9bcfdc-2899-372d-b94c-824e396b3296://6f9bcfdc-2899-372d-b9
        4c-824e396b3296/infaorcl/LOYALTY/EMPLOYEE",
        "core.name": "EMPLOYEE"
    },
    "systemAttributes": {
        "core.modifiedOn": 1682571642488,
        "core.createdBy": "5uMVYqlERVJfbH2E2ahZUG",
        "core.modifiedBy": "5uMVYqlERVJfbH2E2ahZUG",
        "core.classType": "com.infa.odin.models.relational.Table",
        "core.origin": "6f9bcfdc-2899-372d-b94c-824e396b3296",
        "type": [
        "core.createdOn": 1682571642488
    },
    "selfAttributes": {
        "core.reference": false,
        "com.infa.odin.models.relational.Owner": "LOYALTY",
        "com.infa.odin.models.relational.NumberOfRows": 9,
        "core.sourceCreatedBy": "LOYALTY",
        "core.profiled": false,
        "core.sourceCreatedOn": "2021-08-18",
        "core.resourceType": "Oracle",
        "core.lastProfiledState": "Not Profiled",
        "core.supplement.certified": [
            false
        ],
        "core.assetLifecycle": "Published",
        "core.resourceName": "Loyalty",
        "core.sourceModifiedOn": "2021-09-05"
    },
    "dataQuality": [
    "hierarchy": [
    "neighborhood": [
}
```

Retrieve Delivery Targets

Endpoint and method

The following table lists the connection parameters for the API:

Property	Description
Endpoint	/api/v1/integration/provisioning/deliveryTargets
Method	GET

```
{
    "processingTime": 0,
    "offset": 0,
    "limit": 50,
    "totalCount": 3,
    "objects": [
        {
        {
            "id": "7cf9df68-722f-4185-a960-417173066fe5",
            "refId": "DTG-2",
            "name": "ADLS",
            "description": "<p>ADLS</p>",
            "isDefault": true,
            "status": "ACTIVE",
            "physicalLocation": "ADLS",
            "targetSystemReference": "ADLS"
            "deliveryTemplate": {
            "deliveryMethod": {
                "id": "2336b5f5-f04c-430e-afc8-a399dc7ce40a",
                "refId": "38b73d2d-1a2e-468f-b599-3b58f8cac01c",
                "name": "SFTP",
                "status": "ACTIVE",
                "createdBy": "5uMVYqlERVJfbH2E2ahZUG",
                "createdOn": "2023-02-21T09:30:24.209Z",
                "modifiedBy": "5uMVYqlERVJfbH2E2ahZUG",
                "modifiedOn": "2023-02-21T09:30:24.209Z"
            },
            "deliveryFormat": {
                "id": "519ee4f5-2e61-4884-a2b9-6c1487d22214",
                "refId": "bceff8bb-650f-4e4f-af3d-1a063555988f",
                "name": "CSV",
                "status": "ACTIVE",
                "createdBy": "5uMVYqlERVJfbH2E2ahZUG",
                "createdOn": "2023-02-21T09:29:28.369Z",
                "modifiedBy": "5uMVYqlERVJfbH2E2ahZUG",
                "modifiedOn": "2023-02-21T09:29:28.369Z"
            },
            "createdBy": "5uMVYqlERVJfbH2E2ahZUG",
            "createdOn": "2023-10-02T09:35:18.248Z",
            "modifiedBy": "5uMVYqlERVJfbH2E2ahZUG",
            "modifiedOn": "2023-10-02T09:48:29.992Z"
        },
        {
            1
```

Demo

References

- Informatica Cloud Data Marketplace - Introduction and Getting Started
  - https://docs.informatica.com/data-governance-and-quality-cloud/data-marketplace/current-version/introduction-and-getting-started/preface.html

- Informatica Cloud Data Marketplace - Working With Data Collections
  - https://docs.informatica.com/data-governance-and-quality-cloud/data-marketplace/current-version/working-with-data-collections/preface.html

- Informatica Cloud Data Marketplace - API Reference
  - https://docs.informatica.com/data-governance-and-quality-cloud/data-marketplace/current-version/api-reference/preface.html

Informatica

Q&A

Thank you

Informatica