



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

Giuseppe Bruni / Global Head Industry and Value Advisory
SOLACE



October 27, 2022

Public

Niki Scaglione / SAP Enterprise Integration CRO Lead
SAP BTP Global Center of Excellence



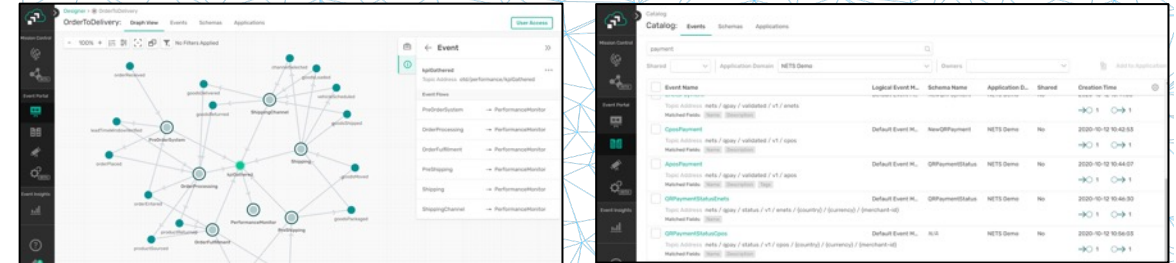
What If You Could “Tune In” to Specific Kinds of Events Occurring Across Your Enterprise and Across Clouds?

Hashtags



Events and Topics

SAP Integration Suite, Advanced Event Mesh



pay/init/v1/corp/us

pay/init/*/sg

em/bpass/DXB/*/scan/>

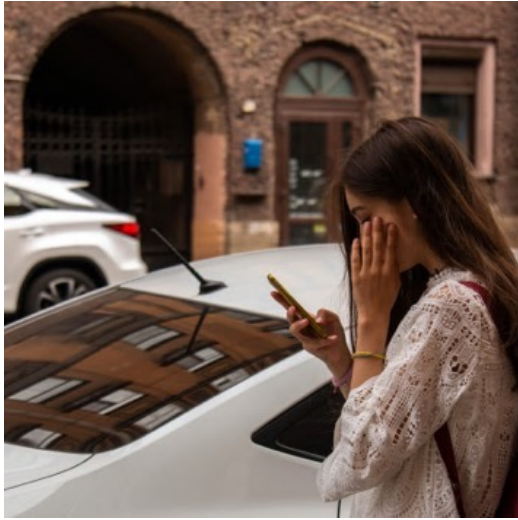
order/shipped/v2/sku123/eu

order/shipped/*/sku123/>

order/cancel/>

Advanced Event Mesh = Twitter of the Enterprise

Enterprises Across Industries Are Embracing EDA



Event Streaming in Real-Time Supply Chain

500
port congestion records per day

1.6K
vessel position records per day

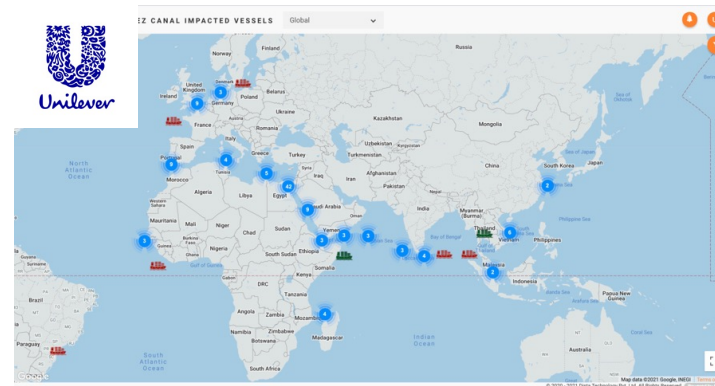
10K
container records per day

Suez Canal Blockade
handled in <2hrs

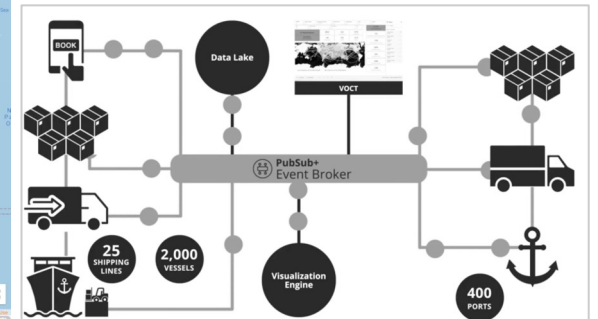
10M\$
annual savings in detention and demurrage

CO2 Alerts
Sustainable logistics

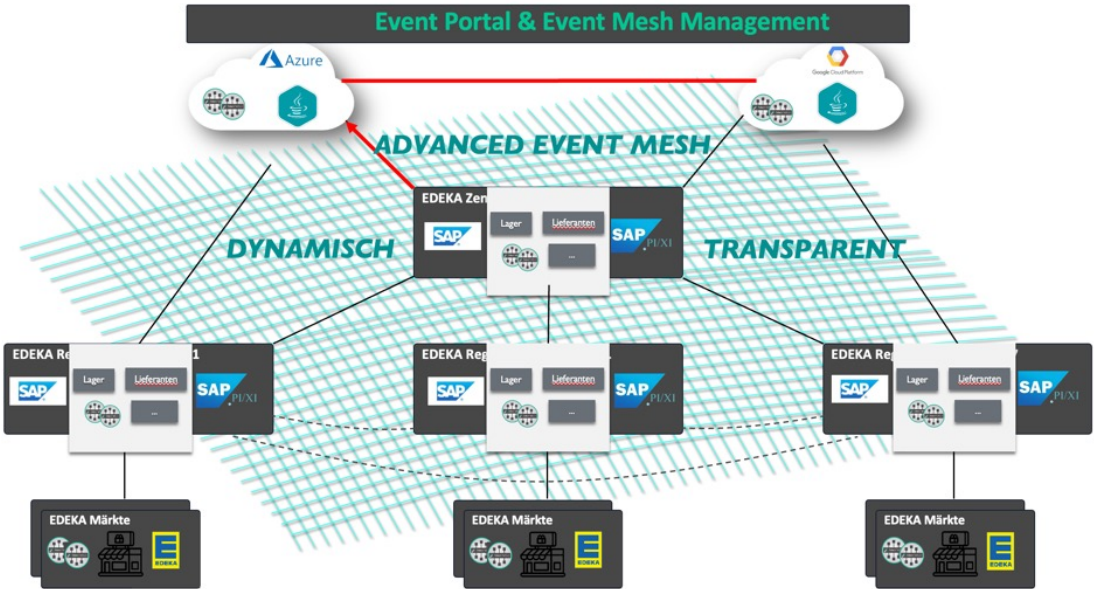
Using real-time visibility of shipping containers to stay ahead of the Suez Canal blockage



Unilever

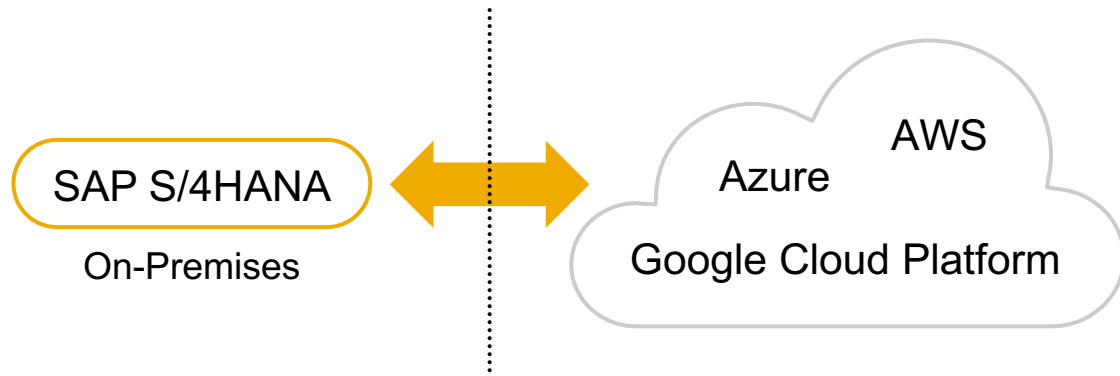


Real-Time Promotion Management



The Challenge

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

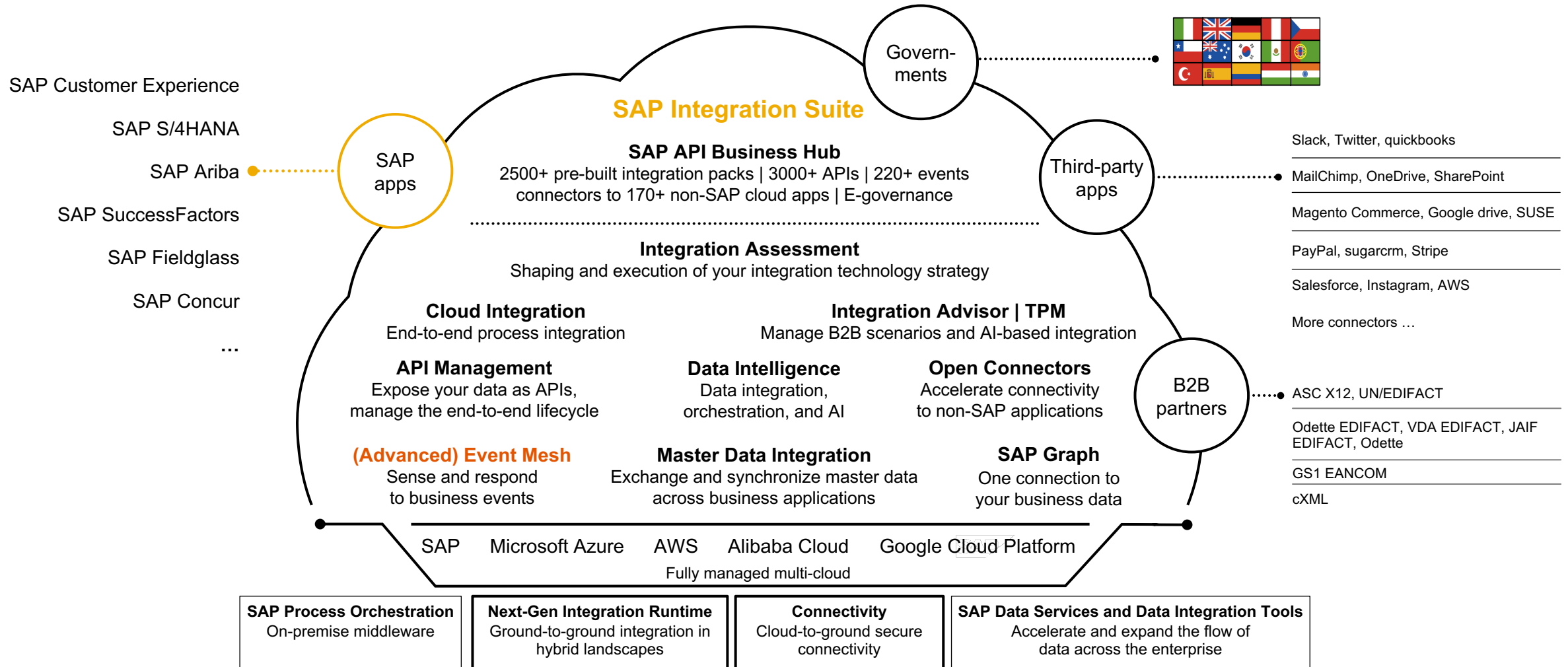


Key Criteria

- **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)

Integration at SAP

SAP's Hybrid Integration Platform for the Intelligent Enterprise



SAP's event-driven ecosystem today

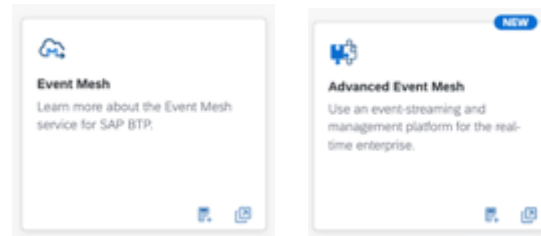
Event sources

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 ...)



SAP Discovery Center

Home / Services

Services

Integrate and extend your solutions, optimize your business processes, and create an engaging digital experience using SAP Business Technology Platform services.

Search for SAP Business Technology Platform services

Show Filters

Categories

- All
- New & Featured
- Free Tier Services

Solutions

- Application Development and Automation
- Integration
- Foundation / Cross Services
- AI
- Data and Analytics
- Extended Planning and Analysis

Capabilities

- Mobile
- Runtimes & Containers
- Security
- User Experience
- Database and Data Management
- Developer Productivity
- DevOps
- Process Automation
- Internet of Things

All Services (96)

Sort By: A - Z

ABAP environment

Develop ABAP cloud apps and extensions, leveraging innovations of SAP HANA.

FREE TIER

Advanced Event Mesh

Use an event-streaming and management platform for the real-time enterprise.

NEW

Agent Activation for Dynatrace Service

Connect your Java applications to a Dynatrace SaaS monitoring environment.

Agency

Develop and run Agency metadata-driven mobile applications.

Alert Notification

Create and receive real-time alerts about your services.

FREE TIER

Application Autoscaler

Automatically scale your applications to meet their dynamic resource needs.

Application Logging Service

Create, store, access and analyze application logs.

Audit Log Service

Retrieve the audit logs for your subaccount.

Authorization and Trust Management Service

Manage application authorizations and connections to identity providers.

Automation Pilot

Simplify the operational effort behind any cloud solution in the SAP BTP.

FREE TIER

Bandwidth

Data transfer rate to a subscribed user.

Business Application Studio

Develop, debug, test, and deploy SAP business applications.

FREE TIER

Business Entity Recognition

Detect and highlight entities in unstructured text using machine learning.

FREE TIER

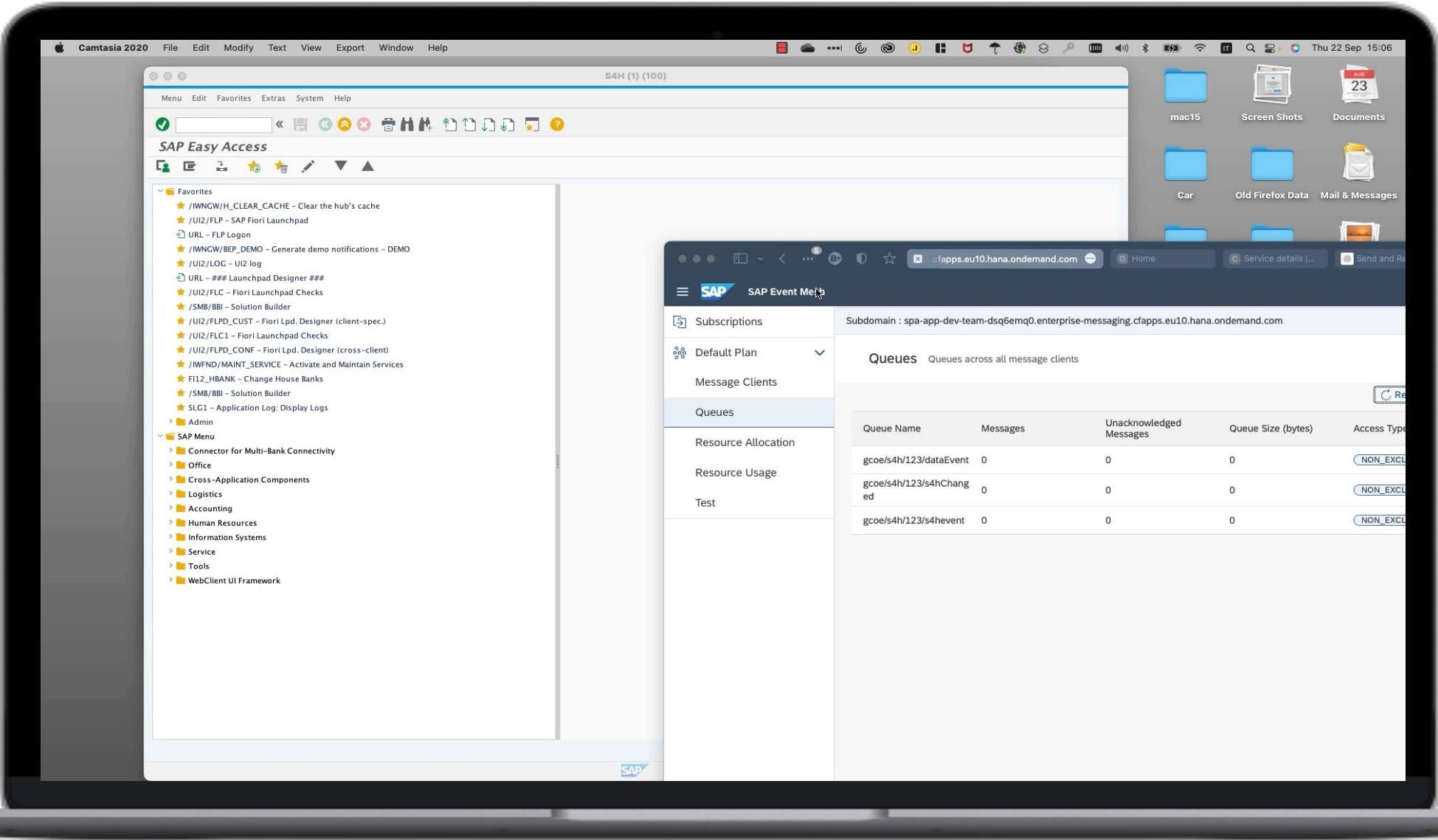
Cloud Foundry Runtime

Operate polyglot applications.

FREE TIER

Cloud Integration Automation

Plan and execute scenario integration easily.



Customer Outcomes achieved with Advanced Event Mesh

**Real Time
Response**



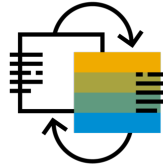
Cut cost of 1-to-many interfaces

**Events
Discovery**



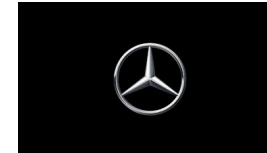
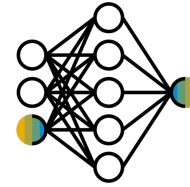
Accelerate application development

**Decoupled
Connectivity**



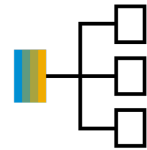
Reduce egress charges

**Dynamic
Routing**



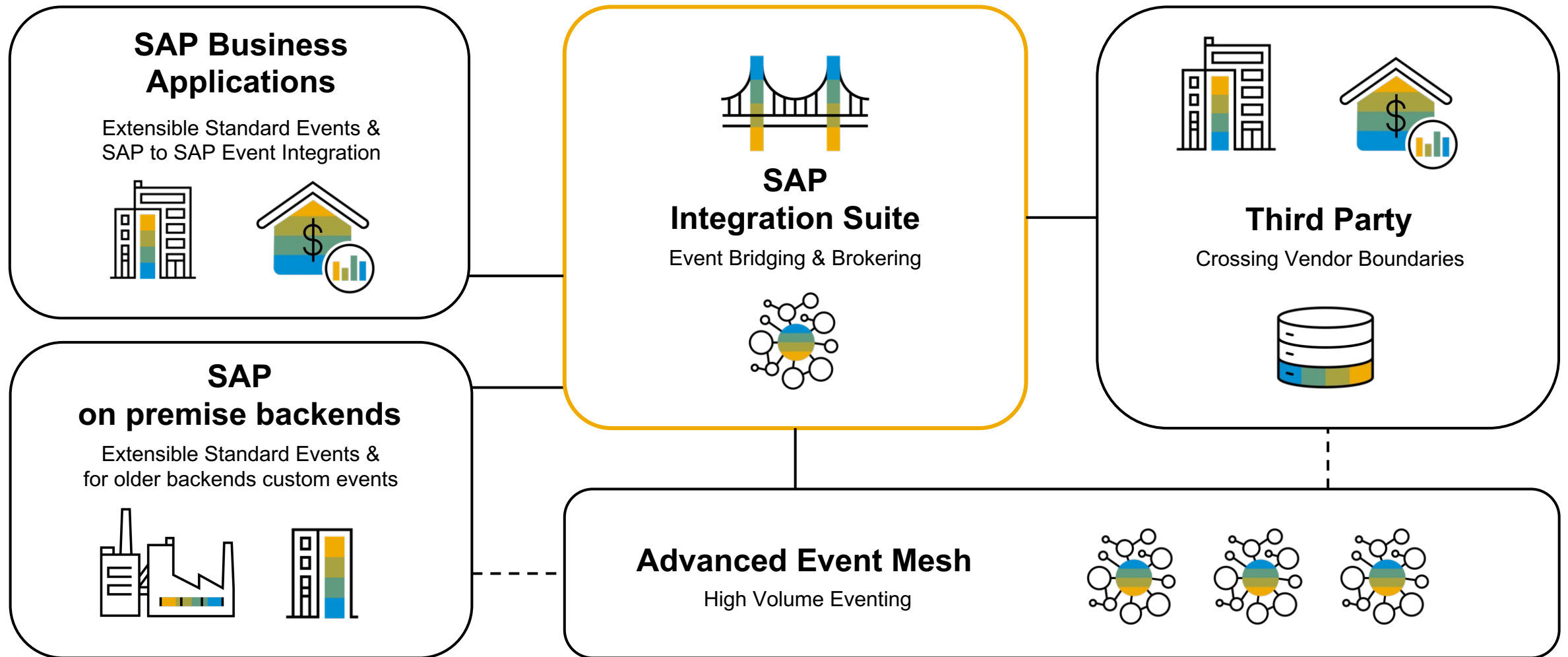
Reduce system load

**Fan Out
Calling**



Improve customer satisfaction

SAP's Event-Driven Ecosystem Tomorrow



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.

Explore

SAP

API Business Hub

Explore

Resources

Events

Explore all events in the SAP API Business Hub.

Practice

SAP

SAP Discovery Center

Home

Missions

Missions

Implement your use cases on SAP Business Technology Platform, with step-by-step guidance and a well-established support from topic experts and SAP Community

Categories

All (7)

New & Featured (2)

Platform Missions

All (6)

Analytics (0)

Database and Data Management (0)

Extension Suite - Development Efficiency (6)

Extension Suite - Digital Experience (0)

Extension Suite - Digital Process Automation (0)

Integration Suite (0)

Intelligent Technologies (0)

Onboarding (0)

All Missions (7)

Extend SAP ERP 6.0 (ECC) business processes on SAP BTP

Involvement of an external business partner validation firm into a background check on your newly added business partners. Do this without the...

285 Companies have started

Build an Event-Driven Geomarketing Extension for SAP S/4HANA Cloud

As a call centre employee, I want to instantly learn about any relevant creation or update to a Business Partner object in SAP S/4HANA Cloud...

147 Companies have started

Do



Thank you.

Contact information:

Niki Scaglione
niki.scaglione@sap.com



Giuseppe Bruni
giuseppe.bruni@sap.com

