



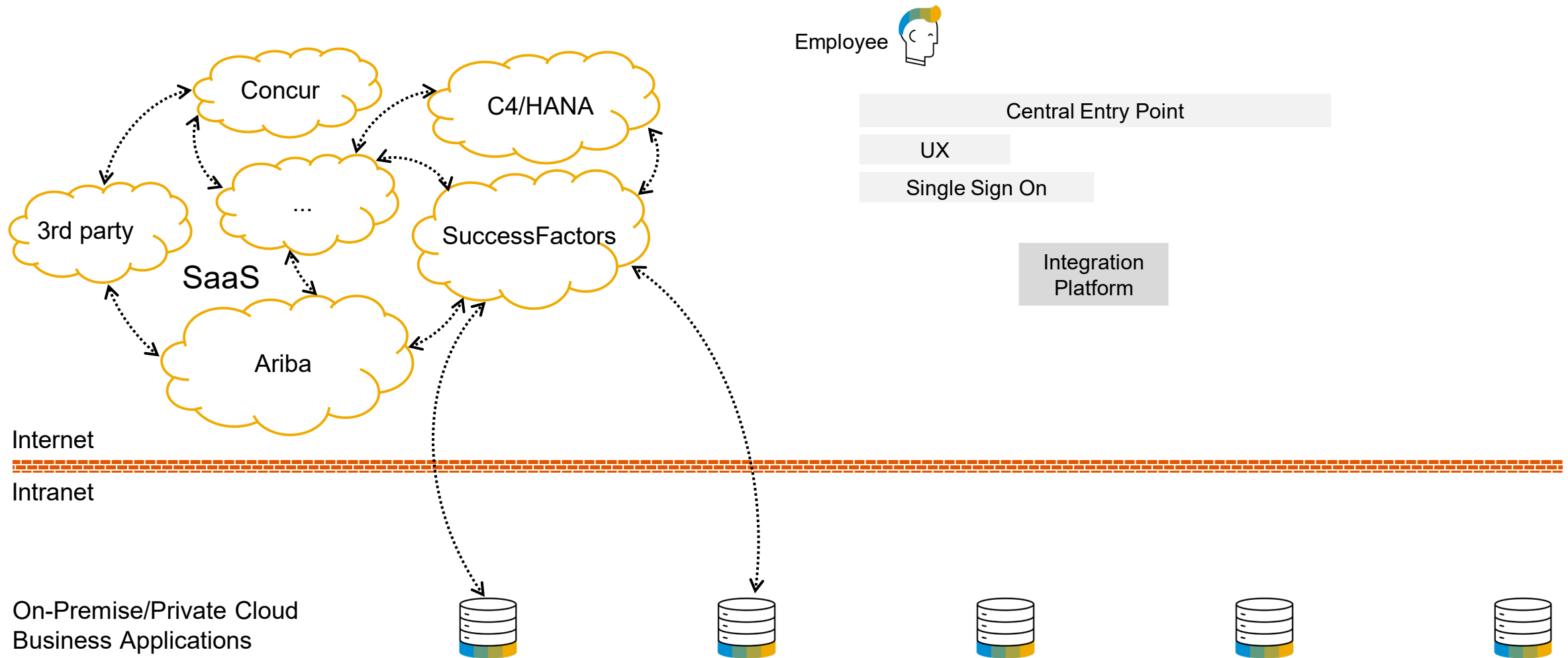
Why?

SAP Cloud Platform

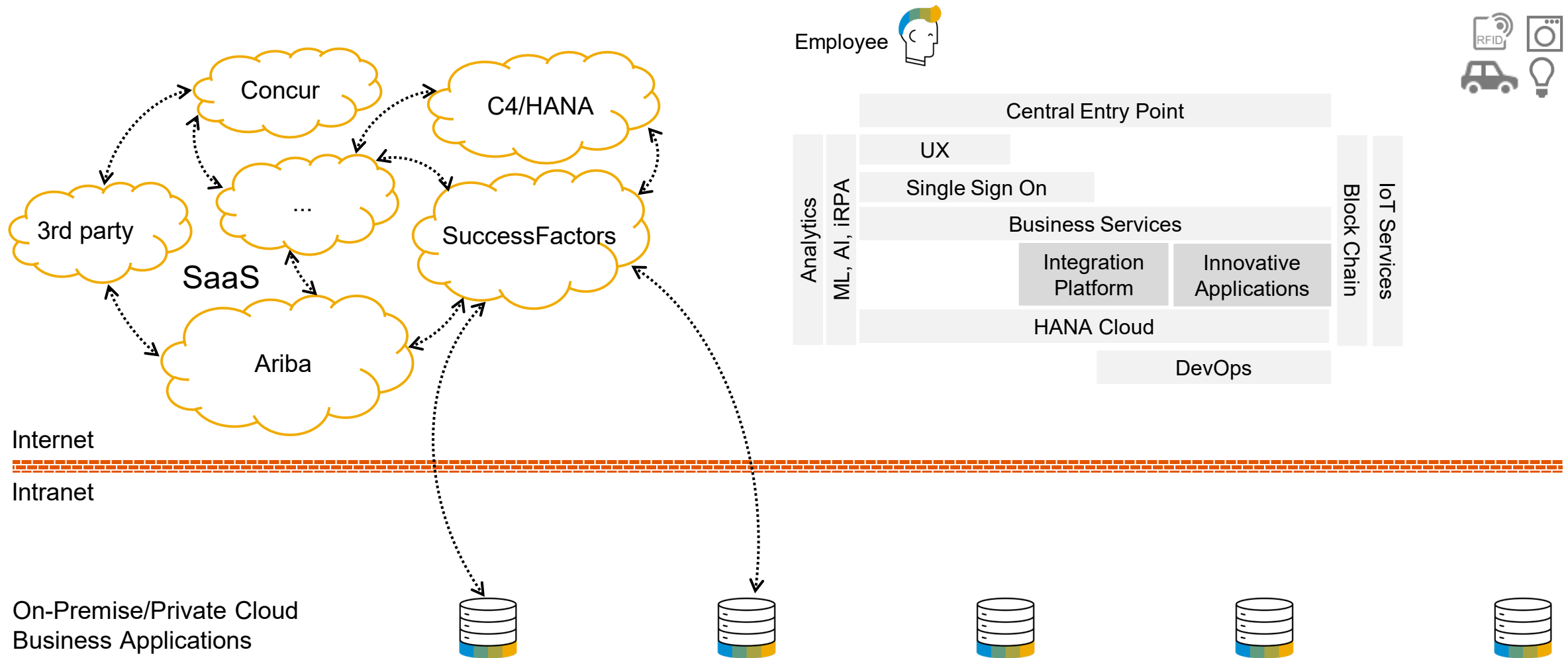
Arne Speck, SAP
September 12th, 2019

PUBLIC

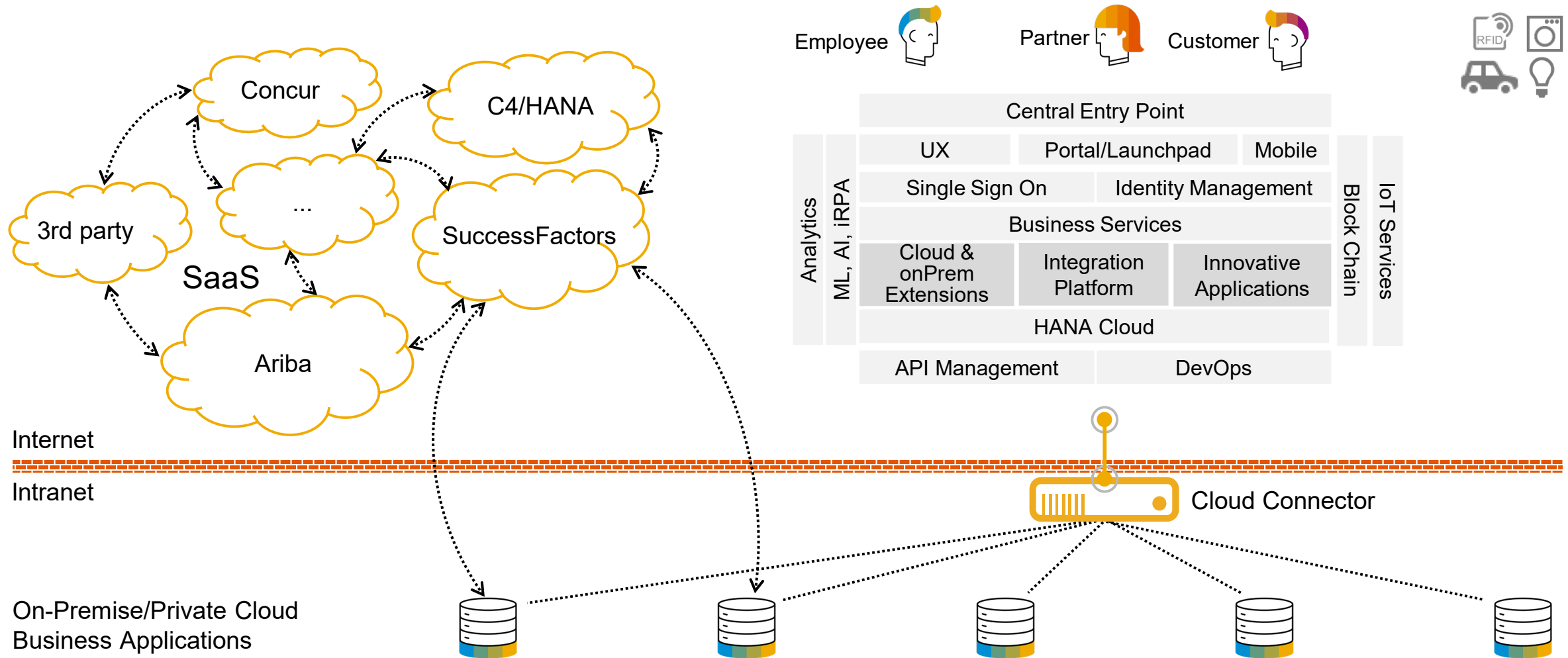
SAP Cloud Platform – Overview



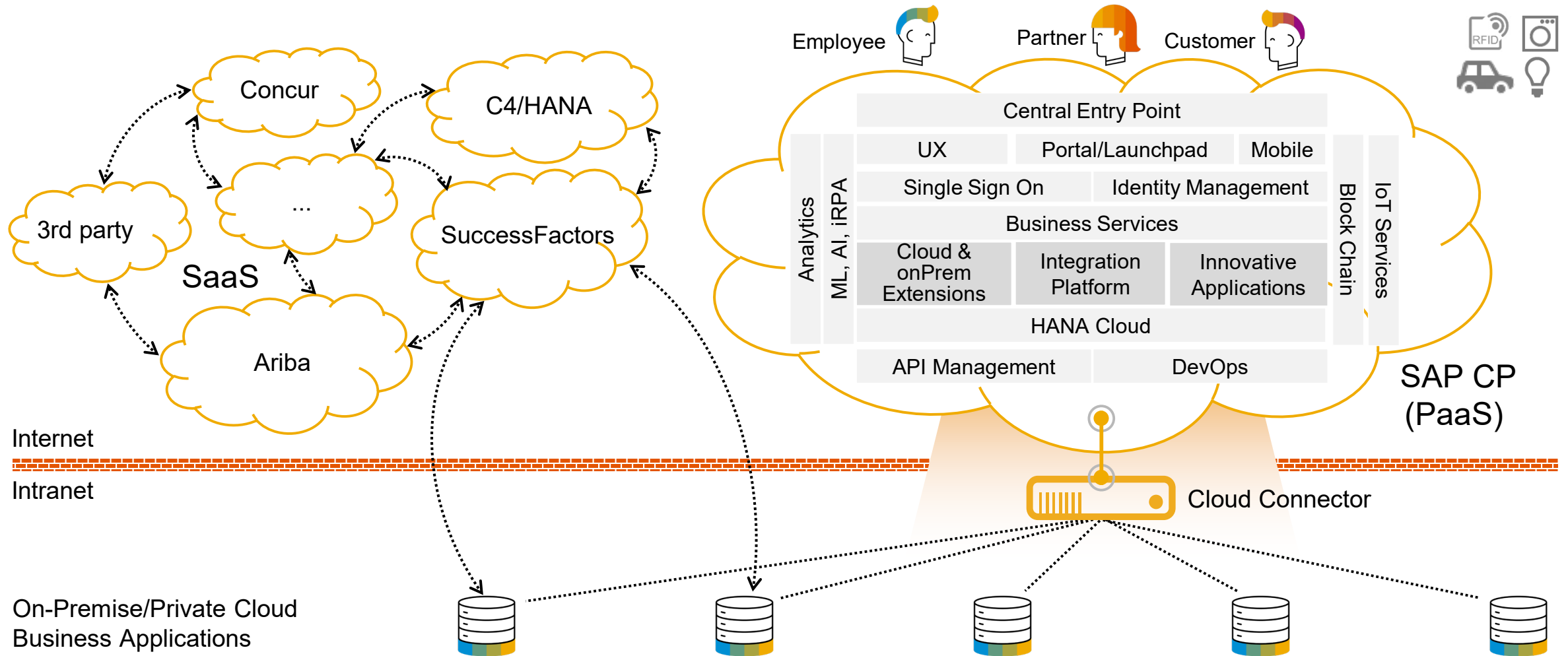
SAP Cloud Platform – Overview



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SAP Cloud Platform – Overview



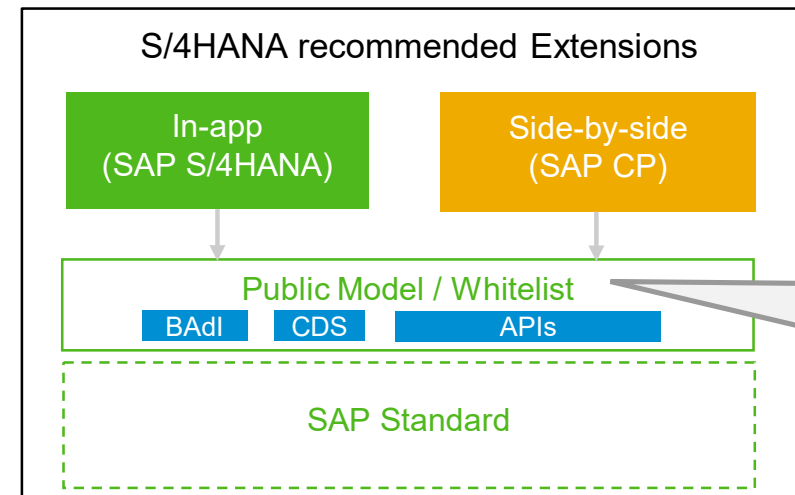
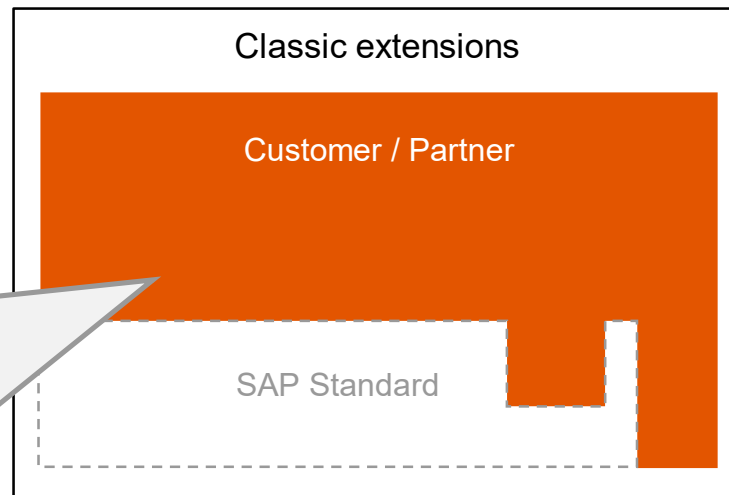
S/4HANA Extension Concept: Separation of Concerns

Principle of Least Knowledge

A component should not know about internal details of another component

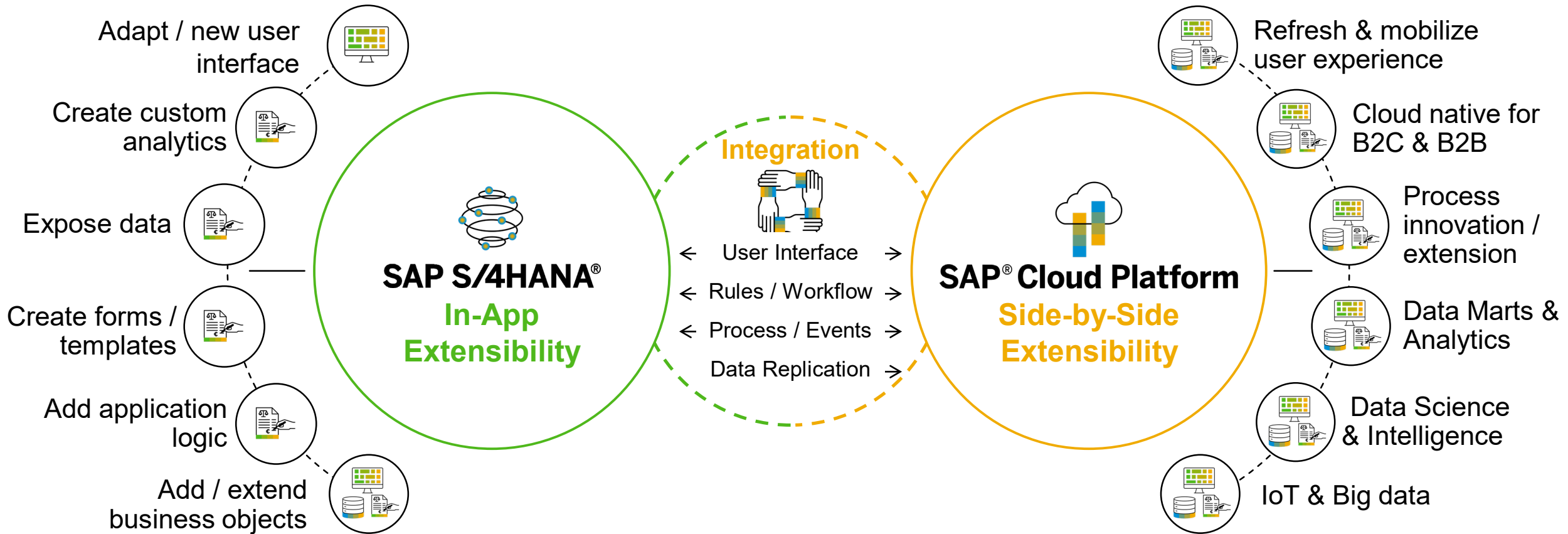
- Regular SAP updates must **not lead to adaptation needs for custom / partner code**
- Clear **logical separation** of custom / partner objects and SAP standard objects
- Access to **SAP objects only via whitelisted APIs (Public Model)**
 - no modifications allowed but enhancements follow strict guidelines
- Whitelisting distinguishes internal, external, and analytical usage with different stability contracts

- Modifications
- Usage and include of SAP objects without limitation
- Direct DB writes
- Dynamic calls
- Implicit enhancement spots
- Code generation



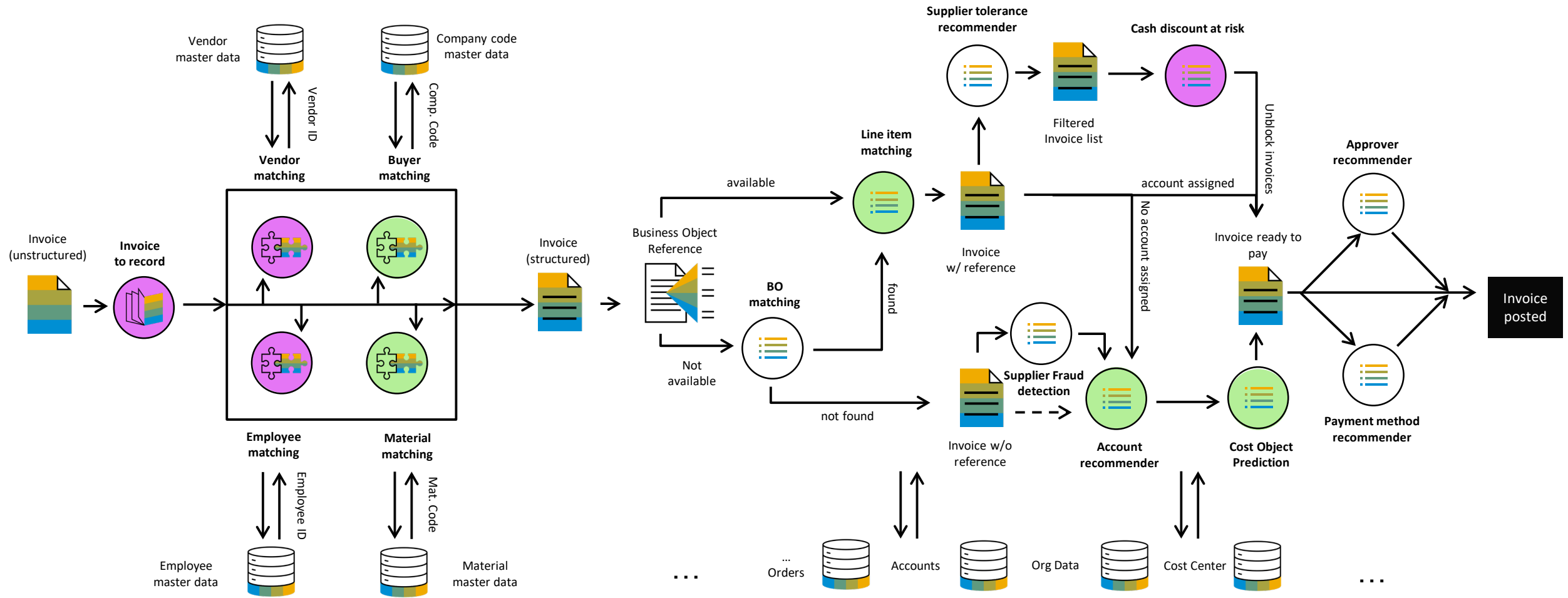
Access via white-listed, stable interfaces (API Hub, Event Hub, VDM)

SAP S/4HANA Extensibility Big Picture

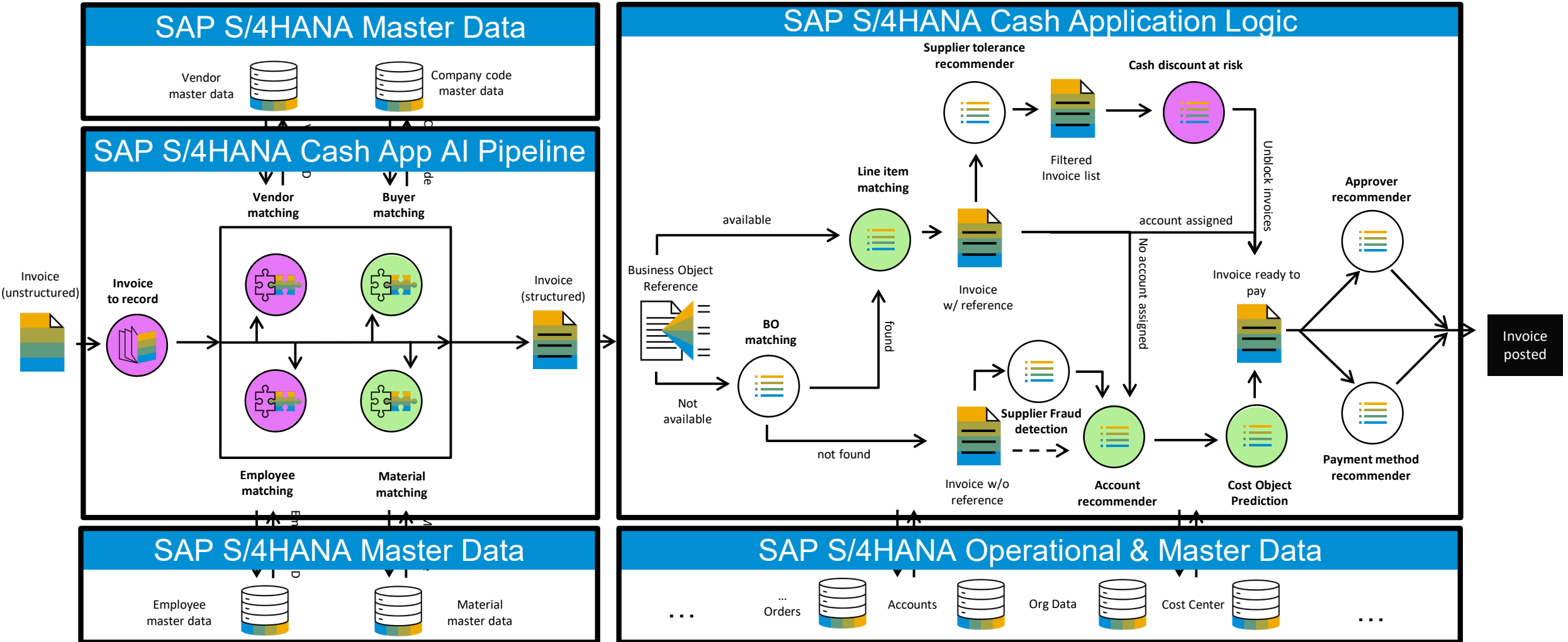


E2E Security / E2E Lifecycle Management

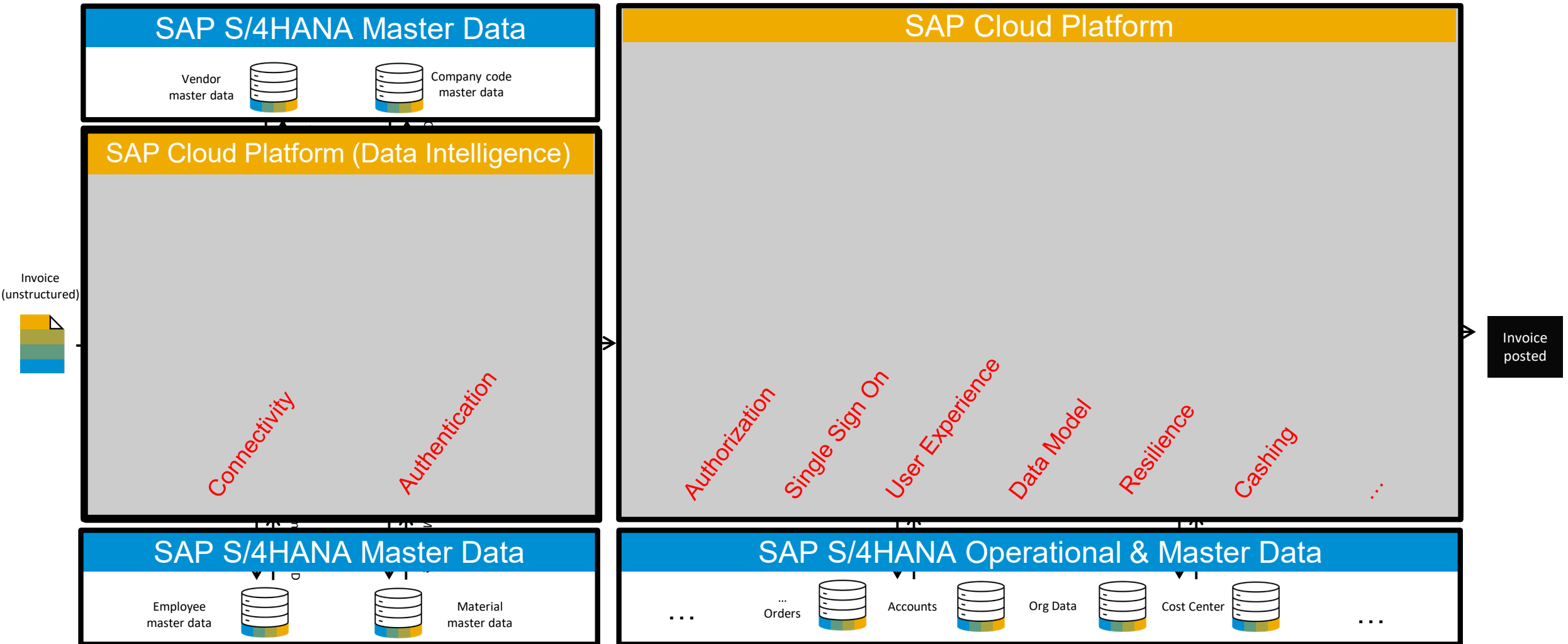
Example: S4/HANA Cash Application



Example: S4/HANA Cash Application

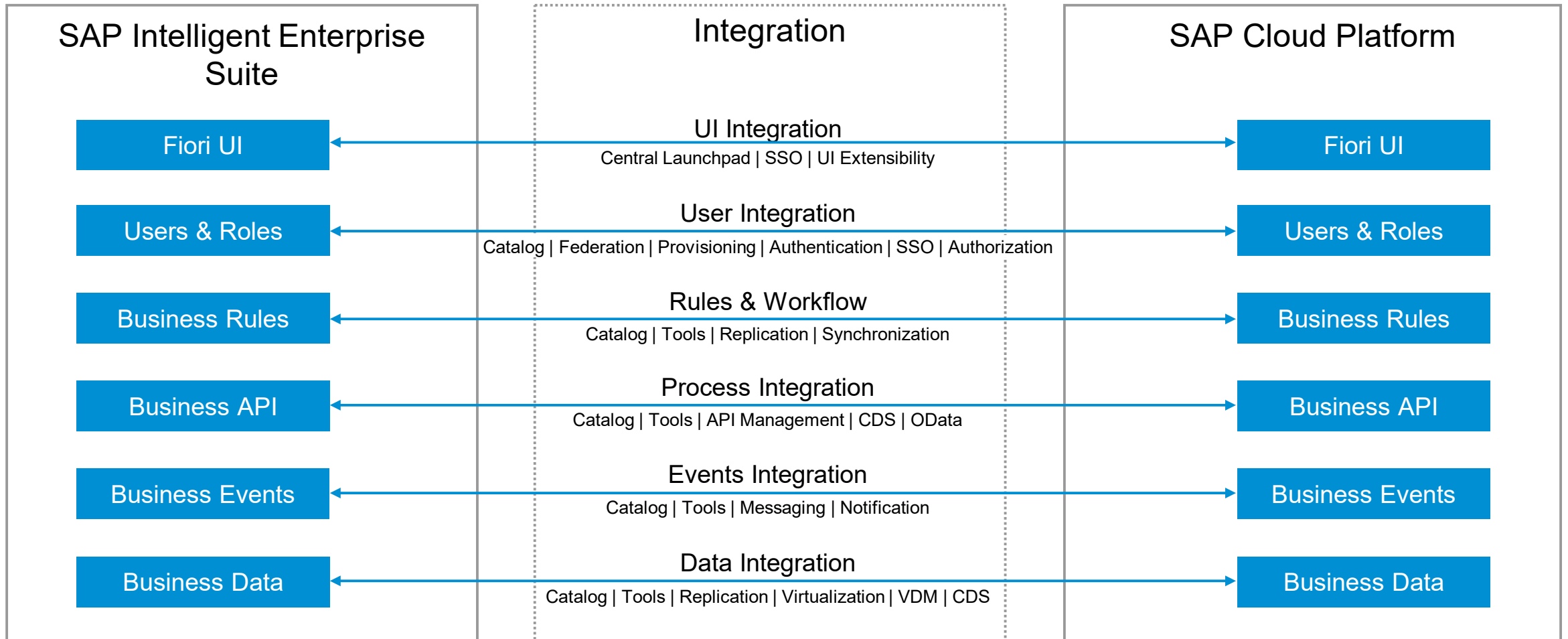


Use the same Platform for individual process improvements!



SAP Cloud Platform built as extension platform for SAP Applications

Loosely Coupled But Seamlessly Integrated!



Delivering reusable Content for SAP Application Extensions on SCP

SAP Cloud SDK:



- Virtual data model for type-safe access to SAP S/4HANA



- Integration with resilience and fault-tolerance framework
- Code analysis and testing support to ensure high quality standards



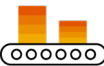
- Easy access to SAP Cloud Platform services with abstractions for platform features



- Improved application performance by efficient caching management
- Tenant and user-isolated caches



- Enterprise-specific adaptations of open source frameworks e.g. feature toggling, multitenant persistence...



- Project templates

- Out-of-the-box continuous delivery server

- Preconfigured continuous delivery pipeline including quality checks

“SAP (S/4HANA) Cloud SDK significantly enhanced the development ... we have been able to reduce development by up to 50 percent.”

[Leonardo De Araujo, CTO, Beyond Technologies](#)

Extension Factory:

- Wizard based setup and connectivity between application and extension platform (trust, security, authentication...)
- Central Catalog and streamlined consumption of APIs and Events with extended usage scope (e.g. abstraction and caching)

Business Services:

- Reusable services offering prebuilt business functionality (e.g. ticket intelligence, geo services, master data, translation etc.)

SAP Cloud Platform - Business Services



AI & Machine Learning

- Service Ticket Intelligence
- Document Classification¹
- Document Extraction¹
- Hierarchy Matching¹



Data Privacy & Security

- Data Retention Manager



LOBs & Industries

- SAP Product Configuration
- SAP Customer Order Sourcing
- SAP Omnichannel Promotion Pricing



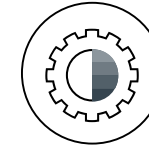
Globalization

- SAP Translation Hub
- SAP Localization Hub, tax service
- SAP Localization Hub, Document Compliance services



Rates & Measures

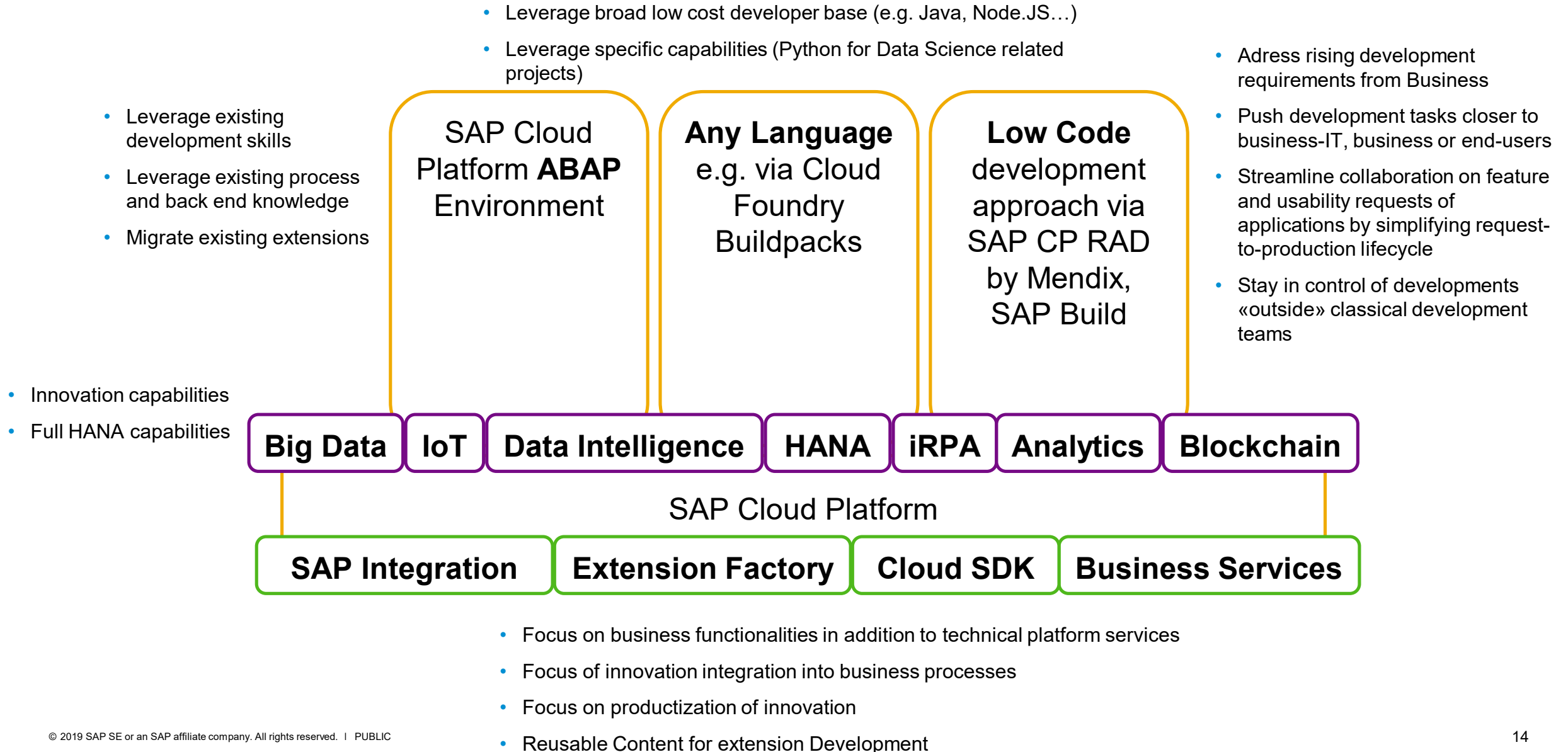
- Market Rates Management
- Unit of Measure¹



Master Data

- Data Quality Services
- Master Data for Business Partner
- Master Data Orchestration¹
- Master Data for Workforce¹
- Master Data for Product¹
- Master Data for Cost Center¹

Building innovative applications & extensions on SAP Cloud Platform



SCP Multi-Cloud approach

Combining technologies and skills



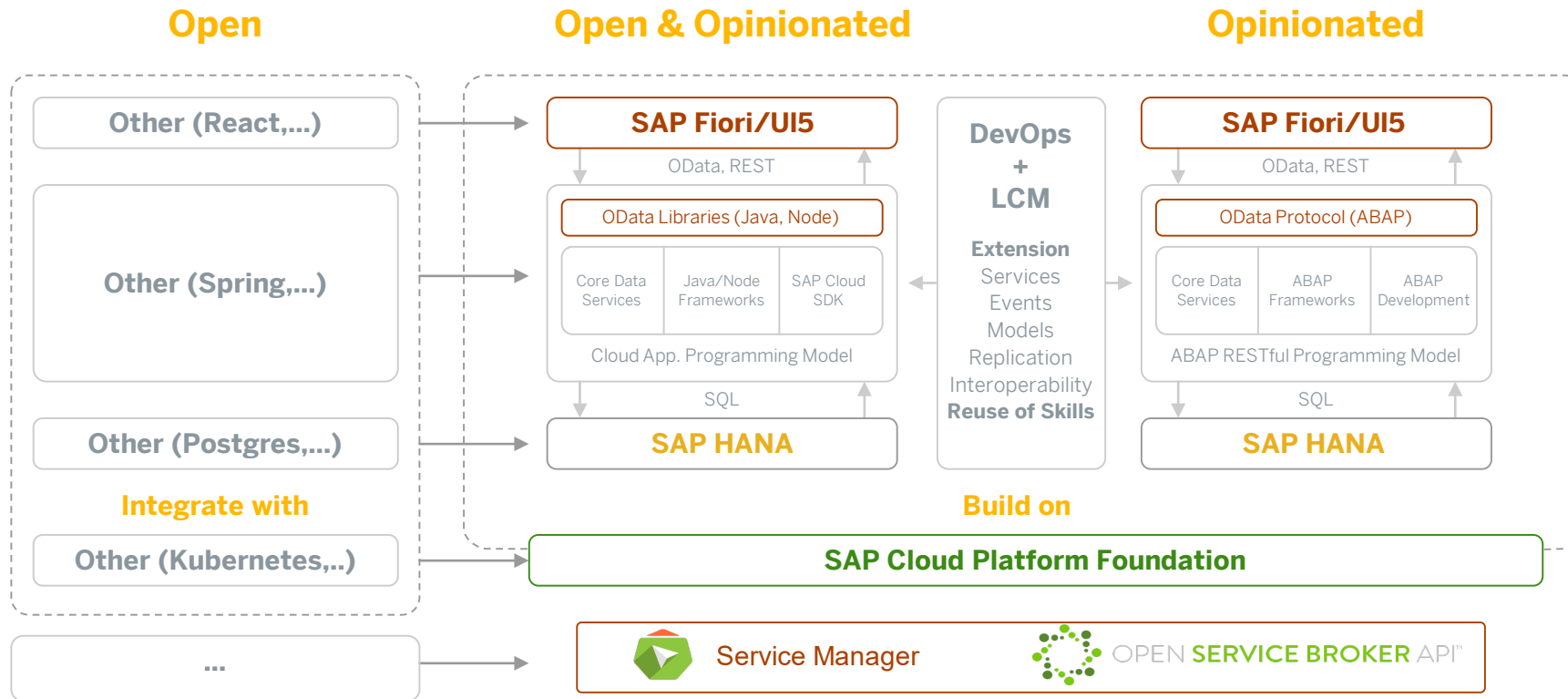
**General Enterprise
Cloud Developer**



**SAP-focused
Cloud Developer**



**ABAP
developer**



SAP Cloud Platform – Enabler for the Digital Enterprise



Integrate

- Integrate applications of the Intelligent Suite
- Integrate innovation and standard processes

- Offer latest technologies & development approaches
- Leverage open-source tools and technologies
- Technology platform for SAP Leonardo innovation services



Innovate



Extend

- Easily extend SaaS and on-Prem standard applications
- Establish standardised processes & operations
- Secure efficient operations of process landscape

SAP Cloud Platform for Integration and Extension of SAP Processes

Why use SAP Cloud Platform?

Reduce...



Costs



Re-use of existing assets and skills



Time



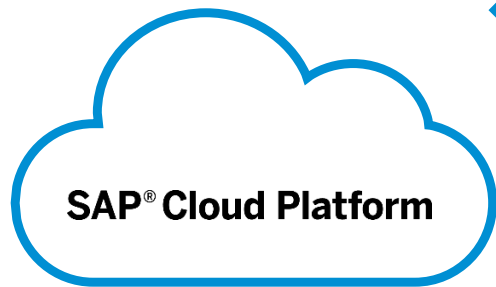
Shield developer from complexity of cloud qualities



Risk



Achieve operations excellence



Integration Content

Business Services

S/4HANA Cloud SDK

SCP ABAP Environment

SAP Innovation Technologies

SAP Fiori Cloud

Enterprise mobile Platform with iOS and Apple SDKs

Customer/Partner services and applications

Real open source based PaaS

Performance → ABAP, CDS,

Scalability → Service architecture

Resilience → Caching (Hystrix via SDK)

Less data replication → Smart data access, APIs

Security → cloud connector, encryption, certificates

DevOps & agile development

Continuous integration & continuous delivery

Test automation

Thank you.

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Customer Solution Advisor

SAP (Switzerland) AG