



Connecting systems and services using
SAP Integration Suite

SAP CodeJam Bonn

January 25th, 2024

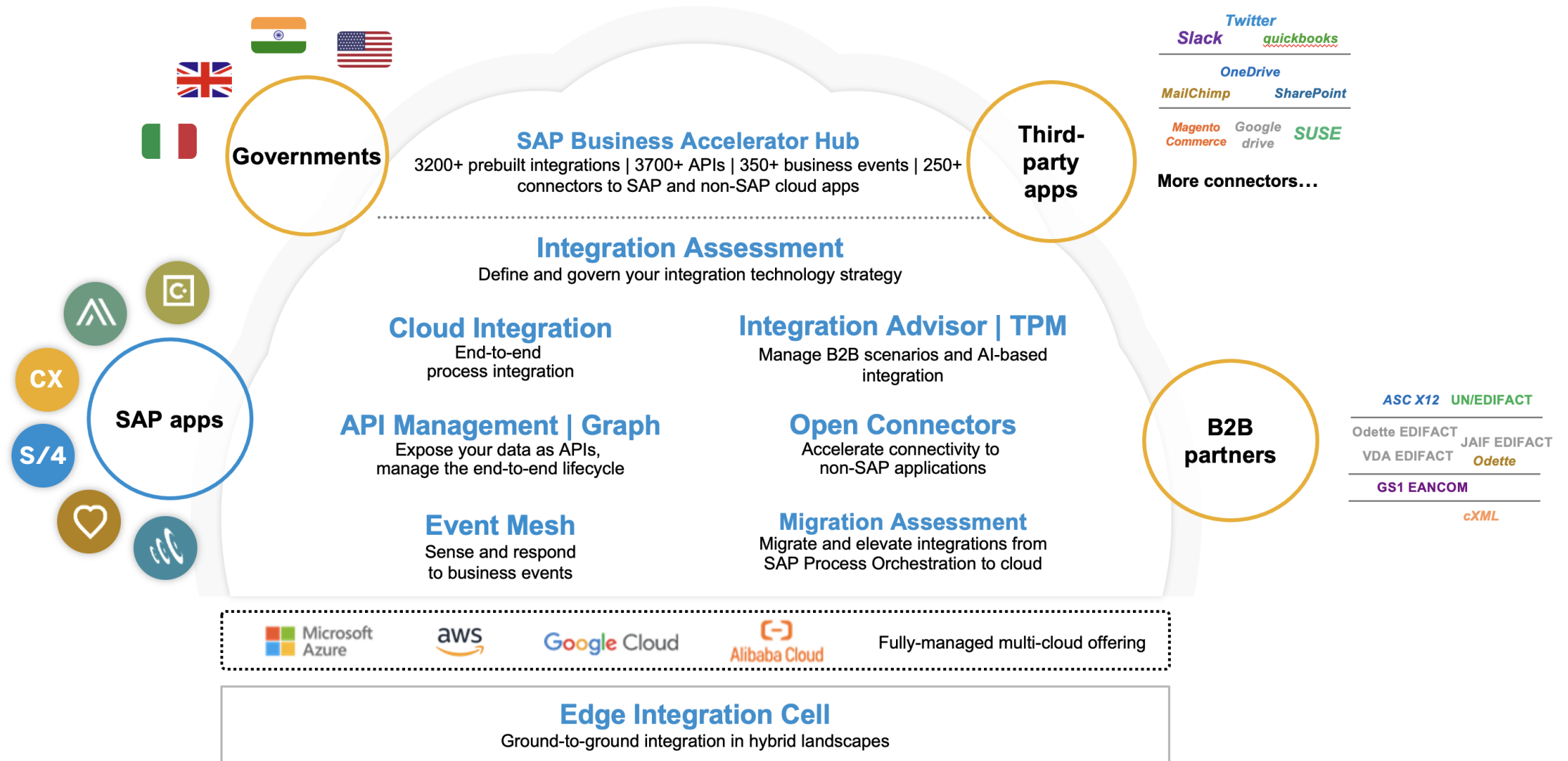


SAP Community
Anniversary

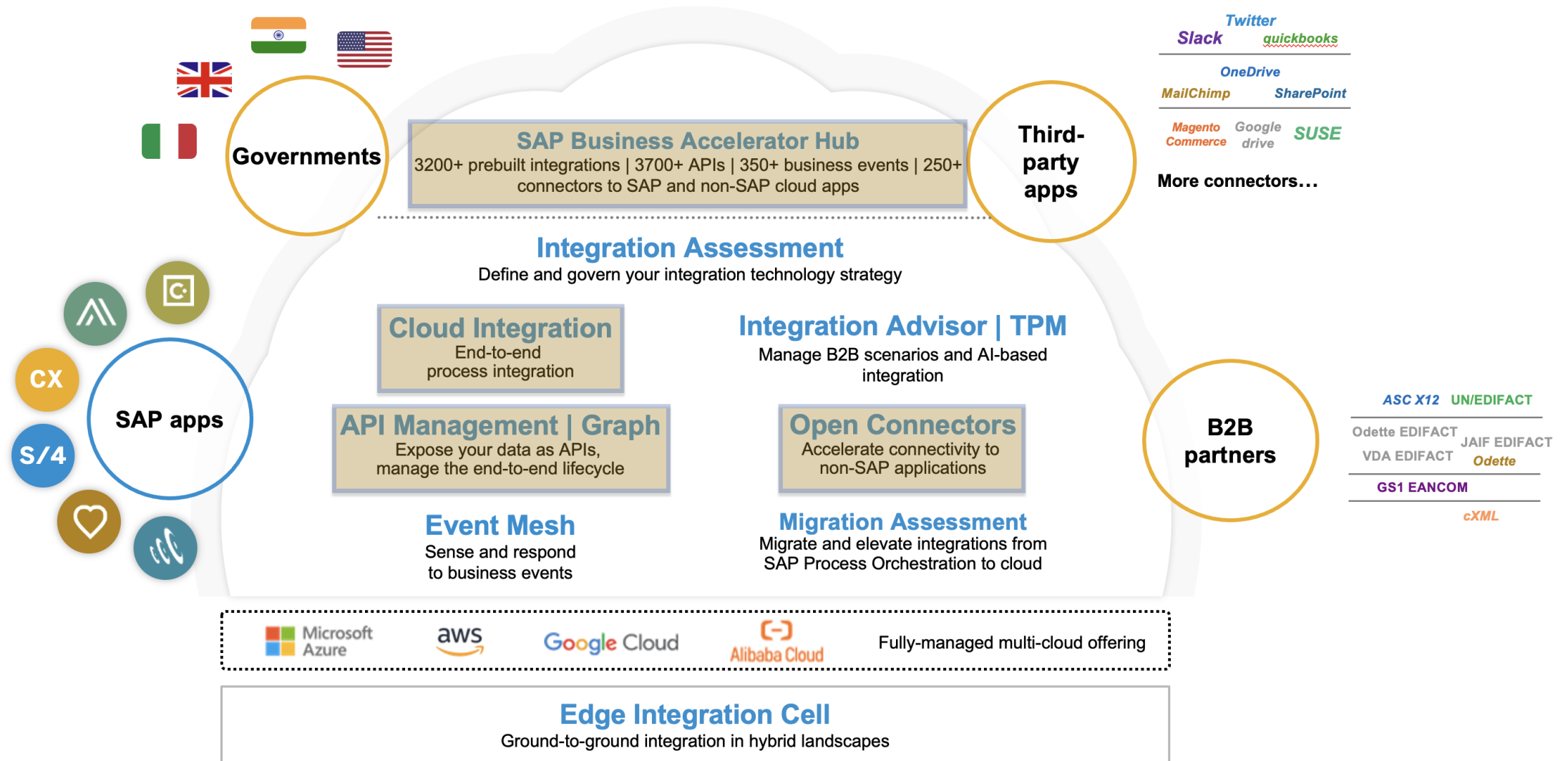
SAP CodeJam - Agenda

- *13:00* - Introduction
- *13:30* - Exercise 01 - 04
- *15:00* - Break
- *15:30* - Exercise 05 - 06

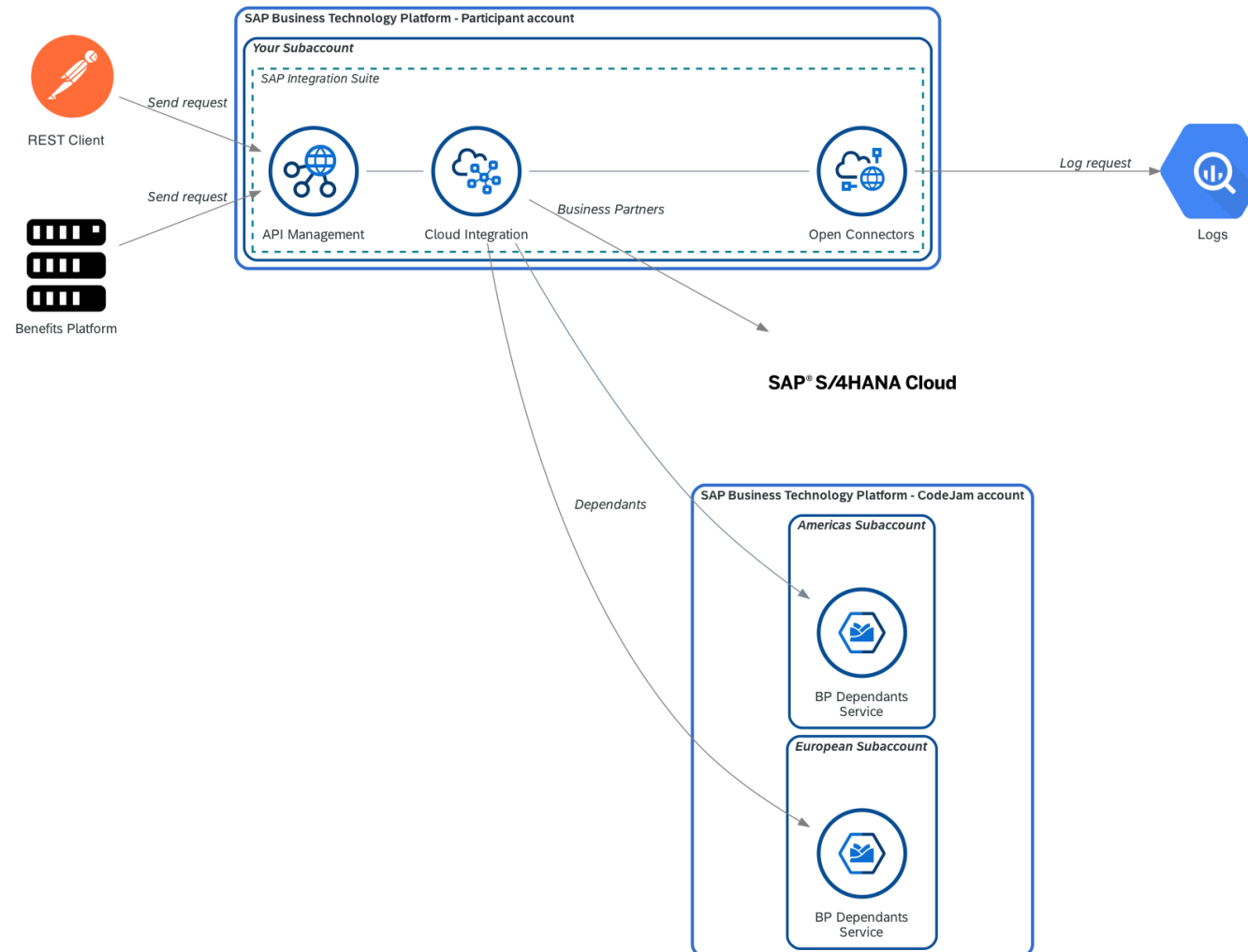
SAP Integration Suite




SAP Integration Suite




SAP CodeJam - Integration scenario



SAP CodeJam - Repository

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main 1 branch 0 tagsGo to fileAdd fileCode

 **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

ReadmeApache-2.0 licenseCode of conduct2 stars8 watching1 fork

Contributors 2

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 **btbernard** Brian Bernard

SAP CodeJam - Exercises

- Exercise 01 - Getting familiar with the SAP Business Accelerator Hub (20')
- Exercise 02 - Exploring the mock services (20')
- Exercise 03 - Build our first integration flow (30')
- Exercise 04 - Send messages and monitor our integration flow (20')
 - Exercise 04.1 - Retrieve Business Partner dependant's information (45')
 - Exercise 04.2 - Add the America's instance of the Business Partner Dependants service (30')
- Exercise 05 - Log service call in Google BigQuery (Open Connectors) (20')
- Exercise 06 - Expose integration flow via API Management (30')
- (Optional) Exercise 01 - Running locally services used in CodeJam

Exercise 01 - Getting familiar with the SAP Business Accelerator Hub (20')

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 'Sort by: A-Z'. A search bar (highlighted with an orange box) contains the text 'Business Partner'. The results are displayed as three cards. The first card, 'Business Partner (A2X)' (highlighted with a green box), is an ODATA V2 API with version 1.2.1. The second and third cards are ODATA V4 APIs for 'Contract Accounting Business Partner Payment – Manage', with versions 2.0.0 and 1.1.0 respectively. 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

ODATA V2 API

Business Partner (A2X)

Create, read, update or delete the master data for business partner, supplier or customer using this synchronous inbound service

Version 1.2.1

ODATA V4 API

Contract Accounting Business Partner Payment – Manage

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

ODATA V4 API

Contract Accounting Business Partner Payment – Manage

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 (20')

Explore [Invite](#) [Upgrade](#)

Overview [GET All Business Partners](#) + ... S4-BP-Mock-Server

connecting-services-integration-suite-cod... / s4-bp-mock-ser... / All Business Partn... [Save](#) [Edit](#) [Share](#)


GET [Send](#)

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

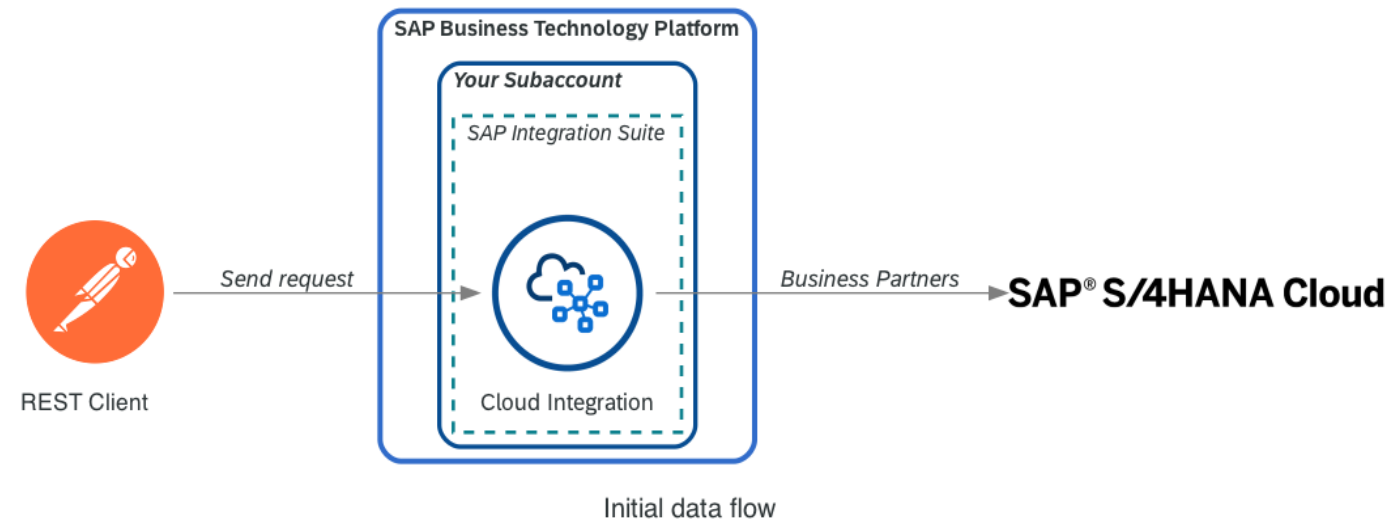
Query Params

KEY	VALUE	DESCRIPTION	...	Bulk Edit
Key	Value	Description		

Response


Click Send to get a response

Exercise 03 - Build our first integration flow (30')



Exercise 04 - Send message and monitor our integration flow (20')

The screenshot displays the SAP Cloud Integration Studio interface. On the left, the 'Mock Servers' sidebar shows a collection of mock services, including 'GET Request Employee Dependants'. The main workspace is configured for a REST client with the following details:

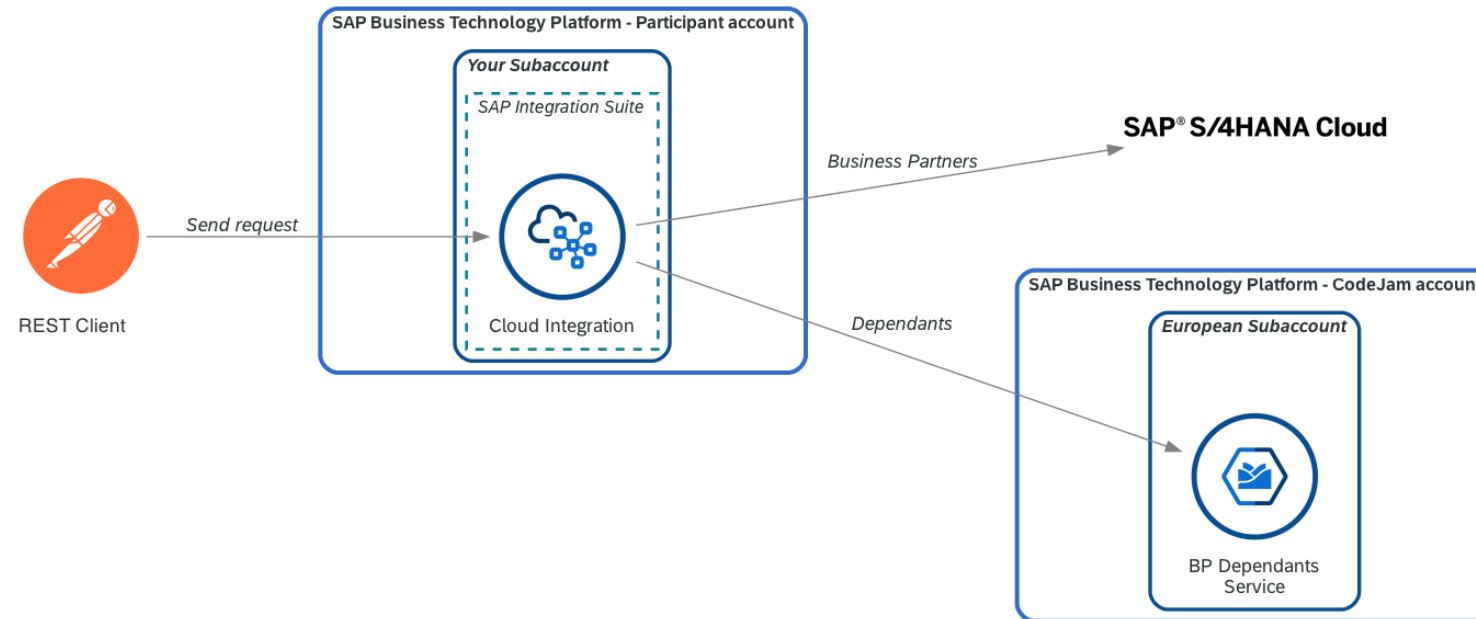
- Instance:** PI-RT-DevAdvocatesFreeTier [Cloud Integration Instance]
- Method:** GET
- URL:** `{{host}}/http/request-employee-dependants`
- Body:**

```
{
  "employee_id": "1003764"
}
```

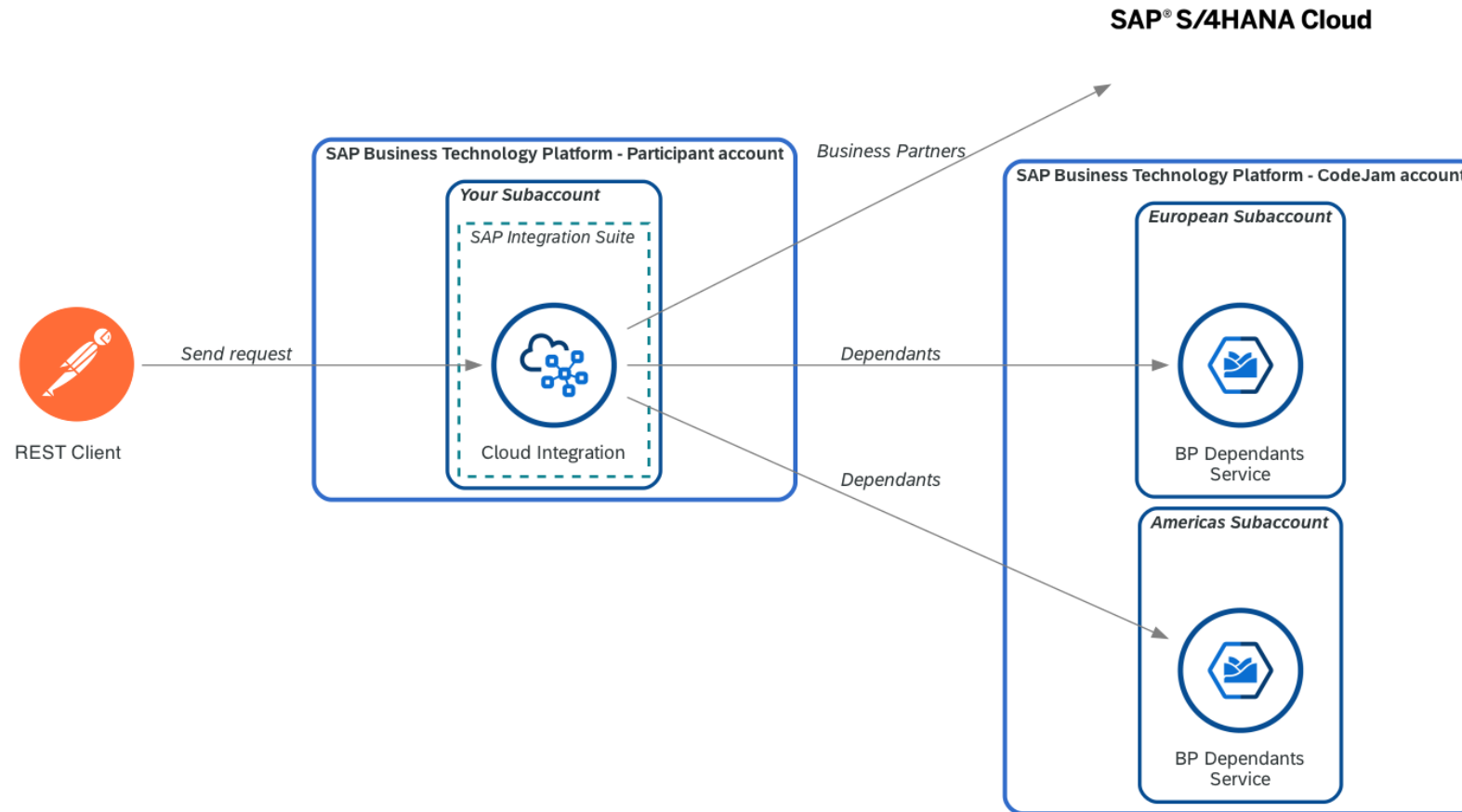
The 'Send' button is highlighted with a green border. Below the configuration, the response is shown in the 'Body' tab, indicating a successful 200 OK status with a response time of 1054 ms and a size of 6.63 KB. The response body is displayed in JSON format:

```
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": ""
13  }
14 }
```

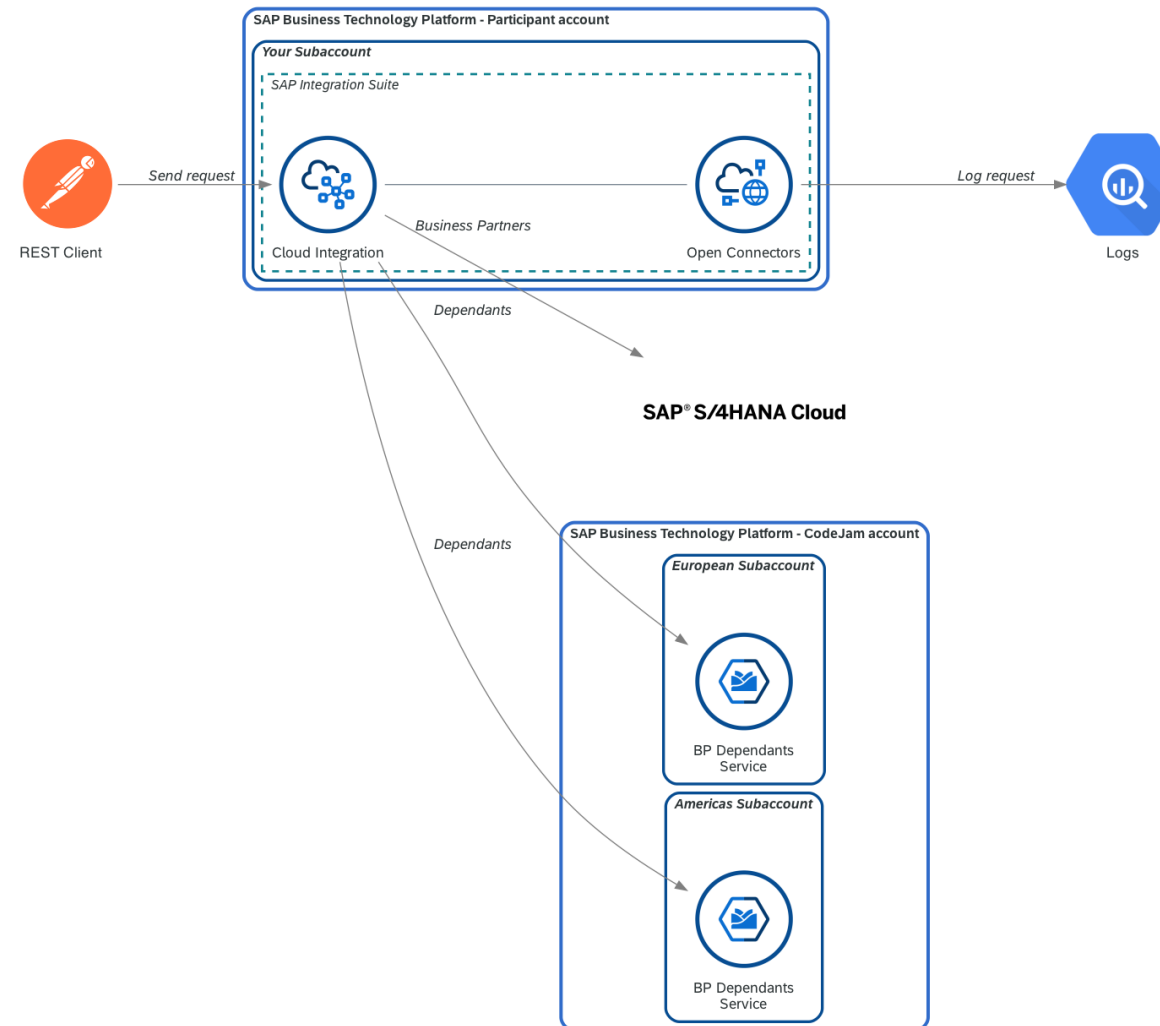
Exercise 04.1 - Retrieve Business Partner dependant's information (45')



Exercise 04.2 - Add the America's instance of the Business Partner Dependants service (30')



Exercise 05 - Log service call in Google BigQuery (20')



Exercise 06 - Expose integration flow via API Management (30')

[illegible]

**Thanks for
attending!!!**

