

# Hybrid Apps Integration Design Patterns

Cloud Integration

Sid Joshi  
Solution Engineer

July, 2019

 [www.linkedin.com/in/sid-joshi](https://www.linkedin.com/in/sid-joshi)

 @SidJoshi\_uk

**ORACLE**

# Safe Harbor Statement

The following is intended to outline our general product direction. It is intended for information purposes only, and may not be incorporated into any contract. It is not a commitment to deliver any material, code, or functionality, and should not be relied upon in making purchasing decisions. The development, release, and timing of any features or functionality described for Oracle's products remains at the sole discretion of Oracle.



# Business Challenges



**50%**  
time and cost

“Through 2020, integration work will account for 50% of the time and cost of building a digital platform.”

Gartner

## Integration: The Foundation for Digital Business

Source: [www.mx3d.com](http://www.mx3d.com)

**ORACLE**

Copyright © 2019, Oracle and/or its affiliates. All rights reserved.

# Integration Was Complex

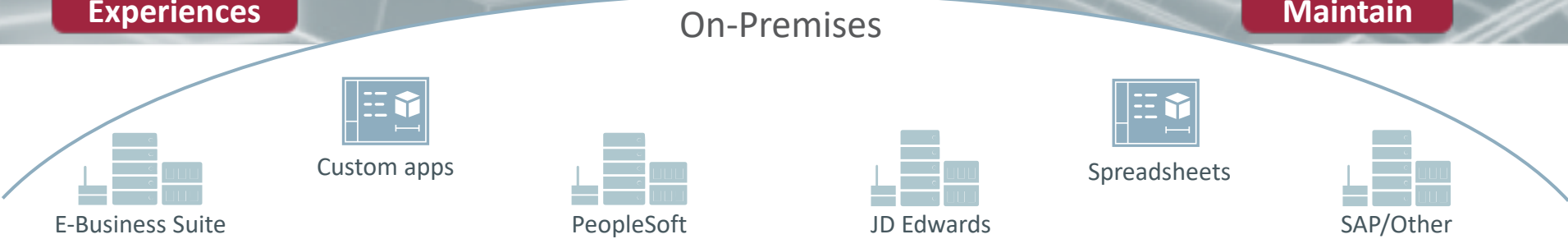


**Fragmented  
Visibility**

**Slow to  
Deliver**

**Inconsistent  
Experiences**

**Costly to  
Maintain**



# What Are Your Digital Business Challenges?

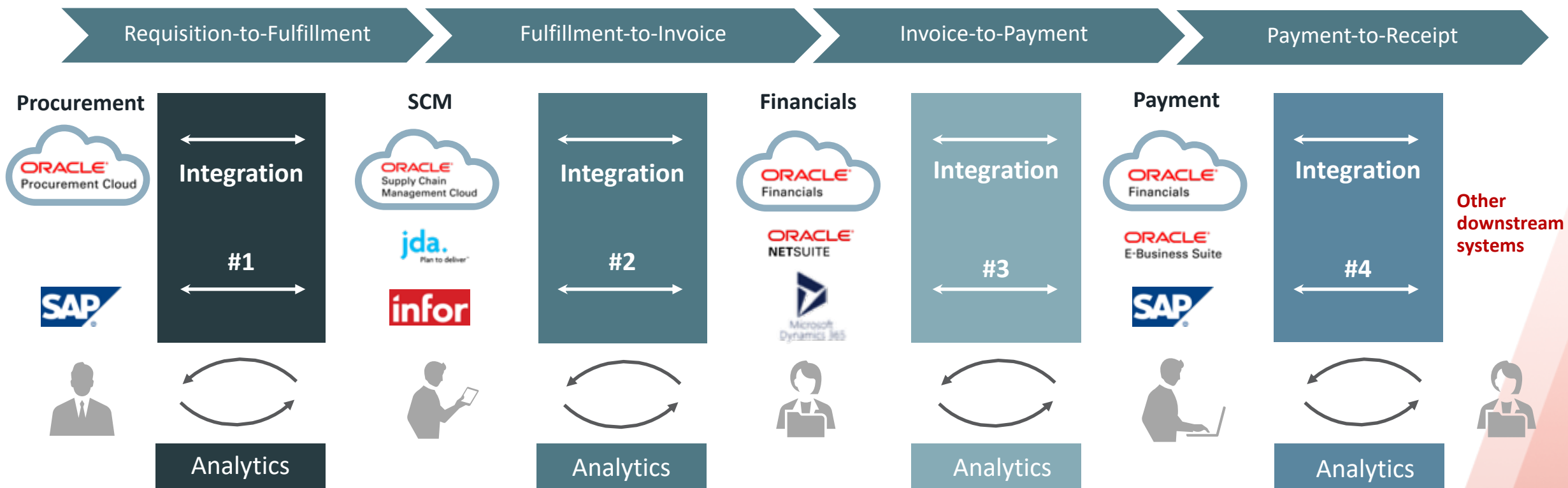
ERP

HCM

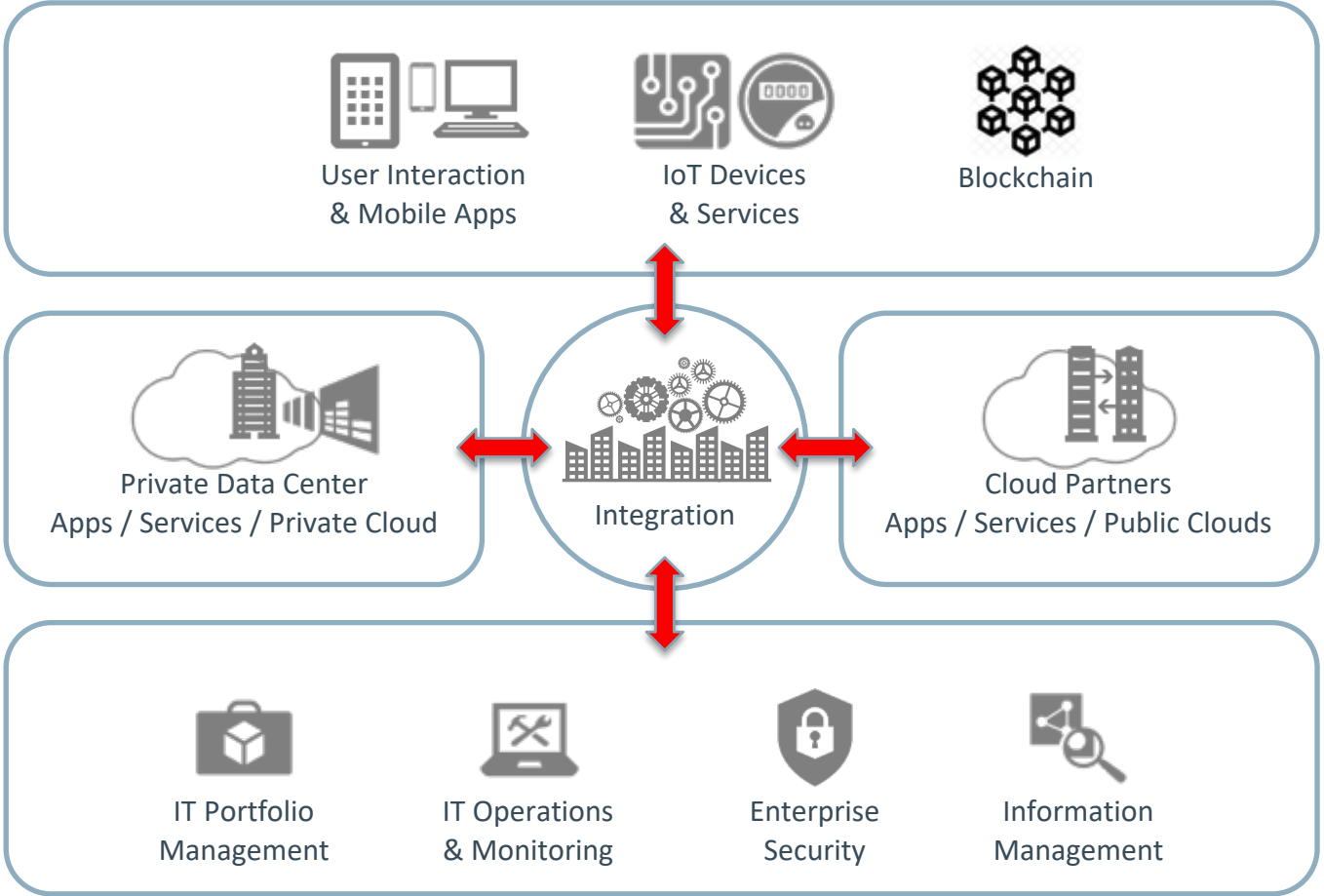
CX

# Yesterday's End-to-End Business Process

## Requisition-to-receipt – decoupled integrations, processes, analytics

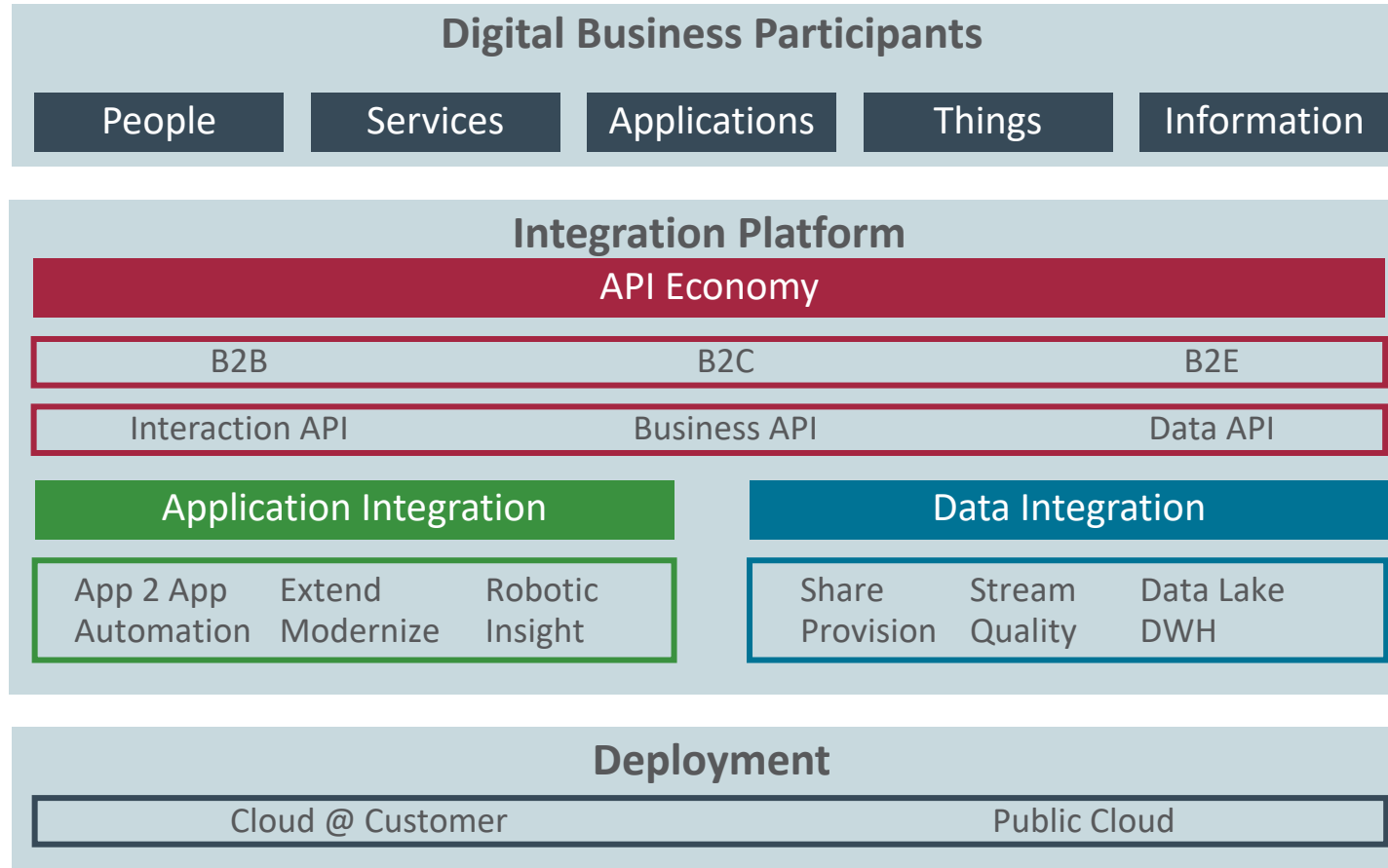


# Integration Platform Concept





# Oracle Integration Platform Layers



# Oracle Integration Platform Capabilities

## API Economy



A grid of 12 red rounded square icons representing API Economy capabilities. Each icon contains a white symbol and a text label below it.

- Manage API Lifecycle
- Design and Mock-Test API
- Document API
- Build and Test API
- Deploy and Publish API
- Secure API
- API Inventory and Catalog
- Discover API
- Consumer Registration & Management
- API Analytics
- API Routing & Load Balancing
- API Policy Management

## Application Integration



A grid of 20 green rounded square icons representing Application Integration capabilities. Each icon contains a white symbol and a text label below it.

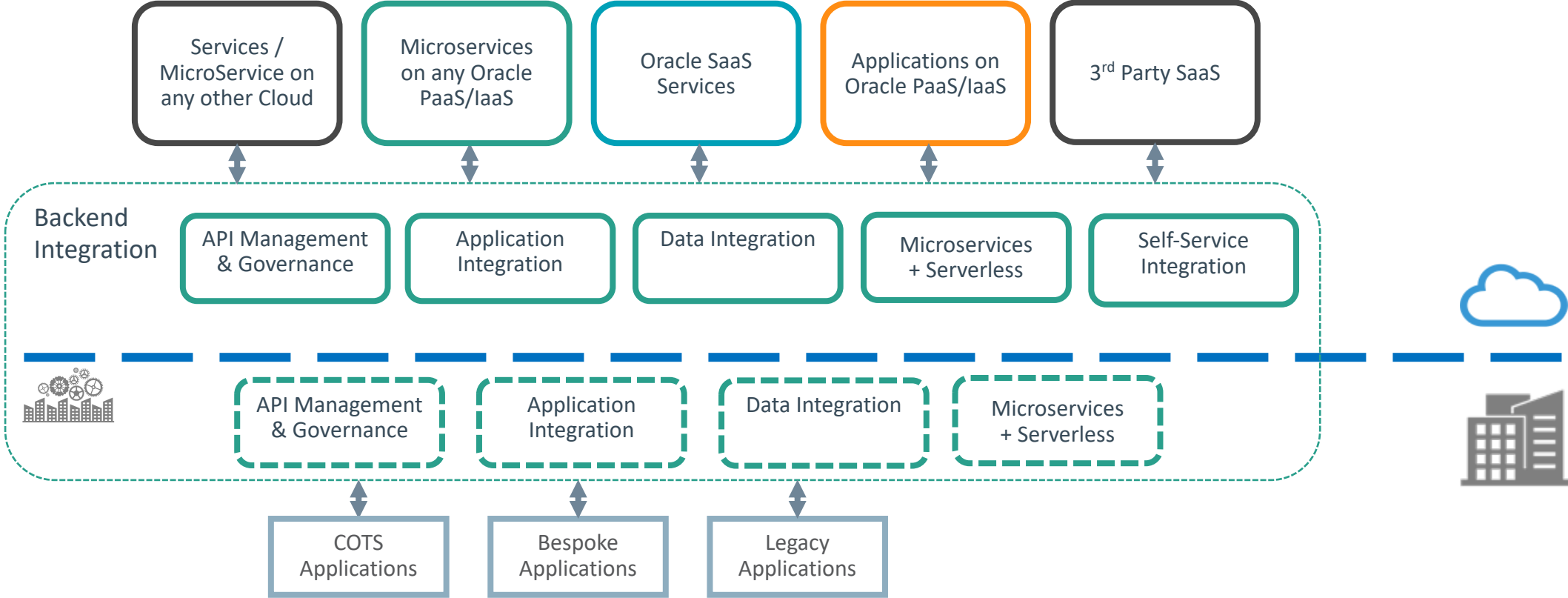
- Orchestration
- Process Automation
- UI based Integration
- File based Integration
- Message based Integration
- Case Management with Next Best Action
- Stream Analytics
- Real-time Data Replication
- Bulk Data Movement
- Data Streaming
- Transform Pushdown E-LT / ETL
- Application and Technology Adapters
- Communication Protocols
- Integration Recipes
- Mapping Recommendations
- Transformations
- Routing & Load Balancing
- Integration Insight
- Data Source Connectivity
- Prebuild Integrations
- Cleans & Match
- Data Profiling

## Data Integration



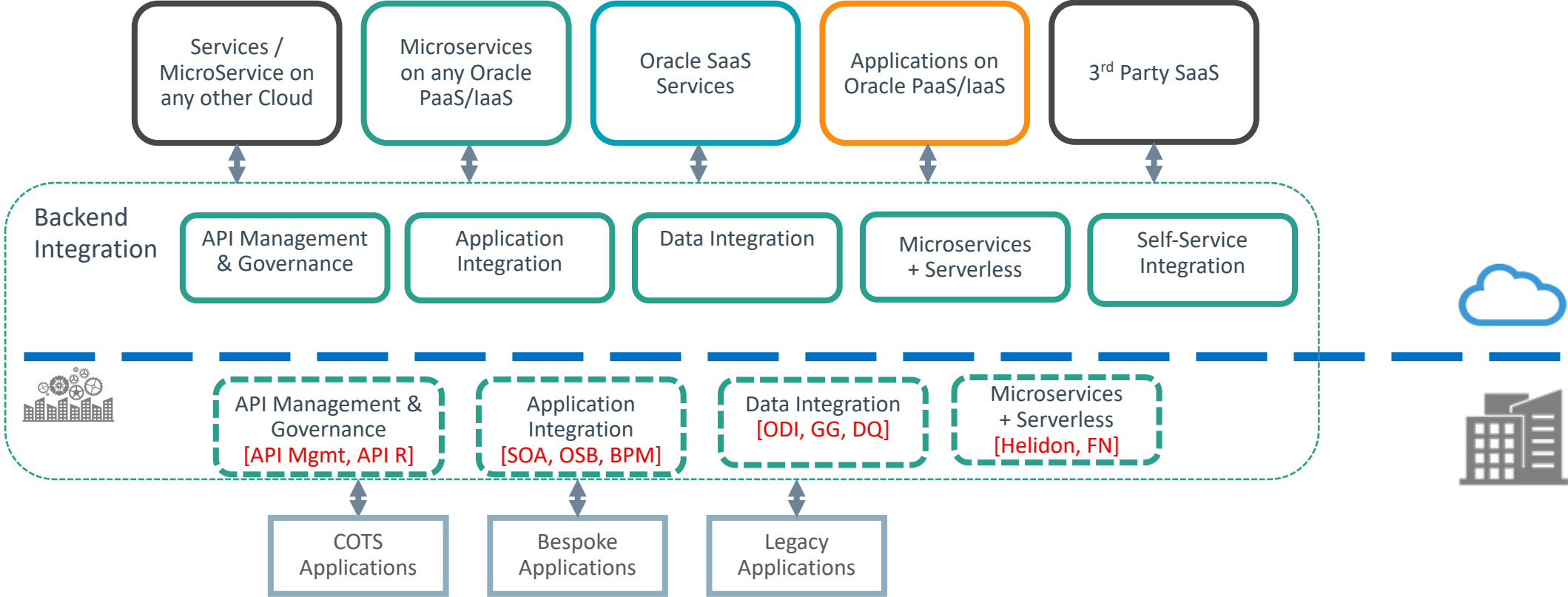
# Hybrid Integration Platform

## Be Prepared for Any Type of Integration Need



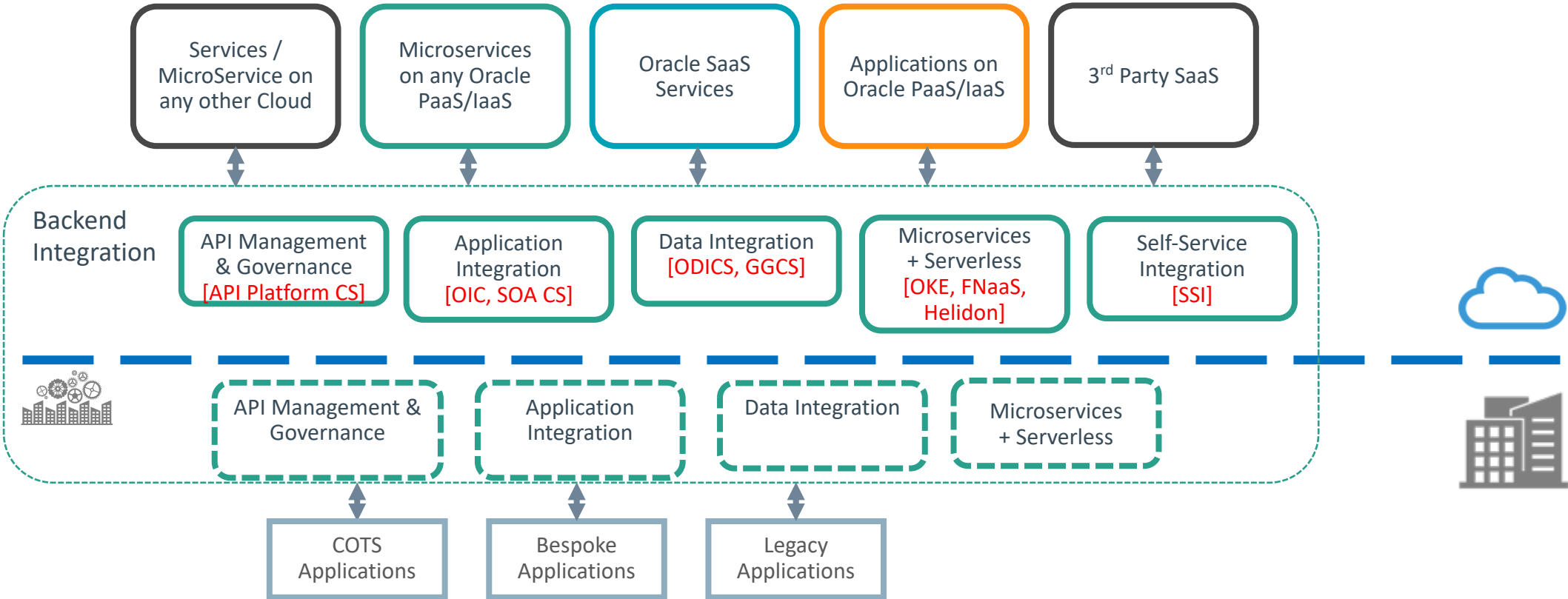
# Hybrid Integration Platform

## Be Prepared for Any Type of Integration Need



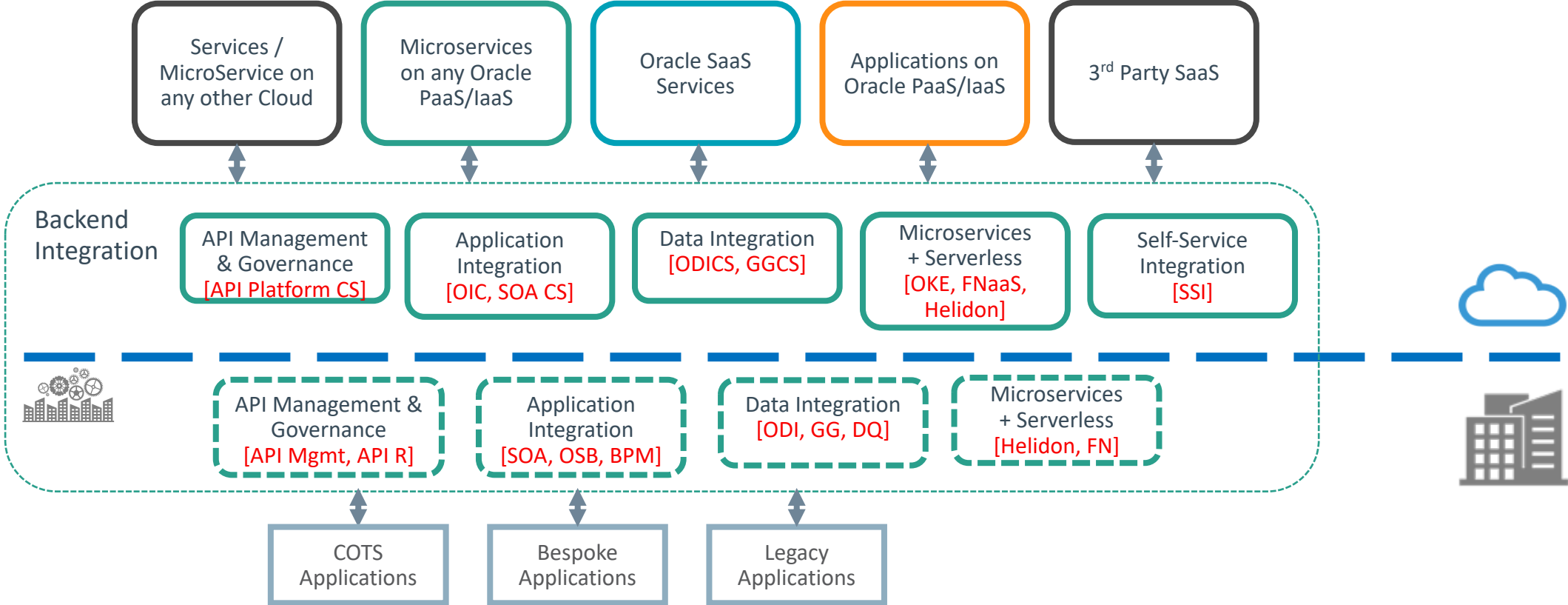
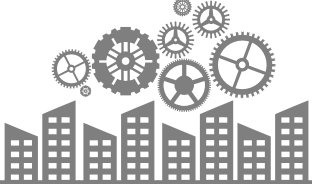
# Hybrid Integration Platform

## Be Prepared for Any Type of Integration Need



# Hybrid Integration Platform

## Be Prepared for Any Type of Integration Need

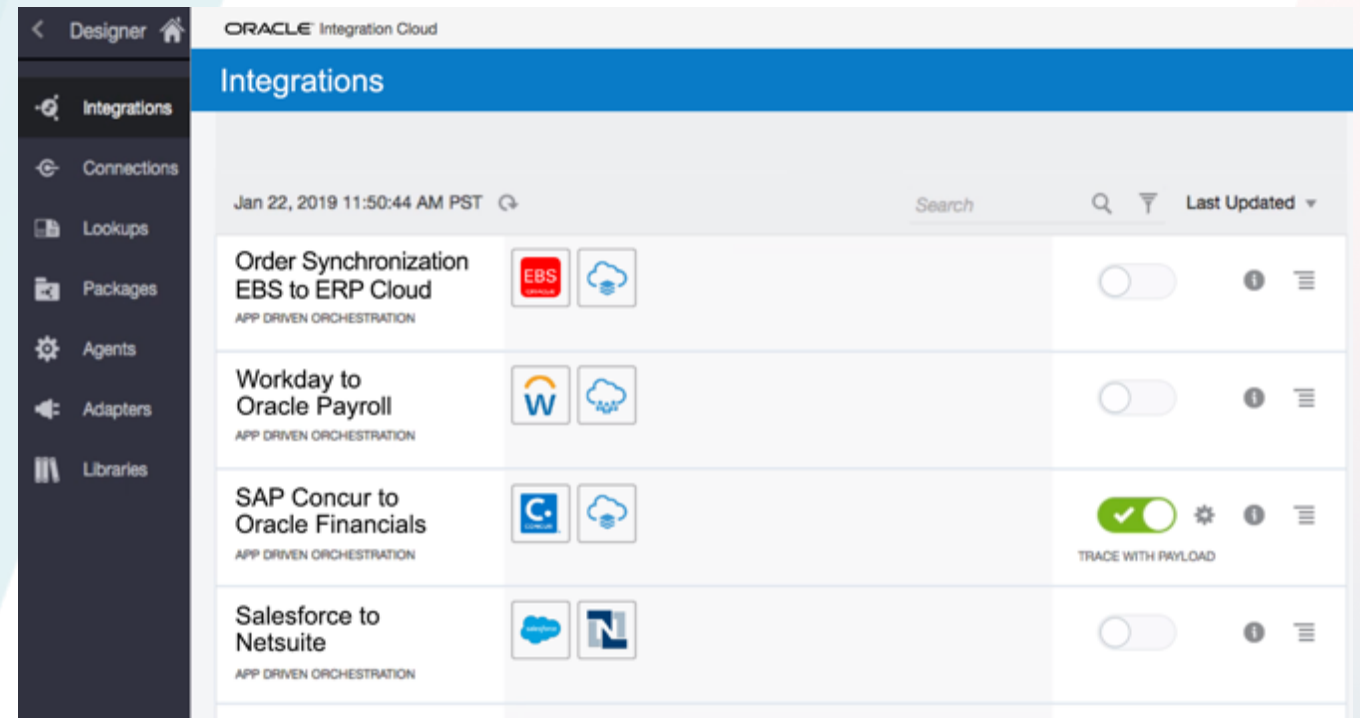


# Application Integration

Accelerates SaaS and on-premises connectivity

## Key Features

- 75+ prebuilt application connections
- Support for Oracle and non-Oracle apps
- Prebuilt integration flows
- Embedded recommendations
- Connect SaaS with on-premises apps



# Enterprise Connectivity

Prebuilt adapters for cloud, on-premises, Oracle, non-Oracle and homegrown apps

## ERP Connectivity



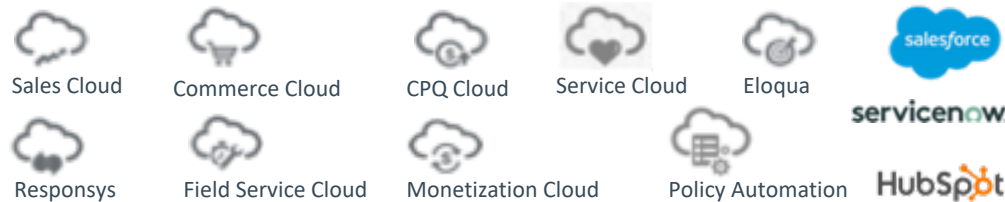
## HCM Connectivity



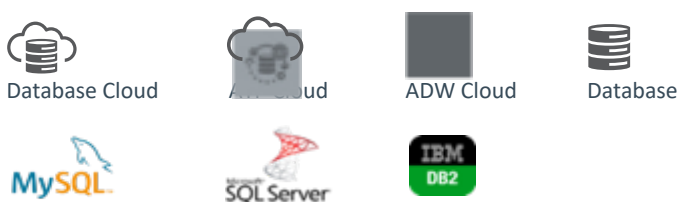
## Productivity and Social Connectivity



## CX Connectivity



## Database Connectivity



## RPA Connectivity



## Technology Connectivity



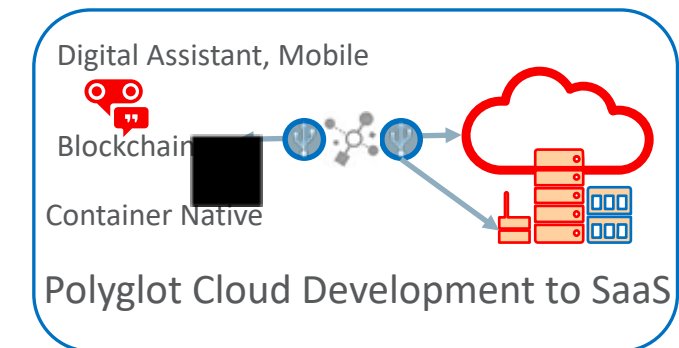
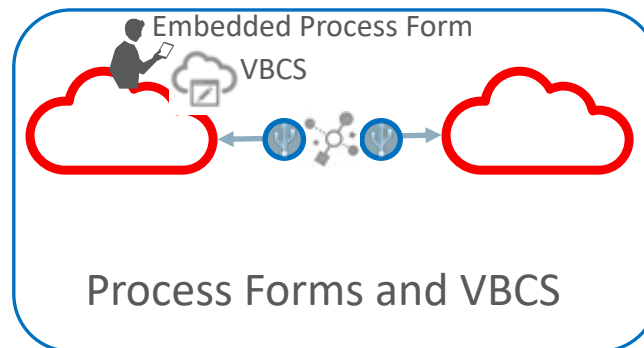
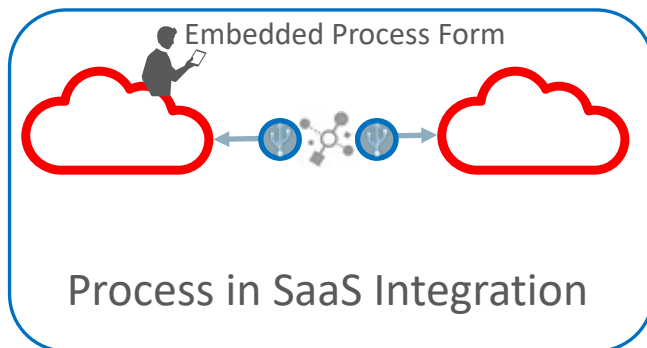
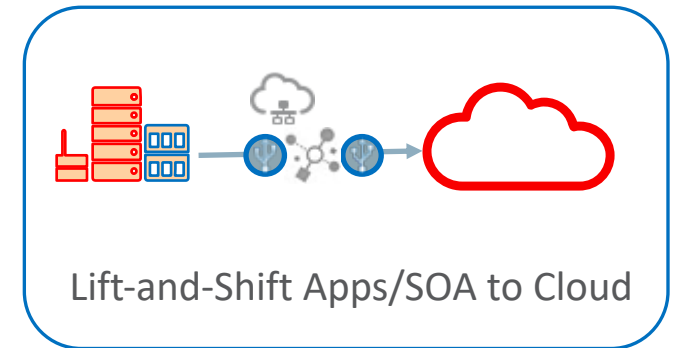
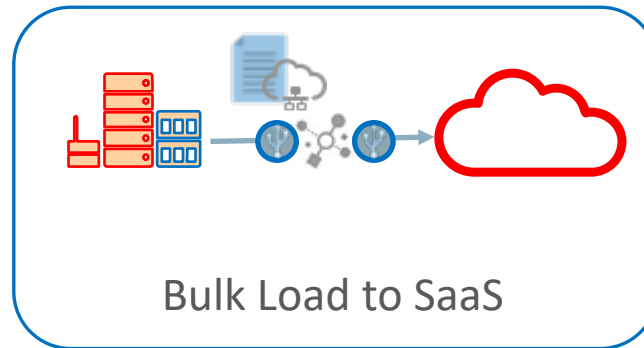
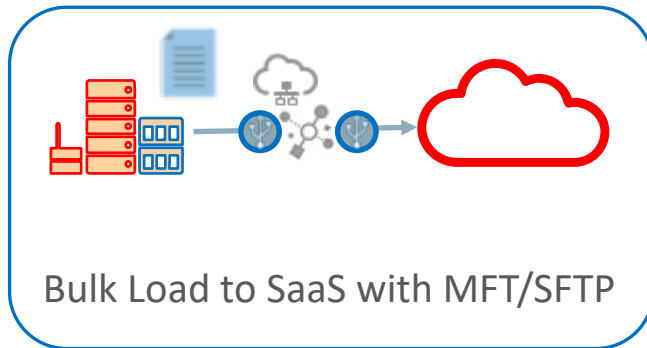
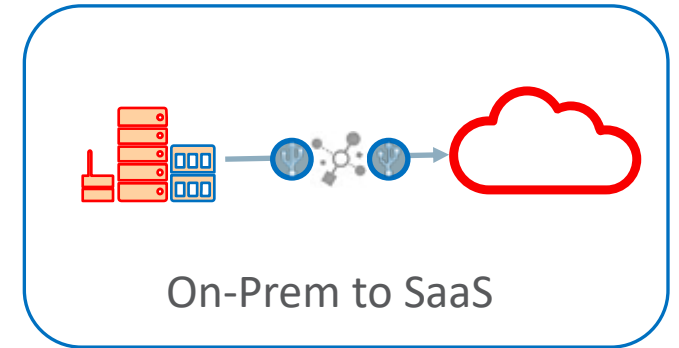
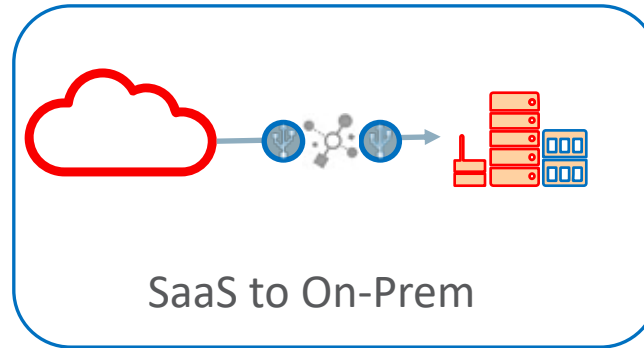
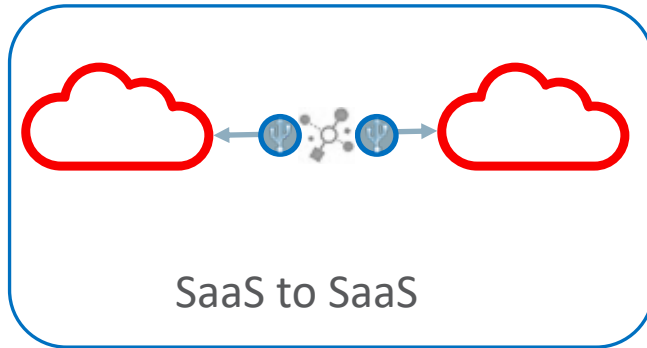
## Create Your Own Adapter



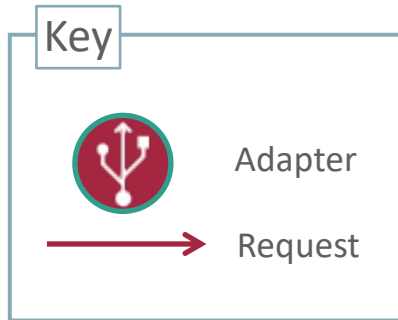
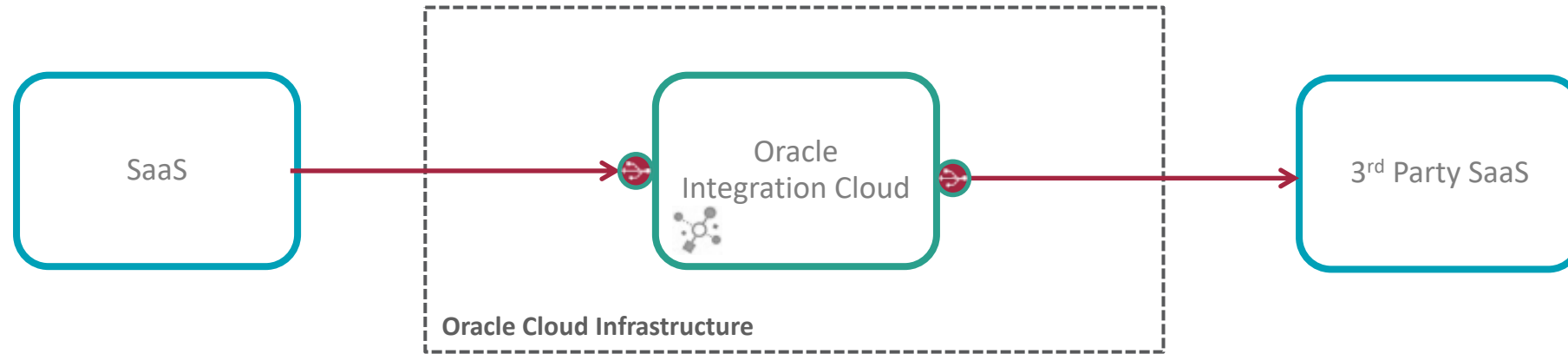
Create your own adapter with the Zero-code adapter builder



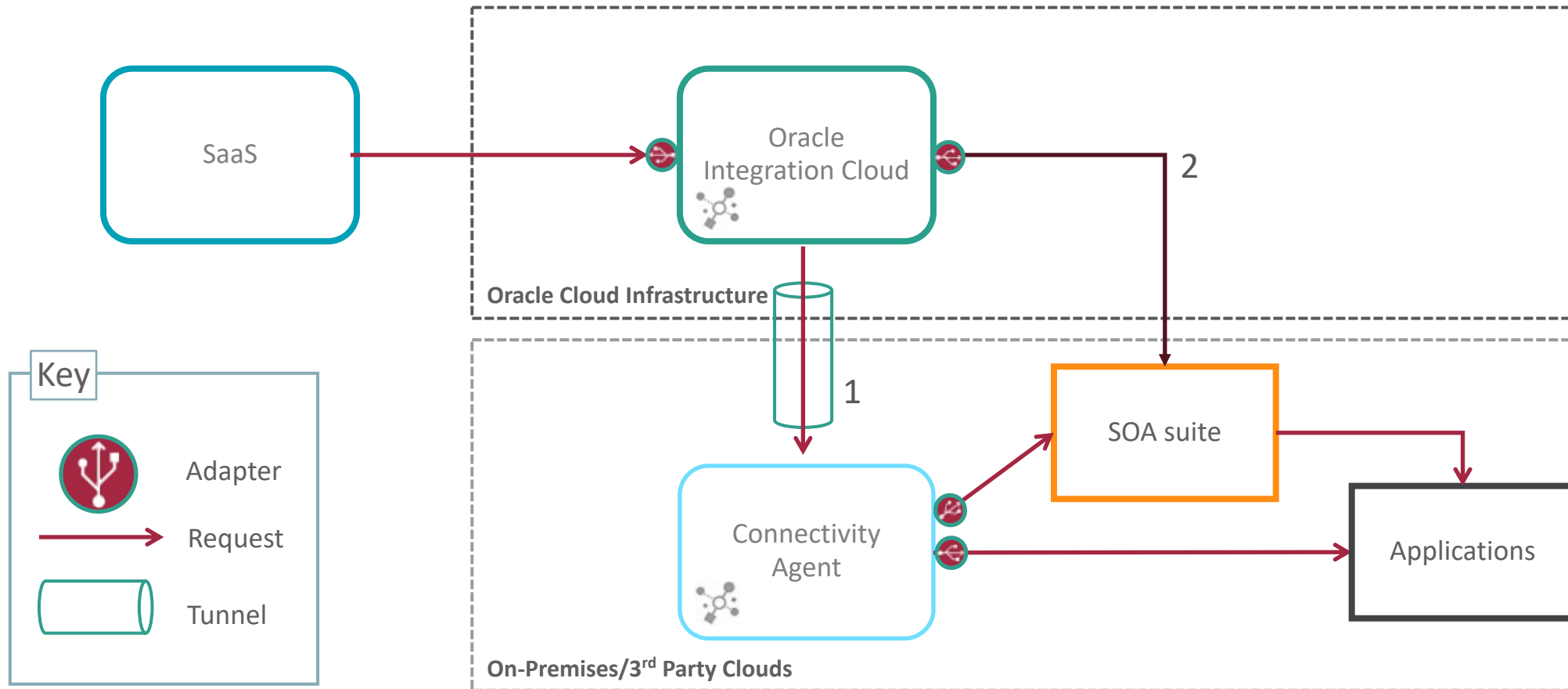
# Applications Integration Patterns



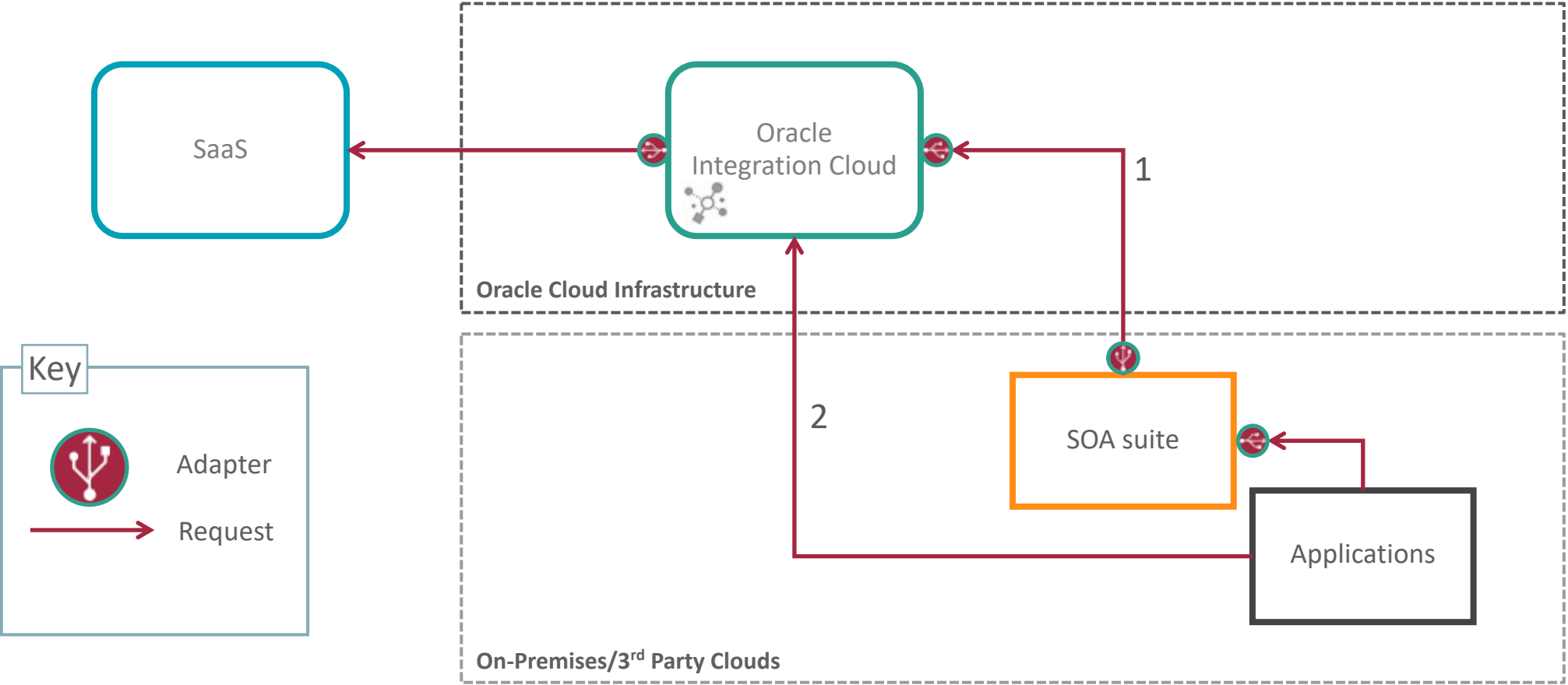
# SaaS to SaaS Integration



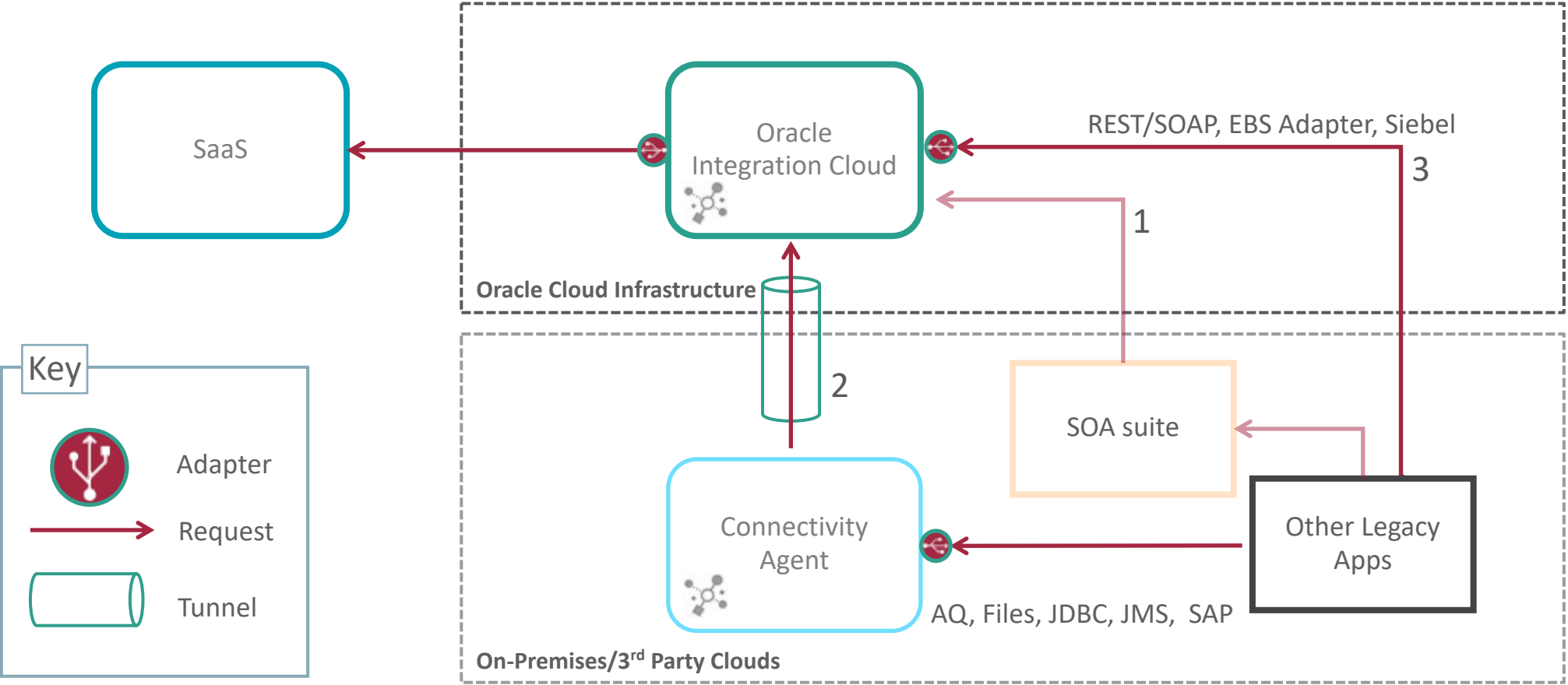
# SaaS to On-Prem Integration



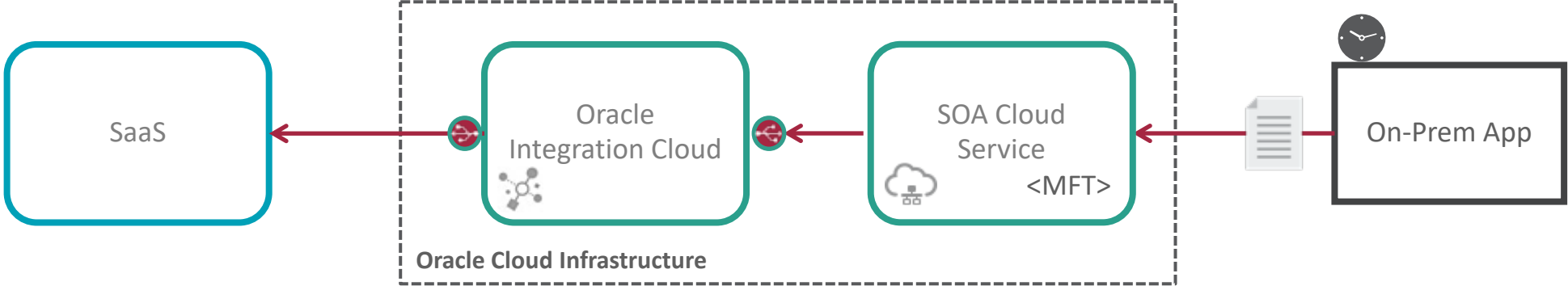
# Integration of On-Prem to SaaS



# Integration of On-Premises to SaaS

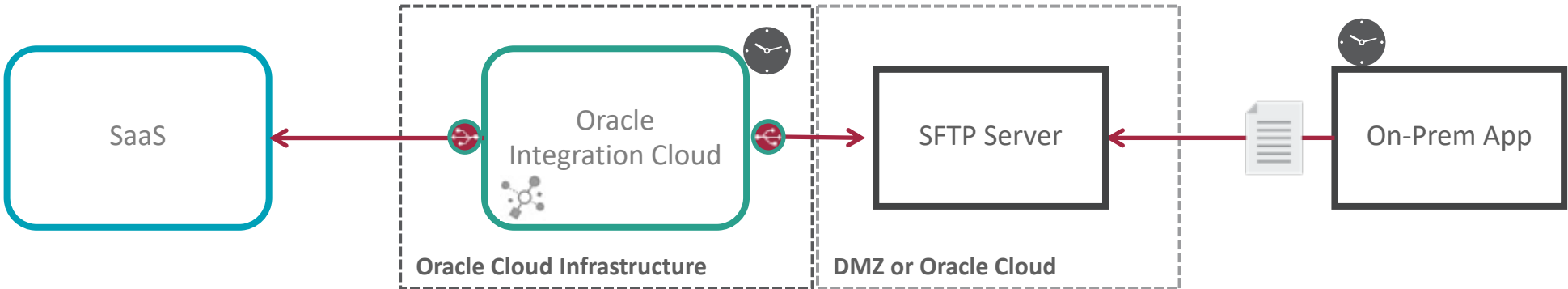


# Bulk Load to SaaS with MFT/SFTP

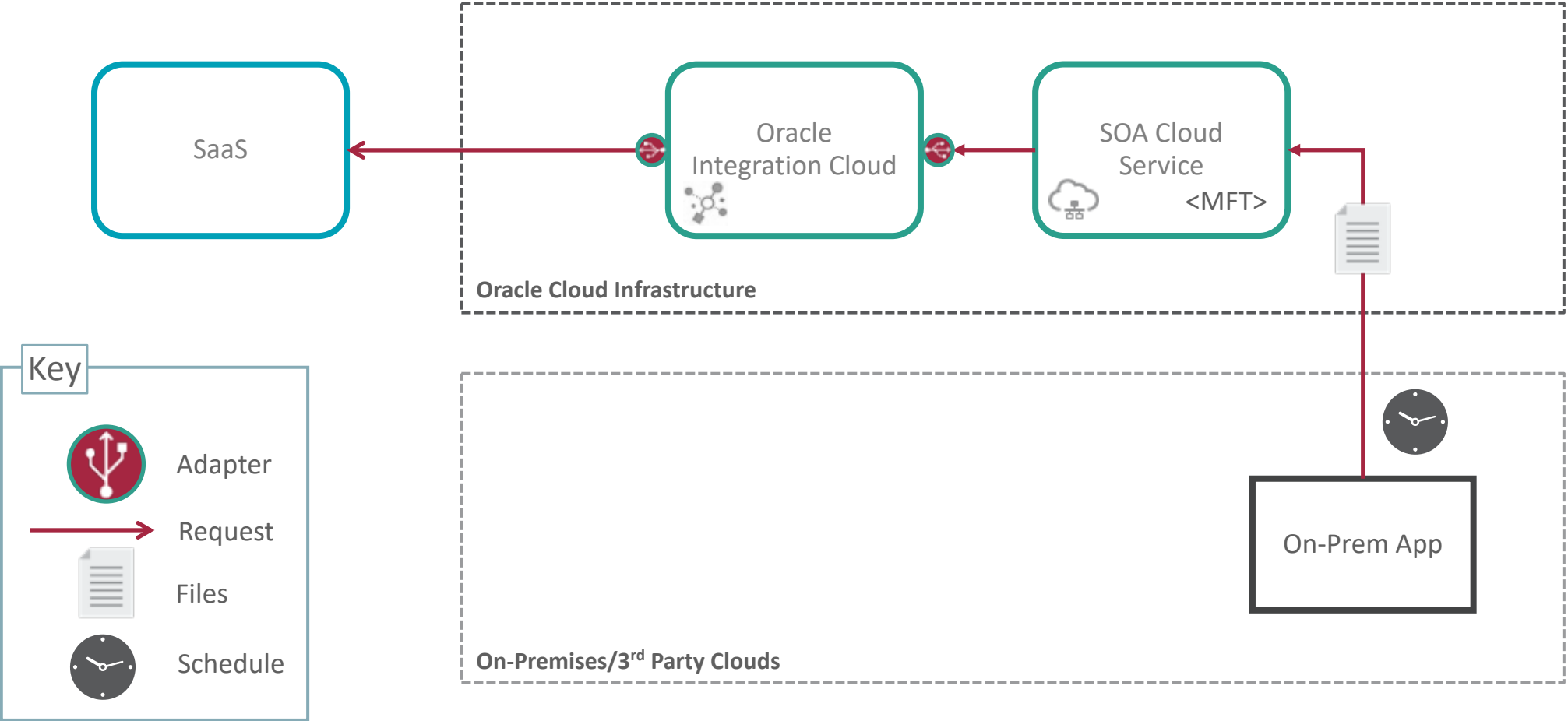


**Key**

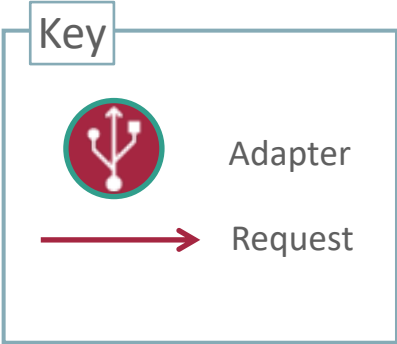
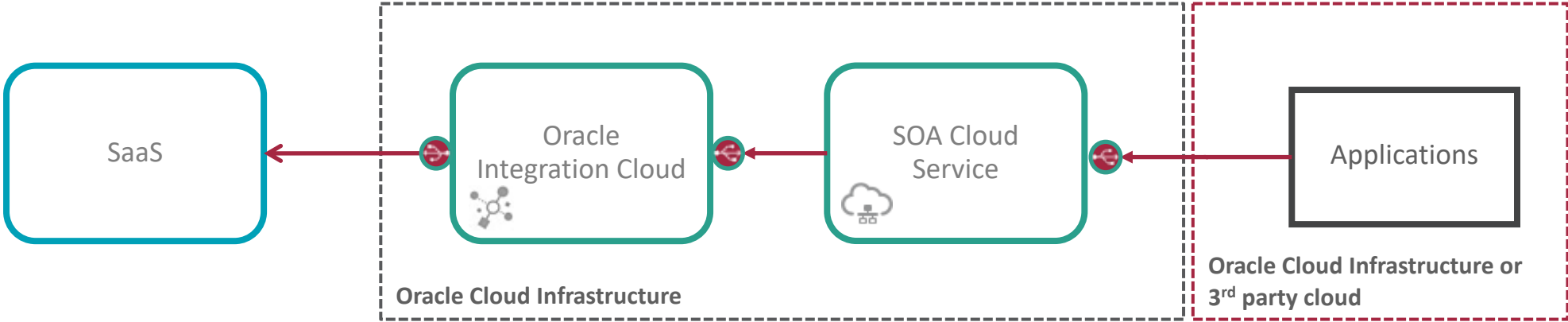
- Adapter
- Request
- Files
- Schedule



# Bulk Load to SaaS

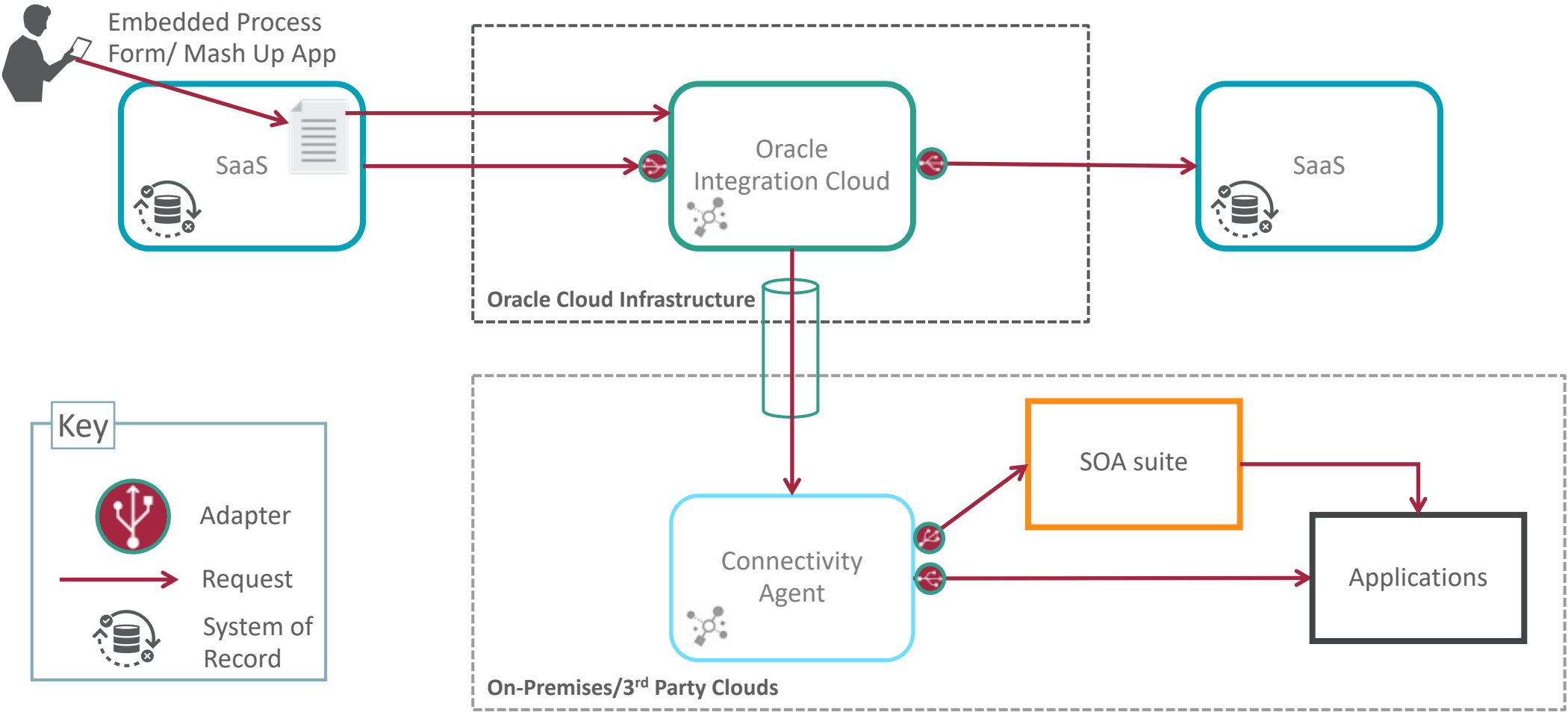


# Lift-and-Shift Apps/SOA to Cloud

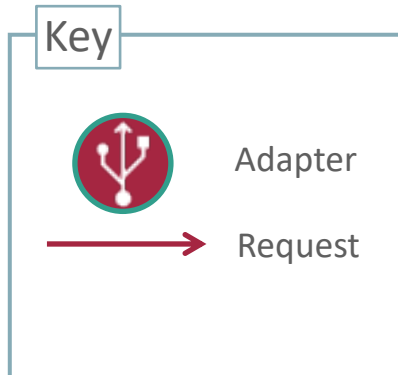
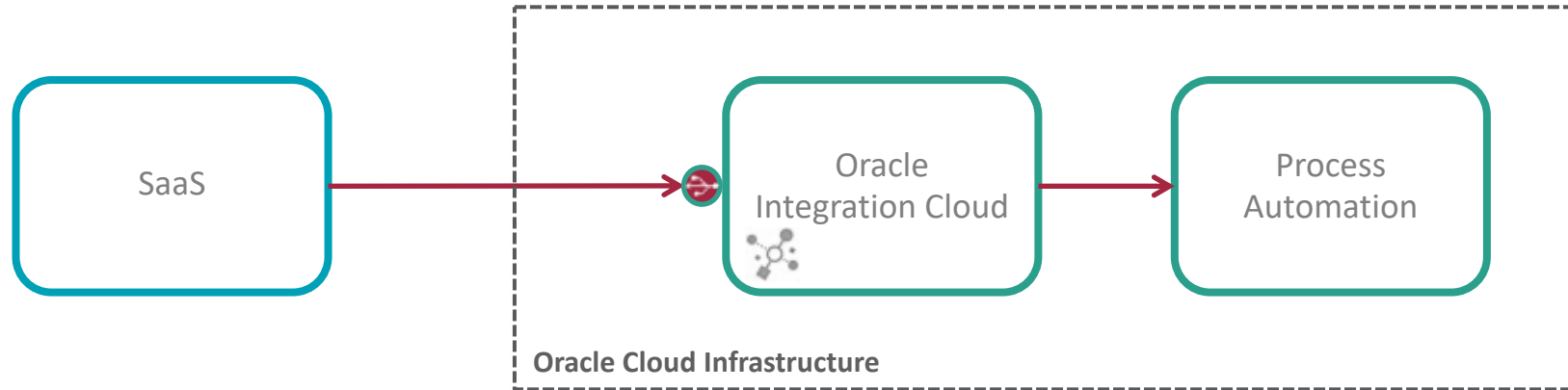




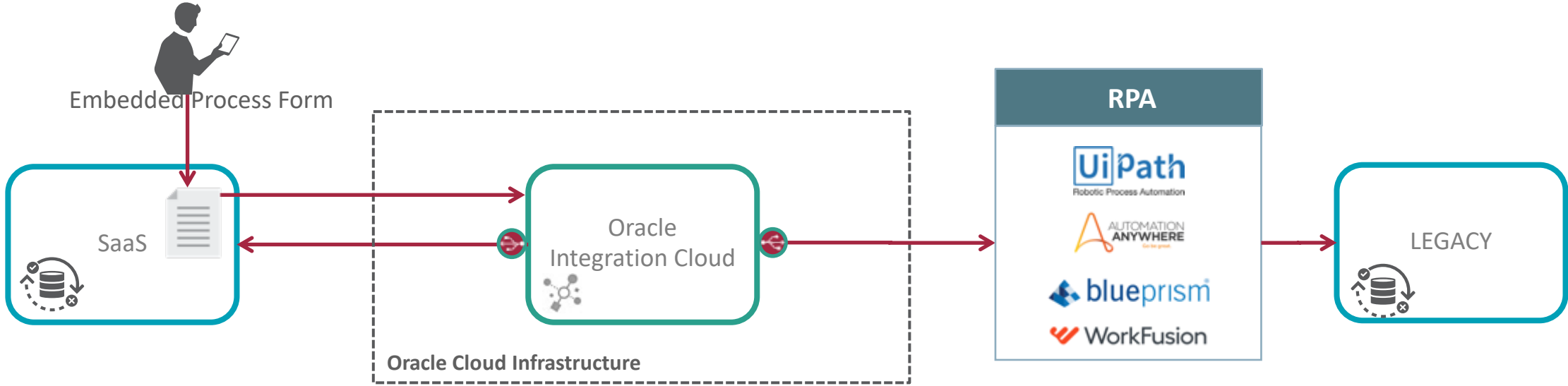
# Extensions in SaaS Integration






# SaaS to Process Integration



# Robotic Process Automation

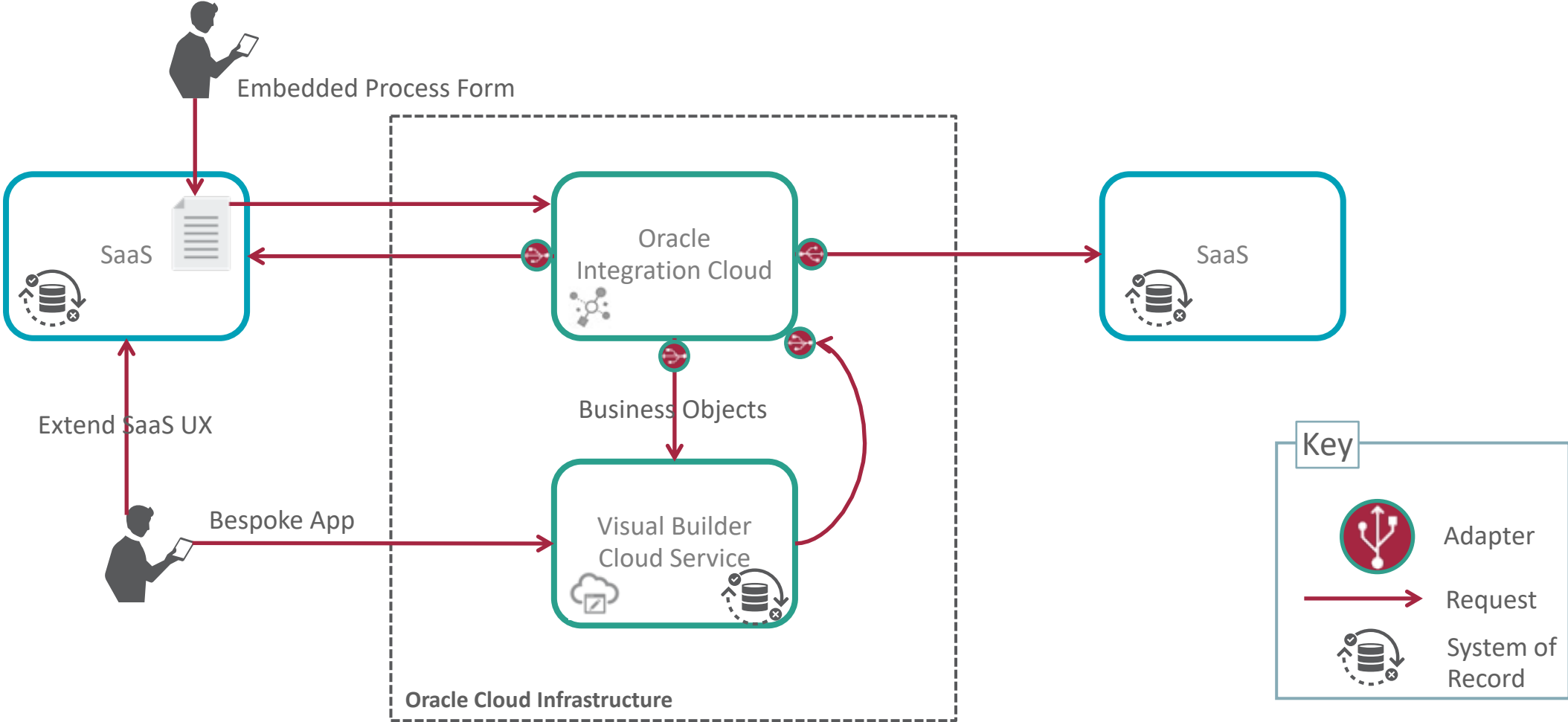


Key

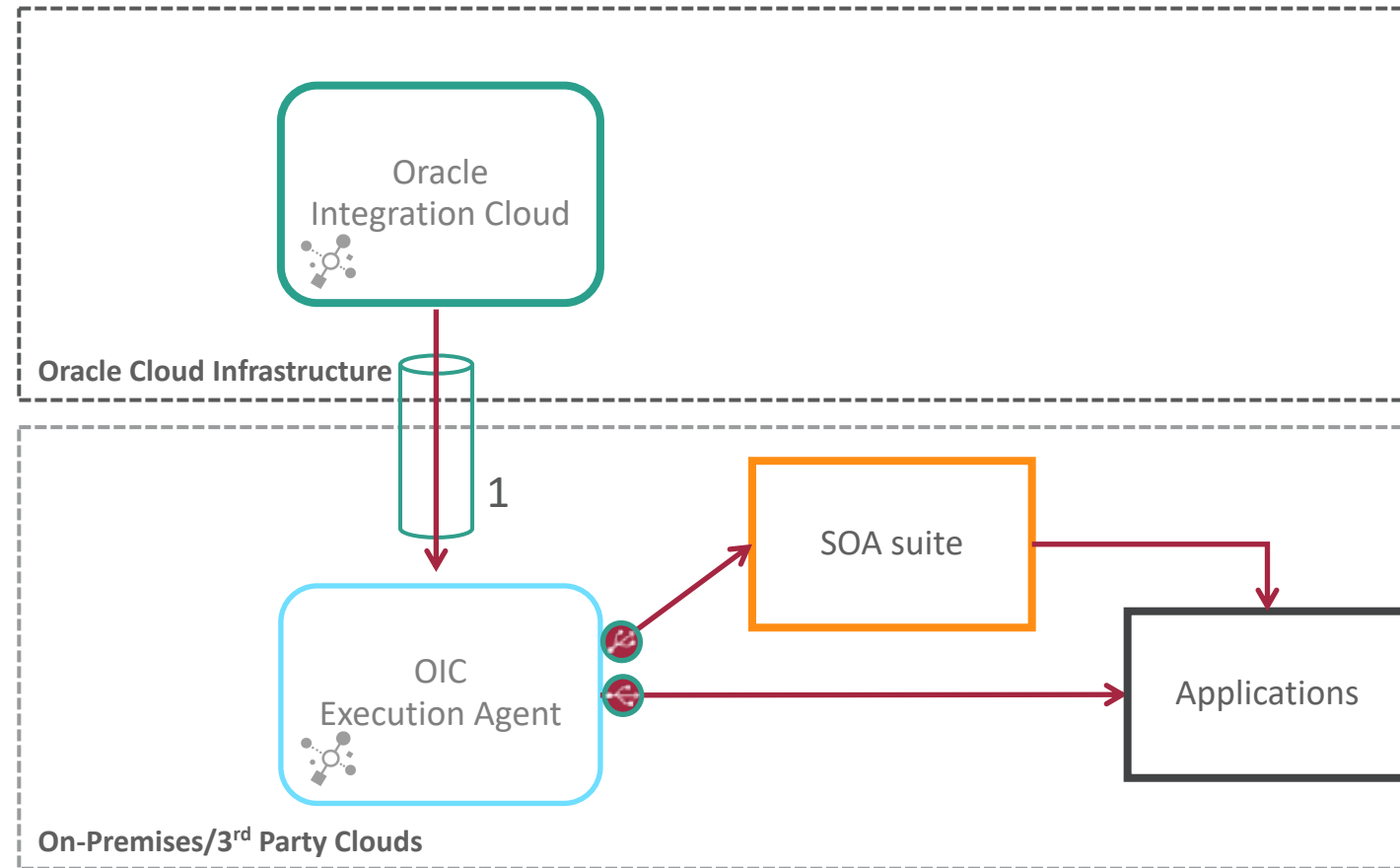
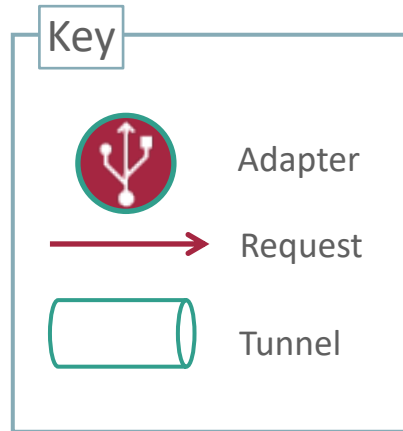
-  Adapter
-  Request
-  System of Record



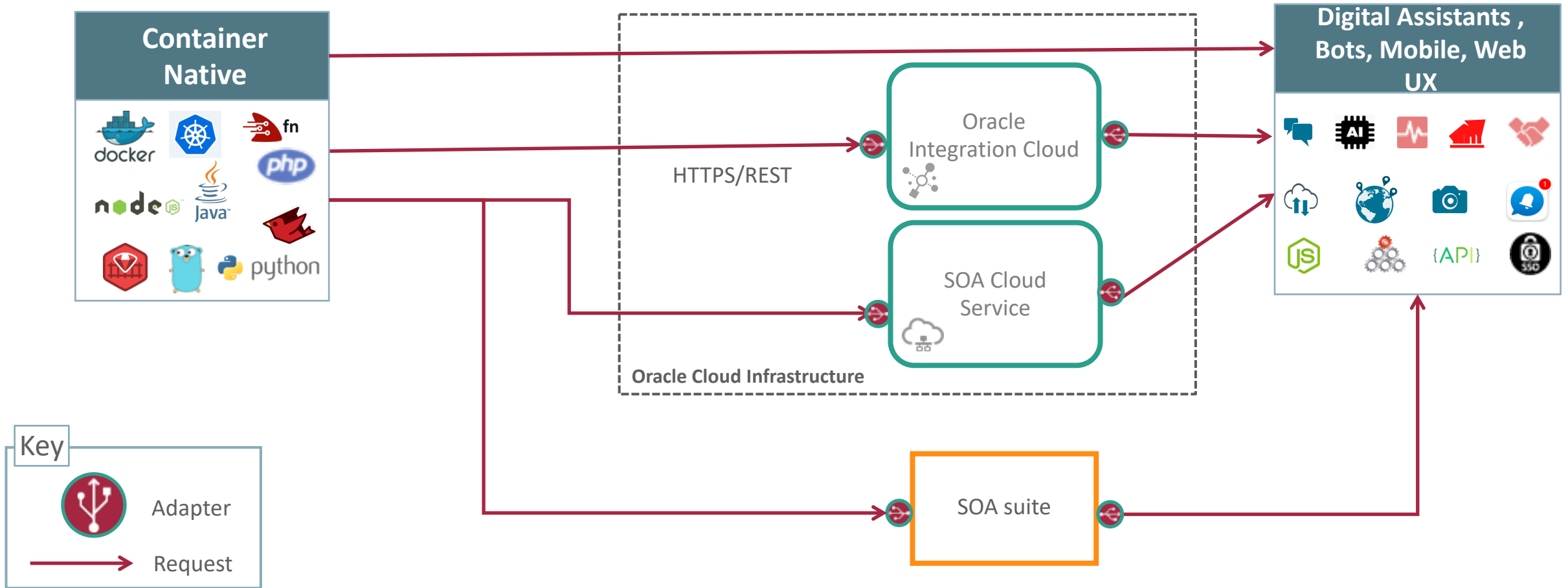
# Process Automation and VBCS



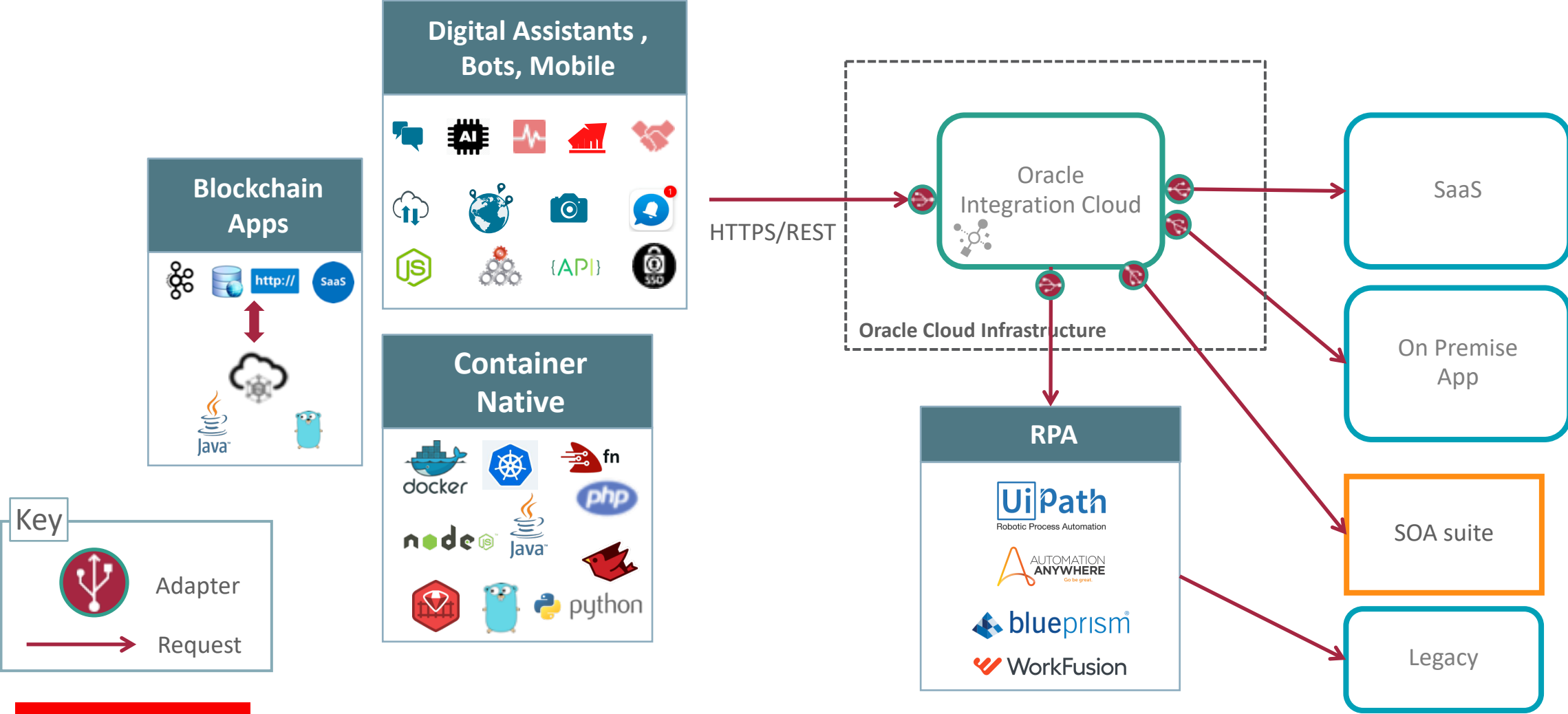
# On-Prem to On-Prem Integration\* [Future]



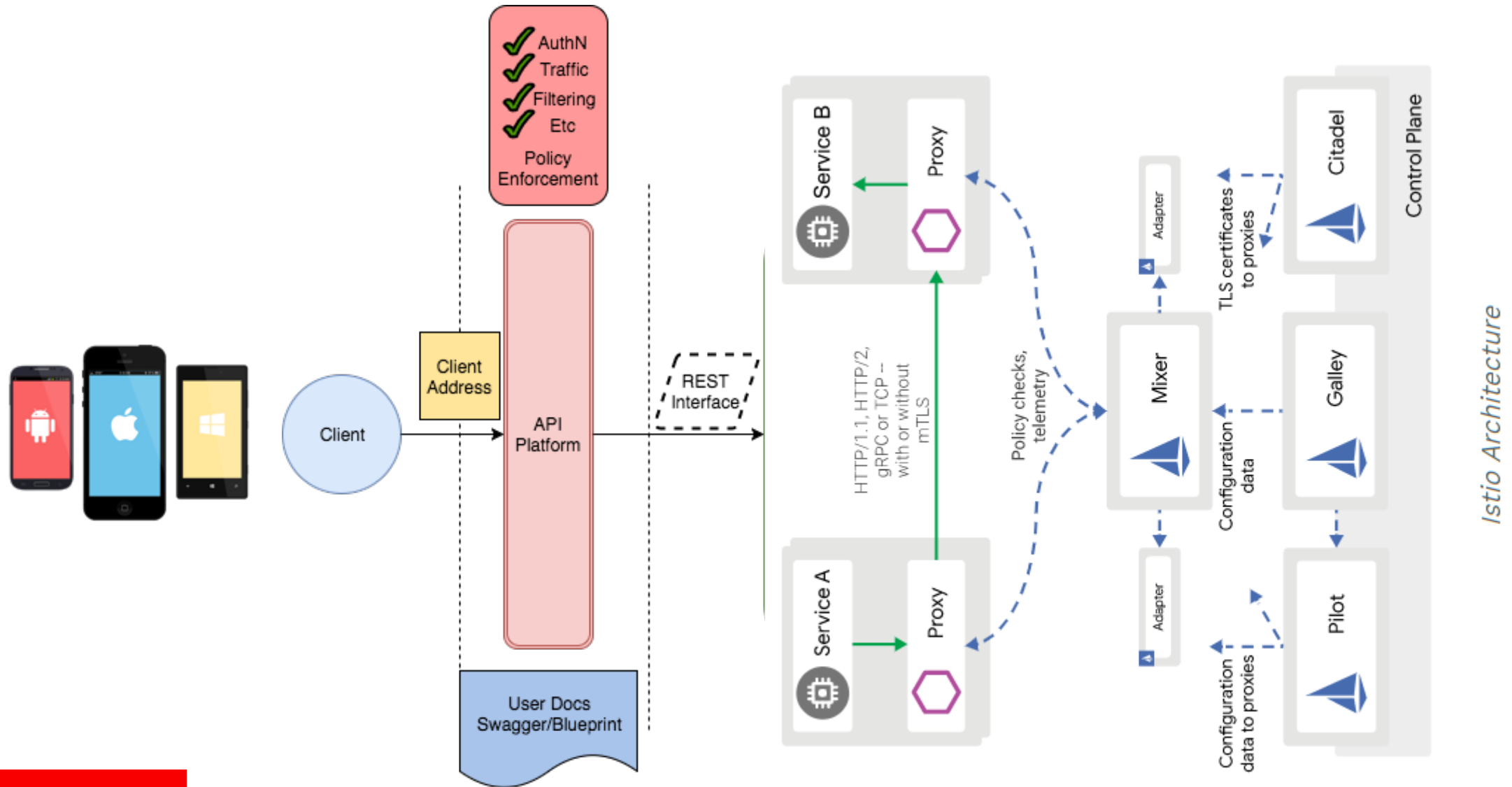
# Service Orchestration / Choreography



# Polyglot Cloud Development to SaaS



# Extending ISTIO and Integration Platforms with API Platform





DEMO

ORACLE®

ORACLE®