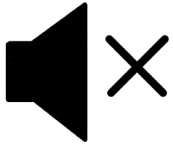


May 23rd, 2023

Cloud Data Marketplace Rest Accelerator Pack

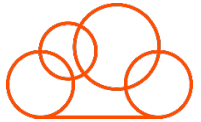
- Bhavesh Shah, Lead Product Specialist

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 **INFASupport YouTube channel** and **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.

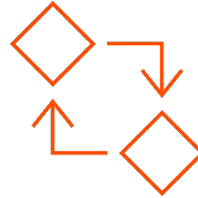
Feature Rich Success Portal



Bootstrap trial and
POC Customers



Enriched Customer
Onboarding
experience



Product Learning
Paths and Weekly
Expert Sessions

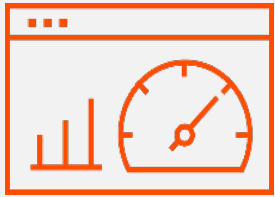


Informatica
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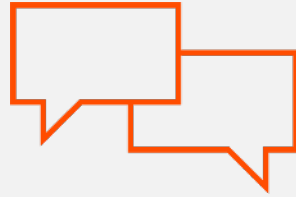
Tailored training and
content
recommendations

More Information



Success Portal

<https://success.informatica.com>



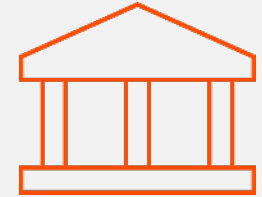
Communities & Support

<https://network.informatica.com>



Documentation

<https://docs.informatica.com>



University

<https://www.informatica.com/in/services-and-training/informatica-university.html>

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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

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Introduction to CDMP
Rest API

2

CDMP Service in
CAI

3

Sample use-case

4

Solution – Design
principles

5

Demo

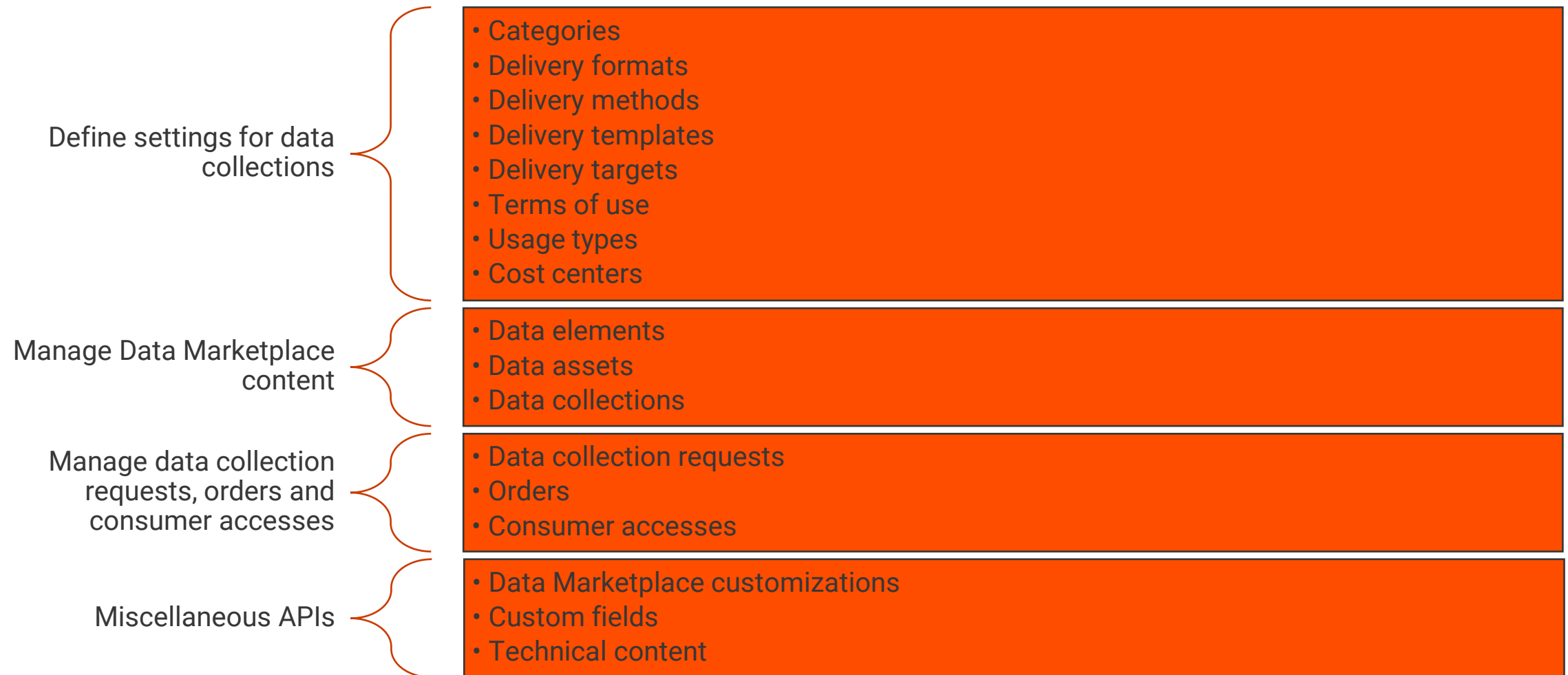
6

Q&A

Introduction to CDMP Rest API

- 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>
- In order to consume these REST APIs, a 'Process' needs to be developed in the Informatica Cloud Application Integration (CAI) app. Once the *Process* is developed and published, those APIs can be called via any external tool/program (for e.g. Postman).

Introduction to CDMP Rest API



Services in CAI

Execute Data Marketplace API Properties

General

Service

Input Fields

Fault Handling

Timer Events

Message Events

Service Type: System Service

Action: Execute Data Marketplace API

Description
Execute the specified Data Marketplace API.

Input Fields

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.
Payload	<input type="checkbox"/>	Text	The JSON payload to be sent to the Data Marketplace API.
Query Parameter	<input type="checkbox"/>	Object ID	The process object type field associated with the Data Marketplace API query parameters.
Path Variable	<input type="checkbox"/>	Object ID	The process object type field associated with the Data Marketplace API path variables.

Output Fields

Name	Type
Data Marketplace Response	Text

System Service Action

- On the CAI Designer, a 'System Service' task with Action **Execute Data Marketplace API** needs to be created. This acts as an entry point to the CDMP REST APIs.

System Service Input

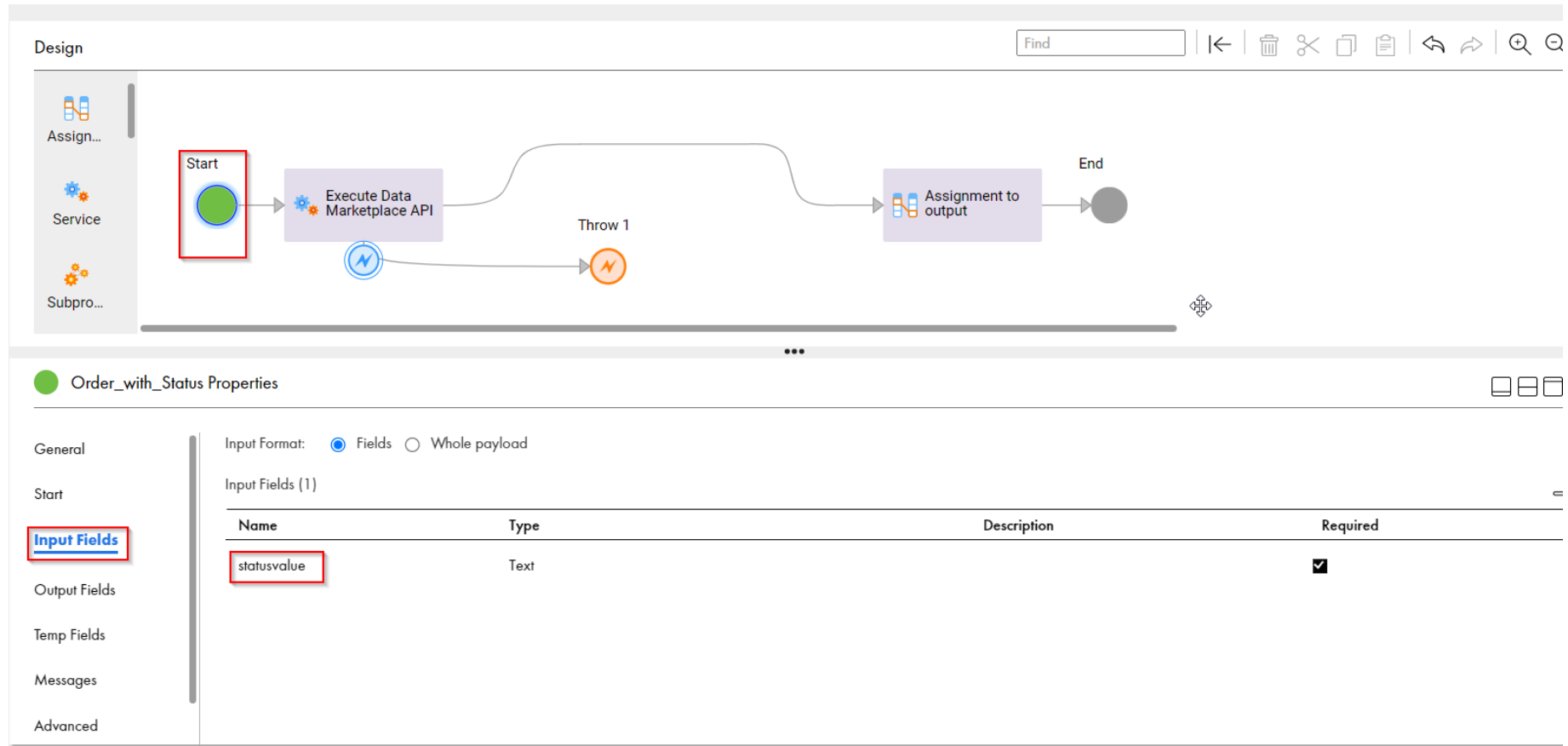
- This System Service, has 5 input fields and 1 output field as shown below:

Services in CAI

- HTTP Method
 - Required. The HTTP method invokes the Data Marketplace API such as GET, PUT, or POST.
- Relative Path
 - Required. The relative path of the Data Marketplace API.
 - For example, to perform operations on the data assets in Data Marketplace, enter the following as the relative path:
datasets
 - To perform operations on the data elements in Data Marketplace, enter the following as the relative path:
dataAssets/{{id}}/dataElements
- Payload
 - The JSON payload is to be sent to the Data Marketplace API using the PUT or POST method. For example, to send employee data to the Data Marketplace API.
- Query Parameter
 - The process object that returns the data associated with the Data Marketplace API query parameters. You can use the API query parameters such as sort or status to sort or filter the data using the GET method. Based on the query parameter, the API returns the associated data in the XML format.
 - You can configure the Query Parameter field by using a formula or field.
- Path Variable
 - The process object that is associated with the Data Marketplace API path variables.
 - You can configure the Path Variable field by using a formula or field.

Sample Use - Case

Retrieve Order with Status Approved.



Sample Use – Case / Orders

Design

Find

Assign...
Service
Subpro...

Start

Execute Data Marketplace API

Throw 1

Assignment to output

End

Execute Data Marketplace API Properties

General

Service

Input Fields

Fault Handling

Timer Events

Message Events

Service Type: System Service

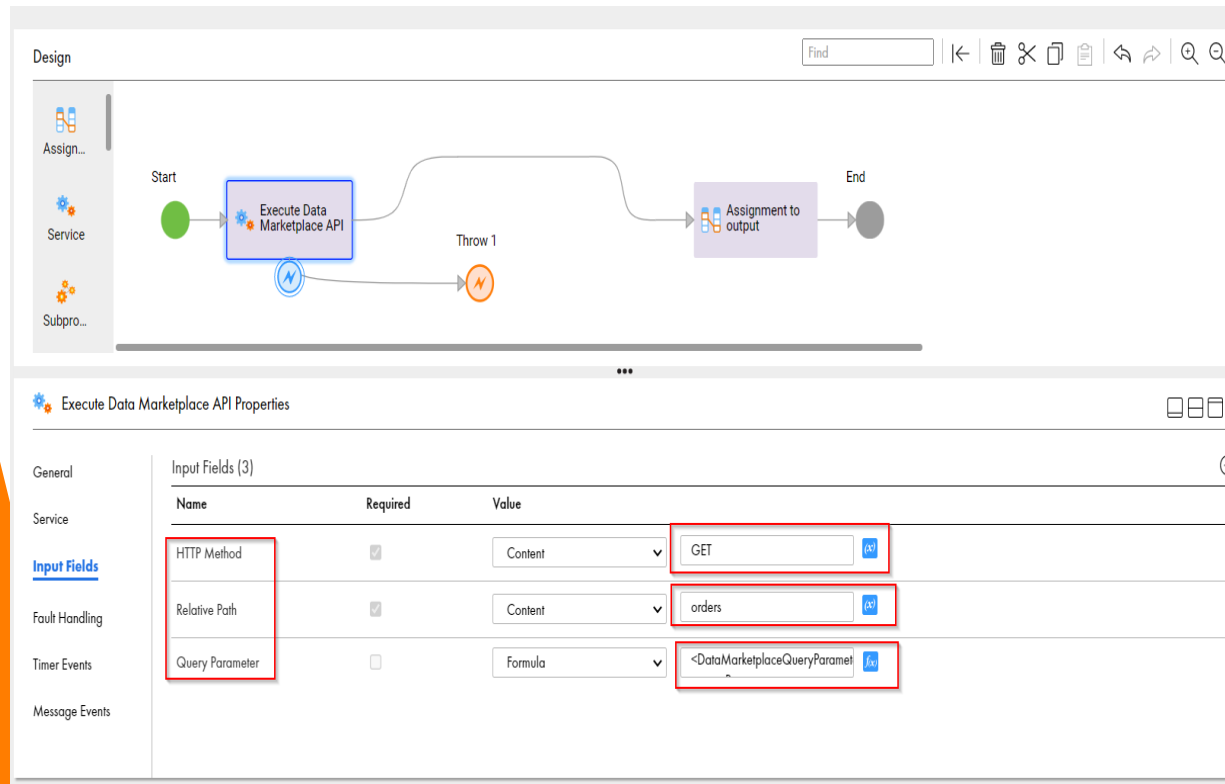
Action: Execute Data Marketplace API

Description
Execute the specified Data Marketplace API.

Input Fields

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.

Sample Use – Case / Orders



Create an expression with fields and operators.

Fields

Functions

XML Objects

Expression

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

Sample Use – Case / Orders – Postman Request

The screenshot displays a Postman interface for a POST request. The URL bar at the top shows `https://na1.ai.dm-us.informaticacloud.com/active-bpel/rt/orderwithstatus`, which is highlighted with a red box. Below the URL bar, the 'Body' tab is selected, and the 'raw' radio button is chosen. The body content is a JSON object: `{... "statusvalue": "APPROVED"}`, also highlighted with a red box. The response section at the bottom shows a status of 200 OK, with a time of 8.57 s and a size of 49.35 KB. The response body is displayed in 'Pretty' JSON format, showing a detailed object with fields like `processingTime`, `offset`, `limit`, `totalCount`, and `objects`.

```
POST https://na1.ai.dm-us.informaticacloud.com/active-bpel/rt/orderwithstatus

{
  ... "statusvalue": "APPROVED"
}
```

Status: 200 OK Time: 8.57 s Size: 49.35 KB Save Response

```
{
  "processingTime": 7390,
  "offset": 0,
  "limit": 50,
  "totalCount": 10,
  "objects": [
    {
      "justification": "Test",
      "deliveryRequests": null,
      "requestedProvisionedTargetRef": "3d1dd3fa-b414-476d-b148-6904addafe09",
      "refId": "5588758d-9f23-45da-bcad-2d8b021f2afd",
      "dataCollections": [
        {
          "id": "e859979a-fb76-4531-86ec-3a615a63f49a",
          "name": "AG_Data_Collection_One",
          "description": "<p>AG_Data_Collection_One</p>",
          "refId": "82360e38-2366-44ff-8d11-08a9cd584950",
          "category": {
            "id": "d324b63a-60dd-4210-8421-af78a8c02fa4"
          }
        }
      ]
    }
  ]
}
```

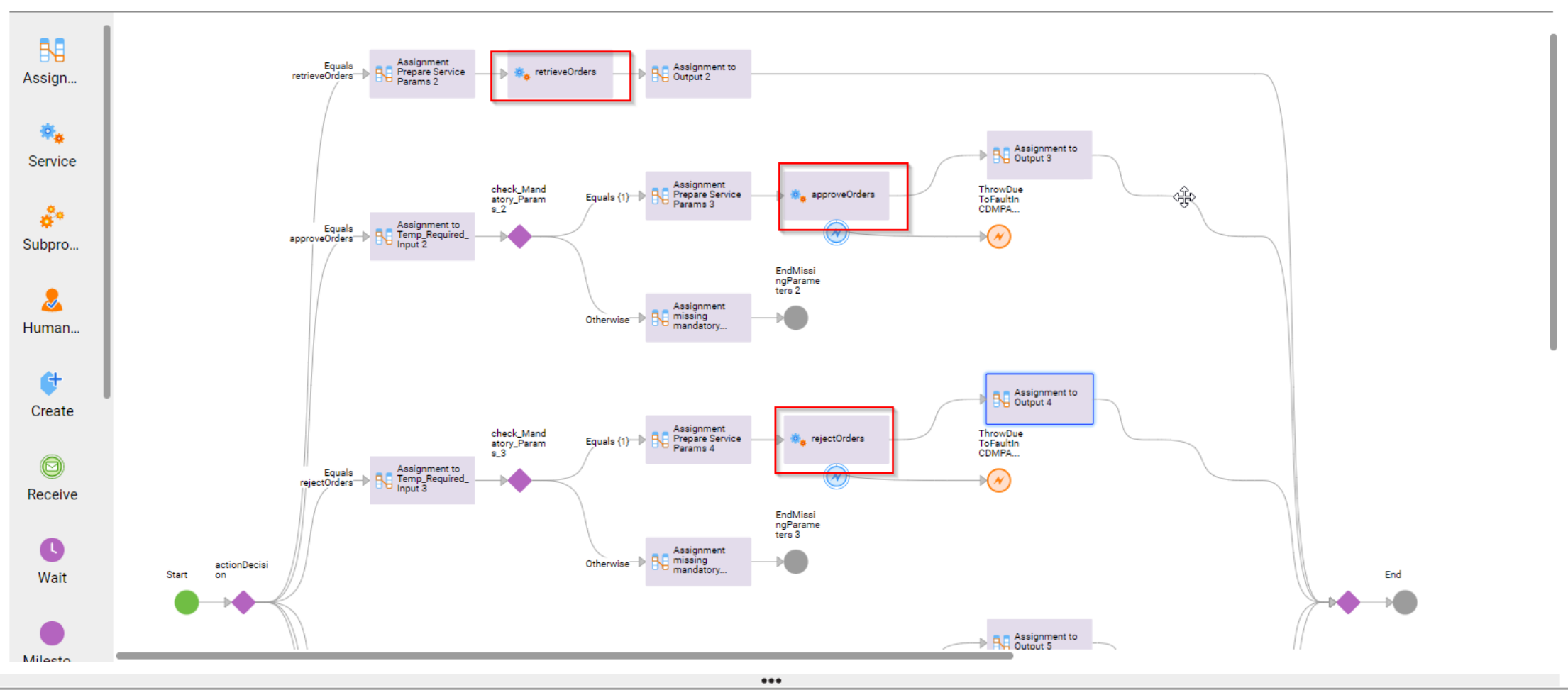
CDMP Accelerator Pack

- CDMP Accelerator pack provides access to all CDMP APIs without 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.



CDMP Rest Accelerator Pack – Order API

Design



CDMP Rest Accelerator Pack – retrieveOrder

CDMP Copy / Orders / retrieveOrders

Save

...

✎

📄

💬

</>

ⓘ

POST

{{CAI_Orders}}

Params Authorization Headers (10) Body Pre-request Script Tests Settings

none form-data x-www-form-urlencoded raw binary GraphQL JSON

```
1 {
2   "action": "retrieveOrders",
3   "queryParams": {
4     "dataCollectionIds": "e859979a-fb76-4531-86ec-3a615a63f49a",
5     "status": "COMPLETE"
6   },
7   "pathParams": {
8     "pathParam1": "pp_value1",
9     "pathParam2": "pp_value2"
10  },
11  "body": {
12    "bodyElement1": "be_value1",
13    "bodyElement2": "be_value2"
14  }
15 }
```

Body Cookies Headers (15) Test Results

🌐

Pretty

Raw

Preview

Visualize

JSON

↔

```
1 {
2   "processingTime": 2272,
3   "offset": 0,
4   "limit": 50,
5   "totalCount": 3,
6   "objects": [
7     {
8       "justification": "Order checkout attempt 2",
9       "deliveryRequests": null,
10      "requestedProvisionedTargetRef": "66f0d7c8-2338-4e6d-944f-116760ceaedb",
11    }
12  ]
13 }
```

```
{
  "action": "actionName",
  "queryParams": {
    "queryParam1" : "qp_value1",
    "queryParam2" : "qp_value2"
  },
  "pathParams": {
    "pathParam1" : "pp_value1",
    "pathParam2" : "pp_value2"
  },
  "body": {
    "bodyElement1" : "be_value1",
    "bodyElement2" : "be_value2"
  }
}
```

DEMO

Q&A