

# 83252: Hybrid integration with SAP's Integration Platform

Gayathri Narayana, SAP May, 2019

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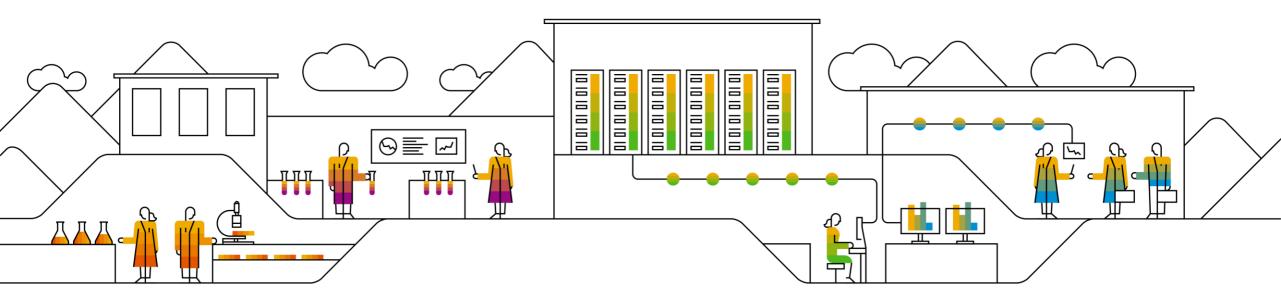
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#### Agenda

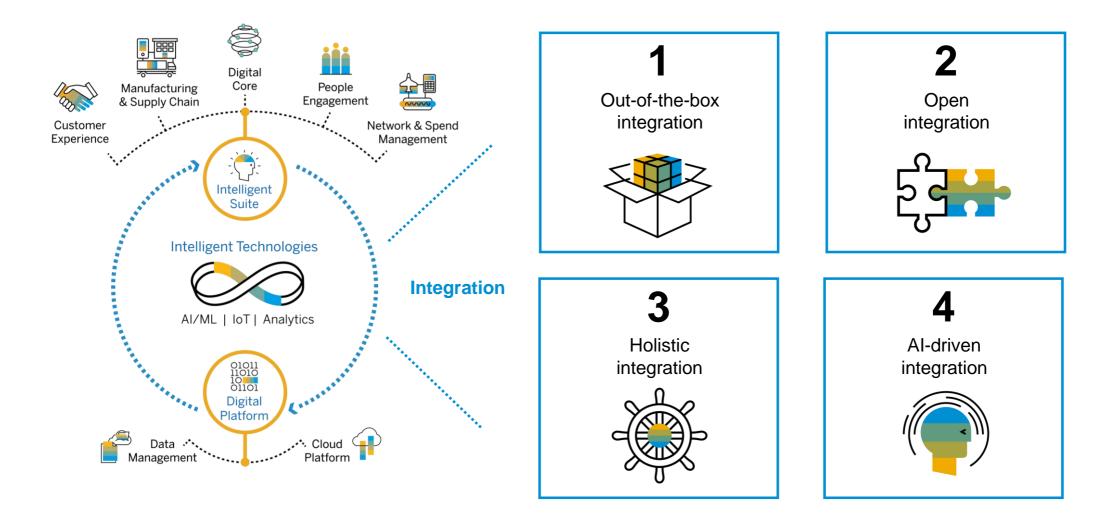
- SAP Cloud Platform Integration Suite
- □ SAP Cloud Platform Integration
- SAP Process Orchestration

# **SAP Cloud Platform Integration Suite**



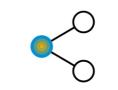
## SAP's integration strategy for the Intelligent Enterprise

Intelligent Enterprise is an integrated enterprise



#### How do we simplify integrations?





Simple Semantic APIs 800+ APIs from SAP and partners



# **open connectors** for hub-based integrations

175+ connectors to 3<sup>rd</sup> party apps



Machine learning to simplify integrations Integration Content Advisor



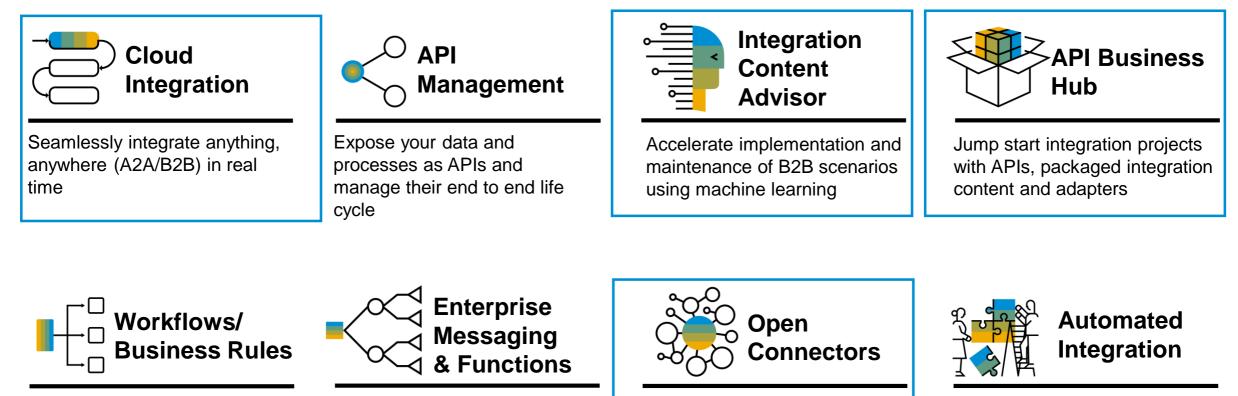
Cloud-deployment and pay-as-you-go Cloud-native architectures, Cloud credits



Multicloud deployment offering SAP | hyperscale IaaS | Private cloud

## **SAP Cloud Platform Integration Suite**

A modular iPaaS to connect the Intelligent Enterprise



Automate business processes and enterprise decisions

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send messages and events to trigger functions in responsive, event-driven architectures

Decouple communication and

Accelerate connectivity to thirdparty applications

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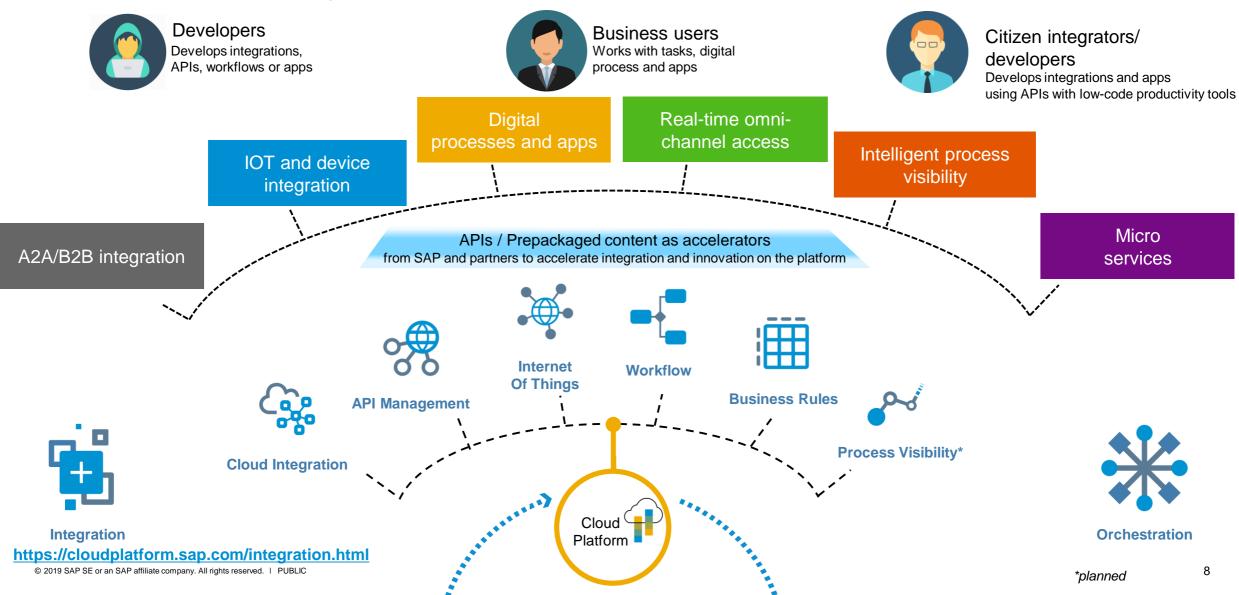
Guided, partially automated

and role based workflow to

ease integrations

# **Integration & Orchestration services in SAP Cloud Platform**

SAP Cloud Platform Integration Suite



# **CIO Guides for Integration**

Two Complementary Guides



#### **CIO Guide I:**

#### SAP Vision for Integrating SAP Applications in Cloud and Hybrid

Describes SAP's long term vision for integration – published in 2017

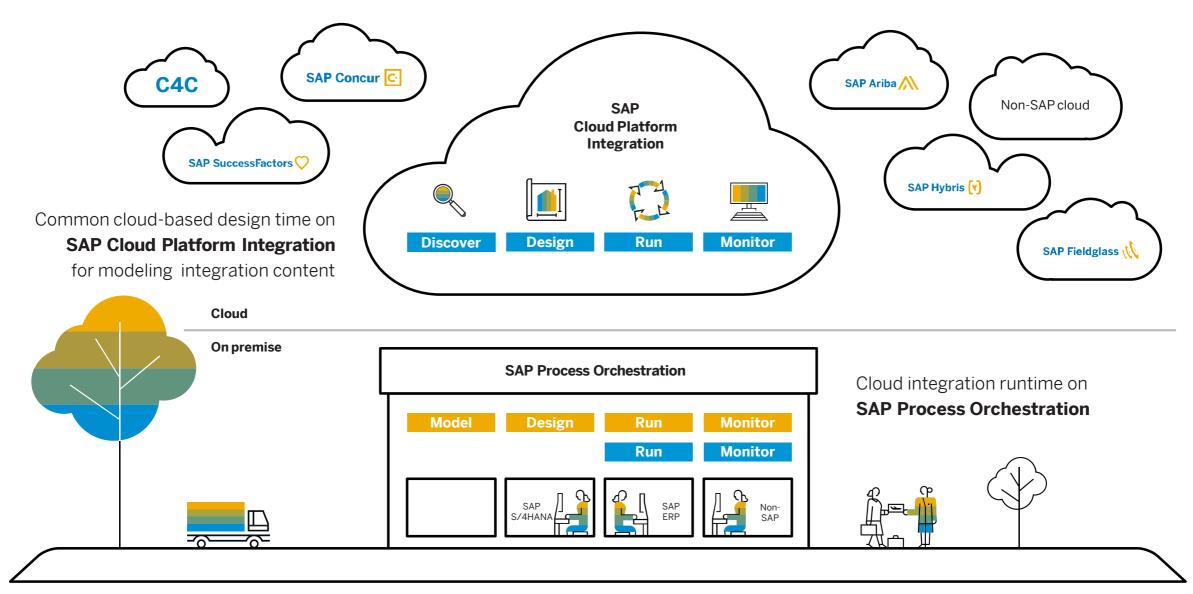
- Integration Challenges and Use Cases
- API Alignment
- Technology Guidance for Process Integration
- Technology Guidance for Data Integration

#### **<u>CIO Guide II: Process and Data Integration in Hybrid Landscapes</u>**

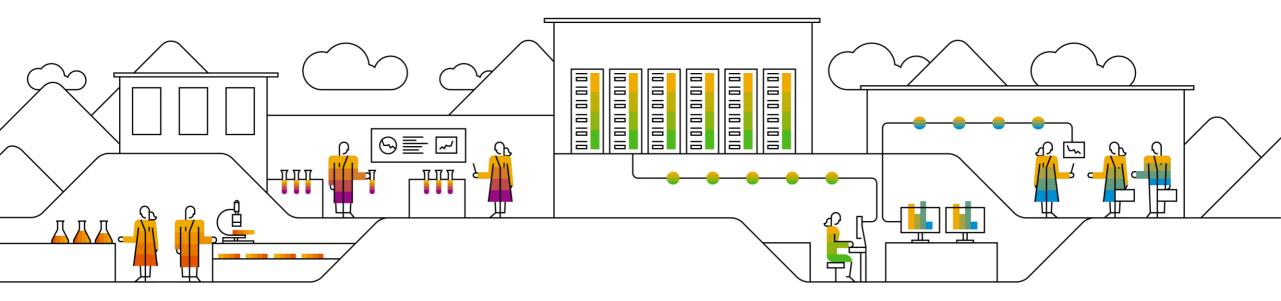
Provides refined guidance based on existing technology portfolio – published SAPPHIRE 2018

- SAP API Strategy
- Integration Solution Advisory Methodology (ISA-M)
- Refined Technology Guidance for Process and Data Integration
- B2B Integration
- Integration Automation
- SAP S/4HANA Transition Guidance

### **Application integration in hybrid environments**



# **SAP Cloud Platform Integration**



## **SAP Cloud Platform Integration**



Seamlessly connects cloud applications with other SAP and non-SAP cloud and on-premises apps to eliminate data silos and make digital access simple, secure, and scalable.

#### Integrating hybrid and cloud application

- Intuitive web interface with built-in templates
- Supporting A2A and B2B/B2G scenarios with focus on non-SAP

#### **Cloud technology**

- Strong security focus and infrastructure availability
- Access via public OData APIs

#### Integration content advisor

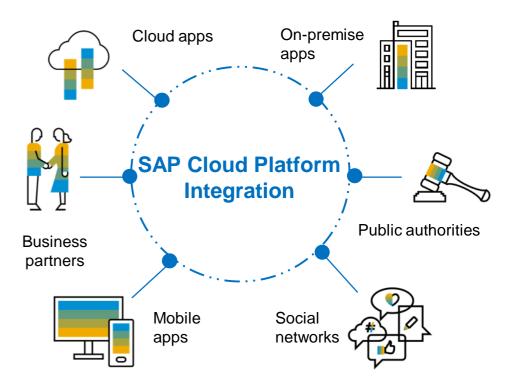
- Crowdsourcing capabilities for creating and maintaining integration content
- Designed to accelerate every interface implementation, to learn continuously, and to reduce efforts by 60% or more

#### Prepackaged content to accelerate integration projects

Extension of pre-delivered content to include custom requirements

#### Ecosystem

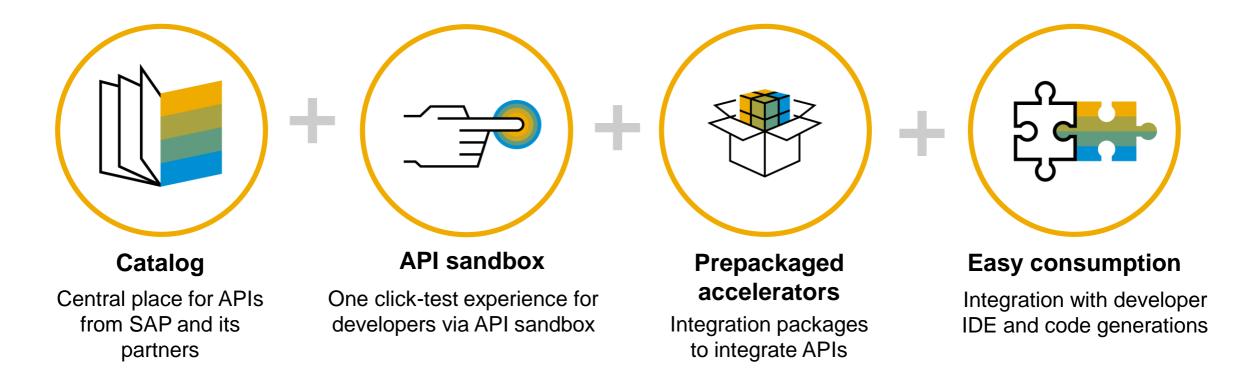
- Ability to integrate with business networks
- Open to partners for developing integration content and adapters



#### **Out-of-the-box** integrations



Search, discover, experience and consume to right APIs from SAP and select partners for your digital transformation projects



# Machine learning to simplify integrations

Integration content advisor for SAP Cloud Platform Integration (ICA)

#### Intelligent content management system

- Central integration knowledge base for integration wherein all crowdsource based learnings from interface customizations and mappings are stored
  - SAP meta models of APIs
  - International standards
- Proposal service via machine learning & crowd sourcing
- Automatic generation of
  - Documentation
  - Runtime artifacts
  - Validation rules

60% or more.

Community collaboration for creating and maintaining tailored integration interfaces and mappings



ICA Editor

Interface Specification

Mapping Specification

**Runtime Artifacts** 

Target

MIG

Ò

Source

MIG

**ICA** 

**Knowledge Base** 

l earned

Content

Standard

Content

Propose

Contribute

## **SAP Cloud Platform Cloud Integration**

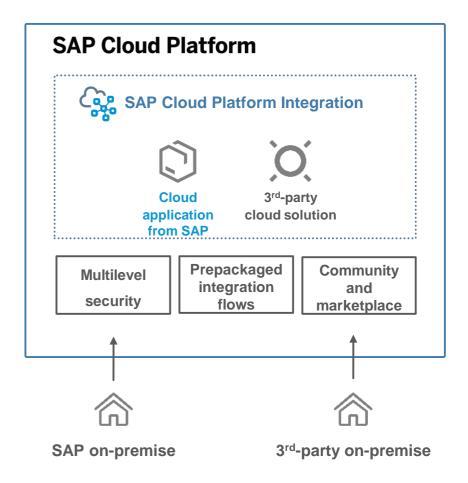
#### **Product Innovations**

- SAP Cloud Platform Open Connectors to simplify connectivity to 175+
   3rd party applications
- Increased developer productivity: API based integration flow generation, version migration, integration flow copy, auto-save, adapter configuration copy
- OData APIs for Integration Flows, e. g. update, deploy
- Availability on AWS (restricted beta)
- Self-service of SAP Cloud Platform Integration tenants for consumption-based license model
- Activating Enterprise Messaging Capabilities for any cloud integration license; includes AS2, JMS, XI (with JMS queues) adapters
- Regression tests of customer integration flows and Cloud Integration

#### **Automation Service**

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# **SAP Cloud Platform Integration**

#### Product road map overview

Recent innovations	Planned Q2/2019 <sup>1</sup>	Planned Q3/2019 <sup>1</sup>		Planned Q4/2019 <sup>1</sup>
Integration content	B2B / B2G Integration	Integration content		Integration content
<ul> <li>Increased developer productivity: Integration flow copy, auto-save, adapter</li> </ul>	<ul> <li>Additional Integration Content Advisor capabilities, e. g. SAP type systems (SOAP, IDoc, OData)</li> </ul>	<ul> <li>Increased developer productivity such as integration flow test, GIT support</li> </ul>		<ul> <li>Increased developer productivity</li> </ul>
copy, import of existing integration flow				B2B / B2G integration
archive		Connectivity		<ul> <li>Further connectivity options as OFTP</li> </ul>
<ul> <li>Public SAP API Business Hub for cloud integration content: <u>https://api.sap.com/</u></li> </ul>	Monitoring and operations	<ul> <li>Additional connectivity options as JDBC (for on-premise DBs, public cloud)</li> </ul>		<ul> <li>VDA type system in Integration Content Advisor</li> </ul>
	<ul> <li>Self-service to subscribe for SAP Operations notifications</li> </ul>			
Connectivity	operations notifications			Monitoring and operations
<ul> <li>Additional connectivity options such as</li> </ul>	Cloud platform environment support	<ul> <li>B2B / B2G Integration</li> <li>Additional B2B/B2G capabilities, such as archiving</li> <li>Monitoring and operations</li> </ul>		<ul> <li>Authorizations on integration flow level</li> </ul>
AS4, JDBC (for DBs in Neo), Open Connectors, Elster ERiC	<ul> <li>Initial, productive release in AWS</li> </ul>			Key capabilities planned beyond Q4
<ul> <li>On-premise enablement in SFTP adapter</li> </ul>				<ul> <li>Additional B2B capabilities such as trading partner management</li> </ul>
B2B / B2G integration		<ul> <li>Self-service subscription</li> <li>SAP Cloud Platform</li> </ul>		<ul> <li>Support for further cloud platform environments as Alibaba Cloud</li> </ul>
• XSLT 3.0		<ul> <li>Preview tenant support bundled with</li> </ul>		<ul> <li>Additional certifications, such as ISO 27018</li> </ul>
Further capabilities		customer test servic	e	
Restricted beta release in AWS		Cloud platform environment support		
<ul> <li>OAuth support for remote OData APIs</li> </ul>		<ul> <li>Productive release in Microsoft Azure</li> </ul>		
		<ul> <li>Public trial</li> </ul>		
1. This is the current state of planning and may be changed		Search also for "SA https://sap.com/roa	P Road Map for Cloud Integration": dmaps	

## **SAP Cloud Platform Open Connectors**

Simplify connectivity to 175+ 3rd party applications

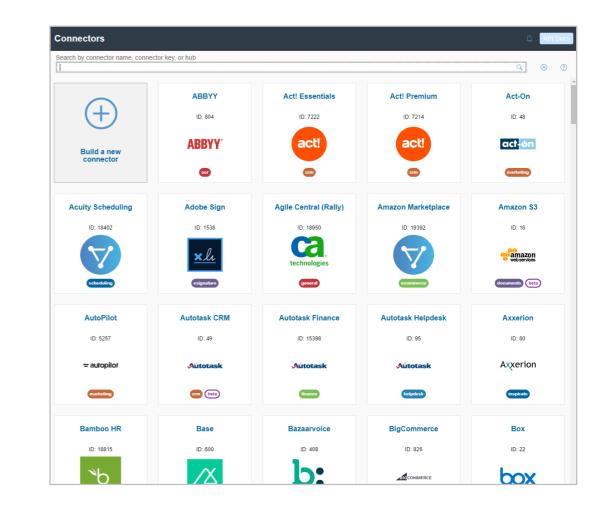


- Feature rich connectors to 175+ non-SAP applications
- Select connectors you need and authenticate via the providers
- Build your own connector with Connector builder with normalized features including authentication, pagination, errors and search



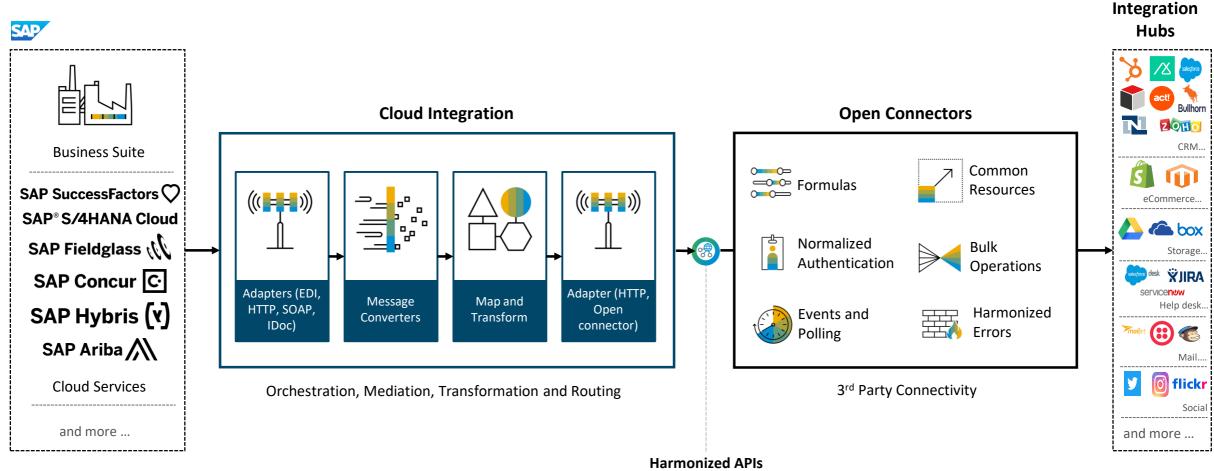
# BENEFITS

- Easily connect to top SaaS applications in use
- Open RESTful APIs and JSON data format embeddable easily within any product
- Power your business agility incorporating real time data from non-SAP applications



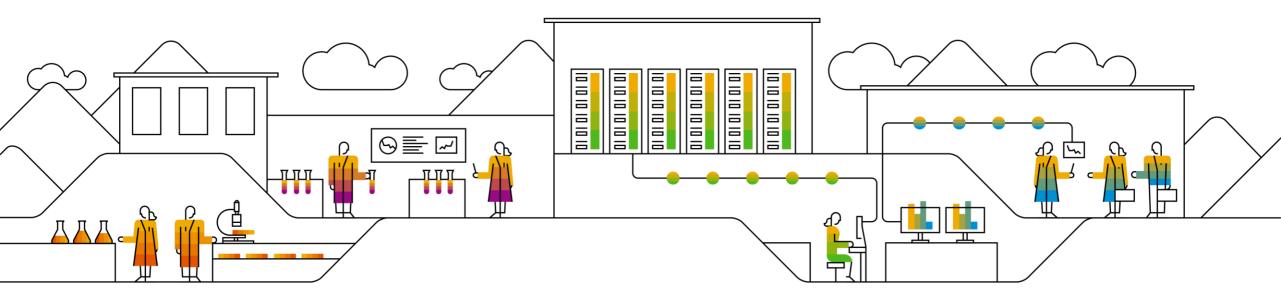
## **SAP Cloud Platform Open Connectors**

Hub-based  $(1 \rightarrow N)$  Integrations: Simplicity with harmonized APIs



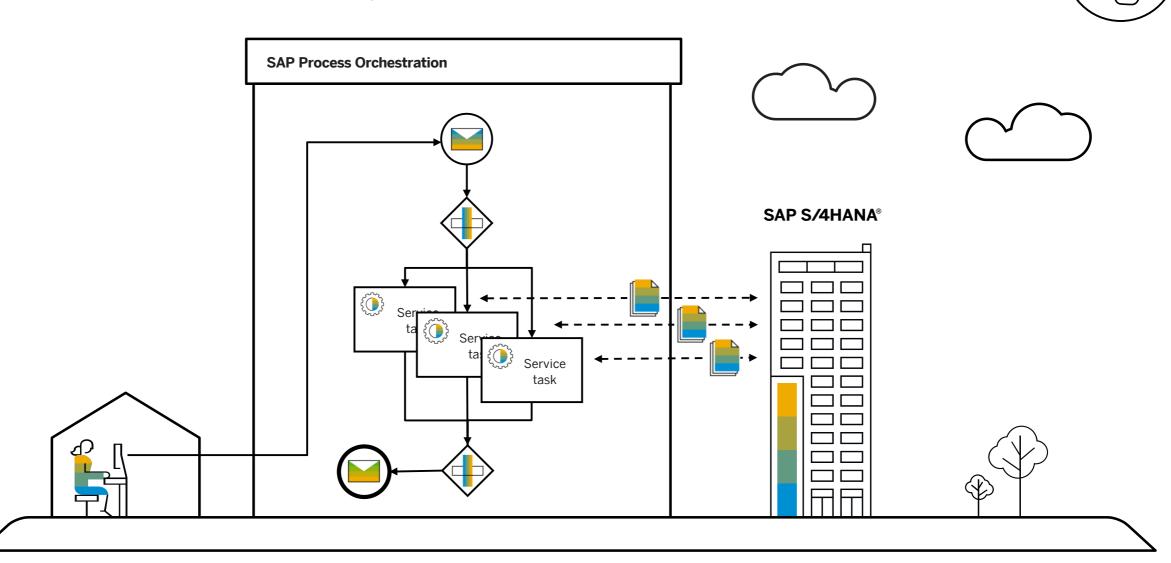
to reduce cost of 3<sup>rd</sup> party integration

# Hybrid Integration with SAP Process Orchestration



# **Build and run**

Service composition scenario to gather product information



#### **SAP Process Orchestration**

#### Product road map overview – Key innovations

Recent innovations	2018 – Planned innovations <sup>1</sup>	2019 – Product direction <sup>1</sup>	2020 – Product vision <sup>1</sup>
<ul><li>Developer productivity</li><li>ESR in Eclipse enhancements, e.g., ACL</li></ul>	Developer productivity	Developer productivity	Continuous platform support
authorizations, display object status, matching service interfaces, return as XML in message mapping, etc.	<ul> <li>ESR in Eclipse enhancements continued, e.g., data type enhancement and adapter metadata</li> </ul>	<ul> <li>ESR in Eclipse enhancements continued</li> </ul>	<ul> <li>SAP plans to provide a SAP NetWeaver release for the integration &amp; orchestration use case beyond version 7.5 based on new Java and Eclipse version</li> </ul>
Connectivity	editor, etc.	Connectivity	
<ul> <li>Mail adapter supporting STARTTLS</li> <li>WS-Security enhancements</li> <li>New B2B features, e.g., disable message split, number range object export/import, flexible routing</li> </ul>	Connectivity	<ul> <li>New B2B features based on</li> </ul>	
	<ul> <li>REST adapter supporting XSRF token</li> </ul>	Customer Engagement Initiative influence project	Hybrid landscapes
	<ul> <li>SSL via Elliptic-curve cryptography</li> </ul>	<ul> <li>REST adapter supporting JSON</li> </ul>	<ul> <li>Continuous investment in leveraging SAP Cloud Platform Integration innovations as a basis for supporting hybrid integration</li> <li>Continuous investment in SAP Process Orchestration core capabilities and platform support for safe guarding our customer base's core integration scenarios</li> </ul>
Monitoring & Operations	Monitoring & Operations	Web Token	
<ul><li>Tool support for automated testing</li><li>Support for SAP Passports for metering</li></ul>	<ul> <li>Tool support for automated testing continued</li> </ul>	Monitoring & Operations	
<ul> <li>Advanced message monitoring in Focused Run</li> </ul>	<ul> <li>Support for SAP Passports for monitoring use case</li> </ul>	<ul> <li>Tool support for automated testing continued</li> </ul>	
<ul> <li>Hybrid integration</li> <li>Continuous updates of cloud integration runtime, e.g., XI, Facebook and Twitter adapter, handling number ranges, etc.</li> </ul>	<ul> <li>Monitoring API for WS-RM</li> </ul>	Hybrid integration	
	Hybrid integration	<ul> <li>Continuous updates of cloud</li> </ul>	
	<ul> <li>Continuous updates of cloud integration runtime</li> </ul>	integration runtime	

#### Summary

□ SAP Cloud Platform Integration and SAP Process Orchestration form the cornerstone of SAP's

process centric integration strategy.

Both offerings are complementary and can be leveraged together for Hybrid integration

scenarios.

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# **Presentation Materials**

Access the slides from 2019 ASUG Annual Conference here: <u>http://info.asug.com/2019-ac-slides</u>



# For questions after this session, contact me at gayathri.narayana@sap.com

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