

Connecting systems and services using  
SAP Integration Suite

# SAP CodeJam Madrid

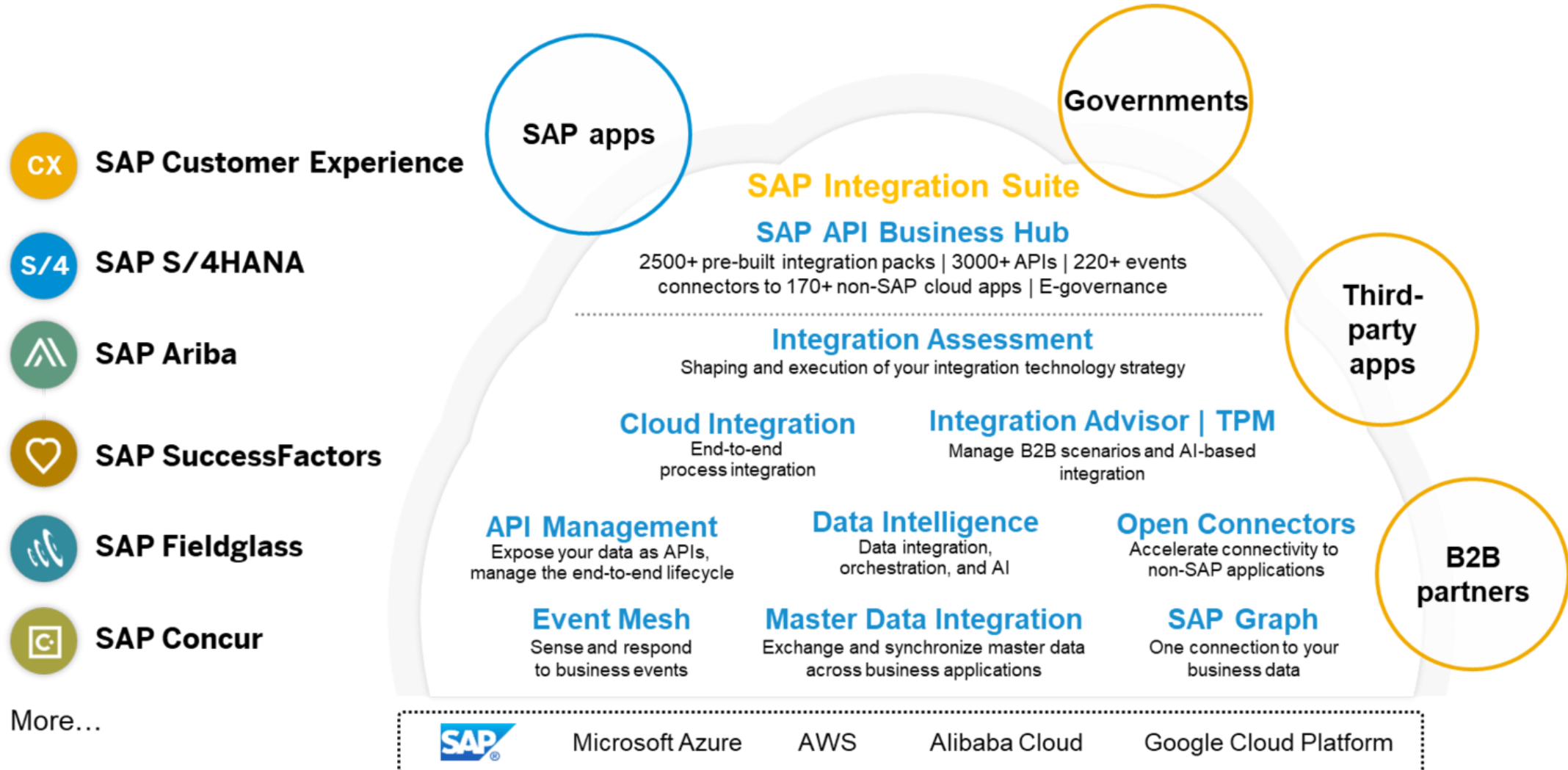
June 21st, 2023



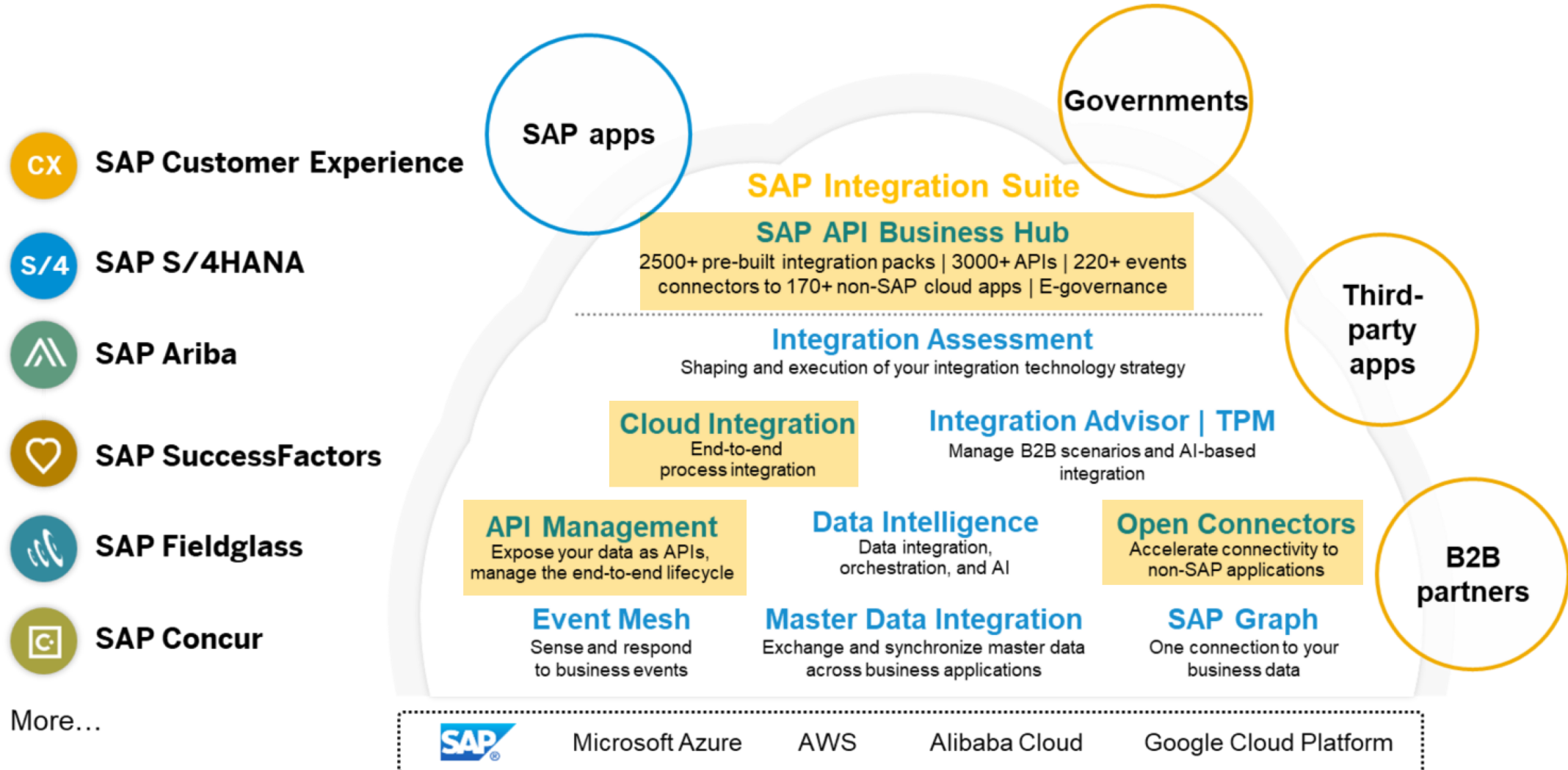
SAP Community  
Anniversary



# SAP Integration Suite

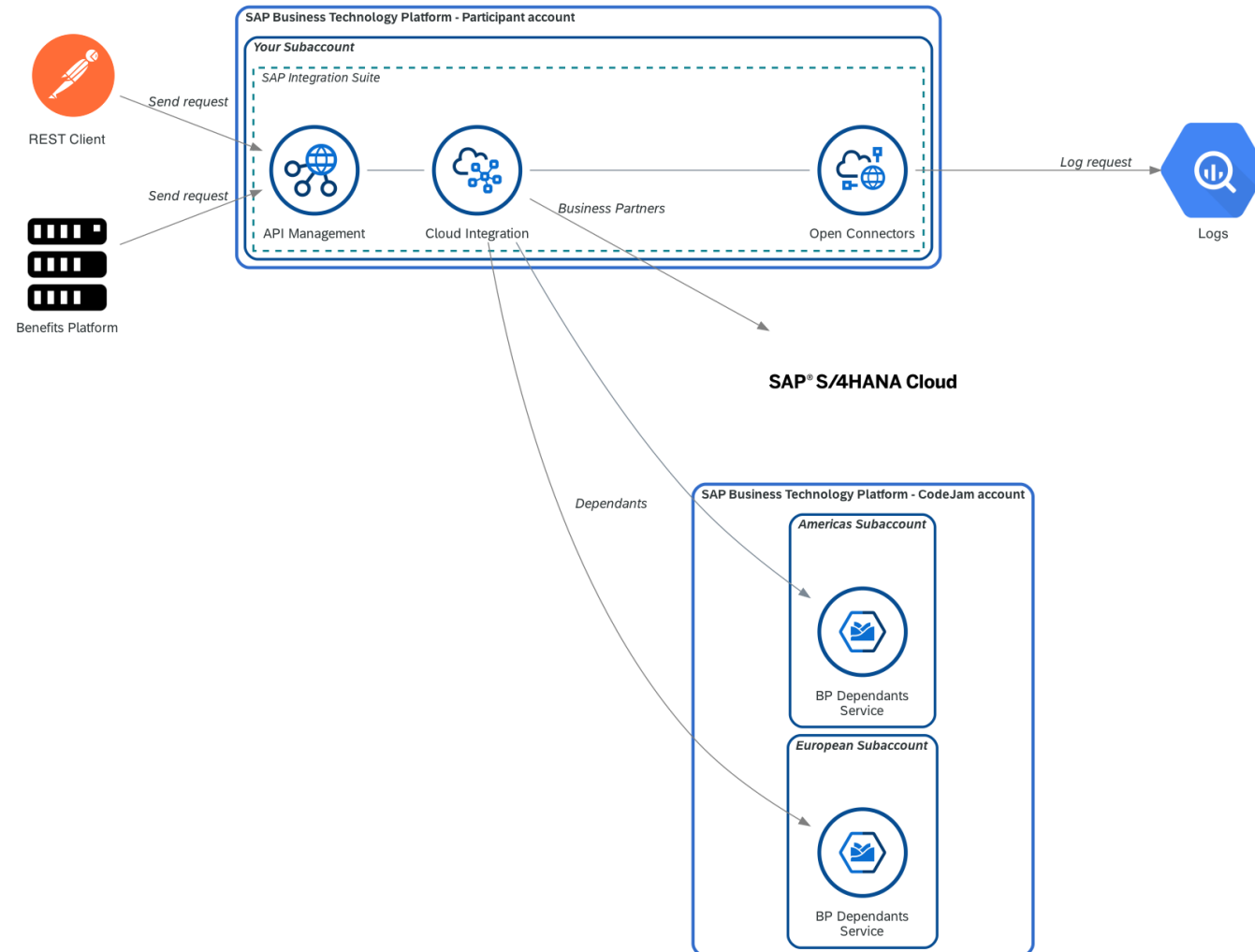


# SAP Integration Suite





More...

# SAP CodeJam - Integration scenario



# SAP CodeJam - Repository


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 **ajmaradiaga** Removing Google Search console file ✓ fe84fdd 1 hour ago 🕒 157 commits


 .github	Including .github folder	2 months ago
 .reuse	Initial commit	2 months ago
 LICENSES	Initial commit	2 months ago
 assets	Flow with Cloud Connector configuration	5 days ago
 exercises	Including details on the additional iflow via CC	5 days ago
 .gitignore	Updating theme	16 days ago
 LICENSE	Initial commit	2 months ago
 README.md	Updating link to exercise titles	5 days ago
 _config.yml	Switching title and description	16 days ago
 prerequisites.md	Updating link to exercise titles	5 days ago
 running-locally-prerequisites.md	Highlighting usage of Docker	5 days ago
 troubleshooting.md	Including HTTP 404 and 405 errors	6 days ago


About


This repo contains the exercise instructions for the CodeJam based on SAP Integration Suite.


samplecodejamsap-integration-suite


 Readme

 Apache-2.0 license


 Code of conduct


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Contributors 2

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# SAP CodeJam - Exercises

- Exercise 01 - Getting familiar with the SAP Business Accelerator Hub
- Exercise 02 - Exploring the mock services
- Exercise 03 - Build our first integration flow
- Exercise 04 - Send messages and monitor our integration flow
- Exercise 05 - Retrieve Business Partner dependant's information
- Exercise 06 - Add the America's instance of the Business Partner Dependants service
- Exercise 07 - Log service call in Google BigQuery (Open Connectors)
- Exercise 08 - Expose integration flow via API Management
- (Optional) Exercise 01 - Running locally services used in CodeJam

# Exercise 01 - Getting familiar with the SAP Business Accelerator Hub

The screenshot displays the SAP API Business Hub interface. At the top, the navigation bar includes 'SAP API Business Hub', 'Explore', 'Resources', 'Discover Integrations', and 'Partner with Us'. A toggle for 'New SAP API Business Hub' is set to 'On'. Below the navigation bar, a banner for 'SAP S/4HANA Cloud' is visible. The main content area features a horizontal menu with 'Overview', 'APIs' (highlighted with an orange box), 'Events', 'CDS Views', 'Developer Extensibility', 'Integrations', 'Business Process', and 'Workflow Management'. Below this, a secondary menu shows 'Packages', 'All' (highlighted with an orange box), 'SOAP', 'ODATA V2', 'ODATA V4', and 'REST'. The search results section indicates 'Showing 1 of 4 results' and includes pagination controls ('View All Results', '< Previous', 'Page 1 of 4', 'Next >') and a 'Sort by: A-Z' dropdown. A search bar on the right contains the text 'Business Partner' (highlighted with an orange box). The results list three items: 'Business Partner (A2X)' (ODATA V2 API, Version 1.2.1, highlighted with a green box), 'Contract Accounting Business Partner Payment – Manage' (ODATA V4 API, Version 2.0.0), and another 'Contract Accounting Business Partner Payment – Manage' (ODATA V4 API, Version 1.1.0). A vertical 'FEEDBACK' button is located on the right side of the results area.

SAP API Business Hub Explore Resources Discover Integrations Partner with Us New SAP API Business Hub ☒ Hi

SAP S/4HANA Cloud  
The next generation digital core designed to help you run simple in a digital economy. It provides the industry-specific capabilities and cloud benefits that your business needs.

Overview **APIs** Events CDS Views Developer Extensibility Integrations Business Process Workflow Management

Packages **All** SOAP ODATA V2 ODATA V4 REST

Showing 1 of 4 results [View All Results](#) < Previous Page 1 of 4 Next > Sort by: A-Z

Business Partner

**Business Partner (A2X)**  
ODATA V2 API  
Create, read, update or delete the master data for business partner, supplier or customer using this synchronous inbound service  
Version 1.2.1

**Contract Accounting Business Partner Payment – Manage**  
ODATA V4 API  
Retrieve a list of payments in Contract Accounting (FI-CA) and make, release or withdraw payments from your SAP S/4HANA Cloud system with this synchronous inbound service  
Version 2.0.0

**Contract Accounting Business Partner Payment – Manage**  
ODATA V4 API  
Retrieve a list of payments in Contract Accounting (FI-CA) and make, release or withdraw payments from your SAP S/4HANA Cloud system with this synchronous inbound service  
Version 1.1.0

FEEDBACK



# Exercise 02 - Exploring the mock services

Explore  [Invite](#) [Settings](#) [Notifications](#) [Postman Logo](#) [Upgrade](#)

Overview **GET All Business Partners** + ... S4-BP-Mock-Server

connecting-services-integration-suite-cod... / s4-bp-mock-ser... / All Business Partn...

Save ... [Edit](#) [Comments](#)


**GET** `{{host}}/sap/opu/odata/sap/API_BUSINESS_PARTNER/A_BusinessPartner` [Send](#)

[Params](#) [Authorization](#) [Headers \(7\)](#) [Body](#) [Pre-request Script](#) [Tests](#) [Settings](#) [Cookies](#)

Query Params

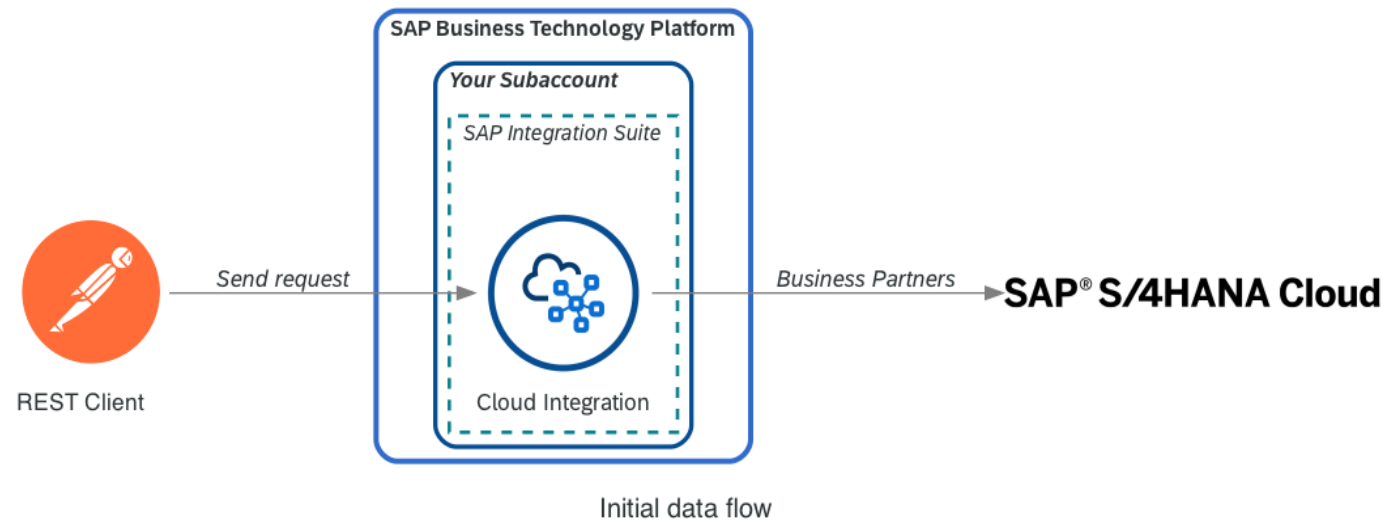
	KEY	VALUE	DESCRIPTION	...	Bulk Edit
	Key	Value	Description		

Response





# Exercise 03 - Build our first integration flow



# Exercise 04 - Send message and monitor our integration flow

The screenshot displays the SAP Cloud Integration IDE interface. On the left, the 'Mock Servers' section is expanded, showing a collection named 'connecting-services-integration-suite-codejam'. Within this collection, the 'cloud-integration' folder is selected, containing a 'POST Playground Request' and a 'POST Token'. The 'GET Request Employee Dependents' mock server is highlighted.

The main workspace shows the configuration for the 'GET Request Employee Dependents' mock server. The request method is 'GET' and the URL is '({{host}})/http/request-employee-dependants'. The 'Send' button is highlighted with a green box. The request body is in JSON format, containing the following data:

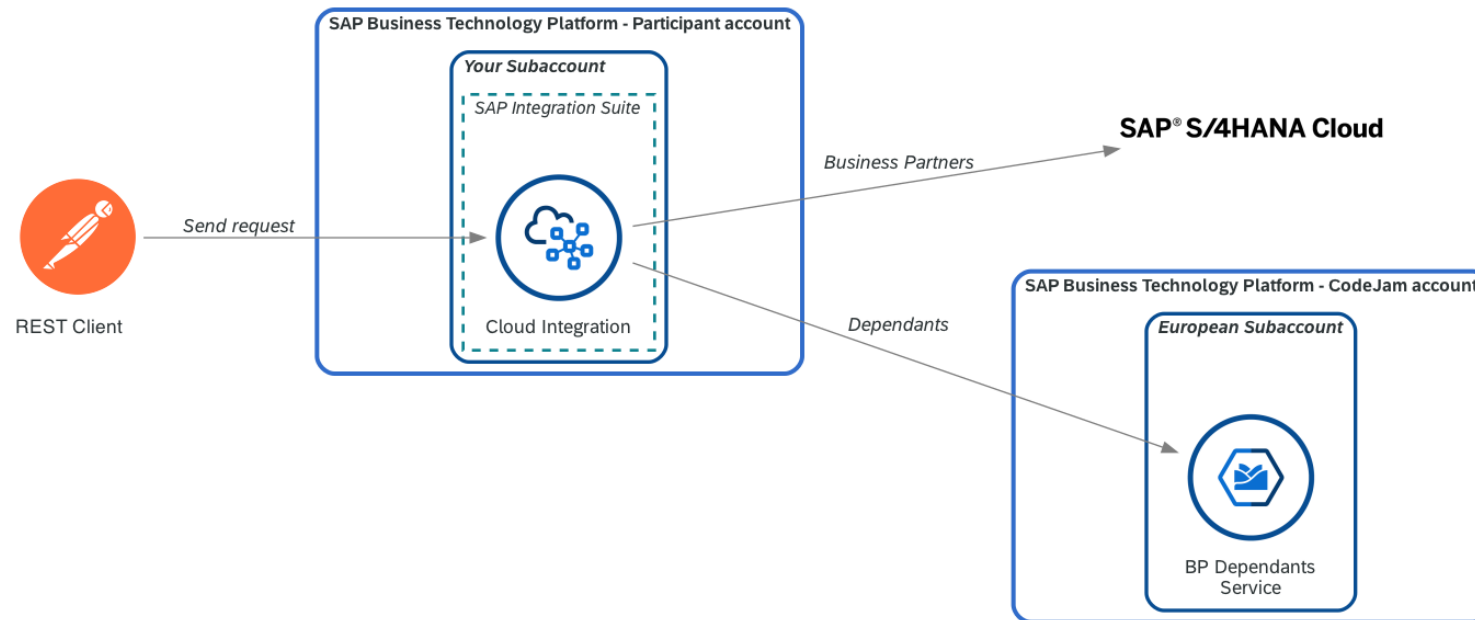
```
1 {
2   "employee_id": "1003764"
3 }
```

The response section shows the result of the request, with a status of '200 OK', a response time of '1054 ms', and a size of '6.63 KB'. The response body is in JSON format, containing the following data:

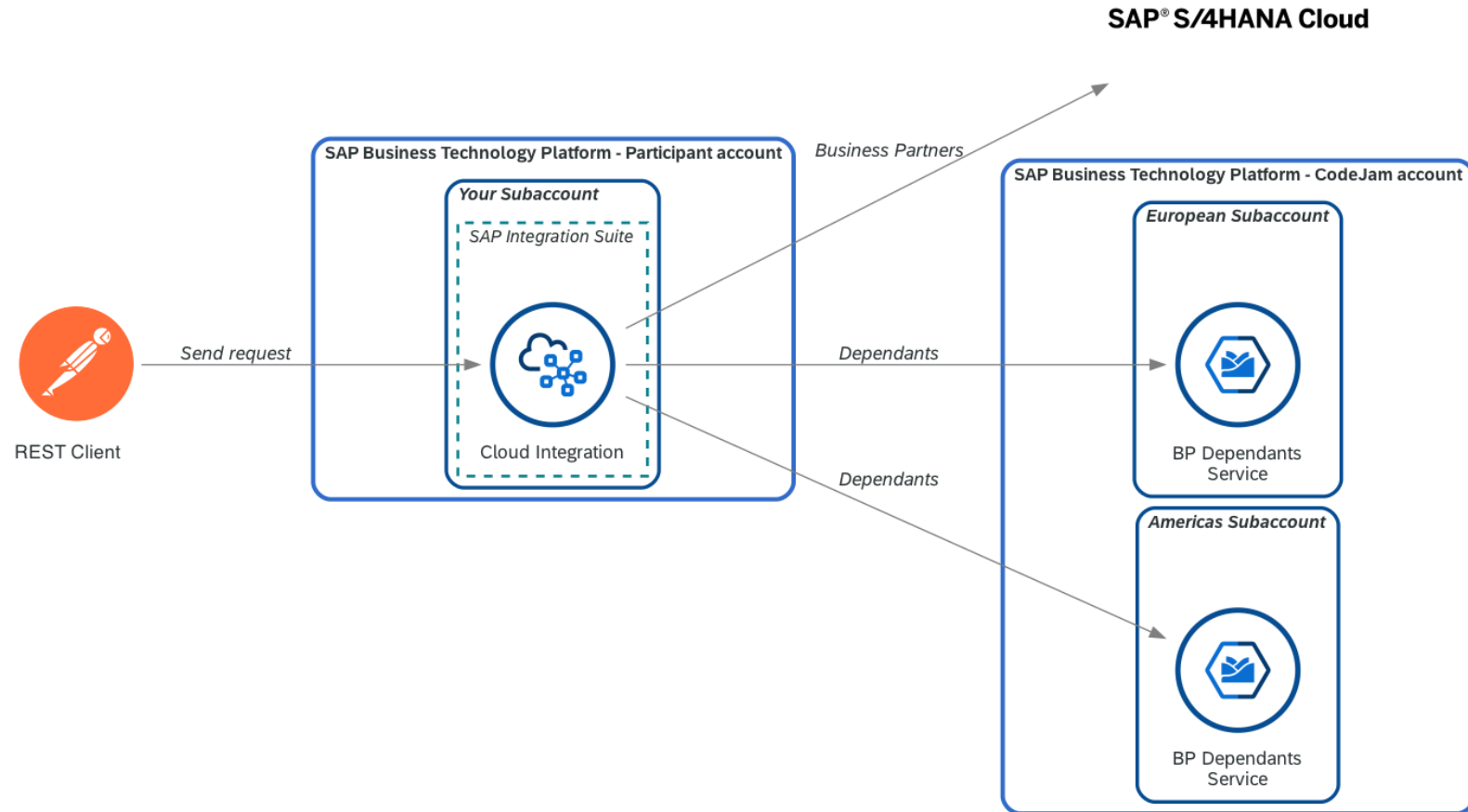
```
1 {
2   "d": {
3     "__metadata": {
4       "id": "http://s4-mock-server-service.default.svc.cluster.local:443/sap/opu/odata/sap/
5       API_BUSINESS_PARTNER/A_BusinessPartner('1003764')",
6       "uri": "http://s4-mock-server-service.default.svc.cluster.local:443/sap/opu/odata/
7       sap/API_BUSINESS_PARTNER/A_BusinessPartner('1003764')",
8       "type": "API_BUSINESS_PARTNER.A_BusinessPartnerType"
9     },
10    "BusinessPartner": "1003764",
11    "Customer": "",
12    "Supplier": "",

```

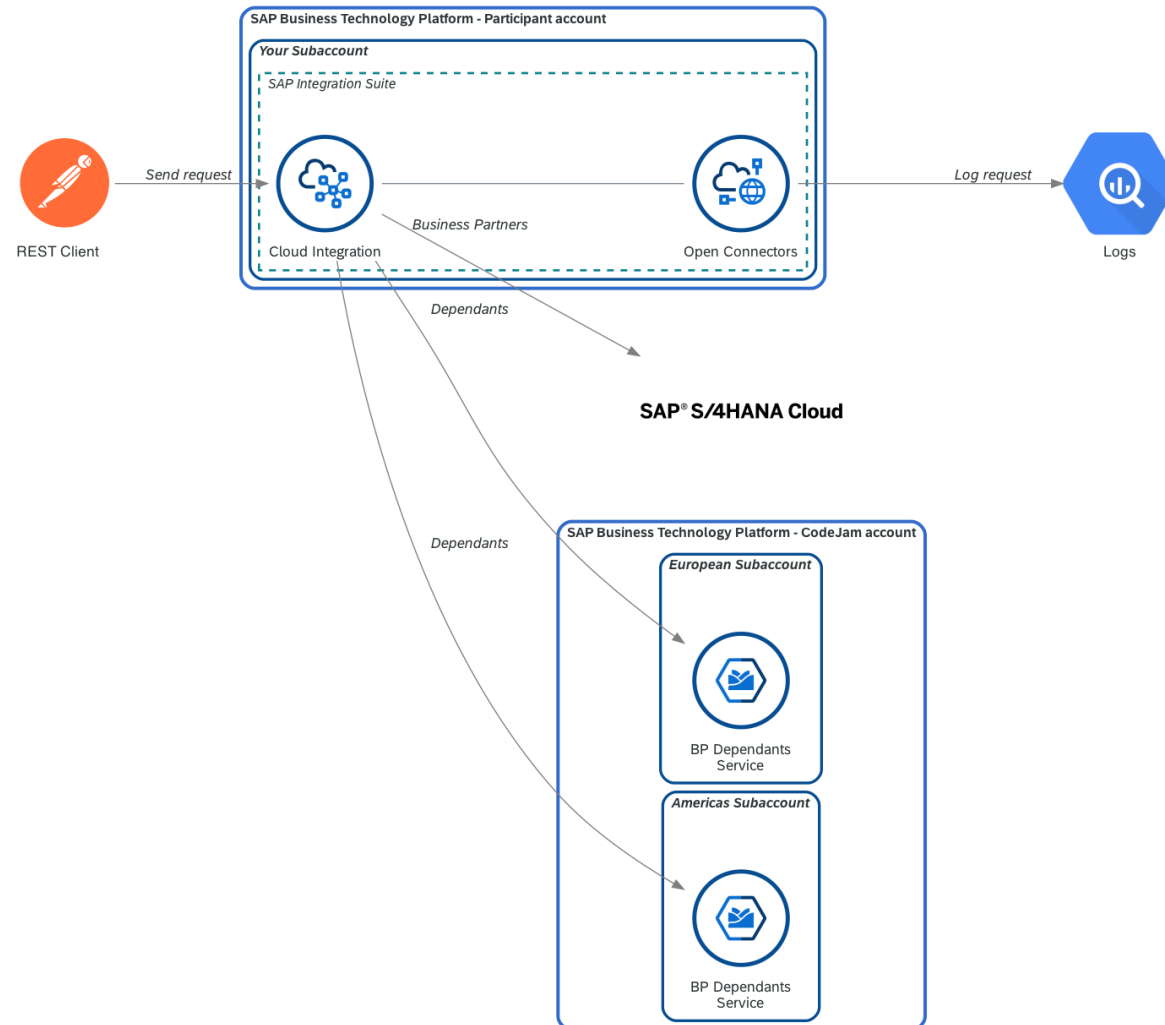
# Exercise 05 - Retrieve Business Partner dependant's information



# Exercise 06 - Add the America's instance of the Business Partner Dependants service



# Exercise 07 - Log service call in Google BigQuery



# Exercise 08 - Expose integration flow via API Management

[illegible]

# Thank you for attending!!!

- Issues: You can [create an issue](#) in this repository if you find a bug or have questions about it.
- [Feedback](#): If you can spare a couple of minutes at the end of the session, please help us improve for next time by giving me some feedback.