

# SAP Cloud Platform Integration Suite

## Monthly Updates – February 2020

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# Agenda



- Cloud Integration
- Open Connectors
- API Management & API Business Hub
- Q&A



# What's New!! - SAP Cloud Platform Integration Suite

- What's New Initiative -
  - Newsletter: **First Monday**
  - Webinar: **Last Tuesday**
- One time subscription - no need to register for individual webinars
- Consolidated **Landing page** for all the Suite services – monthly aggregation
- Links to blogs, upcoming events, important news, updates, recordings, etc. for all Suite services in one newsletter



## August Newsletter - What's New!!

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### Upcoming Webinar

Aug 29: [SAP Cloud Platform Integration Suite – Monthly Update](#)

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### Connectivity Tests

Perform connectivity test against the Cloud Connector or test connection via the Cloud Connector to the backend.

[Learn how](#)

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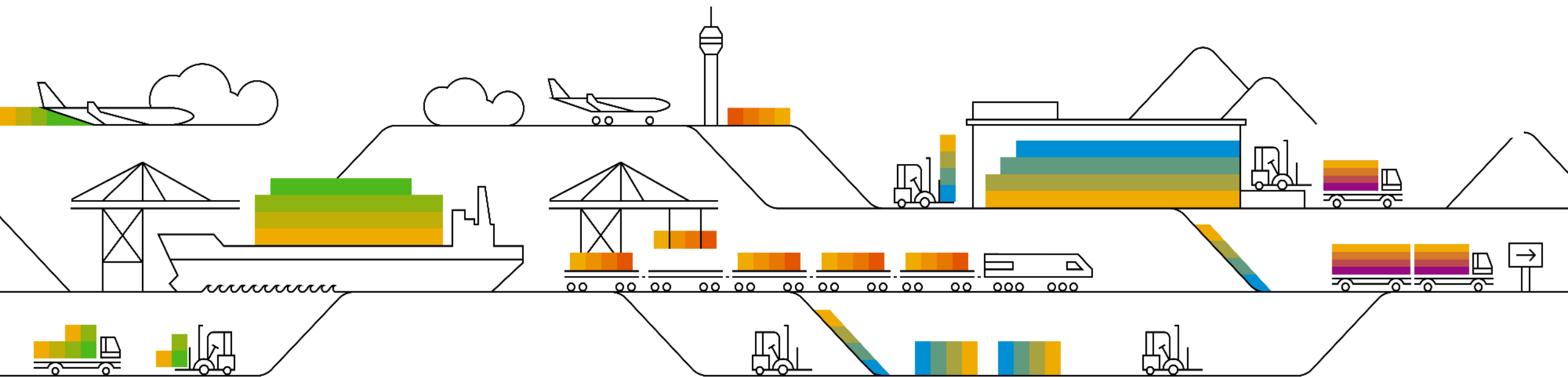
### Self-service enablement

Enable Cloud Integration service on consumption-based commercial model for SAP Cloud Platform via self-service.

[Learn more](#)

**Subscribe Now!!**

# Cloud Integration



# Agenda



- Remote OData API Enhancements
- LDAP Adapter: Search & Delete Operations
- Validation Checks



# Remote OData API Enhancements

## OData V2 API for OAuth2ClientCredentials

Use this grant type to access web resources by authorizing the client application to perform required actions on behalf of an user. SAP Cloud Platform supports applications to use the OAuth client credentials flow for consuming OAuth-protected resources.

The client credentials are used to request an access token from an OAuth authorization server.

OAuth2 Client Credentials	<i>GET</i>	Read All OAuth2 Client Credential	/OAuth2ClientCredentials
	<i>GET</i>	Read specific OAuth2 Client Credential	/OAuth2ClientCredentials('credential_name')
	<i>POST</i>	Create OAuth2 Client Credential	/OAuth2ClientCredentials
	<i>PUT</i>	Update OAuth2 Client Credential	/OAuth2ClientCredentials('credential_name')
	<i>DELETE</i>	Delete OAuth2 Client Credential	/OAuth2ClientCredentials('credential_name')

# Remote OData API Enhancements

## Integration Package Public APIs

<div>Integration Package - Discover</div> <div>Integration Packages - Design</div> <div>Integration Flow</div> <div>Configurations of Integration Flow</div> <div>Resources of Integration Flow</div> <div>Runtime Artifacts</div> <div>Error Information of Runtime Artifact</div> <div>Endpoints of Runtime Artifacts</div> <div>CSRF Token Handling</div>	<div>GET</div> <div>/IntegrationPackages</div> <div>Try out</div> <div>Code Snippet</div>
	<div>POST</div> <div>/IntegrationPackages</div> <div>Try out</div> <div>Code Snippet</div>
	<div>GET</div> <div>/IntegrationPackages('{Id}')</div> <div>Try out</div> <div>Code Snippet</div>
	<div>PUT</div> <div>/IntegrationPackages('{Id}')</div> <div>Try out</div> <div>Code Snippet</div>
	<div>DELETE</div> <div>/IntegrationPackages('{Id}')</div> <div>Try out</div> <div>Code Snippet</div>
	<div>GET</div> <div>/IntegrationPackages('{Id}')/IntegrationDesigntimeArtifacts</div> <div>Try out</div> <div>Code Snippet</div>
	<div>GET</div> <div>/IntegrationPackages('{Id}')/IntegrationDesigntimeArtifacts(Id='{ArtifactId}',Version='{...</div> <div>Try out</div> <div>Code Snippet</div>





**Demo**

# LDAP Adapter: Search & Delete Operations

The Lightweight Directory Access Protocol (LDAP) Receiver Adapter enables you to communicate with systems that expose data through LDAP service.

The supported operations are:

- Insert: Allows you to create a new entry in LDAP service.
- Modify: Use this operation to edit an existing entry in LDAP directory.
- Search: Allows you to perform a query for entries, in Java (JNDI) Attributes or XML format. ([Blog](#))
- Delete: Erases an entry from the LDAP directory.

LDAP

Externalize ? — ↗

General

Connection

Processing

PROCESSING DETAILS

Operation:

Search

Base DN:

CN=Users,DC=,DC=,DC=sap,DC=corp

Scope:

Subtree

\*Search Filter:

objectGUID=\57\25\c3\2a\63\be\7e\40\4a\28\02\34\1f\1a\3\9b\7f

Output Type:

Java (JNDI) Attributes

Attributes:

DistinguishedName

\*Size Limit:

1

\*Timeout (in min):

1



**Demo**

# Validation Checks

## Check feature in Queue Monitor

The Managing Message Queues (in the Web UI Operations view under Manage Stores) now provides the Check function in the Cloud Foundry environment, using which you can find the unused and missing queues.

The screenshot shows the 'Manage Message Queues' interface. At the top right, a 'Check' button is highlighted with a red rectangle. Below it, a status bar indicates 'JMS Resources: OK.' with a 'Details' link and a 'Show unused and missing queues' button. The main area is divided into two sections: 'Queues (1)' and 'Messages (0)'. The 'Queues (1)' section has a table with columns 'Name', 'Entries', and 'Status'. It lists 'LDAPQueue' with 0 entries and a link icon. The 'Messages (0)' section has a table with columns 'JMS Message ID', 'Message ID', and 'Status', showing 'No data'. Various filter and action buttons are present above the tables.

✓ / Manage Message Queues

Check

i JMS Resources: OK. Details Show unused and missing queues

Queues (1) Filter by Name [Search] [Refresh] [Sort]

Messages (0) Filter by Message ID [Search] [Retry] [Delete] [Download] [Refresh] [Settings] [List]

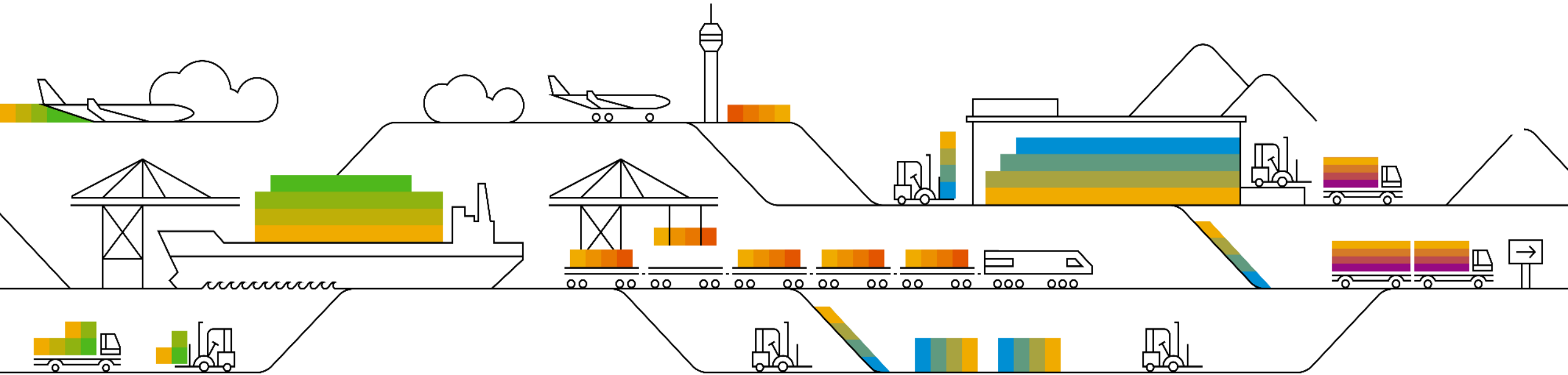
Name	Entries	Status
LDAPQueue	0	[Link]

JMS Message ID	Message ID	Status
No data		

## Local Integration Process

Validation checks in the local integration process has been improvised. If the integration flow includes some empty elements and sequences, a clear message will be shown while displaying problems.

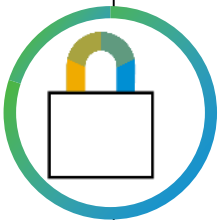
# API Management



# Agenda



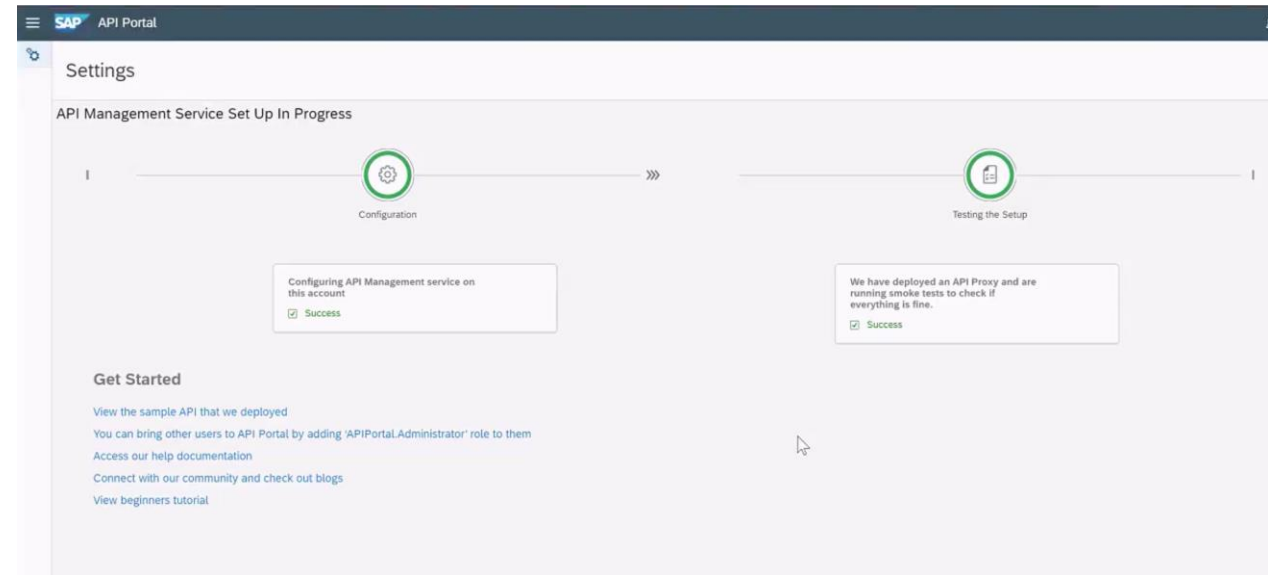
- API Management fully automated service service in Cloud Foundry (Starter Plan)
- API Management as a native Application in Cloud Foundry
- Discovery and Consumption of OData Services from CPI.





# API Management fully automated service service in Cloud Foundry

- Automated onboarding - No manual steps and wait time for initial provisioning (and update) of Virtual Host URLs
- Feature exists only on Hyperscalers (AWS, Azure)
- Manual steps are needed in cases when Clients don't support SNI extension, Custom domain support, 2-way SSL between Clients and API Management.



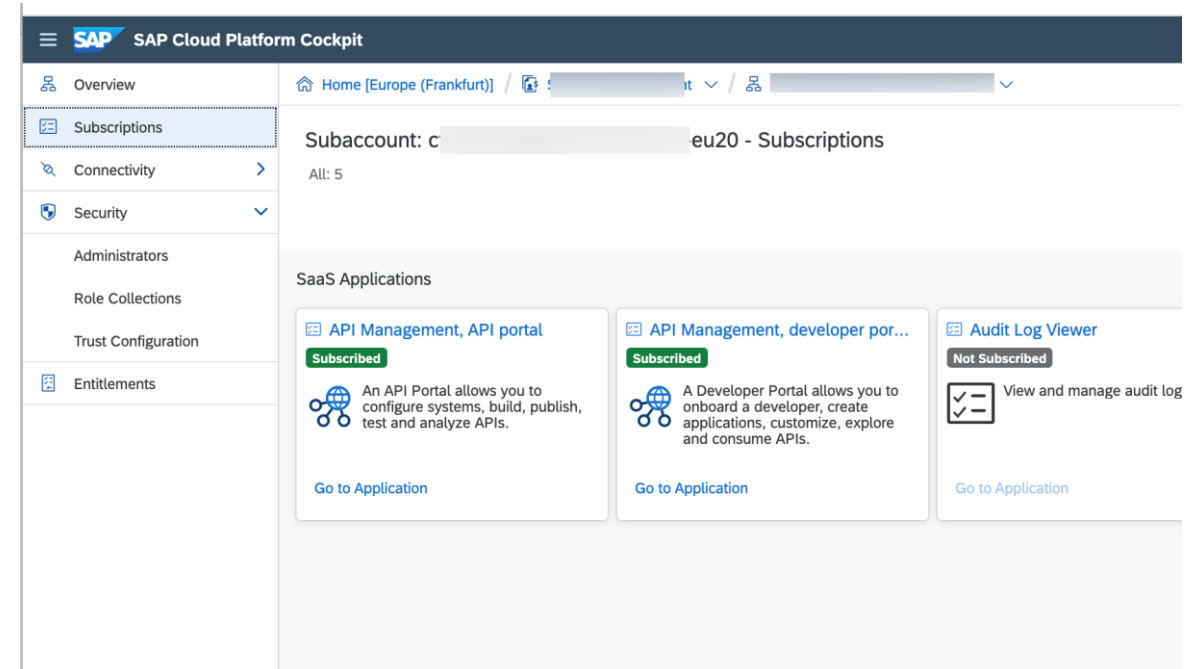


**Demo**



# API Management as a native Application in Cloud Foundry

- API Portal and Developer Portal now natively will be hosted as SaaS Applications in Cloud Foundry -> no more dependency on Neo
- Existing API Management Roles will be made available as pre-delivered Role Collections in CF.
- Additional custom Roles can be created and assigned to pre-delivered Role Templates in order to manage permissions to Developers
- GA in Azure Data Centers and AliCloud expected by mid-March
- Few functional limitations apply :  
<https://launchpad.support.sap.com/#/notes/2876620> . Will be removed in the coming months.





**Demo**

# Discovery and Consumption of OData Services from CPI

- Ability to onboard an API Provider of type 'Cloud Platform Interface', both for:
  - CPI Designtime - OData interfaces (only) from CPI can now be discovered during API Proxy creation routine, Resources listed in Open API format
  - CPI Runtime - System will grab the IFlow's runtime URL and proxy the Service.
- Can authenticate to the designtime and runtime URLs with Basic Authentication and Client Certificates (next Sprint)
- Enhance the Keystore support in API Management to also work with PCKS12 format (next Sprint)

## Configure

Configure API Providers, Certificates and Key Value Maps here.

API Providers (3)

Certificates (0)

Key Value Maps (0)

Name	Type
 <a href="#">ODP_ClientCertificate_Test</a>	Cloud Platform Integration Flow
 <a href="#">OData_V2_Service_Endpoint</a>	Cloud Platform Integration Flow
 <a href="#">IntegrationSuite-CPI-capability</a>	Cloud Platform Integration

Create API

Search

Please choose an Integration Flow. The Integration Flows displayed are of type OData.

Name	Version	Last Modified
<input type="radio"/> OdataServiceReadWrite_SAP_1	1.0.0	2020/02/24 7:49:16 PM
<input type="radio"/> TestISException01	1.0.1	2020/02/24 7:49:30 PM
<input type="radio"/> TestISException	1.0.0	2020/02/24 7:49:42 PM
<input type="radio"/> OData_V2_Service_Endpoint	3.0.0	2020/02/24 7:50:19 PM
<input type="radio"/> ODP_ClientCertificate_Test	1.0.1	2020/02/24 7:50:20 PM

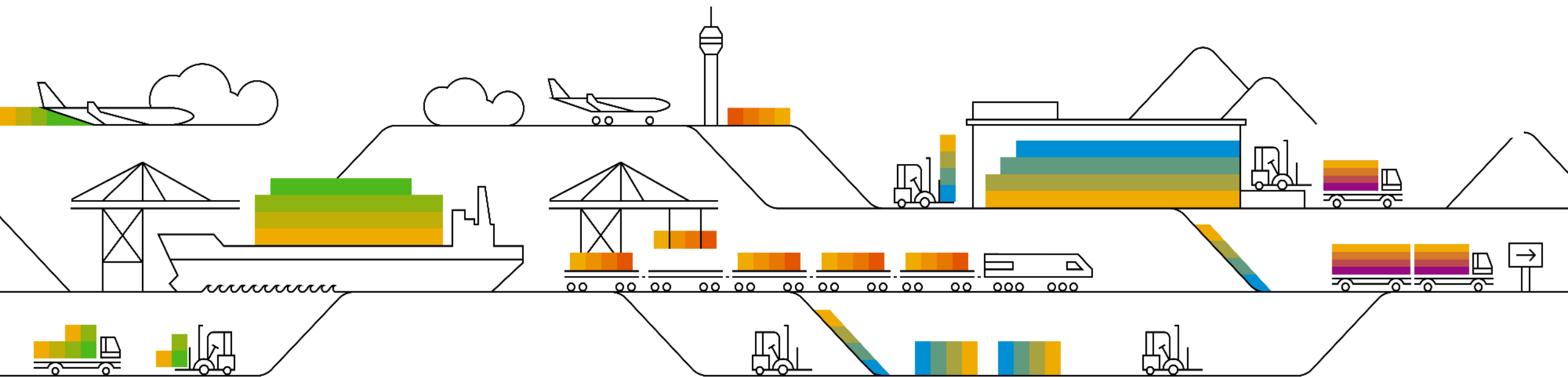
Next

Cancel



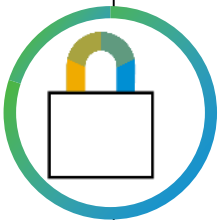
**Demo**

# Open Connectors



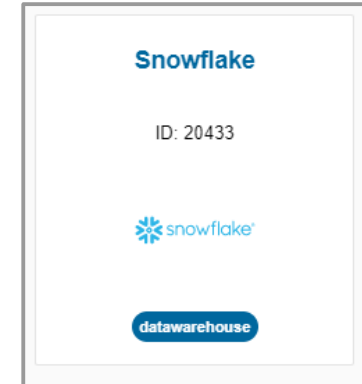
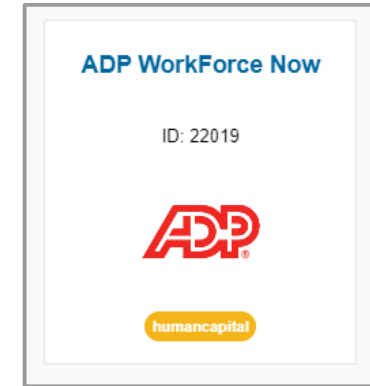
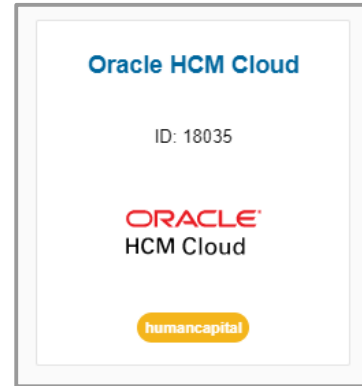
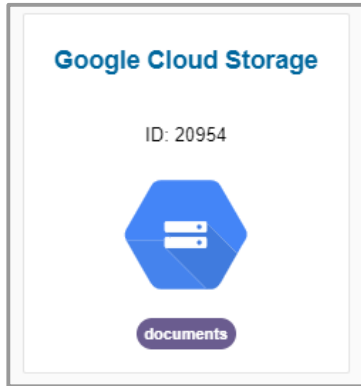
# Agenda

- Connectors updates
- Postman Collection in Connector Builder

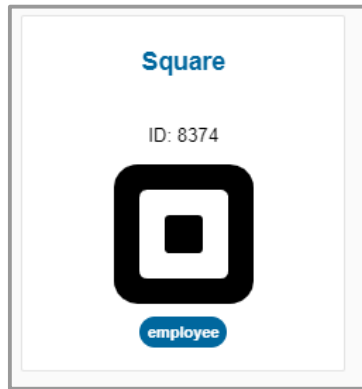




# Newly Added Connectors



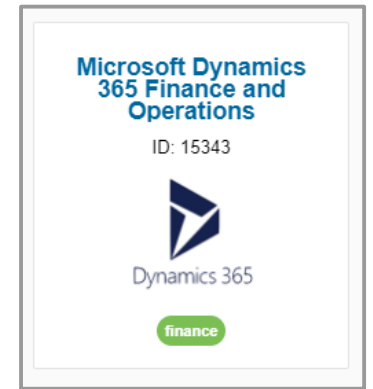
# Updated Connectors



Support for  
latest version  
v2.0



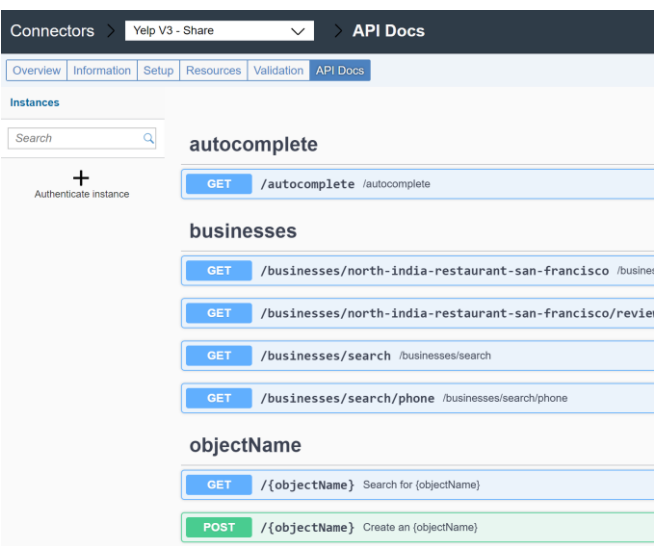
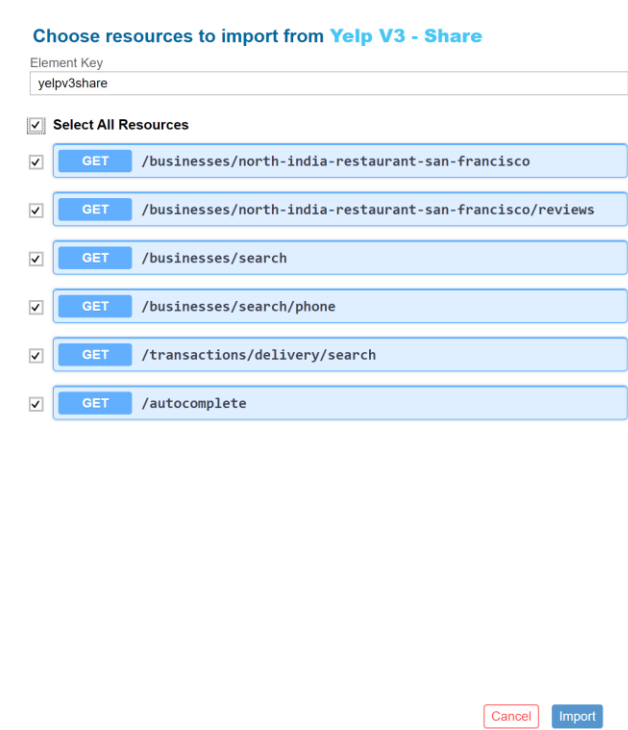
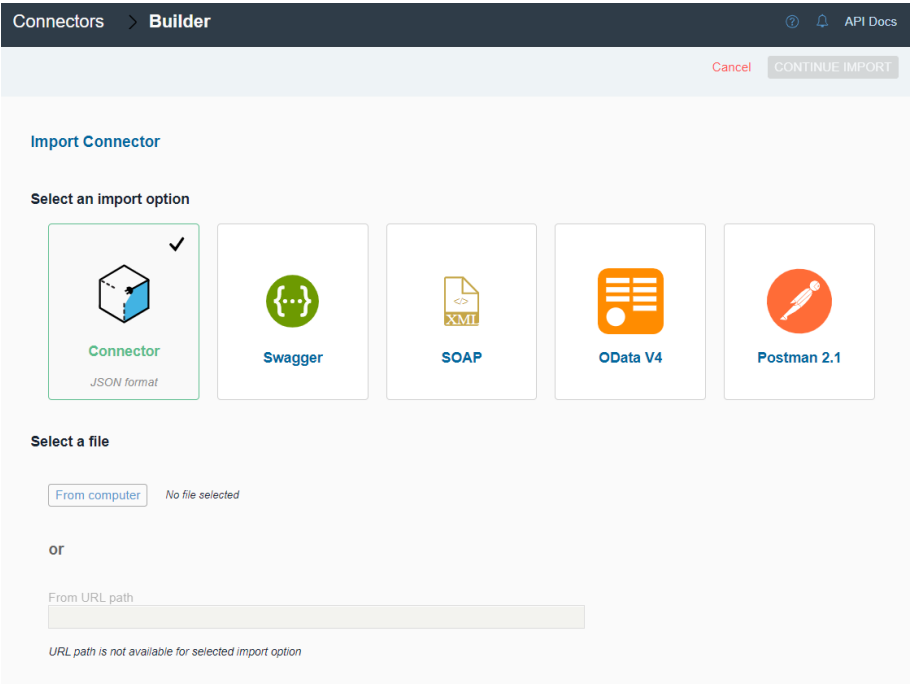
Support for  
latest version  
v2.22



Support for  
Procure to  
Pay use-  
cases



# Postman Collection in Connector Builder



Create connector using your Postman collection 2.0

# Q&A

**Thank you.**