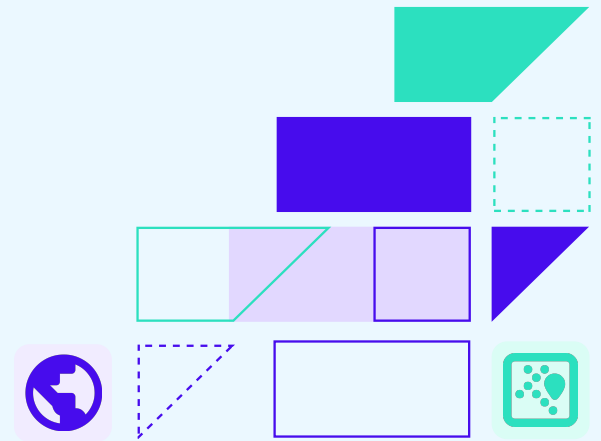


SAP TechEd

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

IN265

Karsten Strothmann, SAP SE
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Our Team

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 via 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 BTP Services & 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 vs. Custom Add-On Events

SAP ECC

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

Add-On

SAP S/4HANA Cloud

Standard

- Around 600 standard notification events that can be looked up at SAP Business Accelerator Hub
- New standard events by request to SAP development

RAP Based Events

- Currently custom notification and data events
- In Future Adjustable/extensible standard events

SAP S/4HANA

Standard

- Around 600 standard notification events that can be looked up at SAP Business Accelerator Hub
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RAP Based Events

- Currently custom notification and data events
- Extensible standard events

Custom Add-On Events

- Notification and data events
- Can be inbound and outbound

Add-On

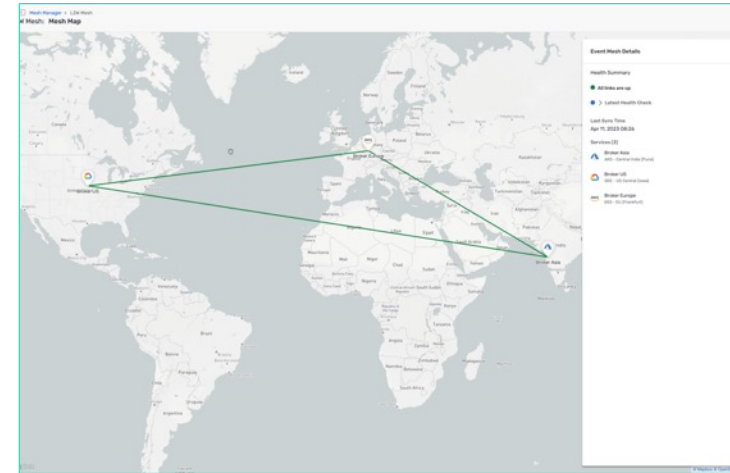
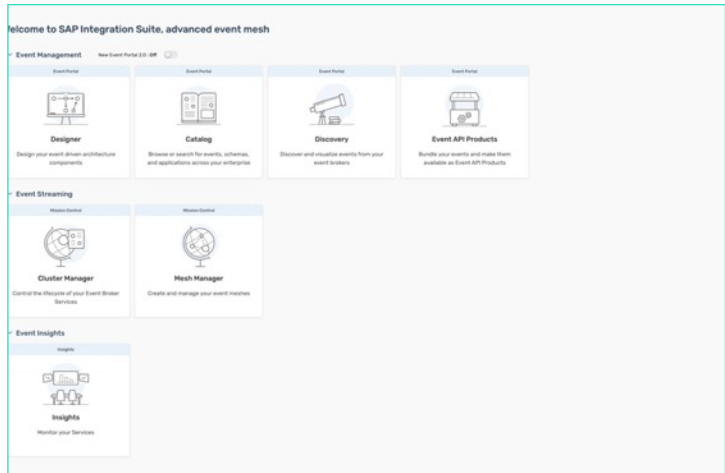
SAP SuccessFactors

- Intelligent service events re-used
- Adjustable standard events
- Can be notification and data events
- No custom events can be created
- JSON/SOAP format

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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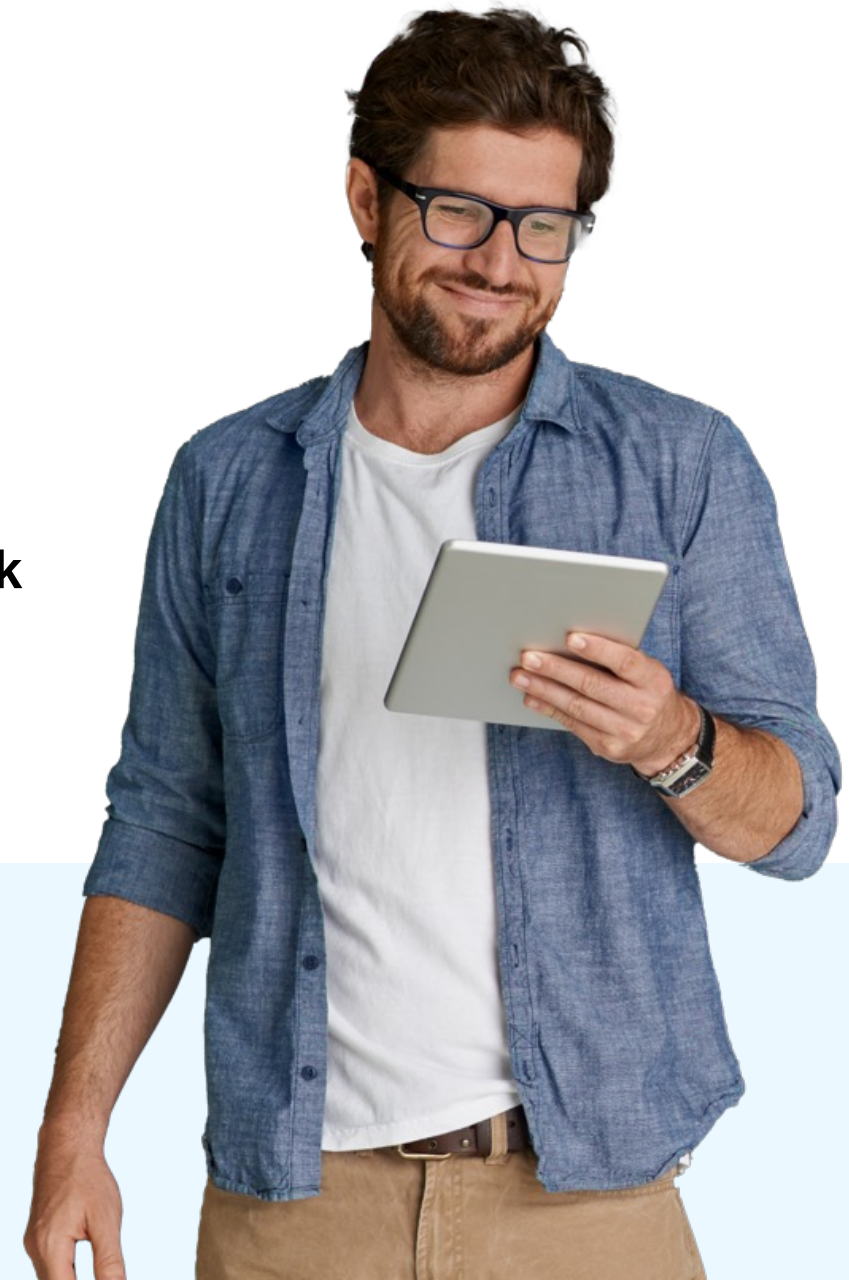
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Thank you

Contact information:

Karsten Strothmann
Lead Product Manager EDA @ SAP Integration Suite
LinkedIn name

