



Jan 30, 2024

Cloud Data Marketplace Order Fulfilment and Automated Provisioning Case Study

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Where data & AI come to **LIFE**

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 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.

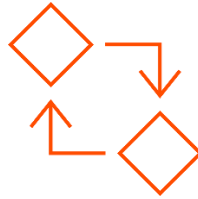
Feature Rich Success Portal



**Bootstrap trial and
POC Customers**



**Enriched Customer
Onboarding
experience**



**Product
Learning Paths
and Weekly
Expert Sessions**



**Informatica
Concierge**



**Tailored training
and content
recommendations**

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

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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.

Agenda

1 CDMP – Data Sharing Use Cases

2 CDMP - REST API Overview

3 CAI – Build Processes

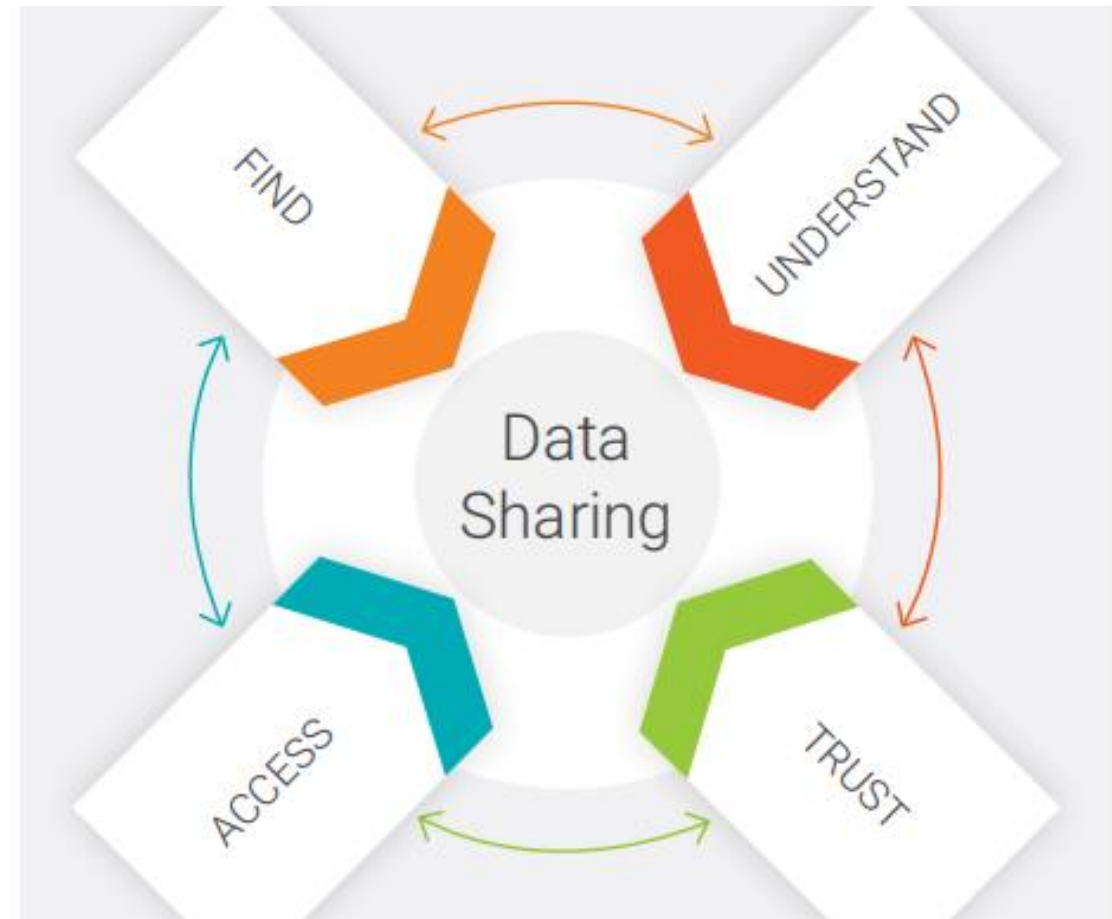
4 Process Workflow

5 Accelerators

6 Healthcare Case Study and Demo

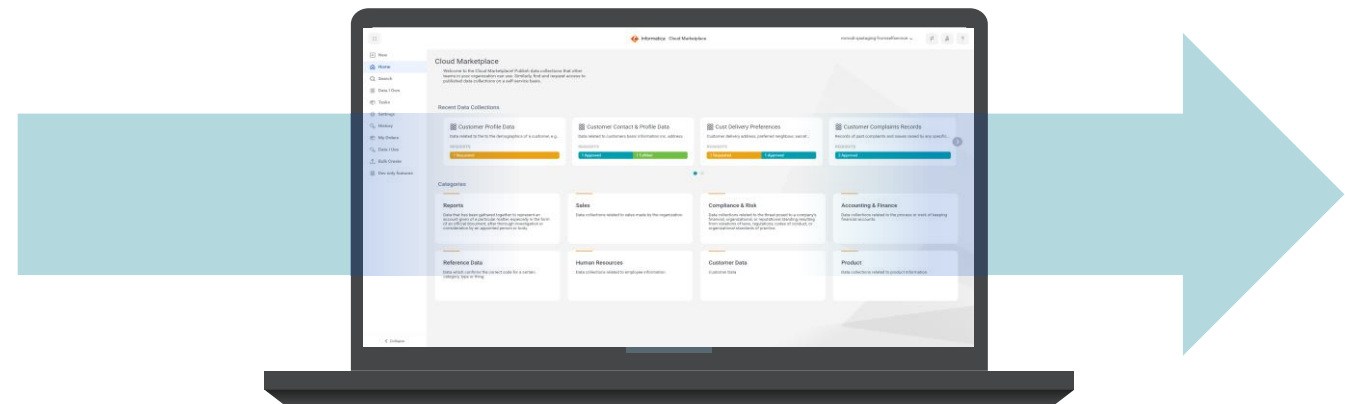
Data Sharing

- **Find.** Is the right data easily discoverable?
- **Understand.** Is there enough metadata provided to make the meaning and scope of the data easily grasped? Is there a way to learn from the experience of others who have used specific data sets?
- **Trust.** Is the data of sufficient quality so that users can rely on it?
- **Access.** Is it easily accessible in a self-service manner while protecting the privacy of sensitive data?



Cloud Data Marketplace

Every consumer, every source, every destination



Find Data Get Data Track Usage

Data Usage Locations

Data Teams		Data Sources				Metadata Sources
Data Producers	Data Operations	Database	Data Lake	Analytics	Warehouse	Data Catalog

Data Sharing Use Cases

Automation and External Systems Integration

Automate

- Access Provisioning
- Data Provisioning

3rd Party Integration

- External Workflow like ServiceNow etc.
- External Reporting



Overview of CDMP REST API

Overview of CDMP REST API

Define Settings for Data Collections

- Categories
- Delivery formats
- Delivery methods
- Delivery templates
- Delivery targets
- Terms of use
- Usage types
- Cost centers

Manage Data Collection requests, orders, Consumer Accesses

- Data collection requests
- Orders
- Consumer accesses

Manage Data Marketplace content and Misc APIs

- Data elements
- Data assets
- Data collections
- Data Marketplace customizations
- Custom fields
- Technical content

Swagger

Cloud Data Marketplace REST API Swagger Documentation

The screenshot shows the Swagger UI interface for the 'cdmp-marketplace' API. At the top, there is a Swagger logo and a 'Select a definition' dropdown menu set to 'public'. The main title is 'cdmp-marketplace' with version '4.1.0.894' and 'OAS3' tags. Below the title, there are links for 'Terms of service', 'Informatica - Website', 'Send email to Informatica', and 'Informatica license'. A 'Servers' section contains a dropdown menu with the URL 'https://cdgc-api.dm-us.informaticacloud.com/cdmp-marketplace' and an 'Authorize' button. The API endpoints are listed under two sections: 'PublicAdmin' and 'PublicProvisioning'. The 'PublicProvisioning' section is expanded, showing four endpoints: GET, PUT, POST, and GET, each with a description and a lock icon.

Swagger
Supported by SMARTBEAR

Select a definition public

cdmp-marketplace 4.1.0.894 OAS3
</cdmp-marketplace/docs/api-docs/public>

Terms of service
Informatica - Website
Send email to Informatica
Informatica license

Servers
https://cdgc-api.dm-us.informaticacloud.com/cdmp-marketplace Authorize

PublicAdmin the PublicAdmin API

PublicProvisioning the PublicProvisioning API

GET /api/v1/integration/provisioning/deliveryTemplates Public API to Get All Delivery Templates

PUT /api/v1/integration/provisioning/deliveryTemplates Public API to update Delivery Templates in bulk

POST /api/v1/integration/provisioning/deliveryTemplates Public API to create Delivery Templates in bulk

GET /api/v1/integration/provisioning/deliveryTargets GET All Delivery Targets API

https://{{CDMP_URL}}/docs/swagger-ui/index.html

Cloud Application Integration (CAI)

Cloud Application Integration

Cloud Application Integration (CAI) service offers a single, trusted solution to support any integration pattern, data set, user-type or endpoint to automate business processes, expedite transactions and enable real-time analytics.

Key benefits:

- Helps to create and consume APIs, orchestrate data services and business services, integrate processes, and offer data and applications services inside and outside an organization
- Propagate business events triggered in one application to others—for instance, order fulfillment
- Build APIs with sophisticated data integration capabilities
- User task automation, workflow, and interactive access to data
- Consume application and data services using synchronous and asynchronous means of interactions



Real-time API and
Event-based Integration



Process Integration



API Implementation
and Management

Ensure data consistency with API and event-driven application integration

Integrate in real-time with APIs, messaging and Pub/Sub

Integrate multi-step processes

Automate and integrate business processes that span applications on premises and in cloud

Automating user workflows with interactive access to data

Expose APIs

Create business, composite and data services

Expose APIs to internal and external partners as REST/SOAP/OData Services

Make APIs **discoverable**

Monitor business services

Manage and control API usage

Improve business, composite and data services

Cloud Application Integration

The following image shows the Application Integration Home page:

Shortcuts

- Create a Process
- Create a Guide
- Create an App Connection
- Create a Human Task
- Create a Service Connector
 - Using Form | WSDL | Swagger | OpenAPI 3.0 | DAS
- Create a Process Object
 - Using Form | WSDL | Swagger | OpenAPI 3.0 | JSON

Recently Updated Projects / Folders (Top 10)

Project Name / Folder Name	Updated On
z_kchaklader / CAI_DEMO	November 26, 2023 at 4:06 PM
CDGC	December 1, 2023 at 6:03 PM
z_kchaklader / CAI	November 22, 2023 at 11:49 AM
z_antripathi	November 8, 2023 at 2:14 AM
z_antripathi / Connections	November 6, 2023 at 11:42 AM
z_chdamerla / CAI	October 27, 2023 at 12:10 AM
z_chdamerla / AWS	October 26, 2023 at 7:55 AM
z_avenkat	September 16, 2023 at 9:06 PM
z_antripathi / Exercise?	September 15, 2023 at 7:57 AM

Unpublished Assets (301)

- Processes: 139
- Guides: 3
- App Connections: 82
- Service Connectors: 77

Tags (55)

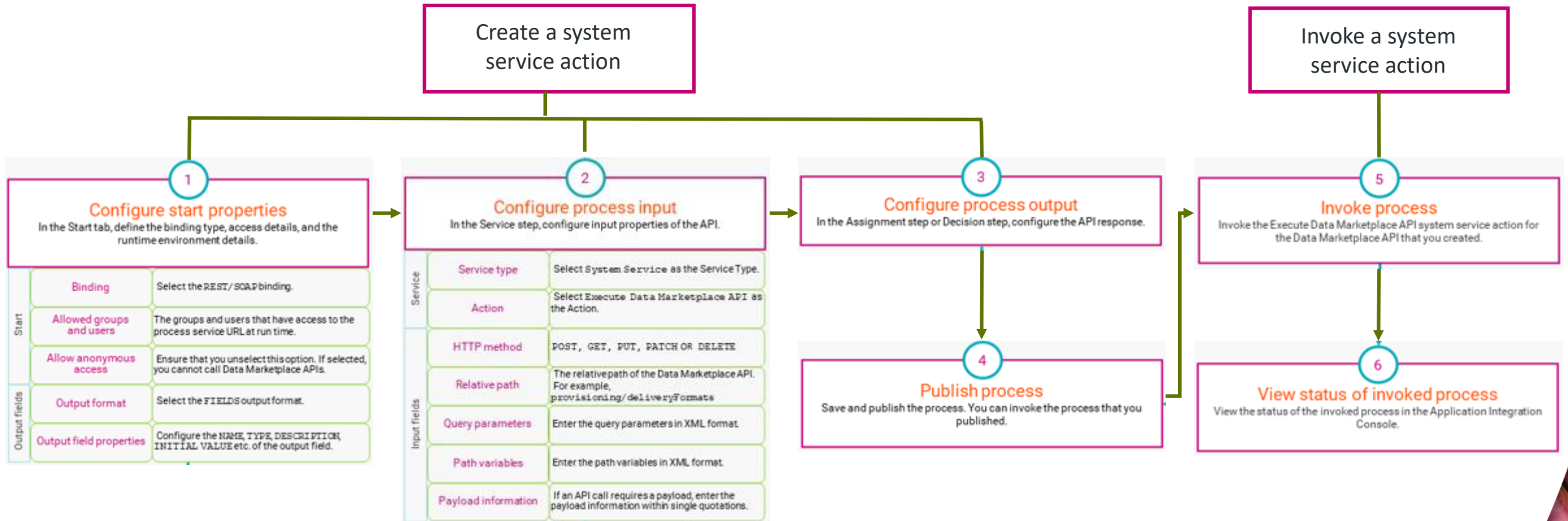
- RabbitMQ (17)
- CIH (7)
- UpdateMappingTaskSource (6)
- v1 (6)
- release_ver1 (5)
- Leads Services (5)
- Bovemij-Staging (5)
- SVC_List_Output (4)
- ...

Recently Updated Assets (Top 10)

Name	Updated On	Updated By	Location	Tags
IPURReport	January 18, 2024 at 3:16 PM	kchaklader_demo@informatica.com	z_kchaklader / CAI_DEMO	
sc_ExportMeteringDataDownload	January 12, 2024 at 12:29 PM	kchaklader_demo@informatica.com	z_kchaklader / CAI_DEMO	
App-ExportMeteringDataDownl...	January 12, 2024 at 11:56 AM	kchaklader_demo@informatica.com	z_kchaklader / CAI_DEMO	
sc_ExportMeteringData	January 12, 2024 at 11:54 AM	kchaklader_demo@informatica.com	z_kchaklader / CAI_DEMO	
API-TASKFLOW-IICS-LOGIN	January 12, 2024 at 11:17 AM	kchaklader_demo@informatica.com	z_kchaklader / CAI_DEMO	
sc_ExportMeteringDataAllLinked...	January 12, 2024 at 11:14 AM	kchaklader_demo@informatica.com	z_kchaklader / CAI_DEMO	
App-ExportMeteringData	January 12, 2024 at 11:14 AM	kchaklader_demo@informatica.com	z_kchaklader / CAI_DEMO	

Cloud Application Integration

Process of using Application Integration to call a Data Marketplace API

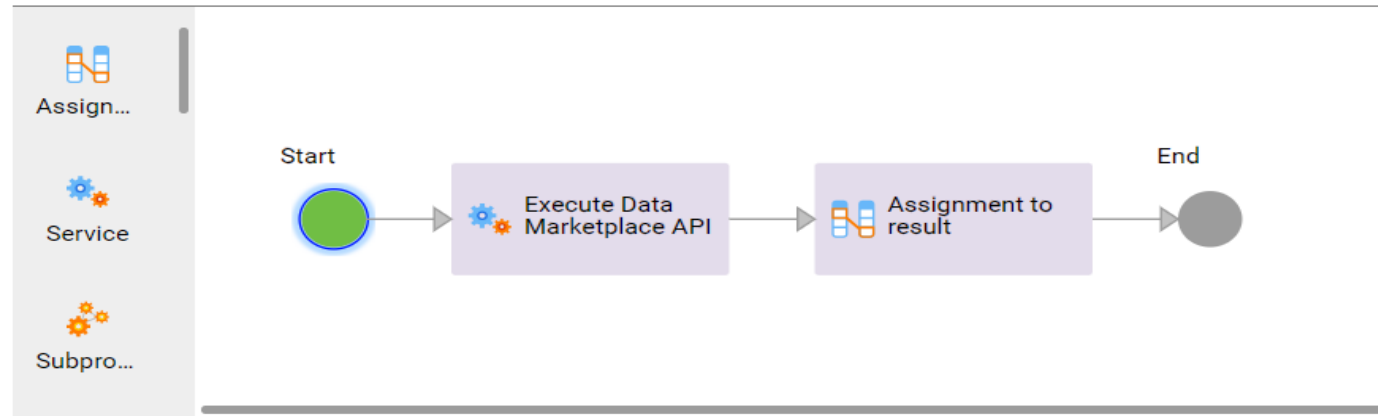


CAI – Build Process - GetAllOrders

Configure Start Properties

getAllorders | Valid

Design



getAllorders Properties

General

Start

Input Fields

Step Type: Start

Name: * ?

API Name: ?

CAI – Build Process - GetAllOrders

Configure Service Properties

The screenshot displays the Informatica Designer interface. At the top, a process flow diagram shows a sequence: Start (green circle) -> Execute Data Marketplace API (blue box) -> Throw 1 (orange circle) -> Assignment to output (purple box) -> End (grey circle). The 'Execute Data Marketplace API' box is highlighted with a red border. Below the diagram, the 'Execute Data Marketplace API Properties' panel is open, showing the 'Service' tab selected. The 'Service Type' is set to 'System Service' and the 'Action' is 'Execute Data Marketplace API'. The 'Description' is 'Execute the specified Data Marketplace API.' Below this, an 'Input Fields' table is shown:

Name	Required	Type	Description
HTTP Method	<input checked="" type="checkbox"/>	Text	The HTTP method to invoke the Data Marketplace API.
Relative Path	<input checked="" type="checkbox"/>	Text	The relative path of the Data Marketplace API.

CAI – Build Process - GetAllOrders

Configure Input / Output Properties

The screenshot shows the Informatica Designer interface. At the top, a process flow diagram includes a 'Start' node, an 'Execute Data Marketplace API' task, a 'Throw 1' error handler, an 'Assignment to output' task, and an 'End' node. Below the diagram, the 'Execute Data Marketplace API Properties' configuration window is open, showing the 'Input Fields' tab. The 'Input Fields' table is as follows:

Name	Required	Value
HTTP Method	<input checked="" type="checkbox"/>	Context GET
Relative Path	<input checked="" type="checkbox"/>	Context orders
Query Parameter	<input type="checkbox"/>	Formula <DataMarketplaceQueryParameters

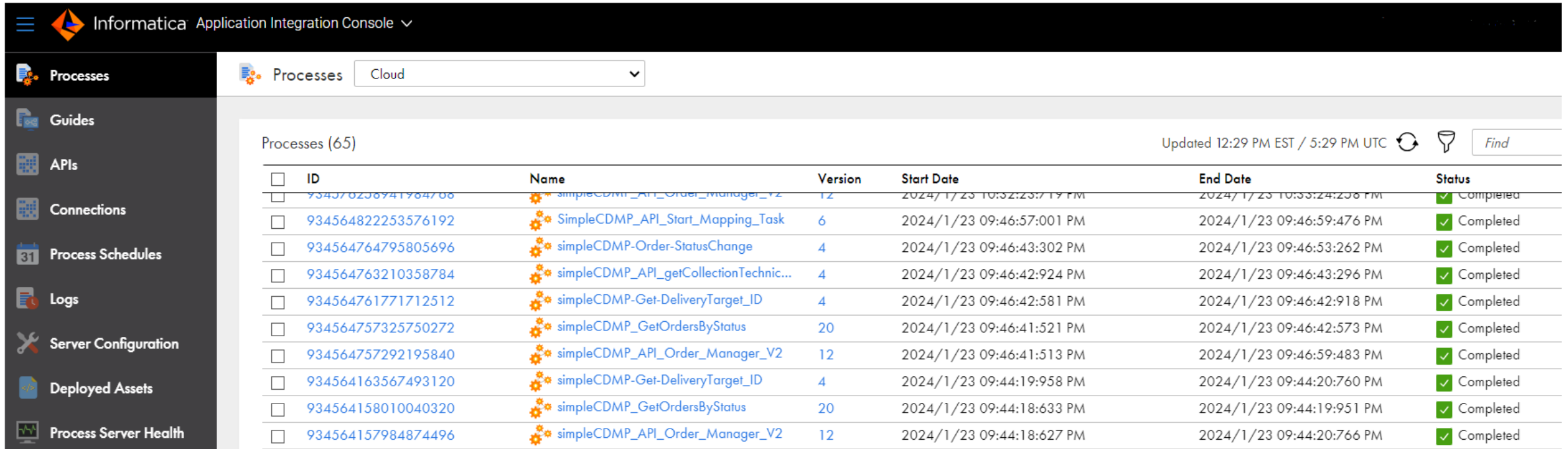
The screenshot shows the 'Create an expression with fields and operators' dialog box. The 'Fields' tab is selected, and the 'Expression' field contains the following XML code:

```
1 <DataMarketplaceQueryParameters>
2 <queryParams>
3 <name>status</name>
4 <value>{input.statusvalue}</value>
5 </queryParams>
6 </DataMarketplaceQueryParameters>
7
```

CAI – Publish and Invoke Process

Rest Service URL:

https://na1.ai.dm-us.informaticacloud.com/active-bpel/rt/simpleCDMP_API_Order_Manager_V2



The screenshot displays the Informatica Application Integration Console interface. The left sidebar contains navigation options: Processes, Guides, APIs, Connections, Process Schedules, Logs, Server Configuration, Deployed Assets, and Process Server Health. The main content area shows a list of processes under the 'Cloud' filter. The table includes columns for ID, Name, Version, Start Date, End Date, and Status. All listed processes have a status of 'Completed'.

ID	Name	Version	Start Date	End Date	Status
934578238941984788	simpleCDMP_API_Order_Manager_V2	12	2024/1/23 10:52:23:719 PM	2024/1/23 10:53:24:258 PM	Completed
934564822253576192	SimpleCDMP_API_Start_Mapping_Task	6	2024/1/23 09:46:57:001 PM	2024/1/23 09:46:59:476 PM	Completed
934564764795805696	simpleCDMP-Order-StatusChange	4	2024/1/23 09:46:43:302 PM	2024/1/23 09:46:53:262 PM	Completed
934564763210358784	simpleCDMP_API_getCollectionTechnic...	4	2024/1/23 09:46:42:924 PM	2024/1/23 09:46:43:296 PM	Completed
934564761771712512	simpleCDMP-Get-DeliveryTarget_ID	4	2024/1/23 09:46:42:581 PM	2024/1/23 09:46:42:918 PM	Completed
934564757325750272	simpleCDMP_GetOrdersByStatus	20	2024/1/23 09:46:41:521 PM	2024/1/23 09:46:42:573 PM	Completed
934564757292195840	simpleCDMP_API_Order_Manager_V2	12	2024/1/23 09:46:41:513 PM	2024/1/23 09:46:59:483 PM	Completed
934564163567493120	simpleCDMP-Get-DeliveryTarget_ID	4	2024/1/23 09:44:19:958 PM	2024/1/23 09:44:20:760 PM	Completed
934564158010040320	simpleCDMP_GetOrdersByStatus	20	2024/1/23 09:44:18:633 PM	2024/1/23 09:44:19:951 PM	Completed
934564157984874496	simpleCDMP_API_Order_Manager_V2	12	2024/1/23 09:44:18:627 PM	2024/1/23 09:44:20:766 PM	Completed

CAI process Completion Status

Informatica Application Integration Console

simpleCDMP_API_Order_Manager_V2-934564757292195840 Completed

Log

Step	Duration (HH:MM:SS.s)
Start	00:00:00.0...
Approved Orders	00:00:01.057
countApproved	00:00:00.0...
Assignment to orderA...	00:00:00.0...
Assignment to Collecti...	00:00:00.0...
simpleCDMP-Delivery...	00:00:00.3...
Assignment to Deliver...	00:00:00.0...
DeliveryTargetName	00:00:00.0...
simpleCDMP_API_get...	00:00:00.3...
Assignment to tempOr...	00:00:00.0...
simpleCDMP-Order-S...	00:00:09.9...
process_BuildParamFile	00:00:03.7...
simpleCDMP_API-Sta...	00:00:02.4...
End	00:00:00.0...

Design

simpleCDMP_API_Order_Manager_V2(Start) Properties Success

CAI – Scheduling Process Automation

Application Integration Console

The screenshot displays the Informatica Application Integration Console interface. The top navigation bar includes the Informatica logo, the text 'Informatica Application Integration Console', and the user 'Informatica_CST_TEAM'. A sidebar on the left contains navigation items: Processes, Guides, APIs, Connections, Process Schedules (selected), Logs, Server Configuration, Deployed Assets, Process Server Health, and Process Metrics. The main content area is titled 'Process Schedules' with a 'Cloud' environment filter. It shows server configuration details: Server Time Zone: GMT (Z), Schedule Server: application-integration-ht-0.application-integration-ht.cai-prod-usw1.svc.cluster.local:8443, Current GMT Time: 2024-01-23 23:01:41, and Current Server Time: 2024-01-23 23:01:41. Below this is a table of process schedules with one entry: 'CDMP' with service name 'simpleCDMP_API_Order_Manager_V2', last status '-', and next execution at '2024-01-23 23:09:38'. The table has columns for Enabled, Name, Service Name, Last Status, Last Execution (GMT), and Next Execution (GMT). The interface also shows '1 - 1 of 1' items and a page size of '20'.

Informatica Application Integration Console

Informatica_CST_TEAM

31 Process Schedules Cloud

Server Time Zone: GMT (Z)
Schedule Server: application-integration-ht-0.application-integration-ht.cai-prod-usw1.svc.cluster.local:8443
Current GMT Time: 2024-01-23 23:01:41
Current Server Time: 2024-01-23 23:01:41

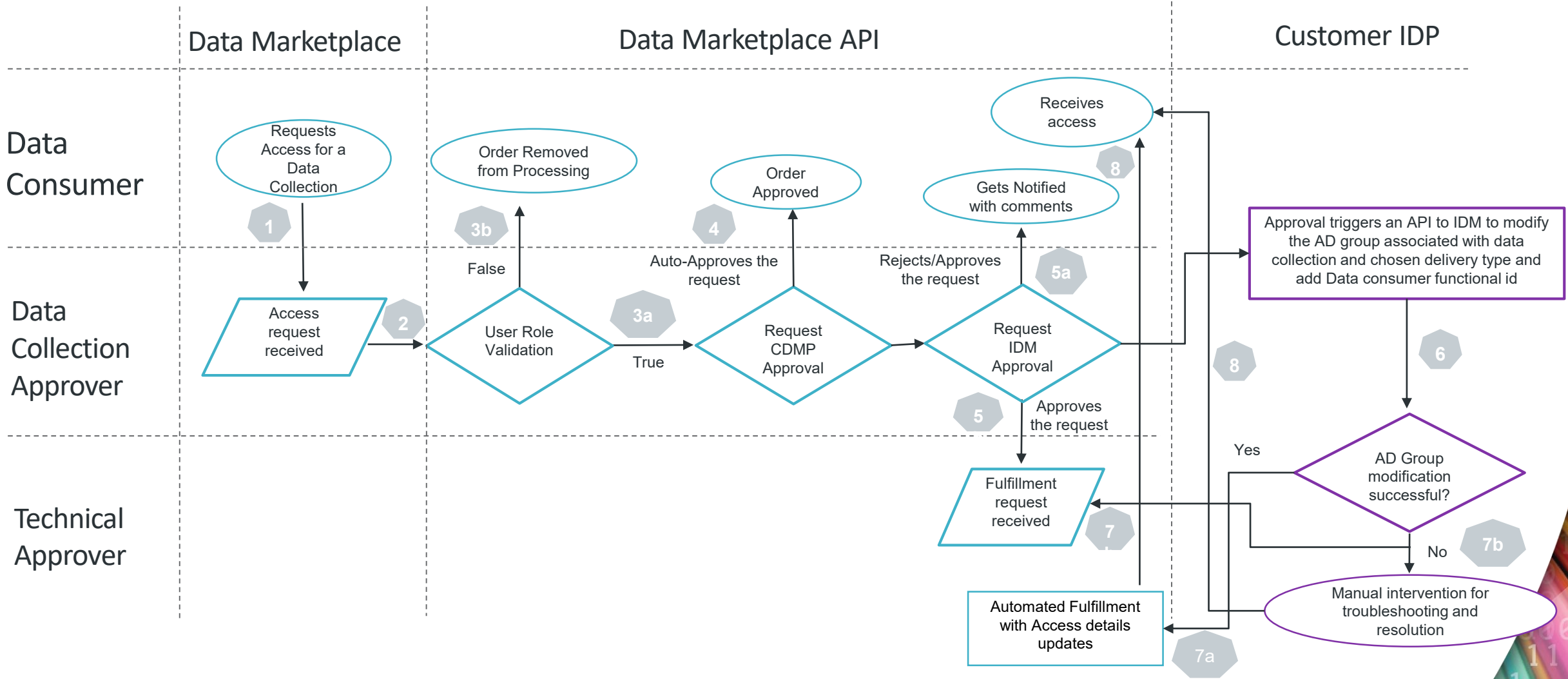
Process Schedules [1] Updated 6:01 PM EST / 11:01 PM GMT

Enabled	Name	Service Name	Last Status	Last Execution (GMT)	Next Execution (GMT)
<input checked="" type="checkbox"/>	CDMP	simpleCDMP_API_Order_Manager_V2	-	-	2024-01-23 23:09:38

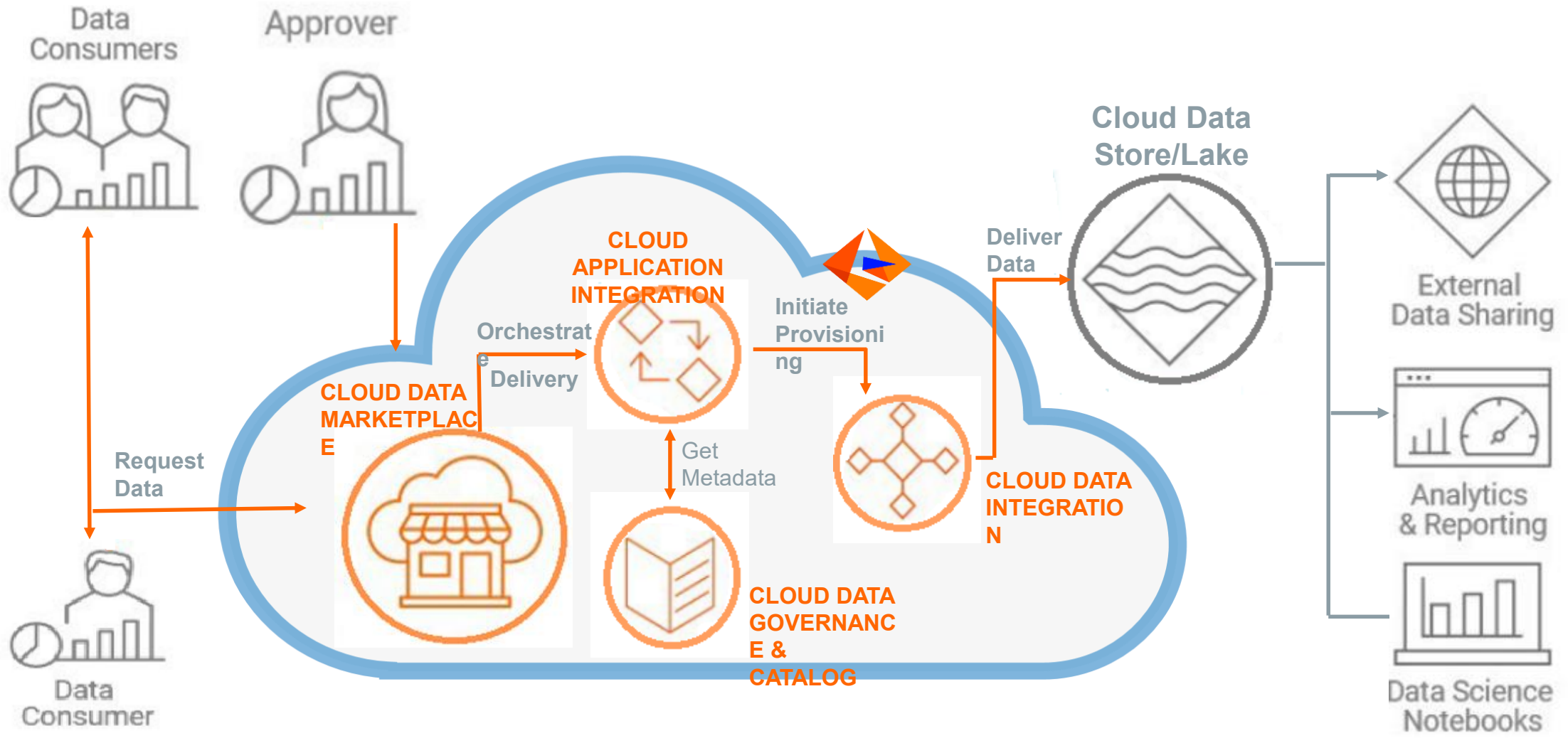
1 - 1 of 1 1 of 1 20

Process Workflows

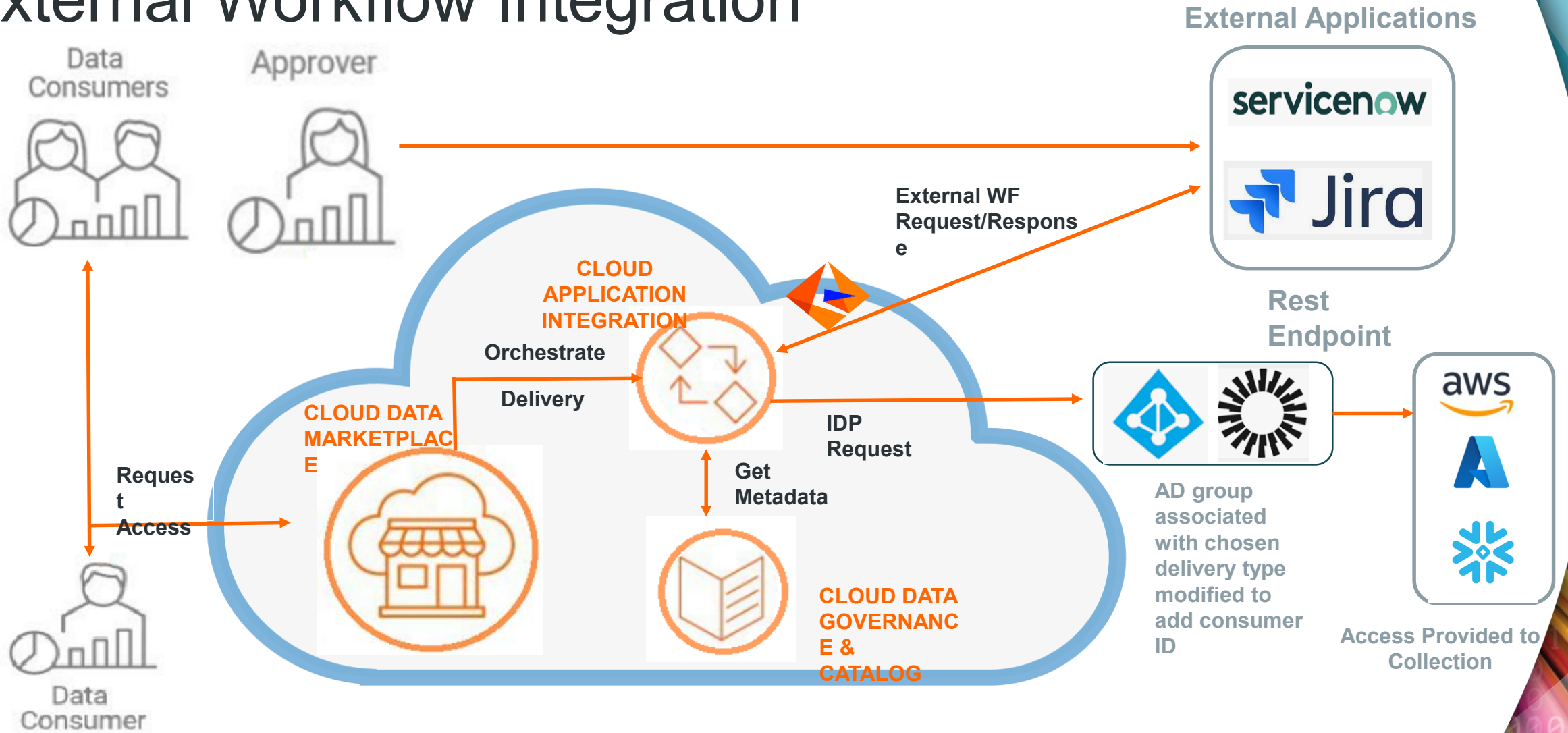
Access Provisioning Workflow



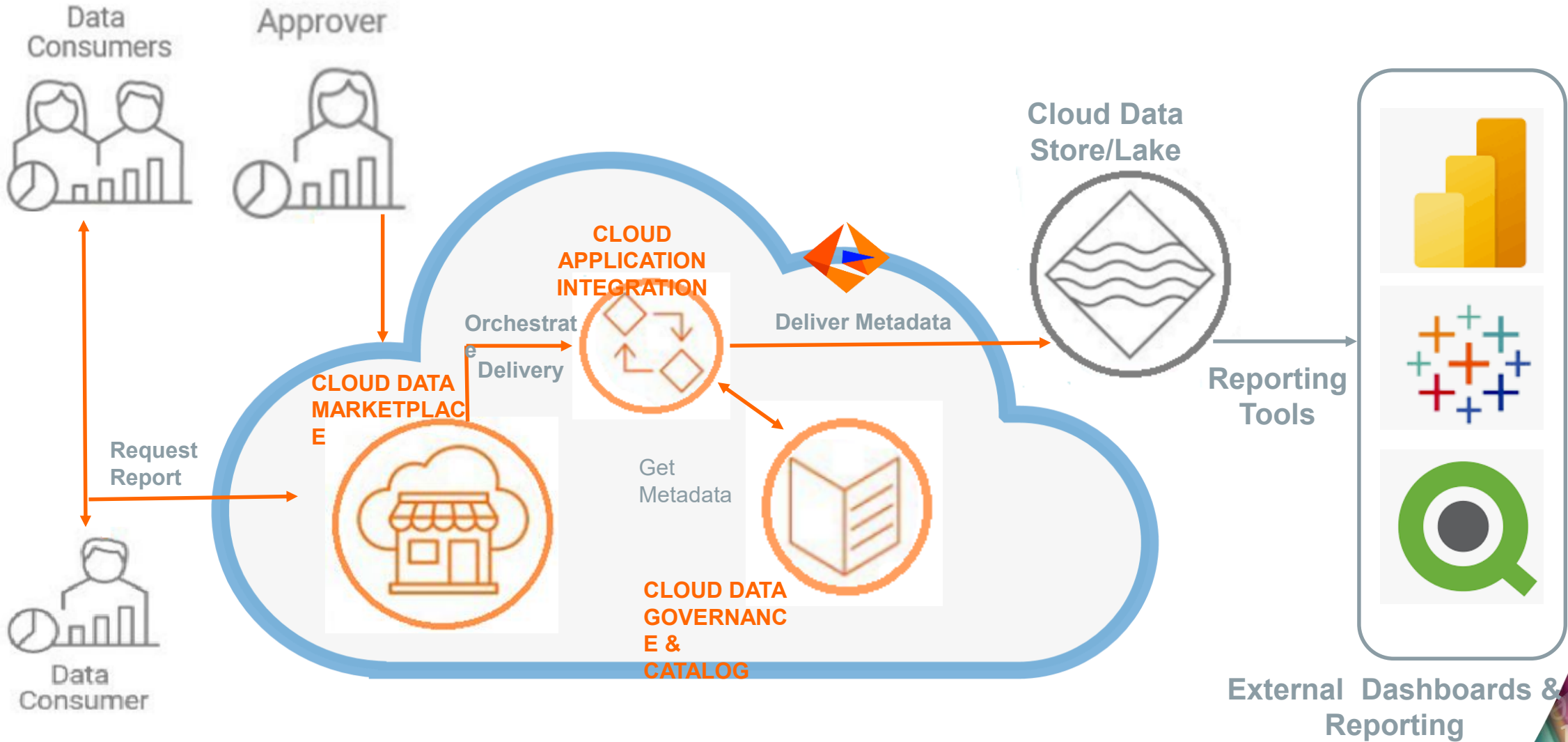
Data Provisioning Workflow



External Workflow Integration



External Reporting



CDMP Accelerators

CDMP REST Accelerator Pack

- CDMP Accelerator pack provides access to all CDMP APIs with minimal development effort.
- Well-structured payload reduces the struggle of implementing individual APIs for the different use cases of the same API with different kinds of parameters.



Demo



Thank You

Where data & AI come to **LIFE**

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 (CDMP) exposes REST API functionality to integrate/manage assets on the marketplace. These APIs are described in the below guide: -
<https://docs.informatica.com/data-governance-and-quality-cloud/data-marketplace/current-version/api-reference/preface.html>
- Whitepaper for CDMP Rest Accelerator Pack :
https://knowledge.informatica.com/s/article/CDMP-Rest-Accelerator-Pack?language=en_US&type=external
- Workday and Service Now Real Time Integration using CAI :
https://knowledge.informatica.com/s/article/workday-and-servicenow-real-time-integration?language=en_US

Where data & AI come to

