

Connecting the Intelligent Enterprise with SAP Integration Suite

Kevin Wu, SAP Solution Advisor March 28, 2023



Agenda

Why BTP

Business Technology Platform Overview

Integration Suite Overview

Services and Use Cases

Demo

- SAP API Business Hub
- Intelligent Invoicing

Advanced Event Mesh

Event Driven Architecture

Roadmap

Priorities Moving Forward

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Why SAP BTP



Intelligent Enterprises are Integrated Enterprises

- Integration in the cloud is a key pillar of SAP's Strategy
- A strategic corporate priority for SAP Executive leadership



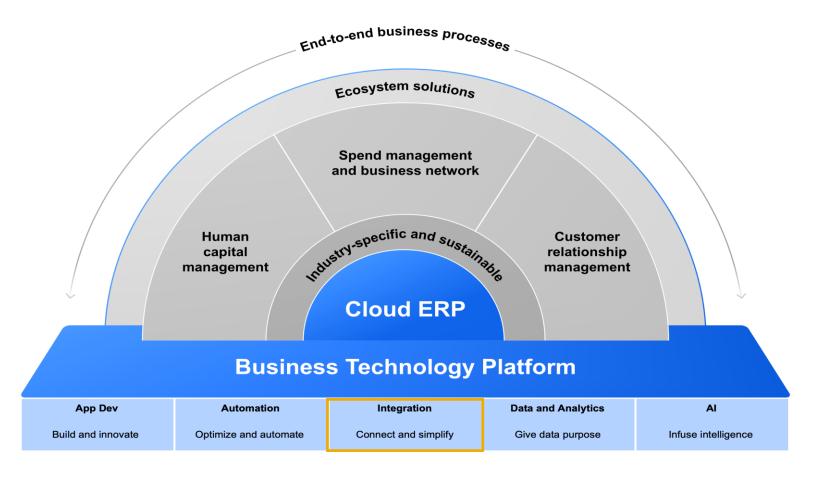
Christian Klein CEO, SAP



Jürgen MüllerCTO & Member of the Executive
Board Technology & Innovation



Thomas Saueressig
Member of the Executive Board
SAP Product Engineering



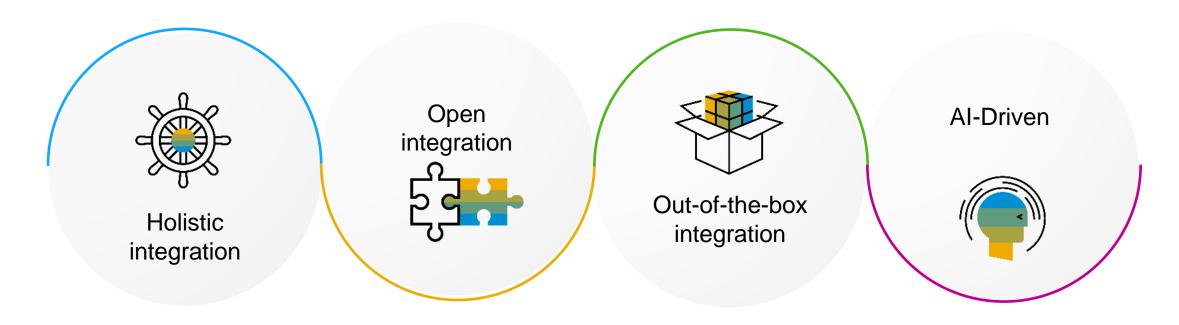
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Integration Suite



Integration has become the key enabler for intelligent enterprises

Accelerate business outcomes with simplified integration



Versatile, multi-cloud platform

Support all types of integration use cases required in cloud and hybrid landscapes

Integrate anything, anywhere

~3.600 APIs and 200+ connectivity options for third-party solutions and custom extensions by SAP and partners

Accelerated time to value

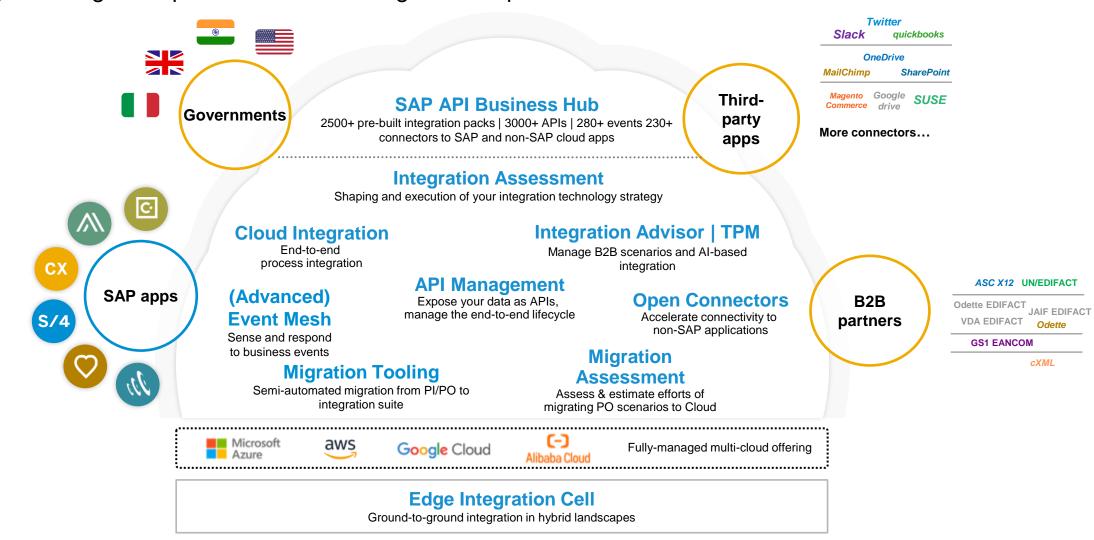
Mission critical business processes with pre-defined 2.800+ integrations for cloud and on premise

Al-assisted to speed integration

Accelerate the speed of intelligent integrations to attain desired business outcomes

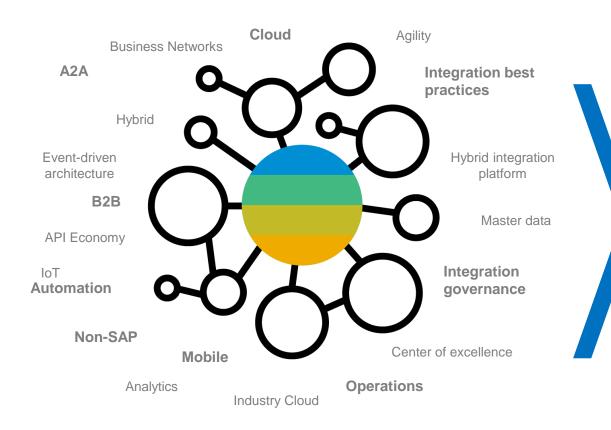
SAP Integration Suite

SAP's hybrid integration platform for the Intelligent Enterprise



Use Cases

Fast evolving hybrid landscapes

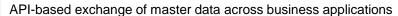


A2A integration



Chaining of business process steps between business applications by the exchange of transactional data

Master data integration





B2B integration



Chaining of business process steps between business partners by the exchange of transactional data leveraging standard B2B protocols

B2G integration



Transforming transactional data into predefined exchange formats and transfer it electronically to external legal or tax authority systems

API-managed integration



Provisioning of omni-channel and secure access to business applications

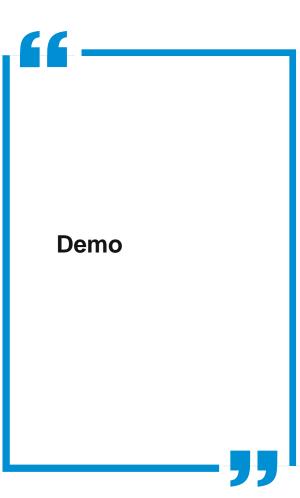
Event-based integration



Decoupling of applications, extensions or IoT data by messaging principles (pub/sub)

Digital integration hub

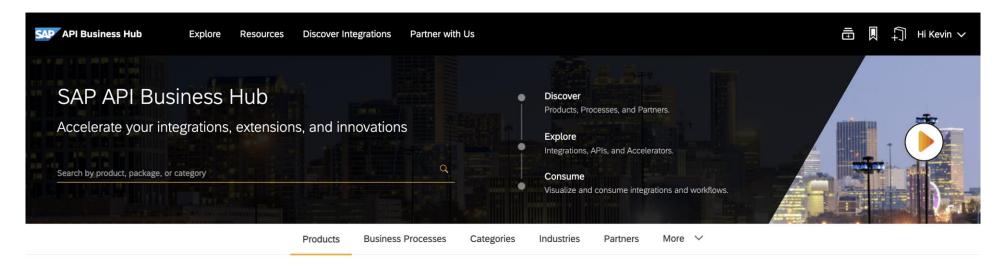
Large-scale, high-throughput APIs

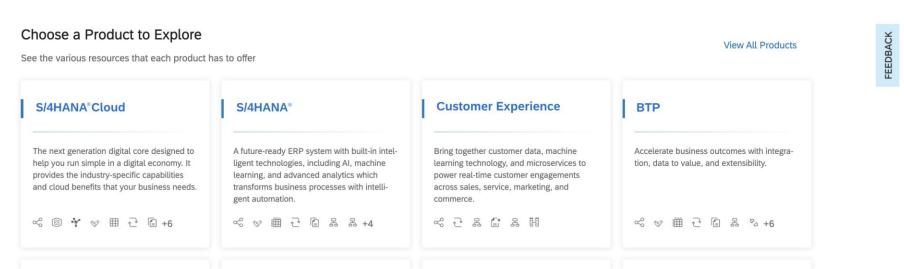




API Business Hub

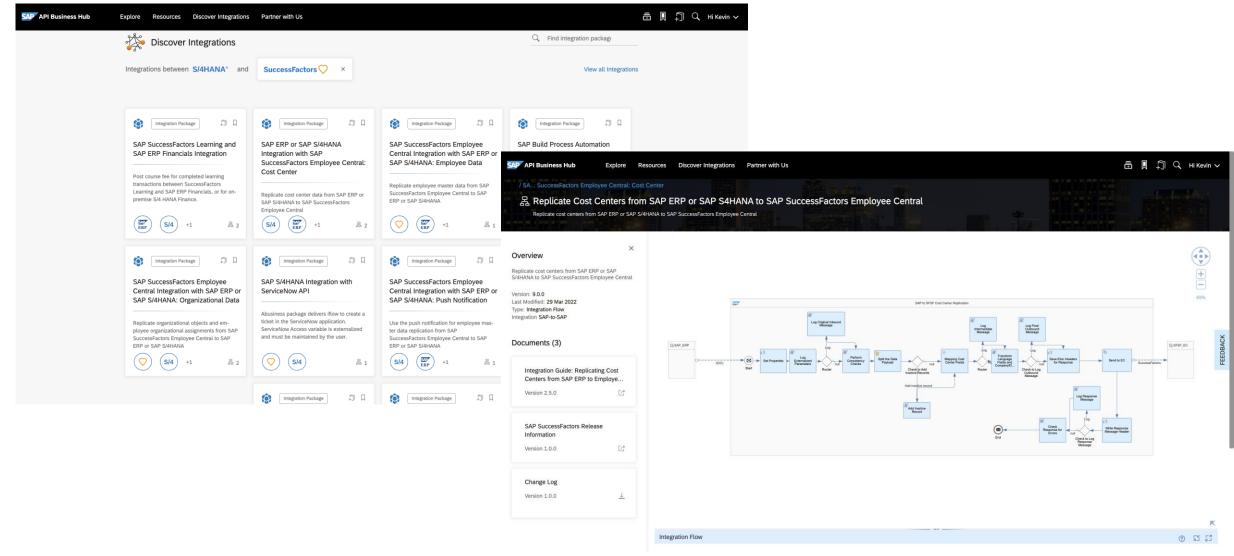
Comprehensive pre-built content for integrations ready to use





API Business Hub

Comprehensive pre-built content for integrations ready to use



Business Problem – Manual non-PO Invoice Posting Demo Scenario



- Non PO invoice are hard to assign a GL account
- · Takes too much time to do it
- Higher workloads in non valuable tasks
- Higher error prone

















- Supplier sends non-PO invoice via email
- Accountant downloads the pdf and start reviewing its data manually over and over again
- Manually enters the invoice data into the S/4HANA system, causing error prone and bottlenecks in the AP process
- Manually sends the Document number back to the user of the posted invoice

INTERNAL – SAP and Partners Only

Intelligent non-PO Invoice Creation

Demo Scenario

Benefits:

- Minimization of repetitive tasks
- Reduction of manual errors and therefore rework
- Focusing your talent on value-added tasks









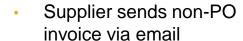


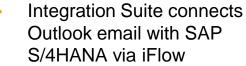










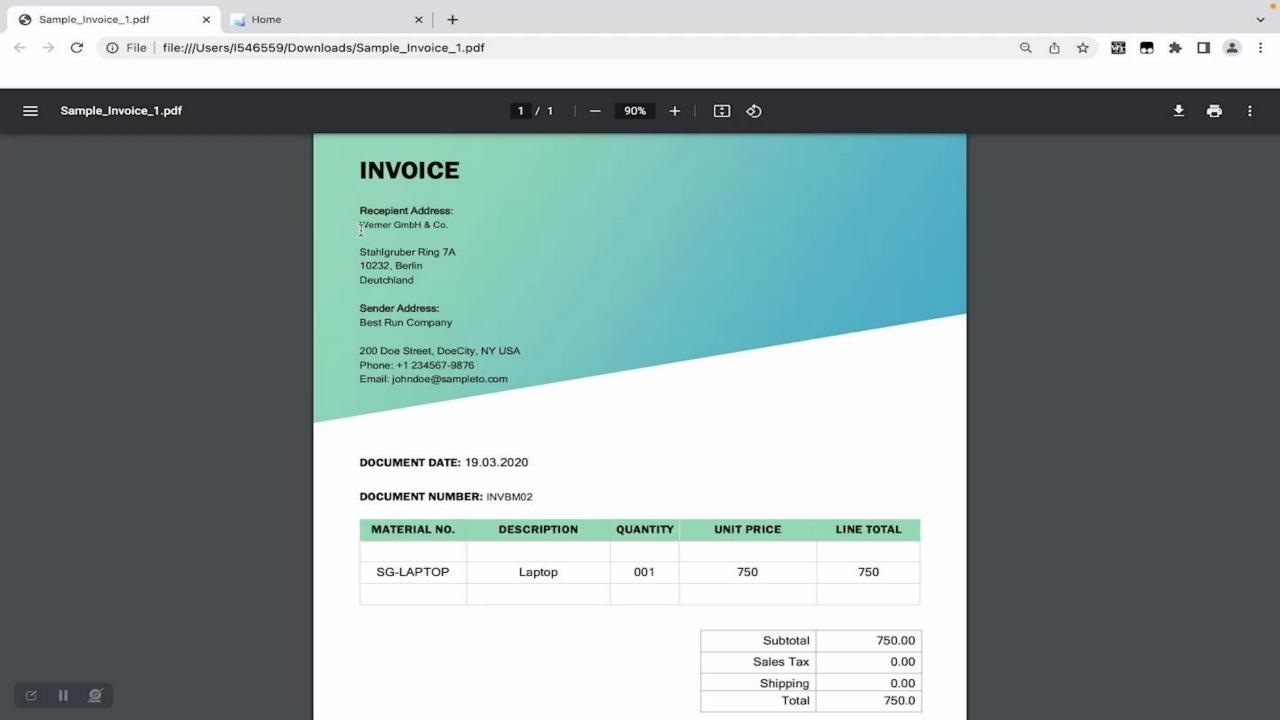


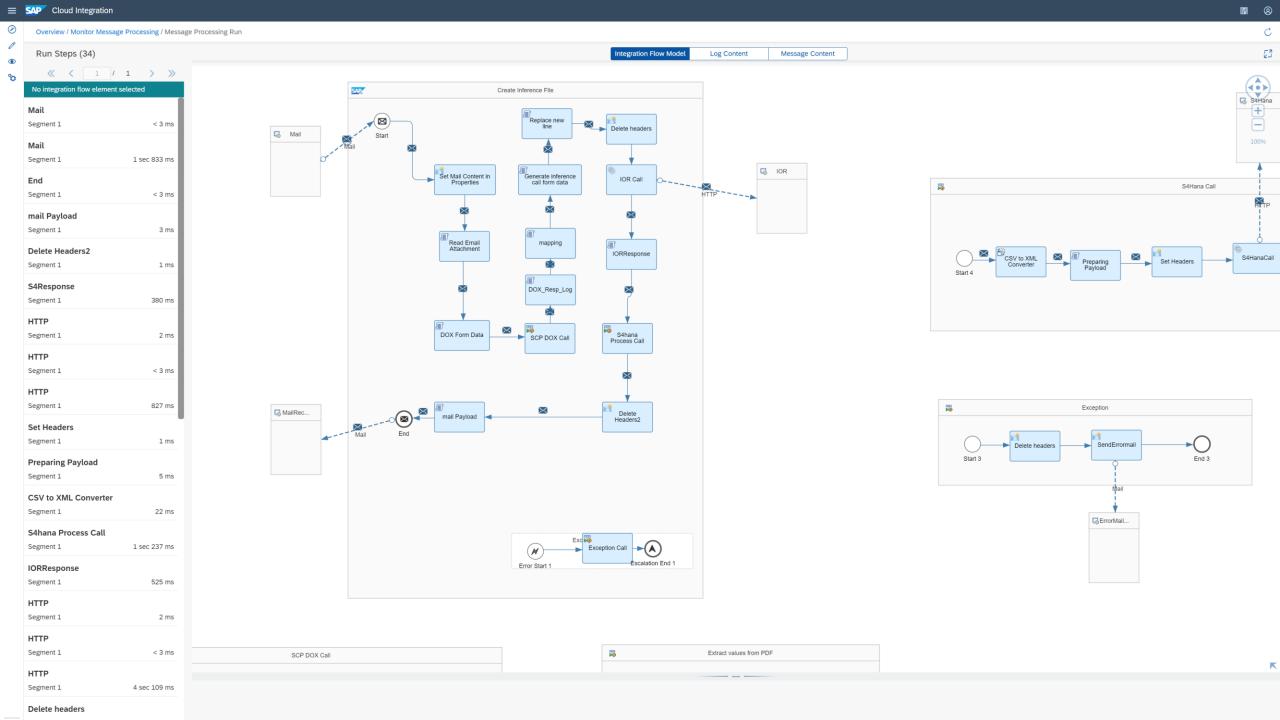


- SAP Document
 Information Extraction
 extracts invoice
 description details
- SAP Invoice Object
 Recommendation uses
 ML to suggest a GL
 account

- Posts the Invoice into S/4HANA system
- Sends the Document number back to the user of the already posted invoice.

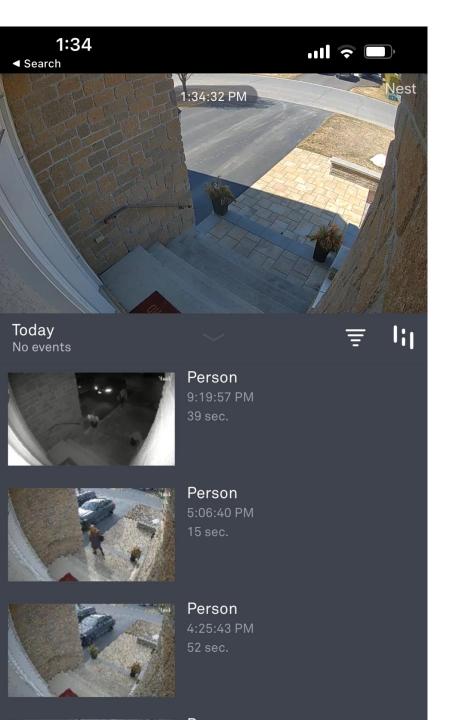
INTERNAL – SAP and Partners Only





Advanced Event Mesh





Event Definition

"a significant change in state" which we want to be informed about

Examples

- Water Leak Detected
- Ship Stopped
- Car Impact
- Person Detected via Nest Camera
- High Priority Work Order
- Goods Receipt
- Order Picked
- Car Sold
- Phone Activated

Timeliness and Context is Important

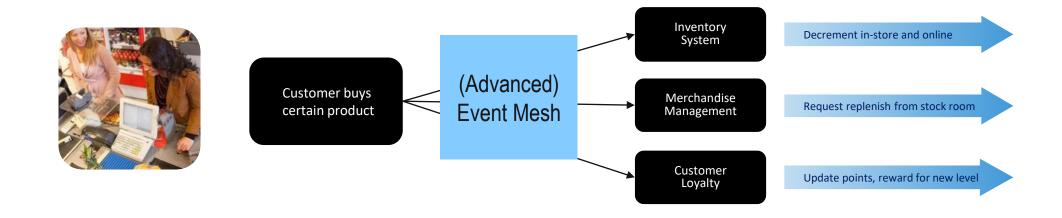


Examples

- Water Leak Detected do you want to know after it's been leaking for 3 hours?
- Car Impact If you're in an accident, you want people notified right away
- High Priority Work Order customer experience, proactively notifying customers of an issue builds brand/loyalty.
- Person Detected via Nest Camera what if the person is a thief?

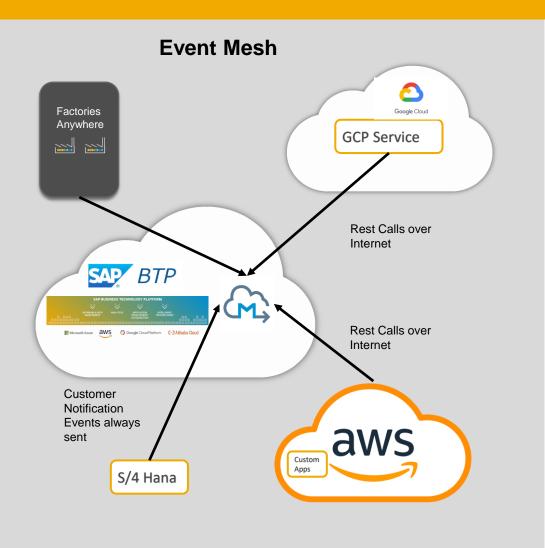
Event-Driven Architecture Example

In modern businesses, when something happens... (i.e. an *event* occurs) And (frequently) do something about it

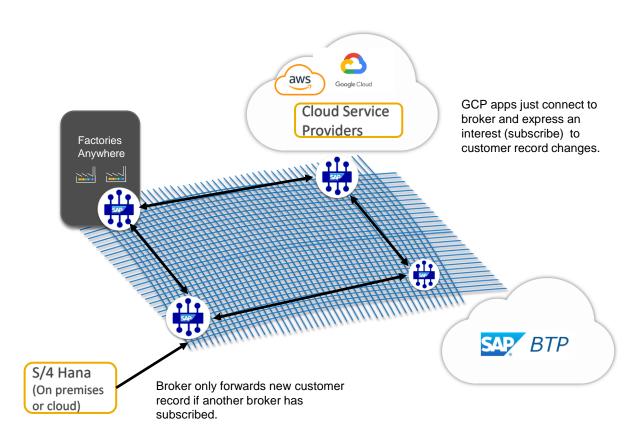


SAP Event Mesh vs. SAP Advanced Event Mesh

(MDM Example)



Advanced Event Mesh



What are the Benefits of Event-Driven Architecture with SAP?

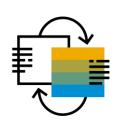
Real Time Response



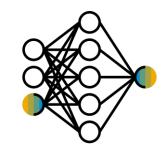
Events Discovery



Decoupled Connectivity



Dynamic Routing



Fan Out Calling





Roadmap



Road ahead: 5 big moves* we focus in 2023

Next-gen hybrid integration runtime (Already available as beta)

On-premise process orchestration runtime for integrations
On-premise API Gateway, execution of API policies & mediations on-premise
On-premise event bridge from SAP "legacy" to SAP Event Mesh and/or non-SAP event brokers

Migration from SAP
Process Orchestration
(Already available as beta)

Ease the move from SAP Process Orchestration to SAP Integration Suite Assessment, migration, and regression test tooling for customers planning move to SAP Integration Suite

Full lifecycle API management

Graph as part of API Management capability (Already available as beta)
Enhanced API analytics, operations, proactive API security leveraging machine learning

Additional integration content and connectors

Strong collaboration and ecosystem engagement for partner/community adapters and content Enrich B2B libraries in Integration Advisor for business partner & network integrations Additional connectivity options for integration with non-SAP systems (Microsoft Azure, RabbitMQ, ...)

Increased developer productivity and monitoring

Extended tenant health (insight to action), integration resources and B2B monitoring

Thank you.

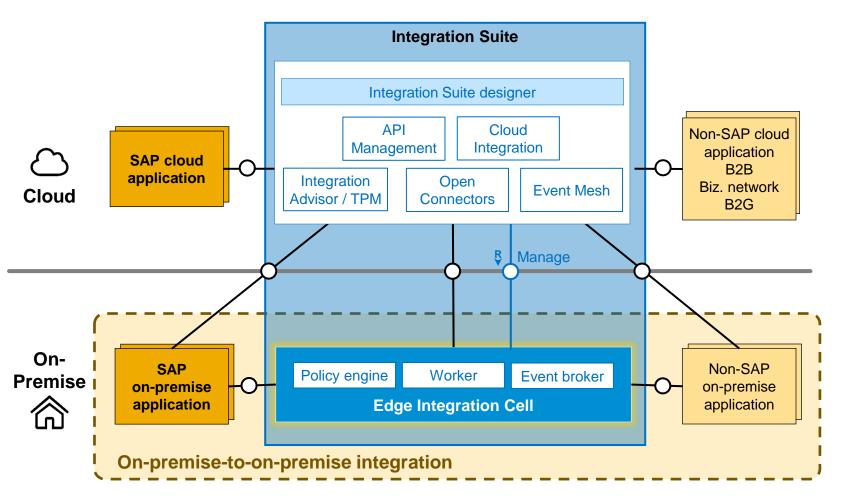
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New next-generation hybrid runtime: Edge Integration Cell (in Beta)*

Extend SAP Integration Suite in customer environments



- Integration Suite designer in cloud
 - Integration flow design including simple API policies as configurations
- Optional deployment in customer environments leveraging container technology
- Edge Integration Cell on premise
 - Run integration flows
 - Execute API policies
 - Expose business events to any broker
- Monitoring in cloud or in custom-owned on-premise monitoring tooling through remote API's
- Software lifecycle in sync with cloud delivery speed
- Migration path for SAP Process
 Orchestration customers



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Customer Stories



Bacardi – A2A and API Managed **Integrations**

Bacardi needed to create a new Sales Force Automation Platform enabling sales employees

to make their work more effective, providing an integrated system linked to all the markets, teams and 1200+ existing integration flows

Implement a hybrid integration platform based on SAP Business Technology Platform Integration Suite to work with

their existing SAP Process Orchestration system on premise

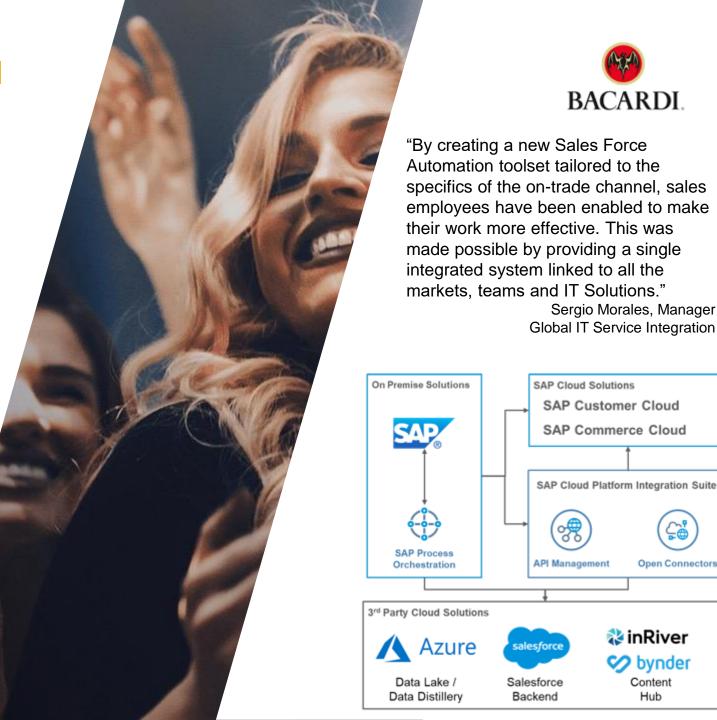
Integration components were delivered in less than one month, while achieving

new, reusable building blocks. Low-level API aps were covered without requiring new development on the backend

Region: LATAM

Industry: Consumer products

https://www.sap.com/bin/sapdxc/inm/attachment.7923/pitch-deck.pdf



Open Connectors

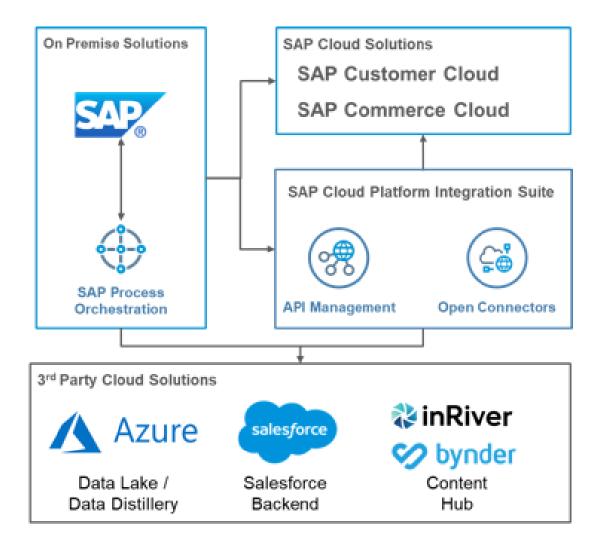
Content

Hub

Bacardi – A2A and API Managed Integrations

Integration Architecture





Centrica – A2A and API Managed Integrations

Transform and modernize against 10-year old backend systems without re-coding, adopting an API-first strategy to deliver an amazing digital experience for customers

Leverage the SAP Cloud Platform Integration Suite to link SAP on premise,

 SAP Cloud Solutions, Workday, Salesforce, Dynamics, ServiceNow, AWS, and other third-party services

Millions of Centrica customer use the website and app daily, making 5-7 million

 API calls per day through digital channels with <200 msec. response time, handling 40-50% of the total calls, increasing customer satisfaction

Region: EMEA North Industry: Oil & Gas

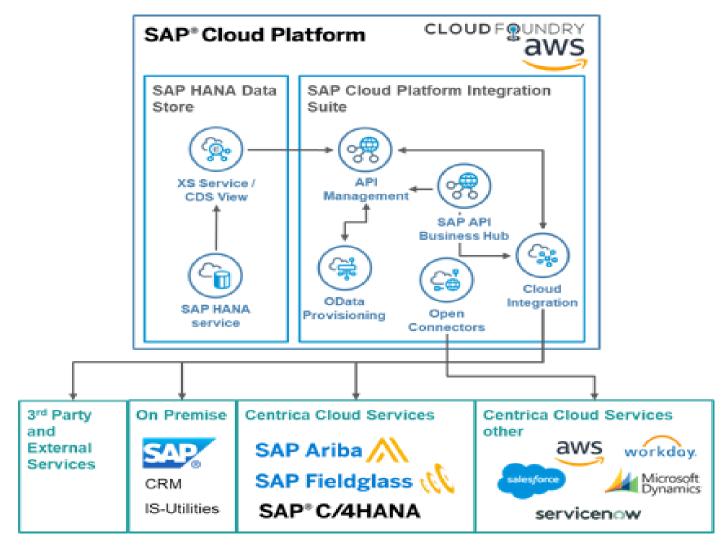
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Centrica – A2A and API Managed Integrations

centrica

Integration Architecture



Appendix







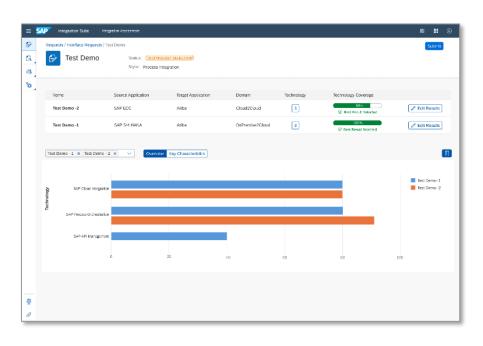












Introduce integration governance

- •Establish clear guidelines and standards.
- •Select suitable technology based on criteria.
- •Foster collaboration for successful outcomes.

Gain insights into your integration landscape

- •Identify and assess existing technologies.
- Understand how technologies are used.
- Document requirements, proposals, and selections.

Shape your integration technology strategy

- •Evaluate, select and customize technologies.
- •Identify gaps, align with objectives.
- Integrate third-party applications.





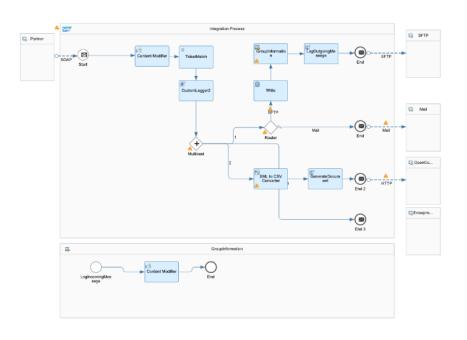












1. Hybrid and cloud application integration

- •Supports SAP and non-SAP apps for hybrid and cloud scenarios.
- Supports A2A, B2B, and B2G scenarios with open standards.

2.Cloud technology

- •Built on cloud tech with strong security and high availability.
- Accessible via public OData APIs.

3.Pre-packaged content for accelerated integration

- Pre-built content for fast integration projects.
- •Customizable and compatible with SAP Process Orchestration.





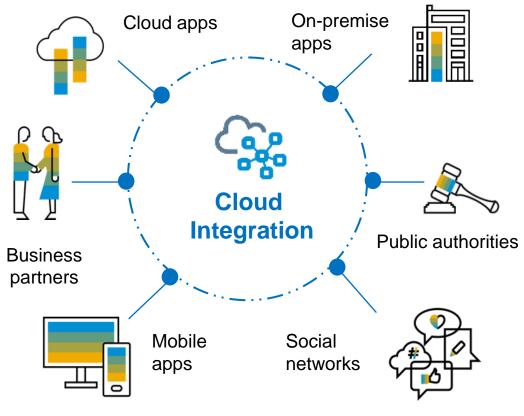












4. Ecosystem integration

- •Integrates with business networks.
- •Partners can develop content and adapters.

5. Visual development and monitoring

- •Includes pre-built templates for easy integration.
- •Offers strong security and business network integration.





































































