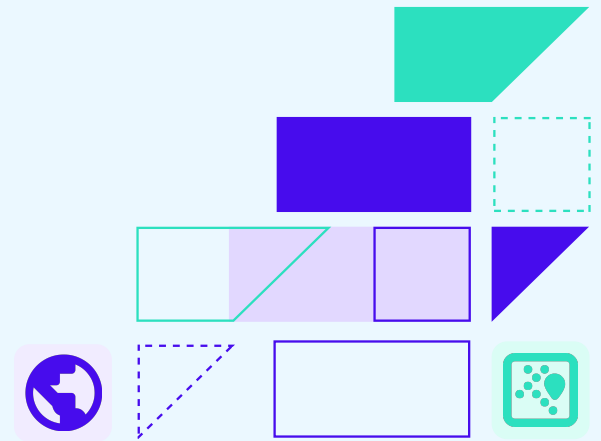


SAP TechEd

Event-Driven Architecture with SAP Integration Suite, Advanced Event Mesh

IN265

Karsten Strothmann, SAP SE
November, 2023



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Our Team



Christian Holtfurth

Technical Product Management

SAP

Experienced Solution Architect and Solace Distinguished Engineer with a demonstrated history of working in the information technology, financial services industry and other sectors adopting EDA with a focus on event-enabling SAP systems.



Chandan Kumar

BTP CORE INT CIE (IN)

SAP

Building Event Mesh Platform at SAP

Our Team



Karsten Strothmann

Lead Product Manager

SAP SE

Karsten Strothmann is Lead Product Manager and evangelist for Event-Driven Integrations at SAP SE in Walldorf, Germany.



Hari Yada

BTP CORE INT CIE (IN)

SAP

DevExpert for the product SAP Integration Suite, advanced event mesh

Agenda

High Speed Introduction

Hands-On

Q&A



Events and real-world event-driven architecture

An **event** is a **significant change in state**.

Notification events or **data events** can be sent from the **event source** to inform of the change.

A message holding the event description in an encoded format is sent through an **event broker**.

Event consumers have registered with the event broker and are informed of the event.



```
{"type":"sap.s4.beh.businesspartner.v1.BusinessPartner.Changed.v1","specversion":"1.0","source":"/default/sap.s4.beh/0000000007","id":"fa163e0b-4824-1eec-83f7-32dfc754759c","time":"2021-09-07T08:57:17Z","datacontenttype":"application/json","data":{"BusinessPartner":"1000187"}}
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SAP's event-driven ecosystem

Event sources

SAP S/4HANA
SAP S/4HANA Cloud
SAP ERP
SAP SuccessFactors solutions
SAP Marketing Cloud
SAP Data Intelligence
SAP CPQ
Other SAP solutions
3rd party

Eventing infrastructure

SAP Integration Suite

- SAP Event Mesh
- Advanced event mesh
- Event catalogs

Event consumers

SAP Integration Suite
SAP Business Technology Platform (SAP BTP) services and apps
SAP back ends
(SAP S/4HANA Cloud and SAP S/4HANA, SAP ECC and SAP S/4HANA using add-on)
SAP BTP, Kyma runtime
SAP Data Intelligence
SAP Datasphere*
SAP Build*
3rd party

Know-how

Guidance (ISA-M ...) and learning materials (DC missions ...)

Event sources and consumers

Standard SAP and custom add-on events

SAP ERP

- Custom events only using the event enablement add-on
- Can be notification events and data events
- Allowing for inbound and outbound events
- CloudEvents format

Add-on

SAP S/4HANA Cloud

Standard

- ~600 standard notification events documented on SAP Business Accelerator Hub
- Notification events that cannot be adjusted
- New events by request to SAP development only

ABAP RESTful application programming model-based events

- Currently custom notification and data events
- Adjustable and extensible standard events from February 2024

SAP S/4HANA

Standard

- ~600 standard notification events documented on SAP Business Accelerator Hub

ABAP RESTful application programming model-based events

- Extensible standard events from 2308
- Custom notification and data events

Custom add-on events

- Notification and data events
- Can be inbound and outbound

Add-on

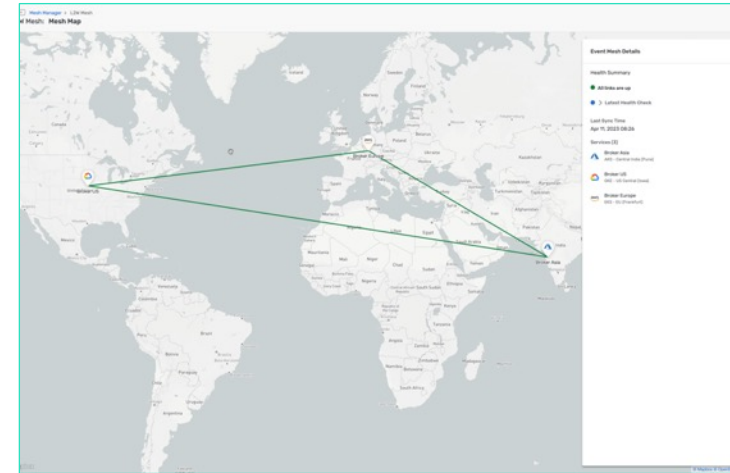
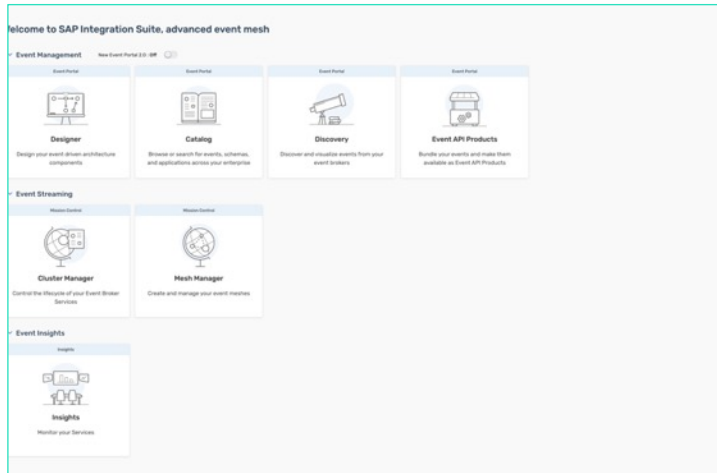
SAP SuccessFactors solutions

- Intelligent service events reused
- Adjustable standard events
- Can be notification and data events
- Not possible to create custom events
- No CloudEvents format yet (JSON/SOAP)

SAP Integration Suite, advanced event mesh

SAP Integration Suite

SAP Integration Suite, advanced event mesh



Overview

- Distributed mesh of event brokers that can be deployed across environments
- Full purpose set of eventing services
- Supports event streaming, event management, and event monitoring
- Brokers come in T-shirt sizes and fully scale as required

Benefits

- Enterprise-grade performance, reliability, security, and governance
- Scales from small to ultra large use cases
- Brokers can be deployed in existing public cloud or private cloud environments
- Dynamic message routing, topic hierarchy, and fine-grained filtering
- Includes advanced event management toolset



Hands-On

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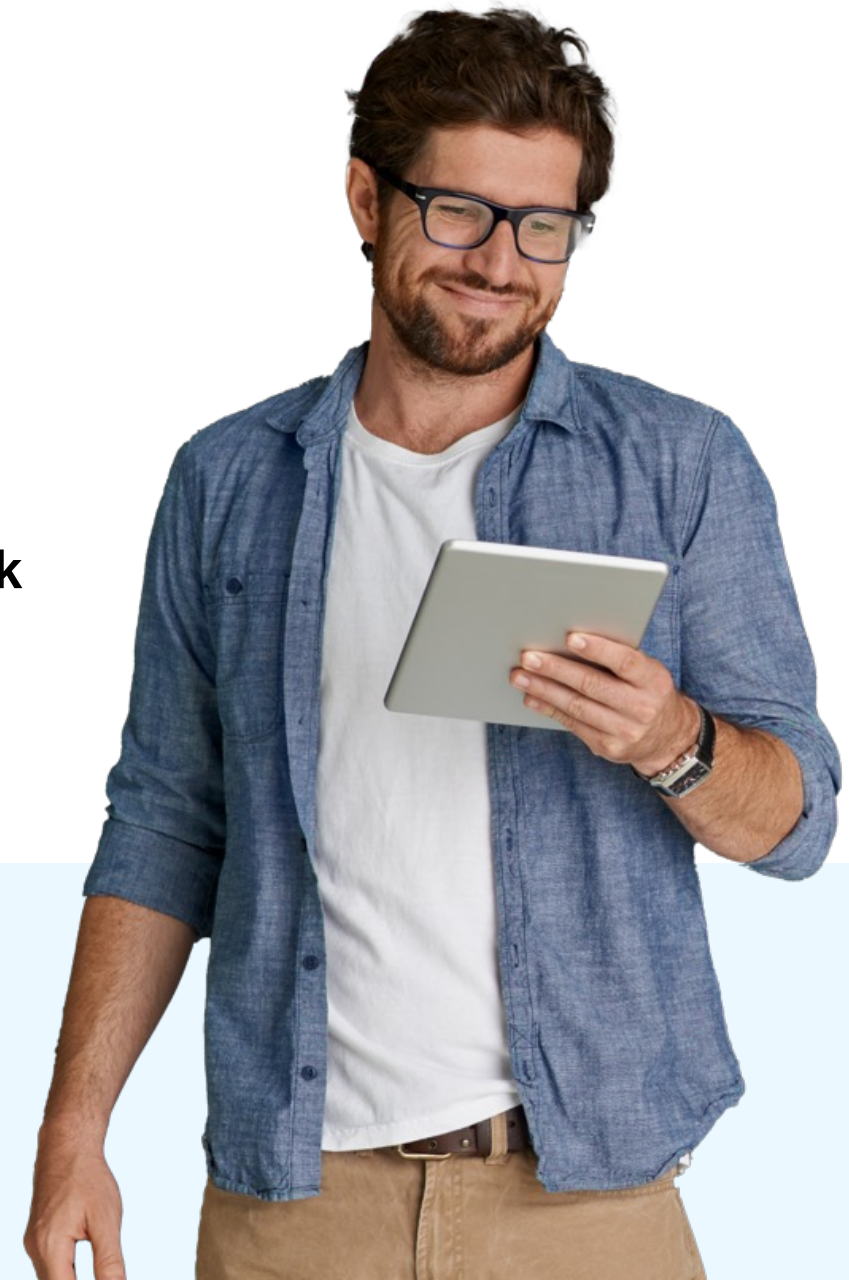
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Thank you

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