



How Event Driven Architecture Can Help Power Your Real-time Business Processes

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Public

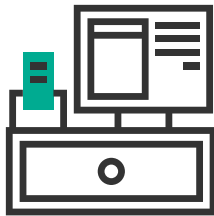
What is EDA and Why is it Needed?

When an event occurs
in an enterprise

They often need/want to
do something about it

But legacy tech
slows awareness and
ability to respond

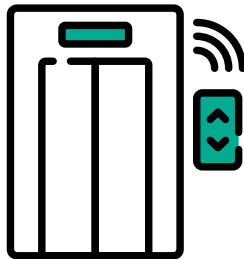
Customer buys
certain product



Request replenish
from stock room

**Stock
Updated**

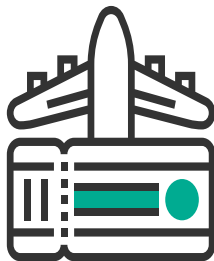
High temp
detected in
drive motor



Notify security to
indicate closure

**Maintenance
Team Alerted**

Passenger
boards flight
a little late



Communicate delay
to Luggage Team

**Luggage Loaded
on Board**

- ✗ Data stuck within silos/environments
- ✗ Slow, inefficient WAN distribution
- ✗ Complex architecture

Traditional Ways of Transferring data caused Missed Opportunities



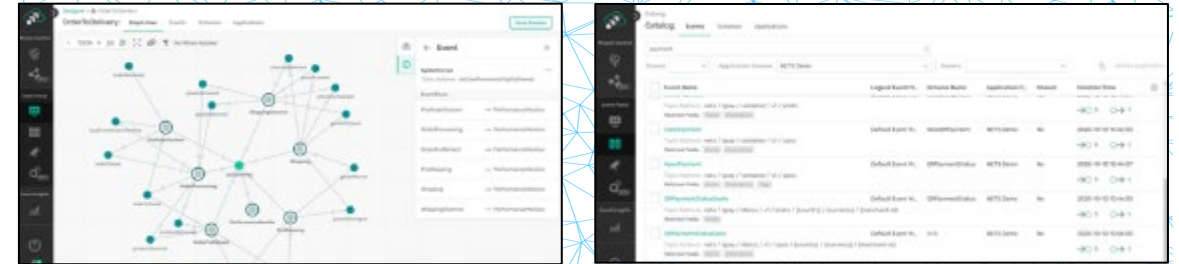
What If You Could “Tune In” to Specific Kinds of Events Occurring Across Your Enterprise and Across Clouds?

Hashtags



Events and Topics

SAP Integration Suite, Advanced Event Mesh



pay/init/v1/corp/us

pay/init/*/sg

em/bpass/DXB/*/scan/>

order/shipped/v2/sku123/eu

order/shipped/*/sku123/>

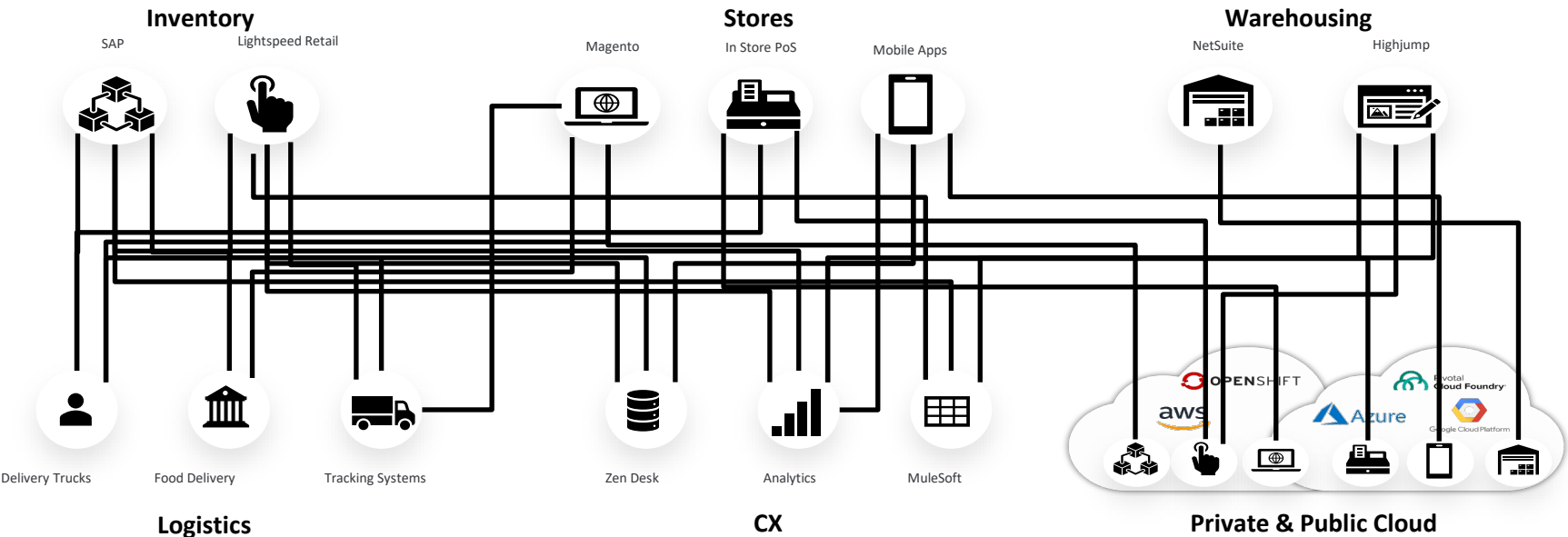
order/cancel/>

Advanced Event Mesh = Twitter of the Enterprise

Move from Spaghetti Integration to Plug & Play Architecture

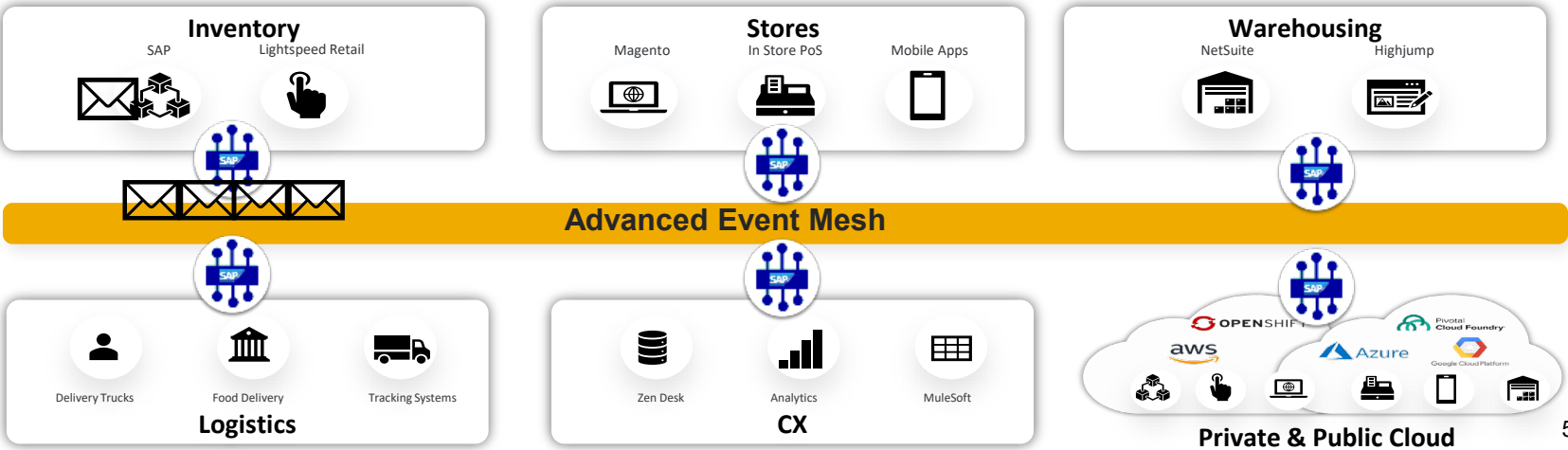
From

“Spaghetti Architectures”
Delay Digital Transformation

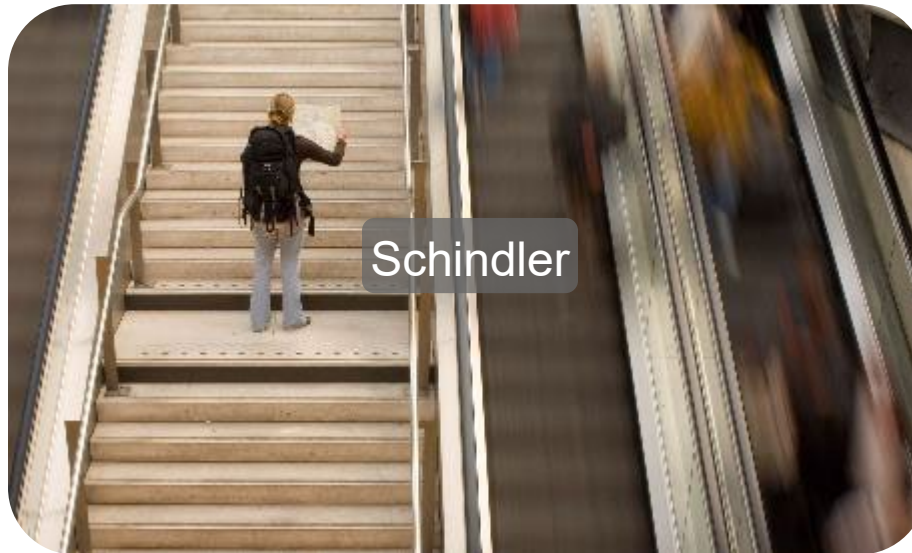


To

A Publish –
Subscribe
Mesh



Enterprises Across Industries Are Embracing EDA





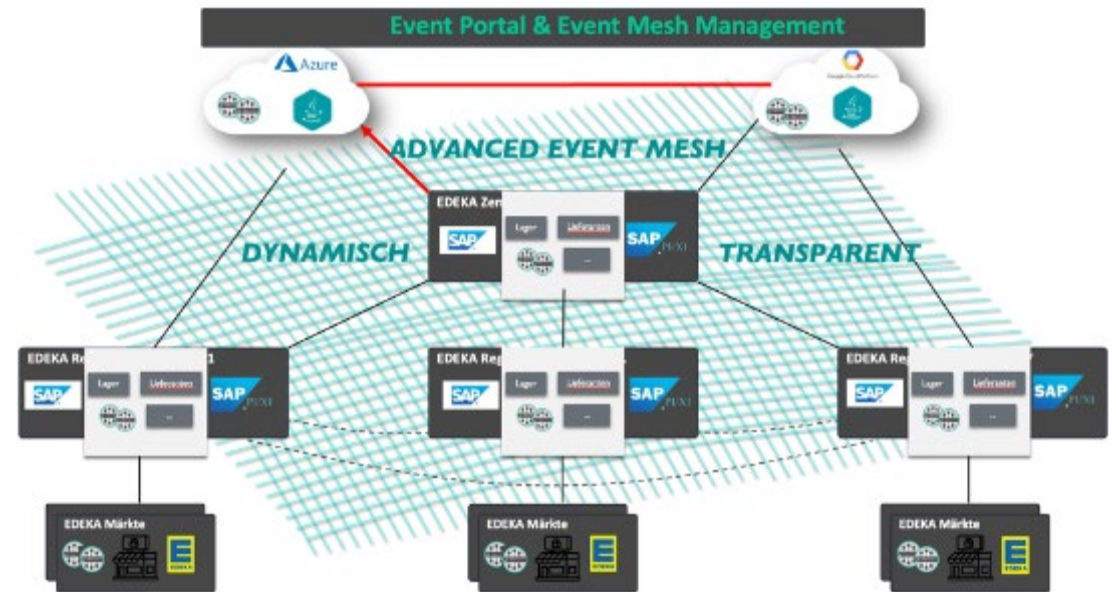
- Lack of Full Supply Chain Visibility

- At any given time, 12,000 containers on 1,500 at sea

- Numerous parties: customs agents, port authorities, inland transporters, freight forwarders

15M Euros
savings
annually in
shipping
cost

Real-Time Promotion Management



Hot day?

Apples
may perish

Drop
the price

Update price
in SAP Master Data

Push
to stores
in near
real time

Price across
6000 stores
**updated in
near real time!**



Customer Outcomes achieved with Advanced Event Mesh

Real Time Response



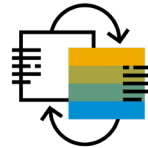
Cut cost of 1-to-many interfaces

Events Discovery



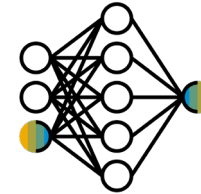
Accelerate application development

Decoupled Connectivity



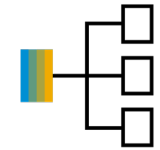
Reduce egress charges

Dynamic Routing



Reduce system load

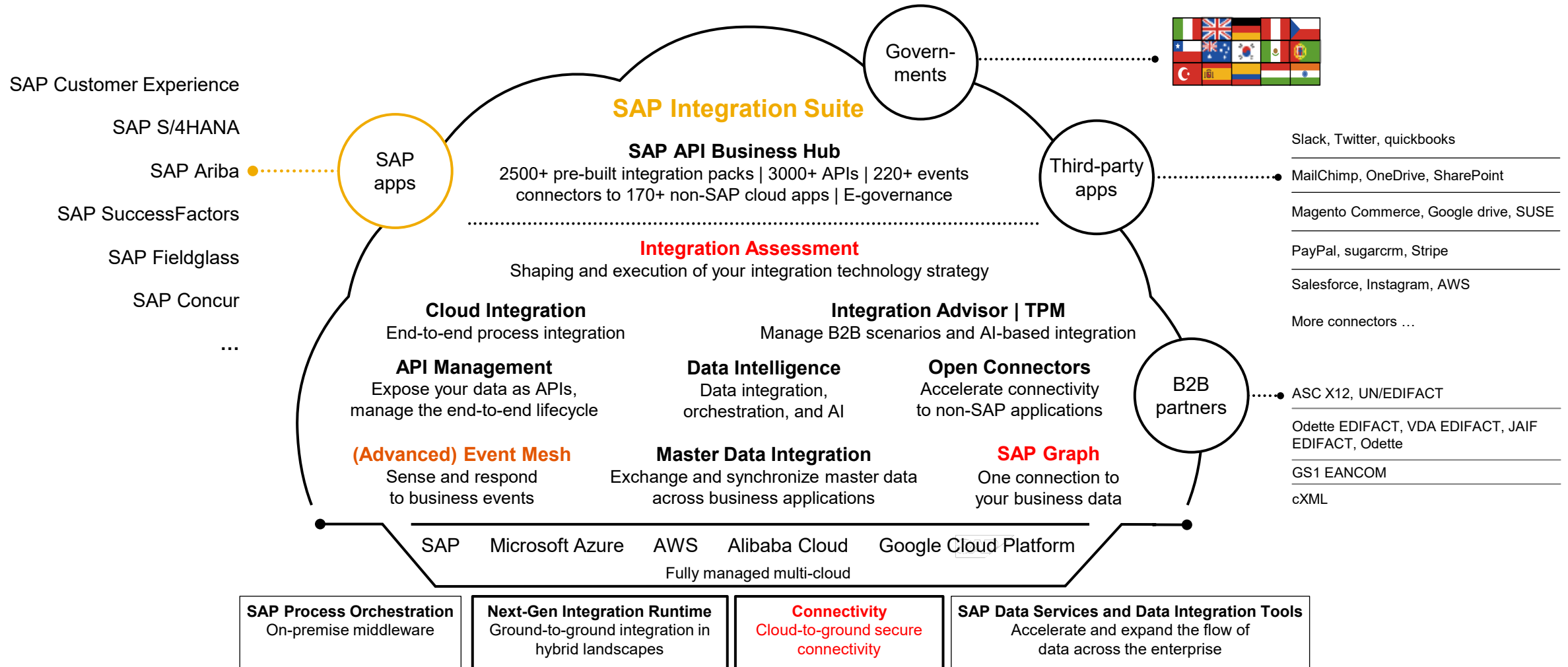
Fan Out Calling



Improve customer satisfaction

Integration at SAP

SAP's Hybrid Integration Platform for the Intelligent Enterprise



SAP's event-driven ecosystem today

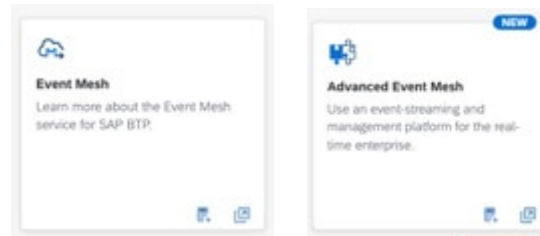
Event sources

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

Event consumers

SAP Integration Suite
SAP Extension 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)
Project “Kyma”
SAP Data Intelligence
Azure Event Grid
(Beta Program)
3rd party

Know-How

Guidance (ISA-M ...) and Learning Materials (DC Missions ...)



Getting Started

Learn

Karsten Strothmann 

September 1, 2022 | 12 minute read

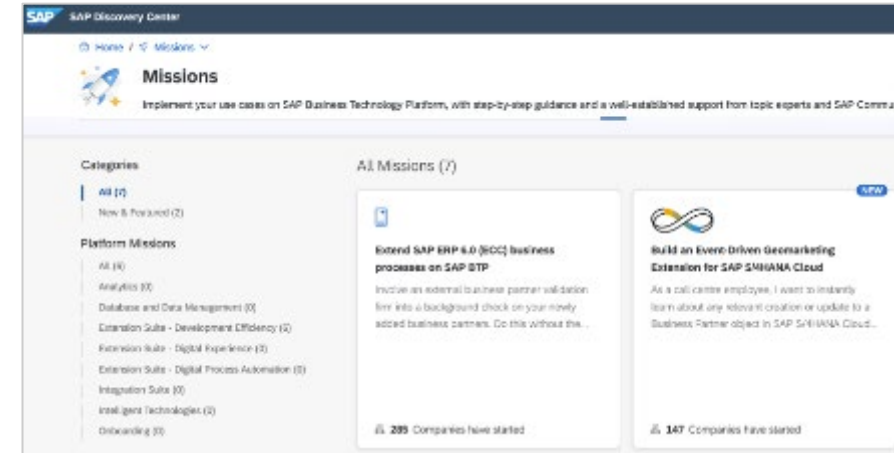
SAP's Event-Driven Ecosystem Revisited

2 19 1,089 Edit

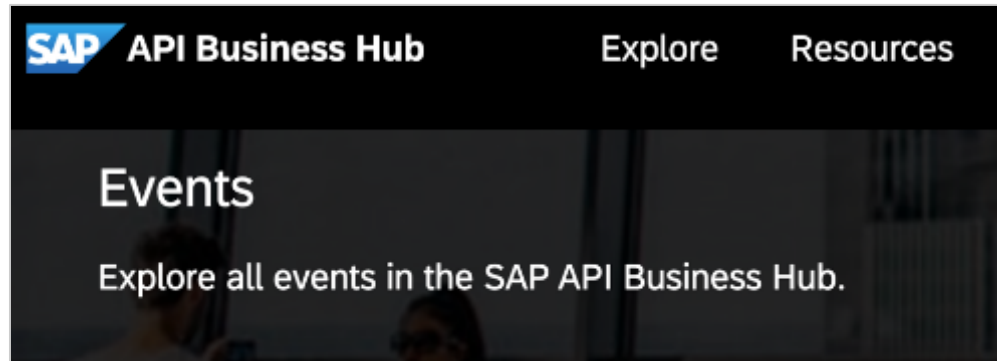
In many ways, nature is a great architect and comes up with concepts long before developers and architects had even thought about using them to solve IT problems. After they did, they typically realize quickly that nature's concepts provide great value for them.

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.

Practice



Explore



Do



Thank you.

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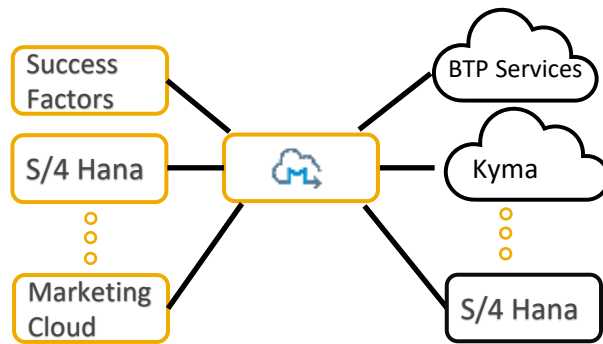


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Difference between Event Mesh and Advanced Event Mesh

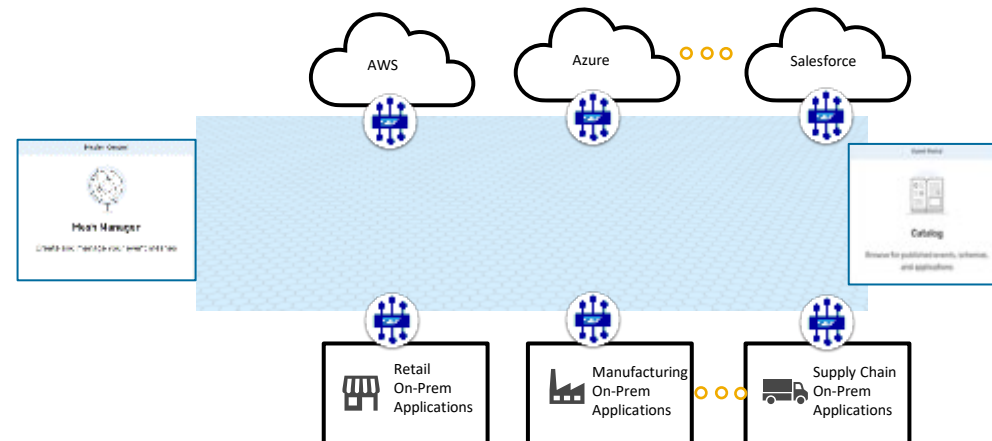
Existing: SAP Event Mesh – Default Plan
Deployment in BTP Only



SAP Event Mesh helps to integrate the SAP applications landscape.

BTP Deployment only, with set limits

New: SAP Advanced Event Mesh – included in CPEA
Helps connect SAP to the world

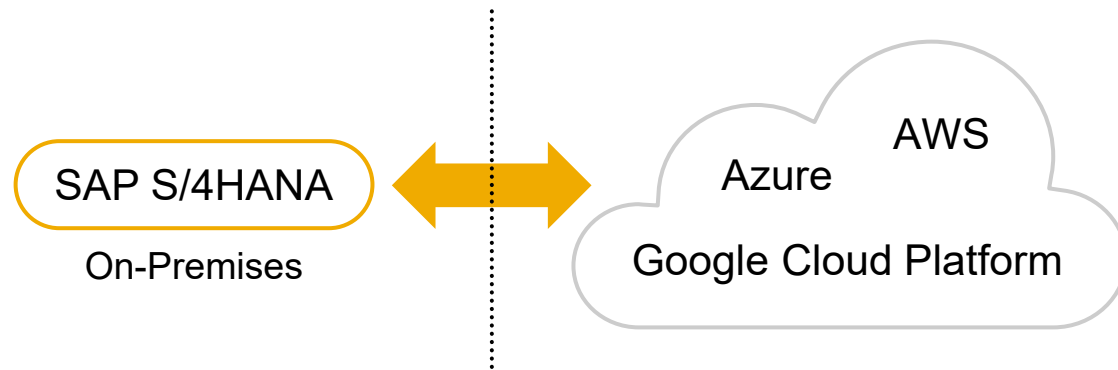


SAP Advanced Event Mesh helps to integrate the SAP applications to non-SAP software and vice-versa across Cloud and on-Prem, and also help Catalog Events as Products

Deploy *anywhere*,
including customers Data Centre, Non BTP Cloud, and event Edge

The Challenge

Every customer wants an **easier, faster and more flexible way** to integrate/**interconnect** their applications, systems, and microservices.



Key Criteria

- **Decouple integration artifacts to ease upgrades** (aka “futureproof”)
- **Strive for real-time**
(e.g. Amazon drops a package, 10 seconds later, you’re notified, today’s expectation)
- **Push not pull**
(think instant messaging)
- **Support diverse communication and connectivity options**
(let apps speak their own language)
- **Reduce duplication for one-to-many scenarios**
(like LinkedIn Videos)

SAP's Event-Driven Ecosystem Tomorrow

