

# SAP Business Unleashed Innovation Day

When you connect everything, you can achieve anything.



Leverage real-time business insights with an event-driven architecture

Greg Carino - BTP Cloud Solution Architect

### What is Event-Driven Architecture?

SAP's event-driven ecosystem and strategy.

Focus: SAP Integration Suite, Advanced Event Mesh.



SAP solutions for event-driven integration

Demo: Event-driven integration with SAP S/4HANA and SAP Integration Suite, Advanced Event Mesh

Intelligent Enterprise EDA from SAP

Helpful resources

## **Event-driven architecture**

- An event is a significant change in state.
- Event source sends an event to inform of change.
- Message holding event description in encoded format is distributed through an event broker.
- **Event consumers** have registered with event broker and are informed of event.
- Events come in different flavors: notification events or data events.









```
{ "type":"sap.s4.beh.product.v1.Product.Changed.v1","
specversion":"1.0",
"source":"/default/sap.s4.beh/0000000007","id":"fa163
e0b-4824-leec-83f7-32dfc754759c","time":"2023-09-
07T08:57:17Z","
datacontenttype":"application/json","data":
{"Product": "160","ProductType": "FRIP"}}
```

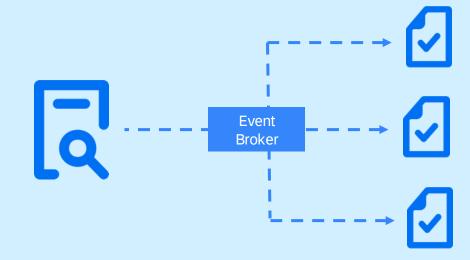
## API Architecture vs. Event-Driven Architecture



## **API** Architecture

# **Event-Driven Architecture (EDA)**



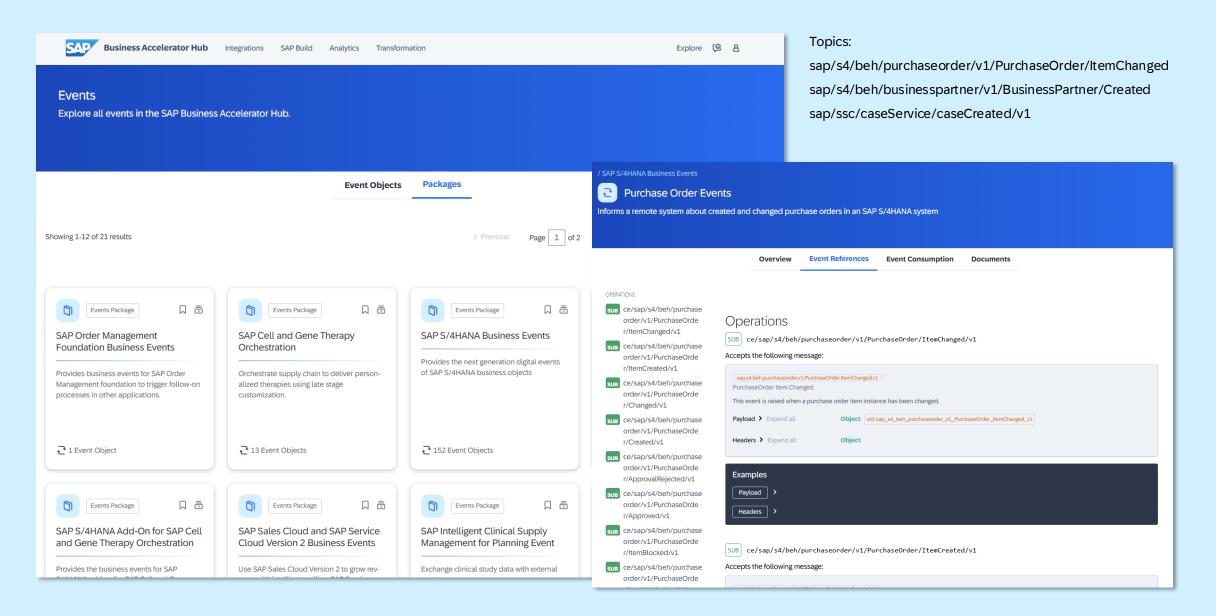


Request and Reply Based Synchronous

Push-Based Asynchronous Decoupled

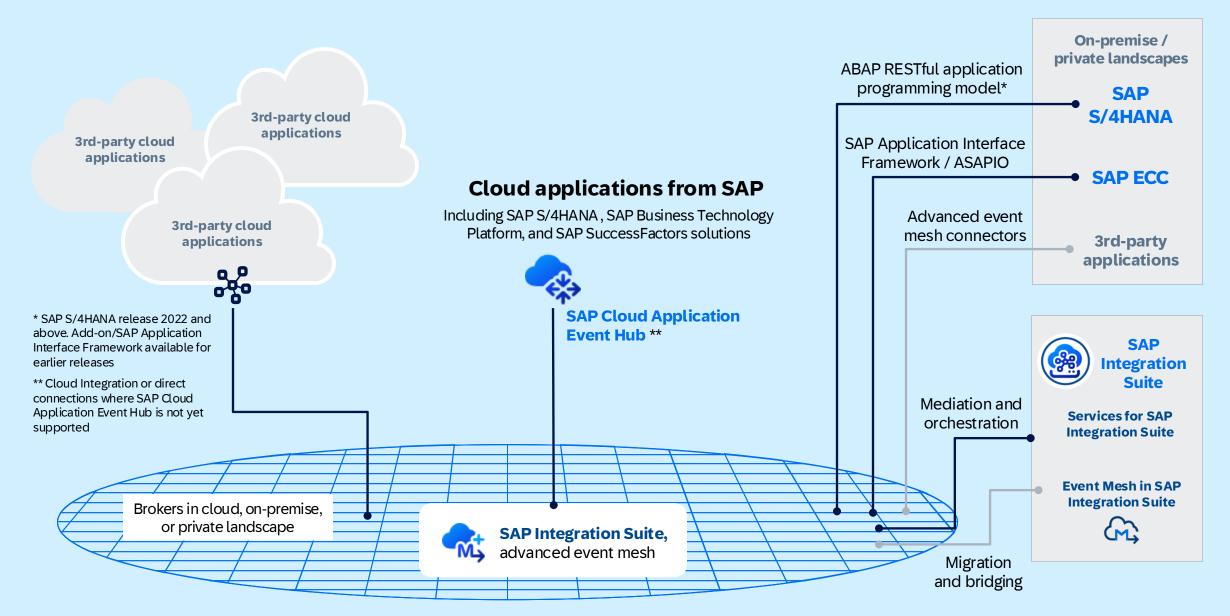
## **SAP Business Suite Event Sources**





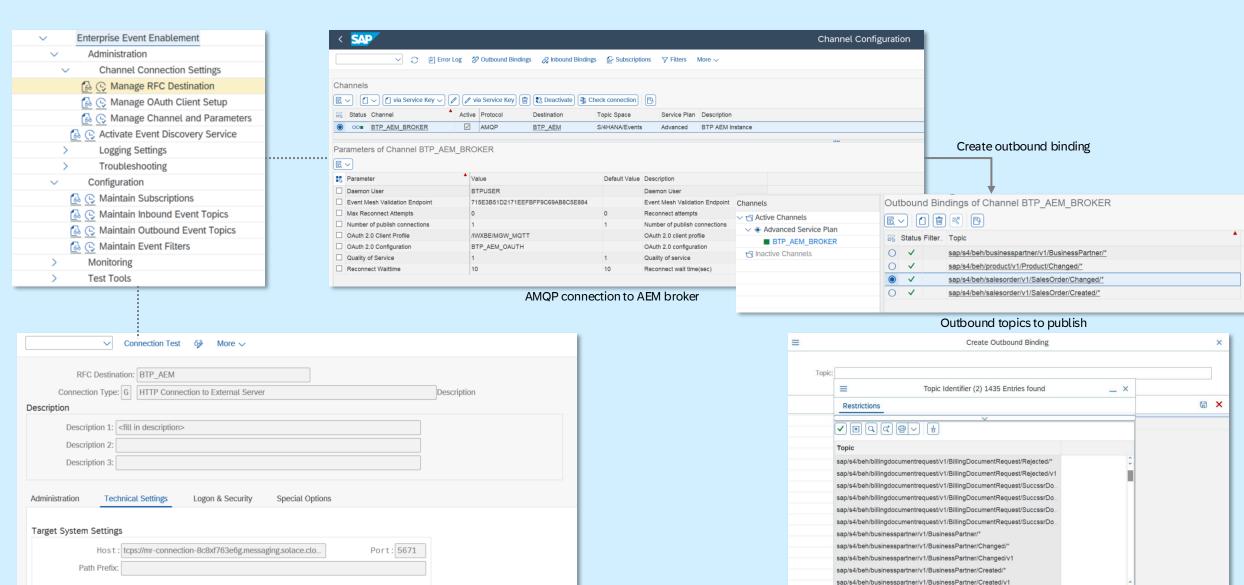
# SAP's event-driven technical ecosystem and strategy





# SAP S/4HANA connectivity to SAP Integration Suite, AEM





1435 Entries found

AEM broker connection details

# Publish-Subscribe Messaging Pattern



## **Event-Driven Architecture (EDA)**

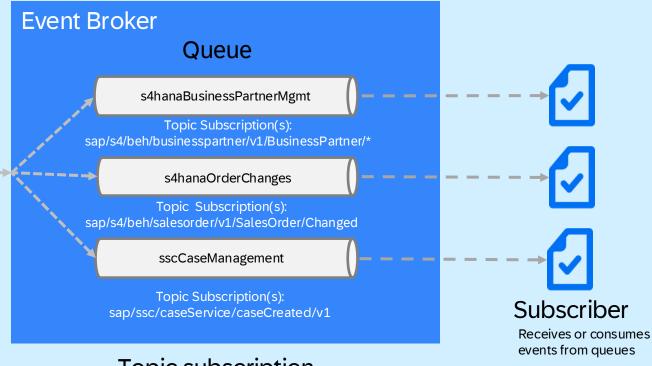


#### **Publisher**

Publishes event messages to topics or queues

#### Publishing messages on topics:

sap/s4/beh/product/v1/Product/Changed sap/s4/beh/salesorder/v1/SalesOrder/Changed sap/s4/beh/businesspartner/v1/BusinessPartner/Created sap/s4/beh/businesspartner/v1/BusinessPartner/Changed sap/ssc/caseService/caseCreated/v1

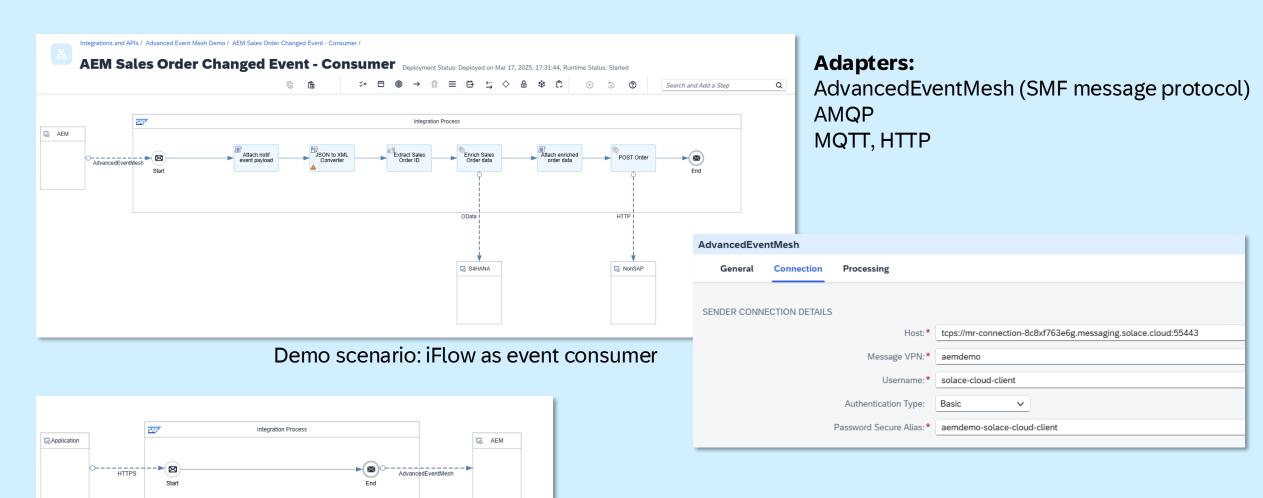


## Topic subscription

Used to attract published events. Can contain wildcards for filtering and routing (e.g. /BusinessParnter/\*).

# **Integration Flow: Consumer or Producer of Events**





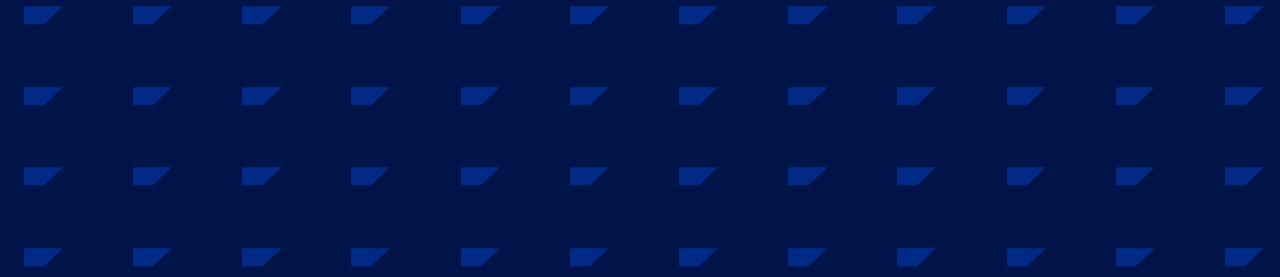
iFlow as event publisher

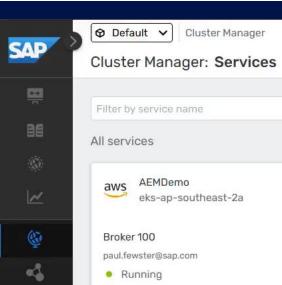
# Comparing SAP solutions for event-driven integration

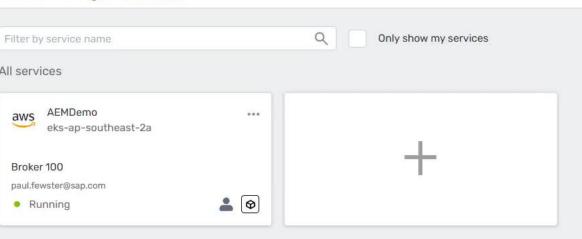


		SAP Event Mesh	SAP Integration Suite, advanced event mesh
Standard	Fully managed cloud service	<b>✓</b>	<b>√</b>
	Infrastructure Model	Shared	Exclusive in T-Shirt Sizes
	Deployment Options	BTP Deployment	Private and Public Clouds
	Connecting SAP and non-SAP systems	✓	<b>√</b>
	Out-of-the box support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

# Demo







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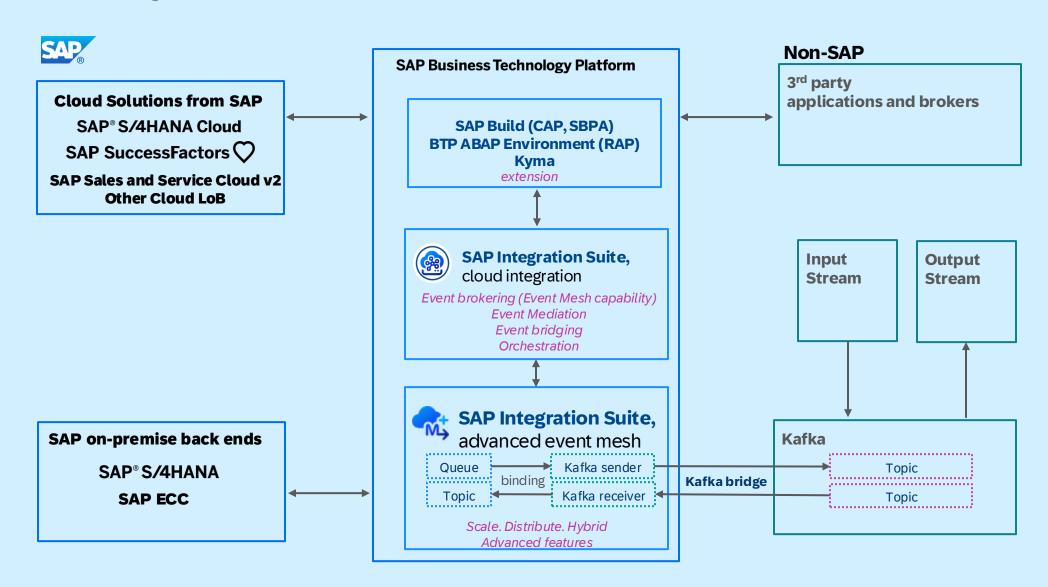


Create Service

# Intelligent Enterprise EDA from SAP

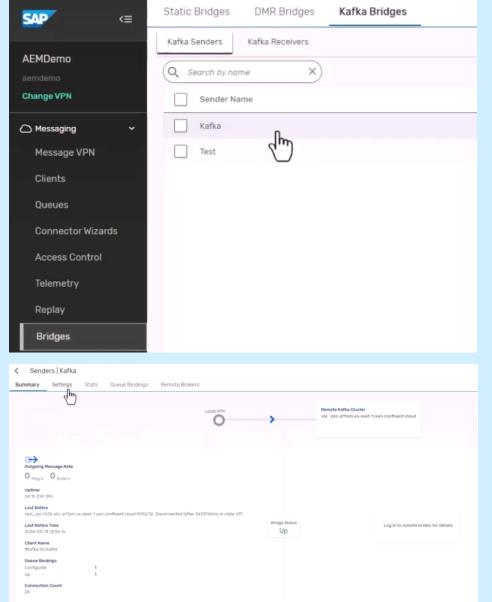
Focus: Kafka Bridge

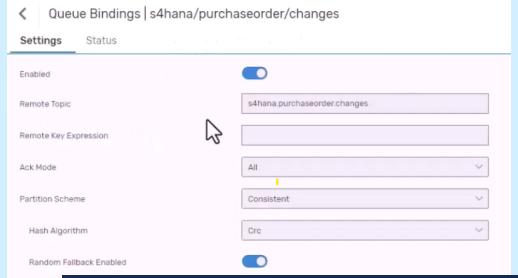


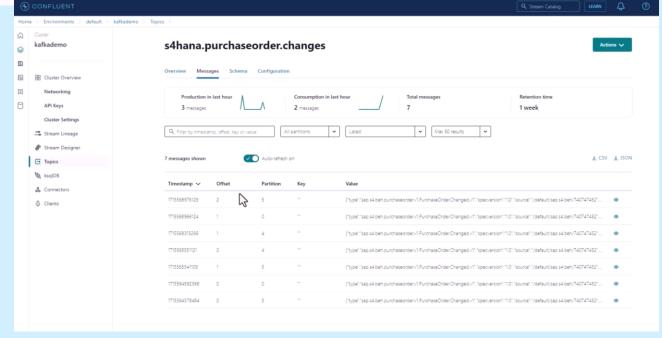


# Kafka bridge



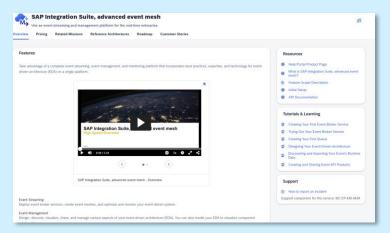




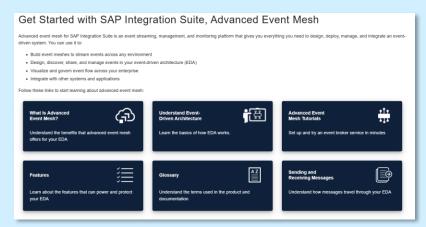


## **Learn More**









**Discovery Center** 



**Learning Journey** 









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