ORACLE

Oracle Integration Cloud

Integrate and Extend Oracle SaaS

Agenda

1 Oracle Integration Cloud - Overview

2 Integrate ERP Cloud with OIC
- 2.1 Use Case 1-FBDI
- 2.2 Use Case 2-FA APIs
- 2.3 Use Case 3-Business Event

3 Extend ERP Cloud with OIC

4 Summary

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Oracle Integration

Connect applications and automate end-to-end business processes

Oracle Integration

Possibilities

- Mobile
- Digital Assistant
- Blockchain
- IoT
- Augmented Analytics

Capability

- Application Integration
- Process Automation
- Visual Builder
- Insight

Prebuilt Connectivity

- Adapters
- B2B
- Recipes
- Business Accelerators
- RPA

Cloud Services

- Runtime
- File Server
- Identity & Access
- Logging & Metrics
- Data Integration
- Security & Audit
- API Gateway
- Functions
- Streaming
- Auto-Scaling
- Machine Learning
- SOA

Deployment Flexibility

- Cloud to Cloud
- Cloud to Ground
- Ground to Ground

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Enterprise connectivity

ORACLE Integration

Prebuilt adapters for cloud, on-premise, Oracle, non-Oracle and custom apps

ERP Connectivity

ERP Cloud
ORACLE NETSUITE
EPM Cloud
Commerce Cloud
Utilities Cloud
Logistics Cloud
ORACLE E-Business Suite
ORACLE JD Edwards
SAP S/4 HANA
SAP Commerce Cloud
SAP Ariba
CONCUR
Shopify

HCM Connectivity

HCM Cloud
Taleo Talent Acquisition Cloud
Taleo Talent Cloud for Midsize
successfactors An SAP Company
workday.

CX Connectivity

Engagement Cloud
CPQ Cloud
Eloqua
Responsys
Marketo
salesforce
PayPal
Field Service Cloud
Service Cloud
Policy Automation
ORACLE Siebel
servicenow

Database Connectivity

Database Cloud
ATP Cloud
ADW Cloud
Database
MySQL
Microsoft SQL Server
IBM DB2

Productivity and Social Connectivity

DocuSign
twilio
facebook
Eventbrite
31 Google Calendar
twitter
Trello
Gmail
Google Tasks
box
MailChimp
MS Contacts
Adobe Sign
MS Email
LinkedIn
SurveyMonkey
MS Calendar

Enterprise Messaging

Apache Kafka
OCI Streaming
JMS, AQ
IBM MQ Series

Technology Connectivity

AS2
REST
FTP
SOAP
SOA Suite
FILE

RPA Connectivity

UiPath
AUTOMATION ANYWHERE

Future Proof

Limit maintenance and upgrade costs
Oracle supported

For more detailed information see here

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Business Accelerators & Recipes

Leverage prebuilt integrations and best practices to accelerate delivery

Business Accelerators

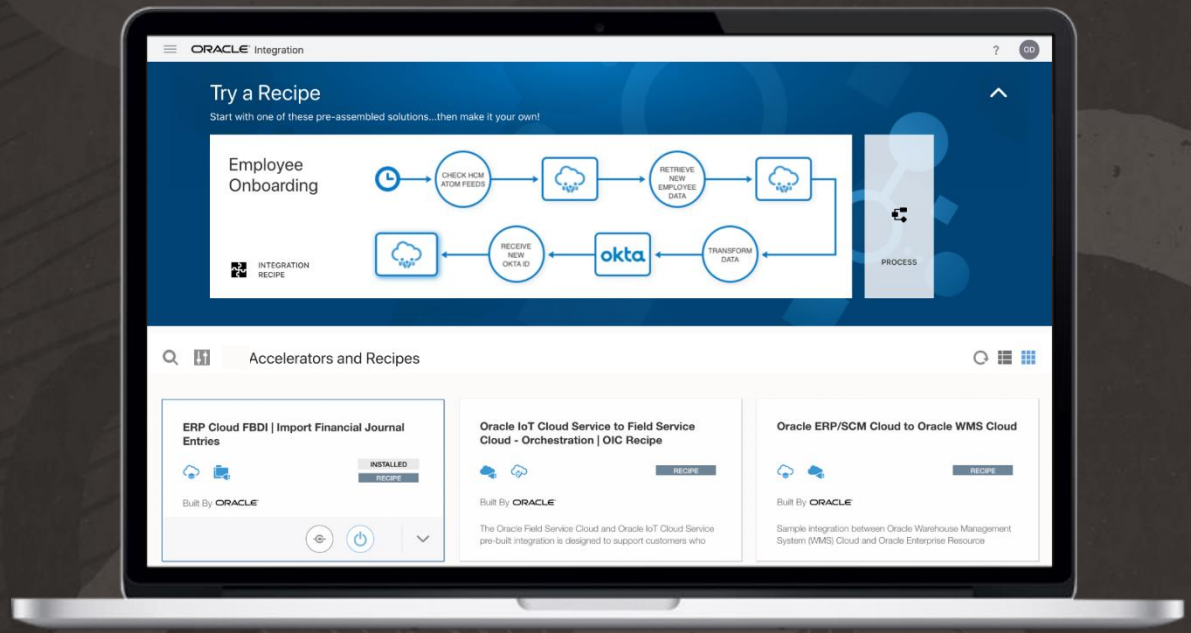
- Complete end-to-end business solution (e.g., opportunity to order)
- Fully supported by Oracle
- Can be customized with fields and mappings
- Fully upgrade-able
- Typically charged separately

Technical Accelerators

- Provides a common technical solution (e.g., sending alerts on failures)
- Configurable and fully supported
- Meant to be called by another integration
- Free of charge

Recipes

- Sample integrations as a quick start or example
- Free of charge
- Selected recipes on Oracle Integration home page and more on Marketplace



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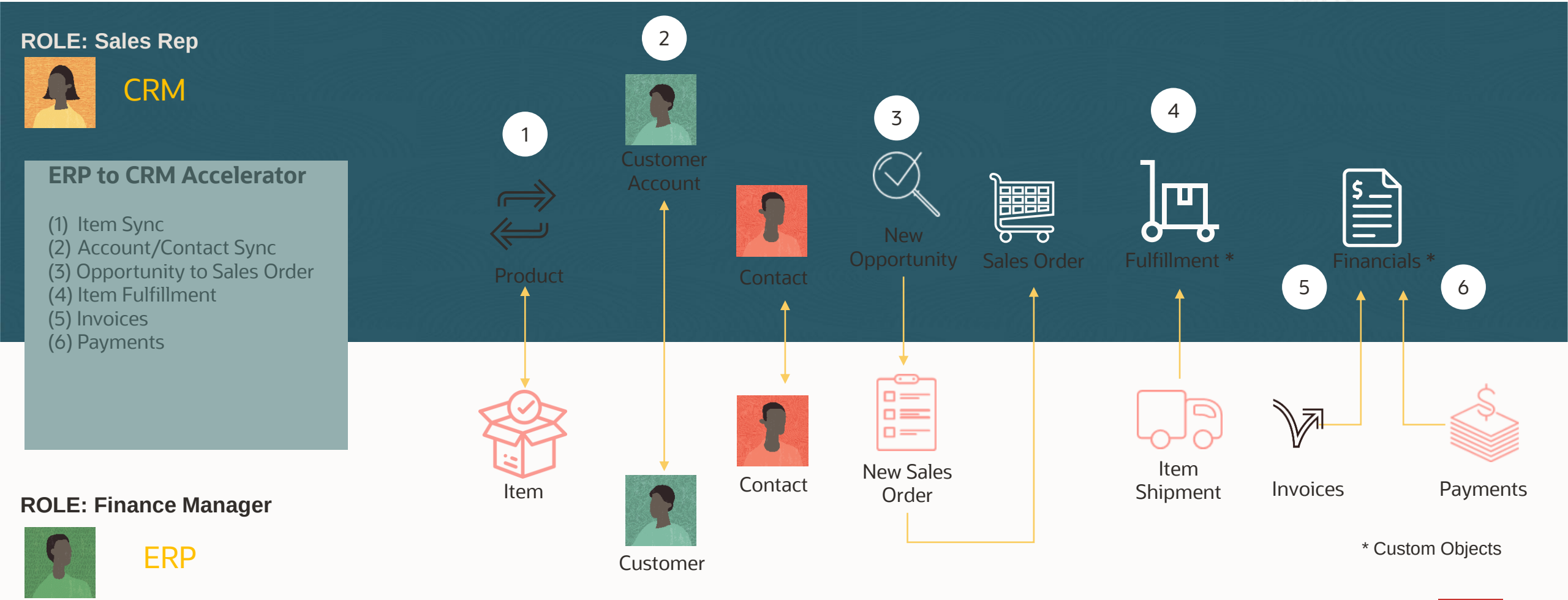
Planned Business Accelerator: ERP Cloud <-> CRM connectivity



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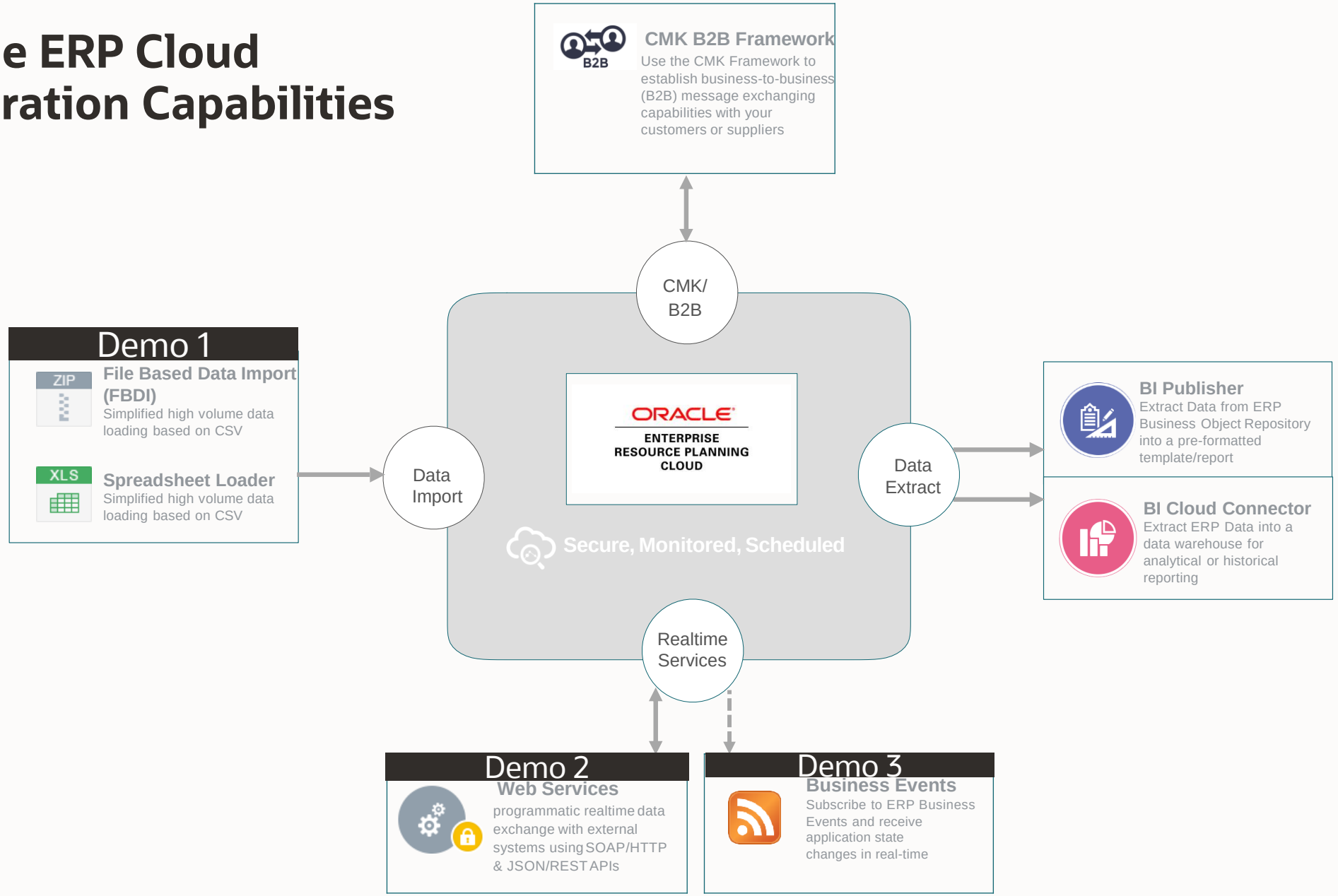
Oracle ERP Cloud Integration Capabilities



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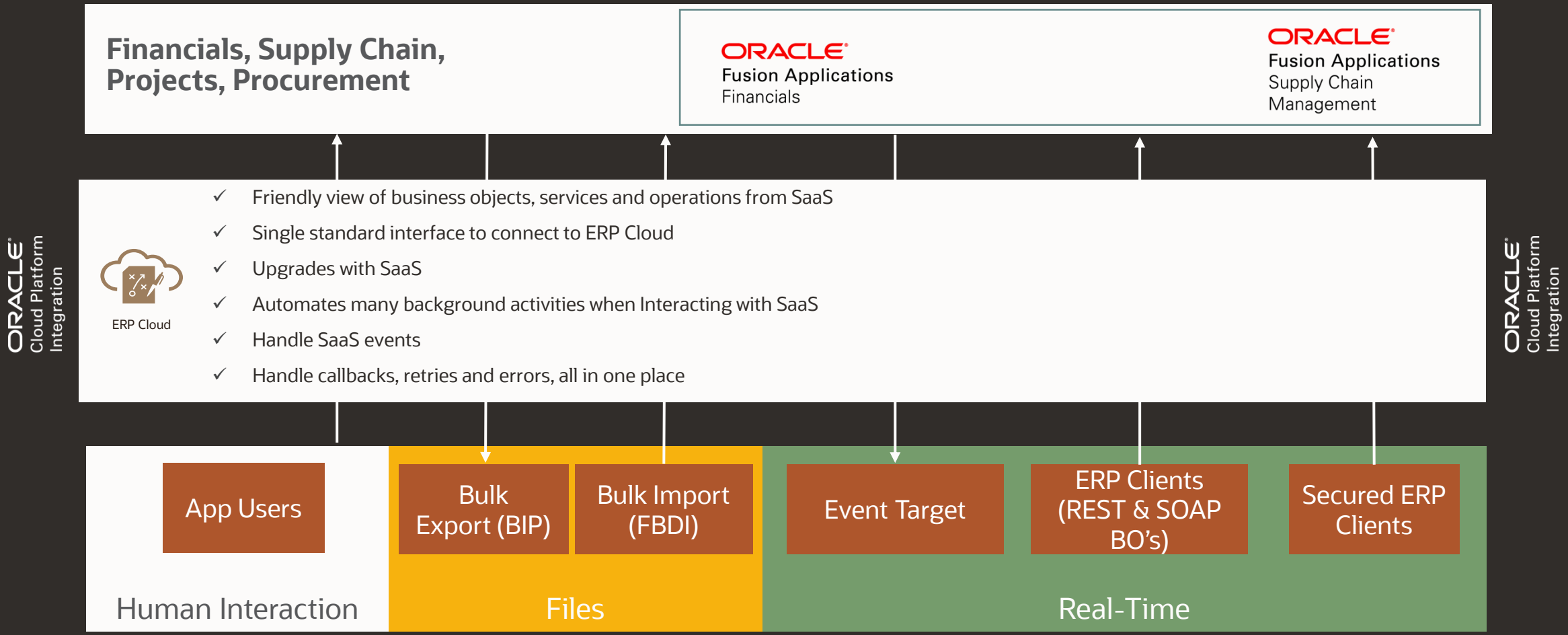
ERP Cloud Integration Architecture Patterns

ERP



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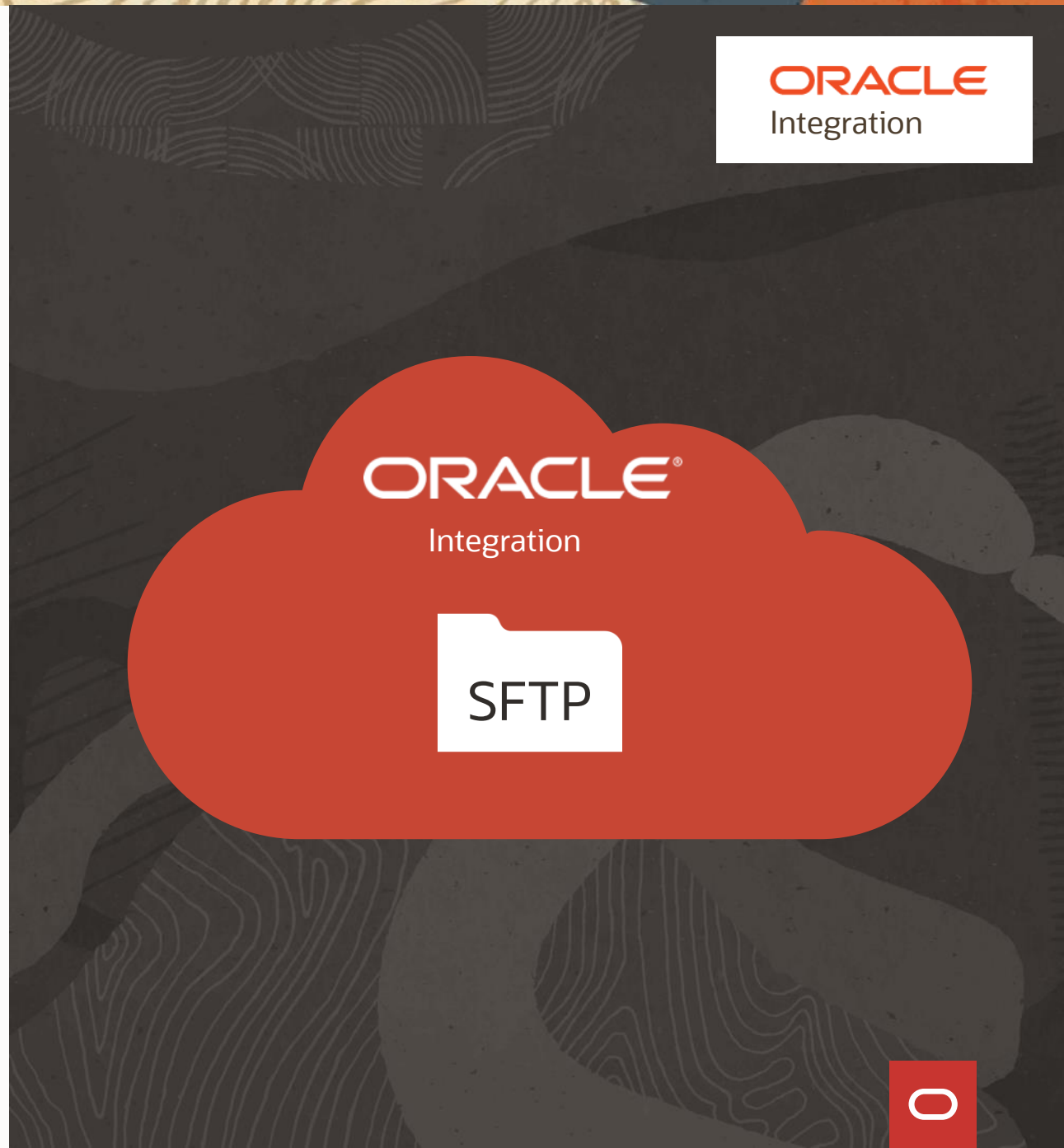
Managed File Transfer

Embedded SFTP Server

- Included at **no extra cost**
- **Integrated** within Oracle Integration
- Multiple **Connectivity Options**
- **Manage** and **configure** file server settings, users, groups folders & permissions
- Data at rest **encryption**
- Schedule Transfers
- Design integrations that process files residing in the embedded file server
- Grant access to vendors/ trading partners to upload/download files through SFTP

File Transfer Protocols:

- FTP/SFTP
- HTTP/S
- Generic File



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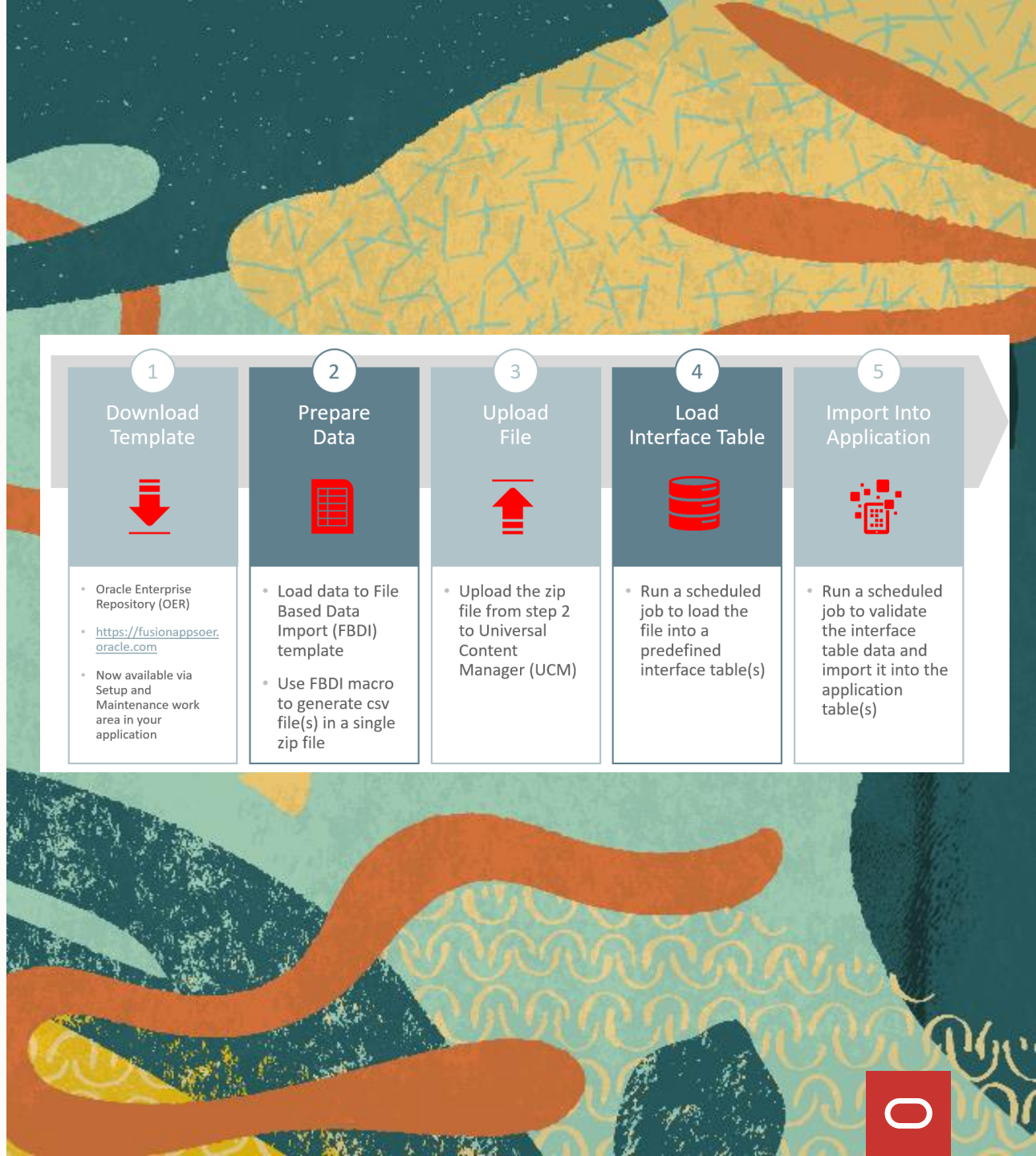
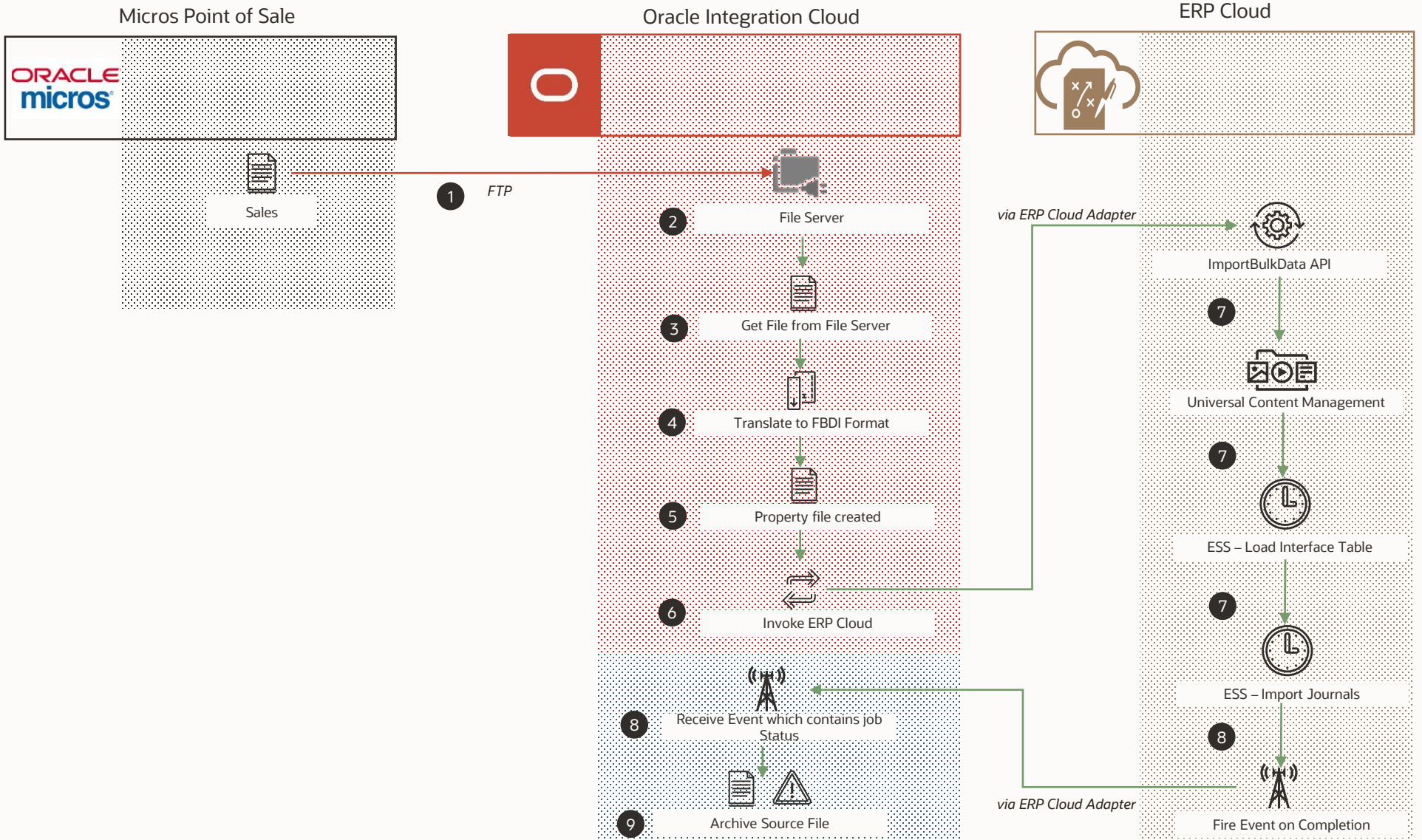
Demo 1: FBDI Import

- Showcase a **recipe** approach to adopting the FBDI pattern
- Discuss the use of the embedded **SFTP** server in this pattern
- Showcase a **GL** and **AP Import** using FBDI
- Go through the **design and development** experience
- Discuss the **mapping** / data **transformation** experience
- Run integration and go over the **monitoring** & **alerting** capabilities
- Discuss the **call-back** capabilities of the OIC ERP Cloud Adapter
- Discuss how the FBDI pattern can be adopted to interface **POS sales information to ERP Cloud**



What would a flow look like that uploads bulk POS sales information into Oracle?



Flow:

1. Sales Information generated by POS and FTP'ed to Oracle Integration Cloud
2. Oracle Integration cloud receives file and triggers integration flow
3. OIC retrieves file from FTP Server
4. OIC will translate the source format to the format required by ERP Cloud (GL/AP INV – FBDI)
5. OIC will create a property file that will tell ERP Cloud about the parameters that the import job should be run with
6. OIC will package the data files & property file in a zip archive and use this file to trigger ERP Cloud. Import job specified in adaptor.
7. ERP Cloud will load the received file(s) to UCM and subsequently invoke the Load Interface file to Table job which will load the data from the data files to the staging table for Payable Invoices. Finally the Import Payables job will be triggered which performs all business validation. If successful the data will end up in the application table(s)
8. Once ERP Cloud is complete with its processing it will fire a business event which will notify a separate OIC integration. This business event will carry the status of the ESS job
9. OIC can archive the file on success or alert the business on error

Oracle Integration Cloud:

- ✓ Streamline FBDI process
- ✓ No need to poll for job completion
- ✓ ERP Callback capability
- ✓ Encourages event-driven architecture

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Demo 2: Web services (REST/SOAP)

- Discuss what **Oracle Fusion APIs** are **available** and how they can be used.
- Showcase an integration that is exposed as a **REST** service
- Discuss how OIC can interact with the **ERP Cloud REST / SOAP APIs**
- Go over how we can **test** these integrations and **error handling** patterns
- Touch on API Lifecycle Management

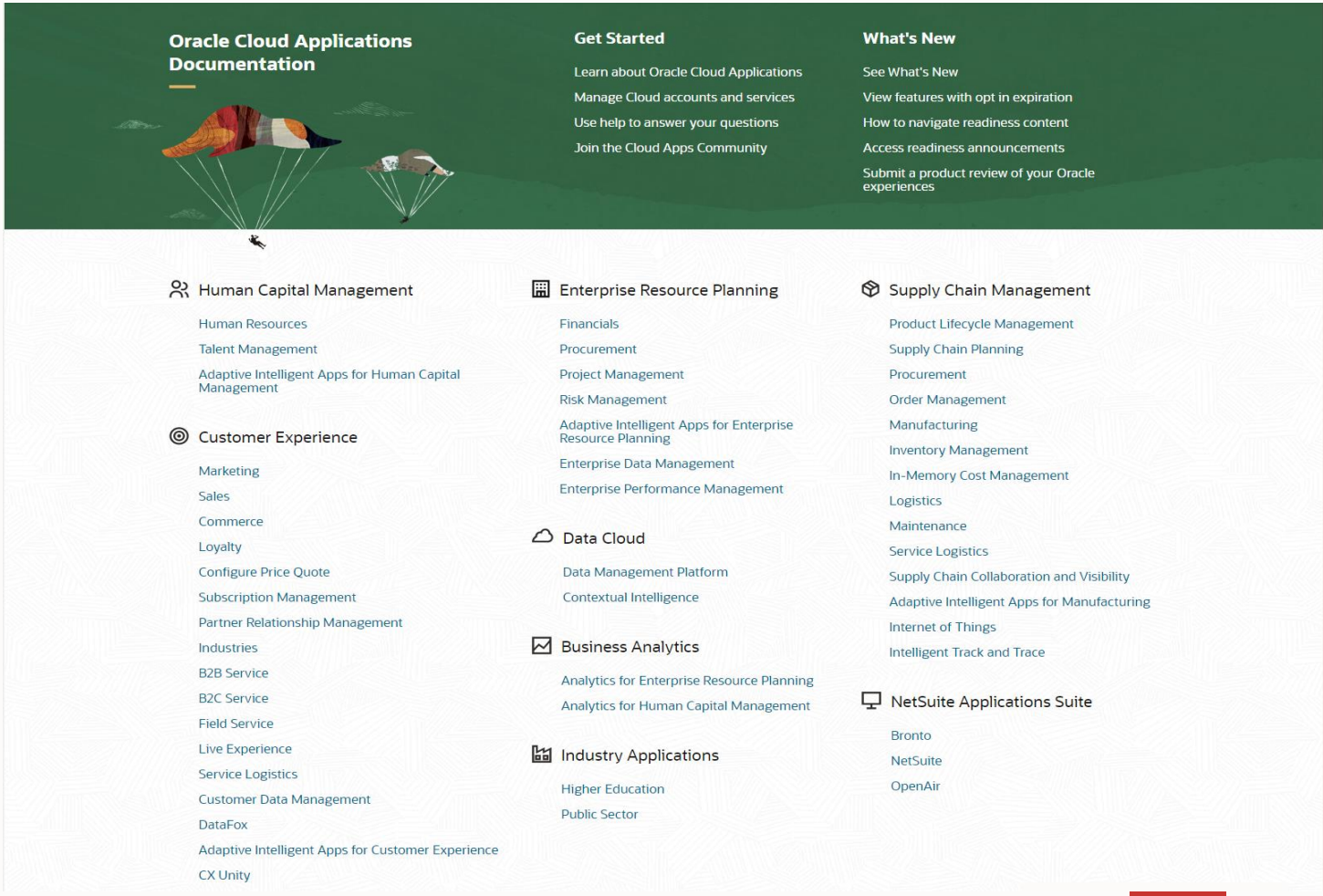
What Oracle Fusion APIs are available?

Oracle cloud Applications APIs:

https://docs.oracle.com/en/cloud/saas/index.html

Enterprise Resource Planning:

- Financials: https://docs.oracle.com/en/cloud/saas/financials/21a/farfa/index.html
- Procurement: https://docs.oracle.com/en/cloud/saas/procurement/21a/fapra/index.html
- Project Management: https://docs.oracle.com/en/cloud/saas/project-management/21a/api.html
- Risk Management: https://docs.oracle.com/en/cloud/saas/risk-management/21a/farkm/index.html



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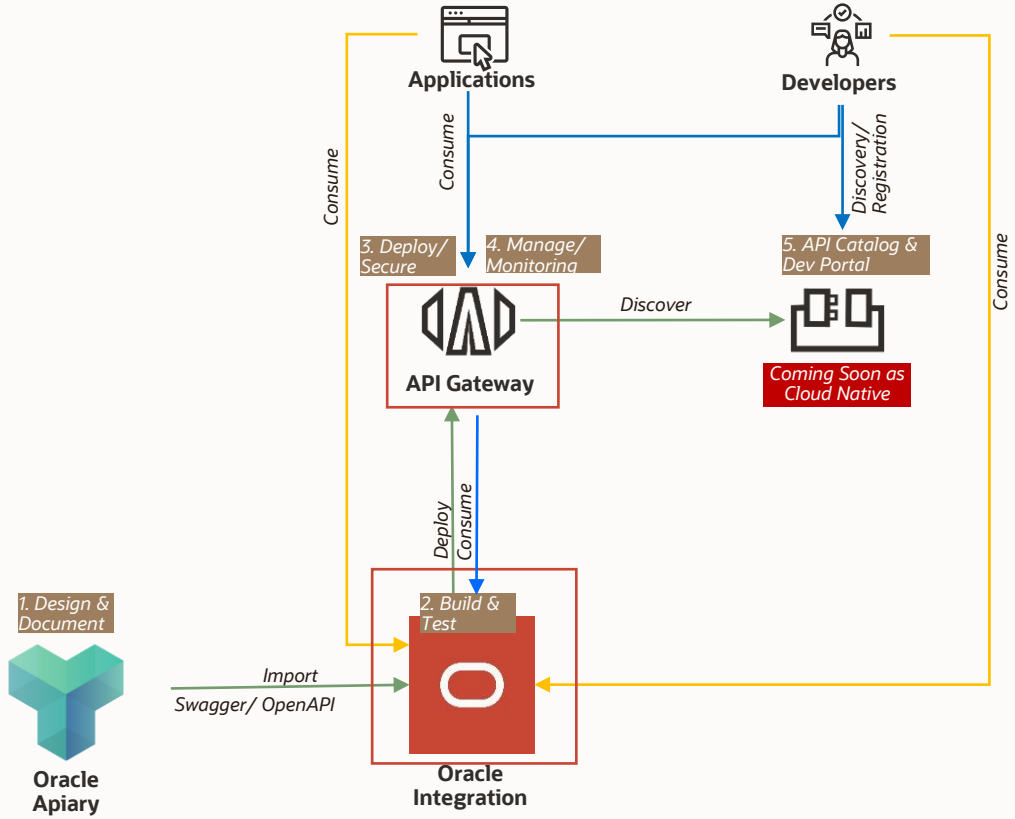
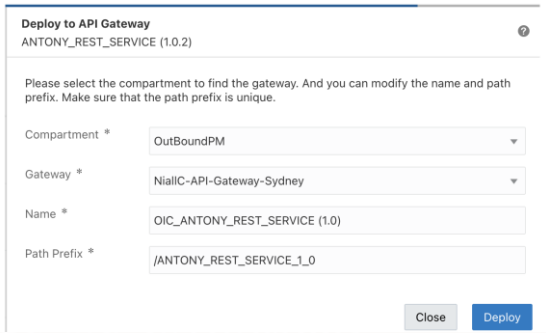
API Lifecycle Management



- **Design & Document your API :**
  - Oracle APIARY provides:
    - Create, Collaborate & Test new APIs
    - Interactive documentation
    - Mock Server & GitHub integration
- **Create an Integration by:**
  - Importing a definition:
    - Open API (1.0/2.0/3.0)
    - RAML URL
    - SWAGGER URL
    - METADATA CATALOG URL
  - Defining your own request/ response
  - Apply security policy at an integration level



- **Deploy Integrations to OCI API Gateway:**
  - Configure your OCI tenancy connection
  - Build and Activate your App driven integration
  - Deploy your integration to your desired OCI API Gateway within OIC with just a few clicks
- **OCI API Gateway**
  - Oracle Managed & Cloud Native
  - Provides additional security, mediation and monitoring capabilities for integrations exposed from OIC
  - Private and Public
  - Custom Domains
  - Access & Execution Logging

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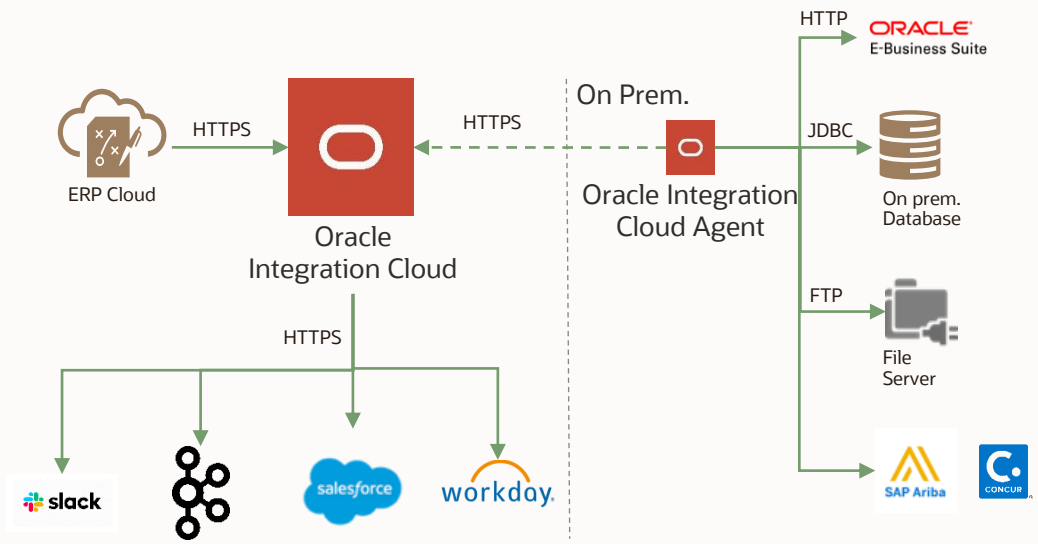
Demo 3:

- Showcase how **Business Events** can be consumed with OIC
- Discuss how these can be used to establish **event-driven** integration patterns or business notifications

Use Case 3-Business Events



1. *Setup your OIC instance as a subscriber in FA*
2. *Select the desired Business Event that you want to subscribe to via OIC's ERP Cloud Adapter*
3. *Configure / customize your event notification in FA*
4. *Activate your integration and receive events*
5. *Deliver those events to wherever you like*

Oracle ERP Cloud can send business events that:

- Trigger an OIC integration whenever a business event (e.g. AP Invoice Approval, Expense Report Submitted, Project Status Change, etc.) occurs in ERP Cloud
- Custom business events (configured through application composer) are supported
- Filter events based on the event type or their payload data
- OIC can broadcast events to multiple down-stream systems
- ONLY integration platform that can subscribe to ERP Cloud events
- For a list of supported business Events please see: Supported SCM and Procurement Business Events and Supported Financials Business Events.

Manufacturing	Maintenance	Inventory Mgmt.	
GL	Procurement	Product LCM	Order Mgmt.
Projects	Expenses	Receivables	Payables

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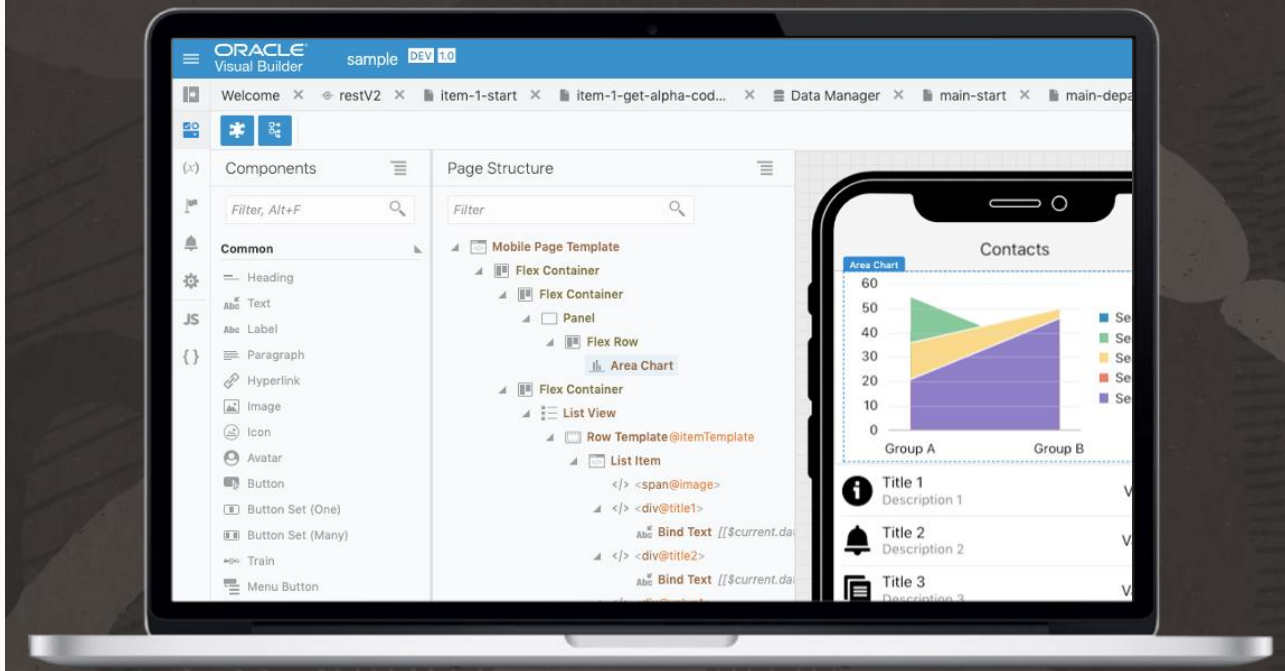
ORACLE Integration

Visual app builder

Connected Mobile & Web Apps in Minutes

- **Discover** Oracle SaaS business objects
- **Surface and reuse** process automations
- **Build** with intuitive drag & drop model
- **Securely enrich** SaaS for digital processes
- **Extend** via JavaScript, REST, HTML, CSS



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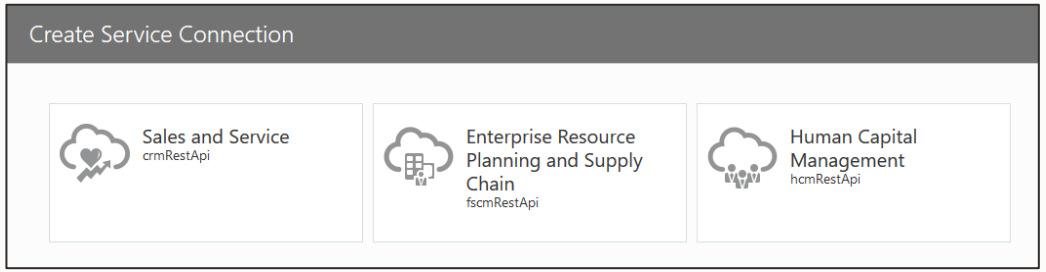
SaaS Extensions with OIC's Visual Builder

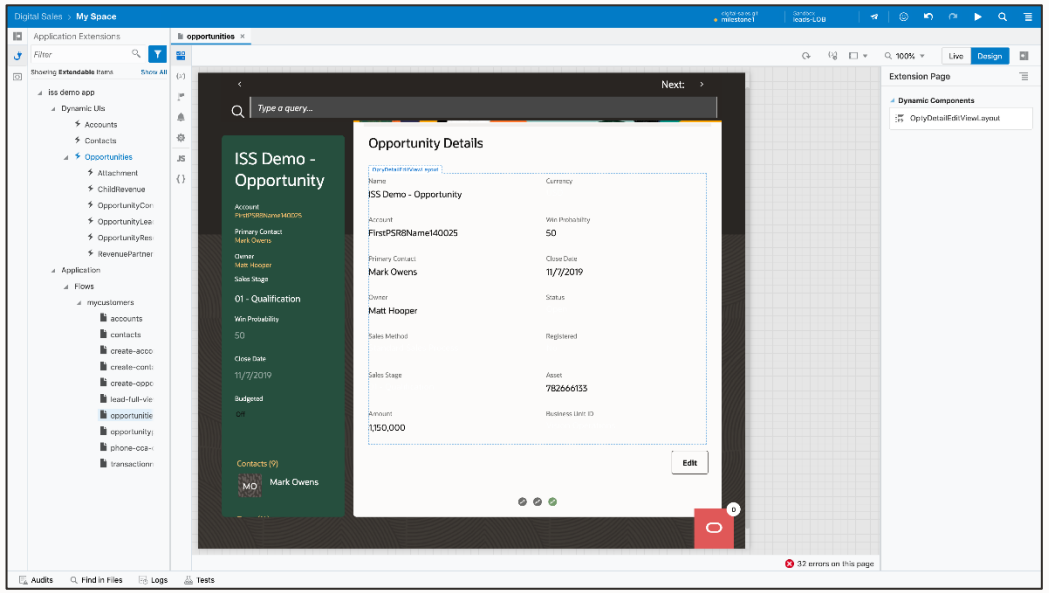
When Do Customers Use Visual Builder with Oracle SaaS?

- Tailored UI for specific tasks
- Extend Oracle SaaS for unique business processes
- Combine SaaS and external data in a single UI
- External facing apps with SaaS data
- Multi-channel access to data



Oracle SaaS support in VBCS

- Fusion apps modules developed with Visual Builder
- SaaS UI Template
- Visual Builder invoked directly from SaaS UI
- Pre-populated Service Catalog
- Single-sign-on



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Extend HCM with apps to meet specialized requirements

- Modernized user experience
- Small team delivered several apps quickly with high-productivity JavaScript development
- HCM Extensions
  - HR Suspense
  - Time Suspense
  - Rapid Time
  - Stores not Polled
  - Time Submission
  - Cross Reference Applications
  - Monitoring

- **Solution**: Oracle Visual Builder, Java Cloud, Database Cloud, HCM Cloud

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ORACLE
Integration

The Oracle edge

OIC differentiators when it comes to SaaS

1. OIC has unparalleled adaptor **coverage** of Oracle on-prem. and SaaS applications
2. OIC is the only platform that has **feature rich adaptors** for Fusion(ERP/SCM/ HCM) Cloud
3. OIC is the only integration platform that can consume **outbound events** from Oracle ERP Cloud
4. OIC is the best platform to create **SaaS extensions**
5. Oracle **Managed** complete IPaaS solution

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Oracle Integration accelerates your digital business

Deliver faster

- Cut time to deliver by 6X – 10X
- See changes in minutes, not months
- Rapid issue response with human-in-the-loop

Control costs

- Limit cost of enterprise and industry compliance
- Reduce cost of technical development
- Minimize upgrade testing and validation

Limit risk

- Simplify technical complexity to deliver
- Mitigate multi-cloud and hybrid identity exposure
- Leverage best practices to avoid delays

Future proof

- Gain quick wins and scale on demand
- Include RPA, Blockchain, Digital Assistants, IoT
- Swap task implementations in digital processes

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Oracle named a leader for the fourth year in a row

Sept. 2020 Gartner Magic Quadrant for Enterprise Integration Platform as a Service

"Gartner estimates that the iPaaS market approached $2.5 billion in revenue during 2019 and grew by approximately 48%, compared with 2018. We estimate that the iPaaS market will reach over $5.6 billion in revenue by 2024 (see Forecast: Enterprise Infrastructure Software, Worldwide, 2018-2024, 2Q20 Update)."

Link to Gartner Magic Quadrant report

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Get Started Today

Learn More

oracle.com/integration

See How it Works

Avatar-led integration demo

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