SAP Integration Suite
Monthly Updates – April 2023

Product Management Team & Guests, SAP Integration Suite
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Agenda

• Cloud Integration
• Event Mesh
• Q & A
Cloud Integration
Action required: Move from Advantco adapters to new adapter versions

As per SAP note 3001980 the following adapters from Advantco are deprecated since December 31st, 2020:
- Salesforce, Amazon Web Services, Microsoft Dynamics, SugarCRM

There haven't been any new features or enhancements for these adapters.

As of January 1st, 2024, adapters will no longer run.

Action required
- Option 1: Migrate to updated new adapter versions and benefit from multiple new features
  - Migration support documented in SAP Work Zone, e.g. Salesforce adapter, Amazon Web Services adapter
  - Request access to SAP Work Zone at Annemarie Kiefer (annemarie.kiefer@sap.com)
  - Partner company Rojo Consultancy offers tips and tricks
  - Rojo Consultancy offers consultancy services. Fees apply.
  - For further question and support, open a ticket on the “LOD-HCI-PI-CON-TPRO” component, subject: “Help with upgrading to the OEM adapters”
- Option 2: Purchase new Advantco adapter versions from Advantco with support from Advantco only
- For both options: Delete integration flows using the adapters that are no longer in use and undeploy adapters
Event Mesh
Agenda

Event-Driven Architecture
- Event Native Mindset
- Basics and Concepts
- Benefits of EDAs

SAP’s Event-Driven Ecosystem
- Big Picture
- Event Mesh and Advanced Event Mesh
- Event Sources

Event-Driven Use Cases

The Road Ahead

Quick Demo
Event Native Mindset
Traditional IT acts as data custodian
We need to operate at the speed of business

Scott, IT, Fortune 500 Customer
State-of-the-art IT acts as nervous system
WhatsApp Style
Inform an access-controlled group of event consumers proactively about events in real time

Twitter Style
Inform all interested consumers about significant changes in real time

#SocialMediaApproaches
#InEnterpriseEnvironment
We want our ERP to be a team player

Derrick, Fortune 500 Customer
Event-driven Architecture in a nutshell
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

{
    "specversion": "1.0",
    "source": "/default/sap.s4.beh/0000000007",
    "id": "fa163e0b-4824-1eeec-83f7-32dfc754759c",
    "time": "2021-09-07T08:57:17Z",
    "datacontenttype": "application/json",
    "data": {
        "BusinessPartner": "1000187"
    }
}
**Event Type: Patterns, Sizes and Trends**

**Notification Event**
- Extra Small
- Additional synchronous step required
- Controlled data access
- Suitable API needed on top of suitable event

**Data Event**
- Small to Large
- Required data included in event
- Size differs (Full > Custom > Decision)
- Raises topics like data access and protection

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**Diagram**
- SAP Backend → Business Object → SAP Event Mesh → Optional API Call → SAP BTP Extension
Benefits of event-driven architecture

### Technology

- **Loose Coupling** results in flexibility and scalability
- Improved **fault tolerance** by applying suitable patterns
- **Incremental growth** by adding event consumers and event sources step by step resulting in better operations and improved quality
- Allow for a new kind of **real time** technical integrations and extensions

### Business

- Improve situational awareness by getting informed about relevant events in **business real time**
- Base **business decisions** on completely up-to-date information
- **Hyper-automate** business processes resulting in improved reaction time and lower costs
- Open approach across **vendor boundaries** makes new business scenarios possible

Social Media Style **Organizational Empowerment**
What is so special about SAP’s Event-Driven Ecosystem?

It brings technology and business benefits of Event-Driven Architecture together in a unique way.
Event Driven Business Architecture Adds to basic EDA Benefits

- Crossing Vendor Boundaries
- Event Value & Quality
- Mix with other approaches
- Data Protection
- Large Globally Distributed Landscapes
- Business Real Time
- Hyper-automation
- Rewire Business Processes
- Data Protection
SAP’s Event-Driven Ecosystem
# SAP’s event-driven ecosystem today

## Event sources
- SAP S/4HANA
- SAP S/4HANA Cloud
- SAP ERP
- SAP SuccessFactors solutions
- SAP Marketing Cloud
- SAP Fieldglass solutions
- SAP Data Intelligence
- SAP CPQ
- Other SAP solutions
- 3rd party

## Eventing infrastructure

### SAP Integration Suite
- SAP Event Mesh
- Advanced Event Mesh

- Event routing services
- Event catalogs

### Eventing infrastructure
- SAP Integration Suite
- SAP Build
- SAP BTP Services & Apps
- SAP back ends
  (SAP S/4HANA Cloud and SAP S/4HANA, SAP ECC and SAP S/4HANA using add-on)
- Project “Kyma”
- SAP Data Intelligence
- Azure Event Grid
  (Beta Program)
- 3rd party

## Event consumers

## Know-How
Guidance (ISA-M …) and Learning Materials (DC Missions …)
SAP Event Mesh & SAP Integration Suite, advanced event mesh

Fully-managed services for enabling enterprise-grade event-driven architectures

### SAP Event Mesh

- **Low entry barrier** to event-driven architectures with pay per use-based pricing
- **Integrate and extend SAP applications** in an event-driven way based on SAP Integration Suite
- **SAP BTP Deployment** and **native event broker** for SAP S/4HANA, free add-on for custom ECC events
- **Openness and focus** combined by supporting open standards and providing extra benefits for SAP ecosystem
- **Scales well** with certain set limits

### Advanced Event Mesh

- **Complements SAP Event Mesh** for more demanding scenarios
- **Enterprise-grade** performance, reliability, security and governance; scales to **very large use cases**
- **Distributed mesh of event brokers** deployed across environments in **private or public clouds**
- Full purpose set of **eventing services** including event streaming, event management and monitoring
- **Advanced features** like dynamic message routing and fine-grained filtering
SAP Integration Suite, advanced event mesh

Fully managed event streaming and management services that enable enterprise-grade event-driven architecture

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 **fully scale** as required

Benefits

- **Enterprise-grade** performance, reliability, security and governance
- Scales from small to very large use cases
- Brokers can be deployed in existing public or private cloud environments
- Dynamic message routing, topic hierarchy and fine-grained filtering
- Includes advanced event management toolset
- Integrates SAP backends via different options (e.g. SAP Integration Suite or 3rd party adapters)
Comparing SAP solutions for event-driven integration

<table>
<thead>
<tr>
<th>Standard</th>
<th>SAP Event Mesh</th>
<th>SAP Integration Suite, advanced event mesh</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fully managed cloud service</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Infrastructure Model</td>
<td>Shared</td>
<td>Exclusive in T-Shirt Sizes</td>
</tr>
<tr>
<td>Deployment Options</td>
<td>BTP Deployment</td>
<td>Private and Public Clouds</td>
</tr>
<tr>
<td>Connecting SAP and non-SAP systems</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Out-of-the-box support for SAP event sources</td>
<td>✓</td>
<td>✓*</td>
</tr>
<tr>
<td>Support of Standard Protocols</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Message size and storage</td>
<td>1MB / 10GB</td>
<td>Up to 30MB / Up to 6TB</td>
</tr>
<tr>
<td>Typical use case size</td>
<td>Small to Medium</td>
<td>Small to Ultra Large</td>
</tr>
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<table>
<thead>
<tr>
<th>Advanced</th>
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</thead>
<tbody>
<tr>
<td>Network of Event Brokers</td>
<td>-</td>
<td>✓</td>
</tr>
<tr>
<td>Advanced Event Monitoring and Analysis</td>
<td>-</td>
<td>✓</td>
</tr>
<tr>
<td>Dynamic Event Routing</td>
<td>-</td>
<td>✓</td>
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<tr>
<td>Filtering</td>
<td>-</td>
<td>✓</td>
</tr>
<tr>
<td>Event replay</td>
<td>-</td>
<td>✓</td>
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<tr>
<td>Event Management</td>
<td>-</td>
<td>✓</td>
</tr>
</tbody>
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* Available for SuccessFactors, planned for S/4HANA
**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

### SAP S/4HANA Cloud
- **Standard**
  - Around 400 Standard Notification Events that can be looked up at API Business Hub
  - Notification Events that cannot be adjusted
  - New events by request to SAP development only
  - **RAP Based Events**
    - Currently custom notification and data events
    - In future adjustable / extensible standard events

### SAP S/4HANA
- **Standard**
  - Around 400 Standard Notification Events that can be looked up at API Business Hub
  - Notification Events that cannot be adjusted
  - New events by request to SAP development only
  - **RAP Based Events**
    - Currently custom notification and data events
    - In future adjustable / extensible standard events
  - **Custom Add-On Events**
    - Notification and data events
    - Can be Inbound and Outbound

### SAP SuccessFactors
- Intelligent Service events re-used
- Adjustable standard events
- Can be notification and data events
- No custom events can be created
- SOAP format

### SAP Integration Suite
- Advanced event mesh

### SAP Event Mesh
Event-Driven Use Cases
The Digital Vehicle Hub represents the digital twin for any ground transportation object.

Successful Go Live Q4 2022
Frontrunner Industries for Business EDAs

Retail
Consumer Goods
Oil and Gas
High Tech

Sports and Entertainment
Automotive
Telecommunication
Travel
Selected Real Time Customer Examples

- **Speed and Reliability**
- **Availability**
- **Supply Chain**
- **Customer Experience**
- **Customer Guidance**
- **Data Distribution**
The Road Ahead
Just a beginning
SAP’s event-driven ecosystem tomorrow

**SAP Business Applications**
- Extensible Standard Events & SAP to SAP Event Integration

**SAP on premise backends**
- Extensible Standard Events & for older backends custom events

**SAP Integration Suite**
- Event Bridging & Brokering

**Advanced Event Mesh**

**3rd Party**
- Crossing Vendor Boundaries

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Getting Started
Getting Started

Learn

Karsten Strohmann

September 1, 2022 | 12 minute read

SAP’s Event-Driven Ecosystem Revisited

In many ways, nature is a great architect and comes up with concepts long before developers and architects had even thought about using them to solve IT problems. After they did, they typically realize quickly that nature’s concepts provide great value for them.

Event-driven architecture is one of these concepts that for a long time used to go unnoticed, except for spiders that have used event-driven architecture for thousands of years.

Explore

Welcome to your Integration Space.

Practice

Do
Quick Demo
Invitation: “Integration Black Belts”

“Interact with Integration Blackbelts”

• Speakers from customers / partners / stakeholders / consultants to share their innovations, solution architecture, best practices and integration patterns
• 20 mins slot
• Interested to present? Reach out to gautham.krishna@sap.com
What is #AskAnythingIntegration?

Provides a platform for customers, partners, consultants, and participants to ask their most important and top priority questions and get them answered by the panel of experts.

- Questions can be sent upfront or posted directly in the call
- Questions and answers will then be published as a public FAQ document with regular updates and additions

Panel of Experts: Speakers of the monthly webinar + product Management team
Schedule: Runs every alternate month
Duration: 20 mins
Moderator: Gautham (gautham.krishna@sap.com)

Note: “Interact with #IntegrationBlackBelt” section will transition to alternate months.
Q & A
Thank you.