

# IT Flexibility and Agility = Advanced Event Mesh and SAP BTP

**Scott Dillon**  
VP SAP & Global Ecosystem  
Solace  
[Scott.Dillon@solace.com](mailto:Scott.Dillon@solace.com)

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**SAP**insider



## In This Session

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I will be providing a quick introduction to the use of Integration Suite, advanced event mesh.

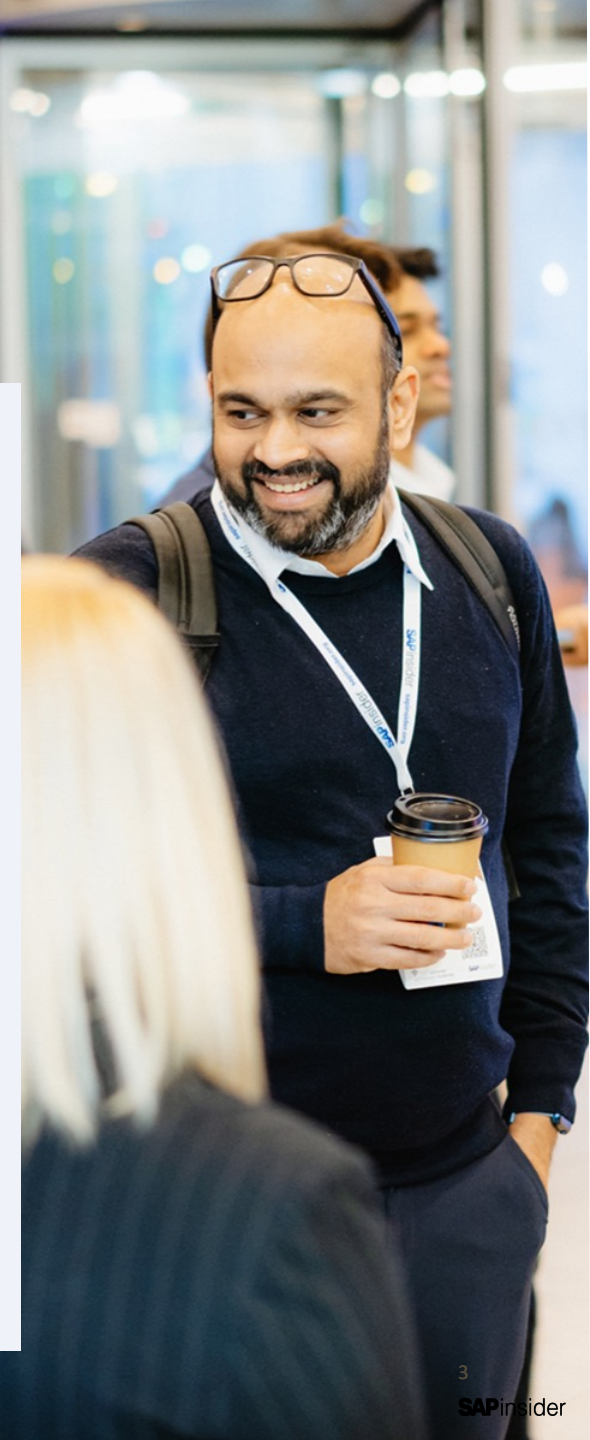
Participants should walk away with an understanding of the service and how Event Driven Architecture can be used to enable agility and flexibility while delivering on the promise of clean core.



# What We'll Cover

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- Introduction to Event Driven Architecture
- What is Advanced Event Mesh
- Using Advanced Event Mesh(aka AEM) with BTP
  - Advanced Event Mesh with User Interfaces
  - Advanced Event Mesh with BPA
  - Advanced Event Mesh with Integration Suite



# What is Event Driven Architecture?

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- Is your IT environment driven by real time event notifications?
- When a user queries data that was created 2 hours ago, is it really real time?
- Is your customer/supplier experience driven by real time event notifications or by a customer portal where customers need to search for answers? Is it Amazon like?
- Can you evolve/adapt your business processes easily?
- How truly modular is your environment?

Agile or Fragile?





Bought  
a book.

Event.

New job  
posting.

Event.

Car  
Accident!

Event.

Engaged!

Event.

100<sup>th</sup>  
visitor.

Event.

Air quality  
low.

Event.

# The World Is Event-Driven

## Can You Afford Not to Listen?

Event.

Sent  
money.

Event

Event.

Fire  
alarm.

Event.



We live in a world of  
more...

**More  
Applications**  
**1,000+**  
per enterprise

**More  
Distributed**  
**90% of orgs**  
are multi-cloud

**Sharing  
More Data**  
**Up 25%**  
every year

**More  
Quickly**

Latency expectation  
**down from seconds**  
**to real-time**

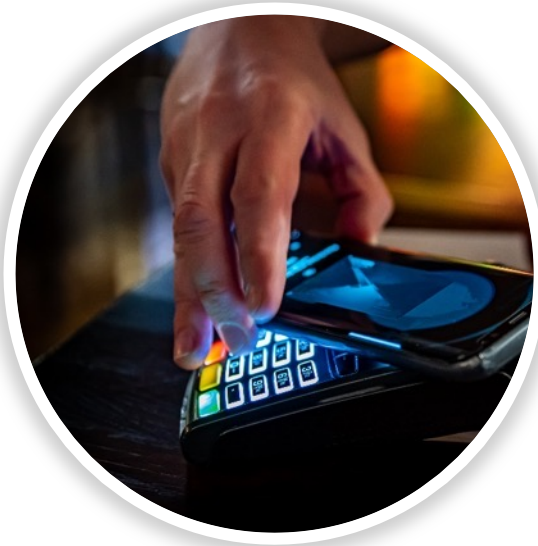
...this is making application  
Integration **more** difficult and less  
real-time



# Integration challenges have significant business impact...

## Phone/Scanned

Financial Services



Inter Bank Payments used to take days to settle; preventing internet banking and microtransactions

## Order/Created

RETAIL



Inventory not synchronized across e-commerce, in-store and warehouse systems

## WorkOrder/Created

Plant Maintenance



Technicians working with applications and outdated data. Constantly polling for updates.

## BoardingPass/Scanned

TRANSPORTATION



Boarding systems don't update airlines' catering, luggage and loyalty systems...

# Integration challenges have significant business impact...

Phone/Scanned



How many of you now expect an txt message the second you buy something as confirmation? Do you think your phone is polling?

Order/Created



How many of you expect an email within 30 seconds of ordering something online? E.g. Amazon notification almost immediate

WorkOrder/Created



First time in 20 years, we were pushed a notification of a power outage in our area. How many polling calls to customer service did this save?

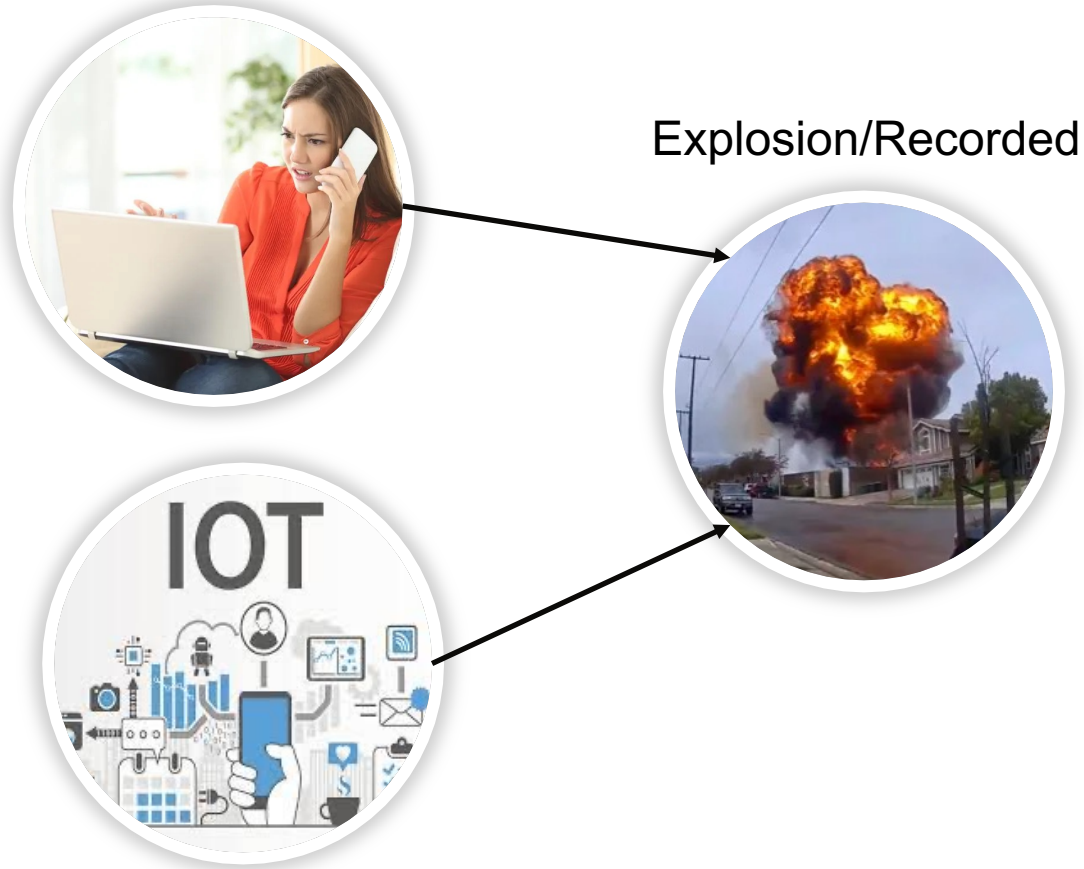
BoardingPass/Scanned



How many of you wonder why it takes a month to update your loyalty account. E.g. Air Canada 1 Full Month



# Event Driven Architecture in Action



How many people/applications/web sites/systems need to be made aware of this explosion event?

Is this incident pushed to the technician?



Will this be a batch update?



Is this Point 2 Point?



Does each additional "Subscriber" add complexity?



# What is Advanced Event Mesh?

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- What if it was possible to be aware of any and all events in real time as they are created?
- What if the location of the data didn't matter?
- What if there was secure bi-directional communication between all areas of your enterprise?
- What if there was an industry standard for being able to publish what is available and subscribe to what you want?
- What if this model could be applied to any event including ERP Events? E.g. Work Order Create, Sales Order Change, etc...

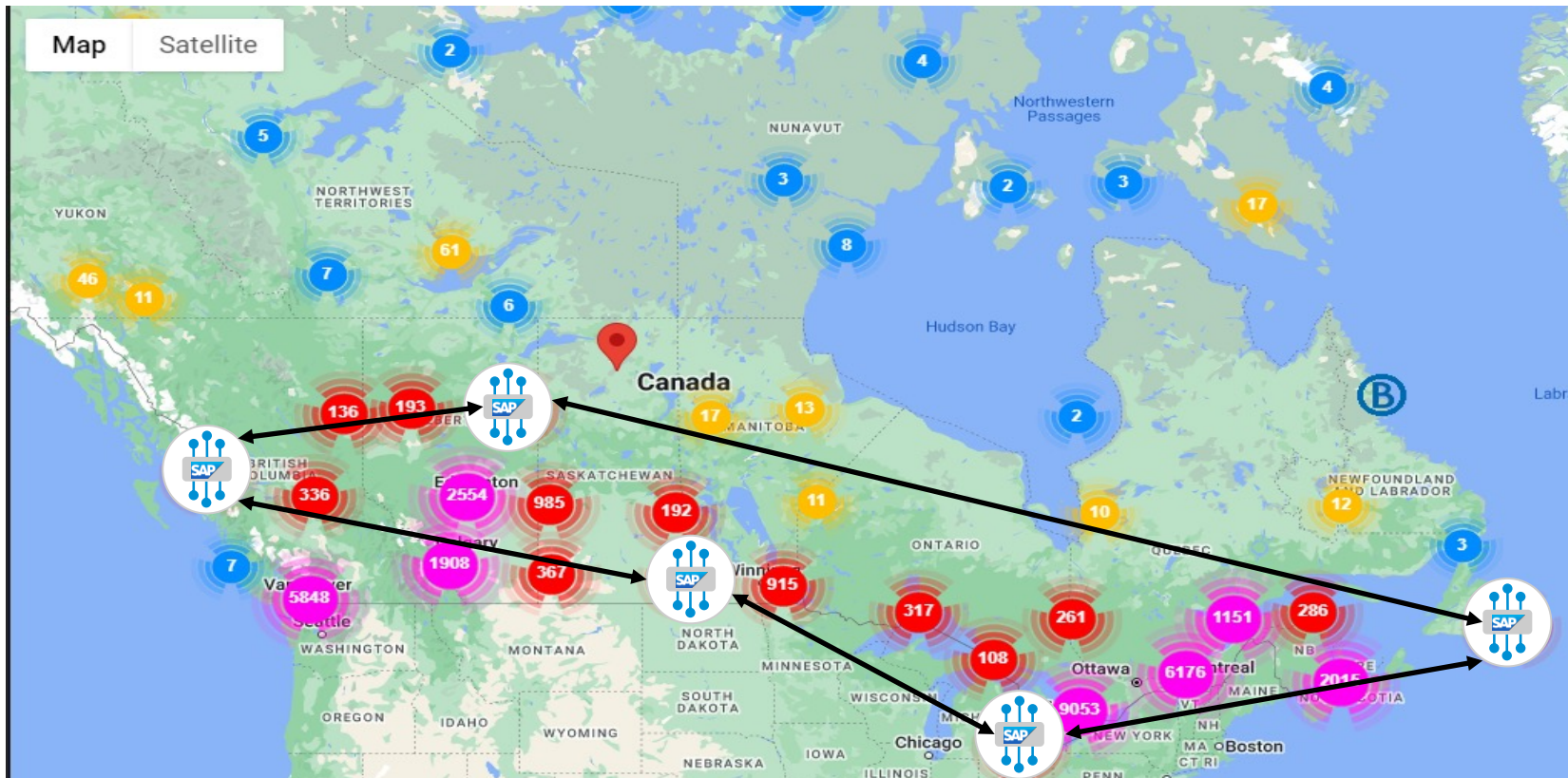
## Real Time Order Insight





# What makes communication complicated in a diverse distributed environment?

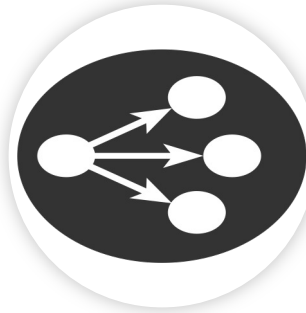
Local Tower Serves local customers – better coverage, quality, less congestion, redundancy?



# Customers who embrace Event Driven think differently about application integration...



Decentralized,  
Modular

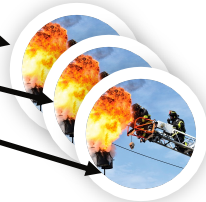
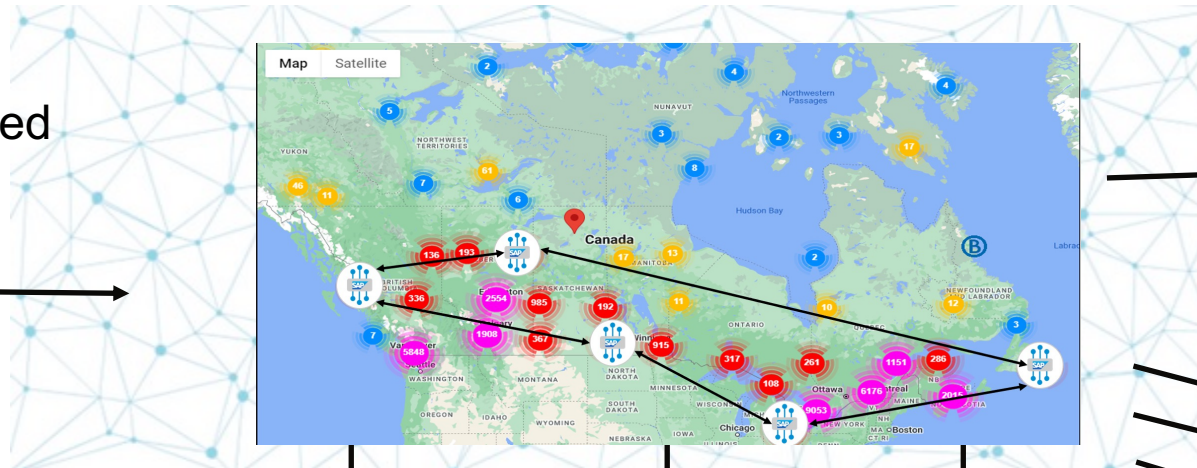


Loosely  
Coupled  
(Publish/Subscribe)



Real-Time,  
Event-Driven

Explosion/Reported



**Simple,  
Reliable,  
Scalable,  
Realtime**



# Event Driven Mindset

*Any “occurrence” is an “event”*

*A topic is a smart tag*

## Think Events!

*Business processes are streams of events, TUNE IN!*

### Publish

- `order/created/v1/eu/postpaid/plan123/iphone`

### Subscribe

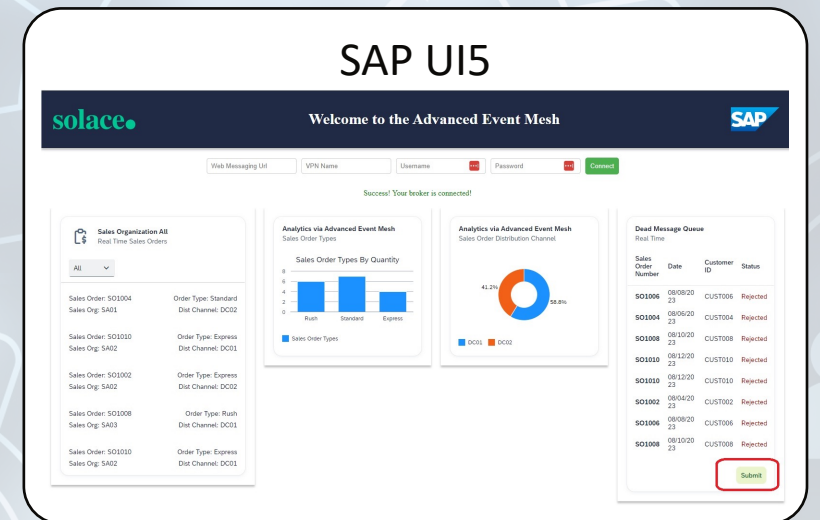
- `order/created/>`
- `order/*/*/*/*/*plan123/>`
- `order/>`



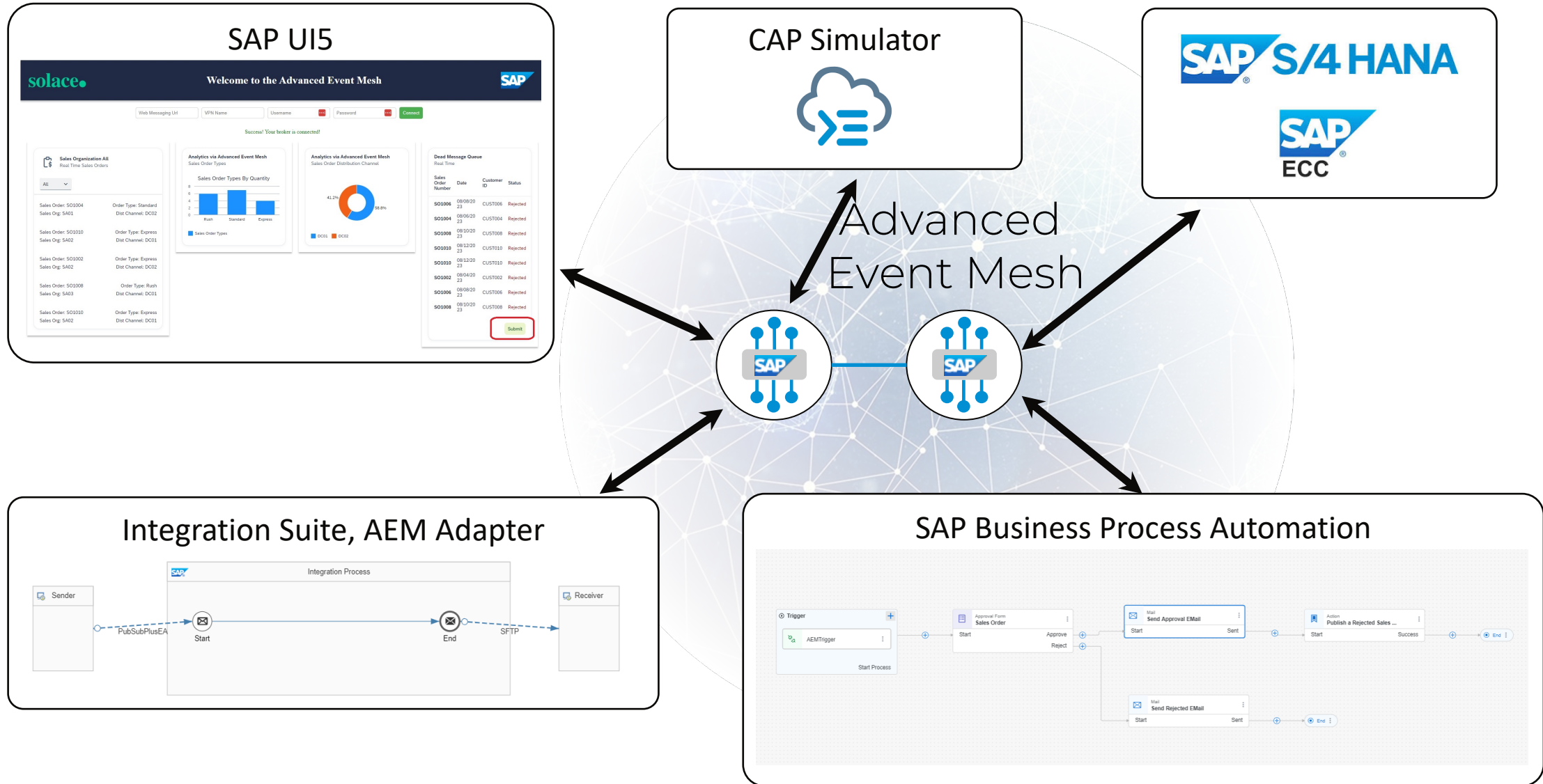
# Using AEM with BTP

- Advanced Event Mesh with User Interfaces
- Advanced Event Mesh with BPA
- Advanced Event Mesh with Integration Suite

## Enabling Real Time with BTP



# Our Rapid Pilot Demonstration





## Wrap Up

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- Quick Introduction to Event Driven Architecture
- Overview of the AEM Console from Business Technology Platform
- End 2 End Demo of Creating an S/4 Extension for Customer Notifications
- Overview of the Integration Suite, AEM Adapter

# Where to Find More Information

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- <https://community.sap.com/t5/technology-blogs-by-members/sap-btp-advanced-event-mesh-saas-applications/ba-p/13563411>  
Community blog exploring AEM use cases and scenarios
- [https://help.sap.com/docs/SAP\\_ADVANCED\\_EVENT\\_MESH](https://help.sap.com/docs/SAP_ADVANCED_EVENT_MESH)  
Official SAP Documentation on the SAP Advanced Event Mesh
- <https://community.sap.com/t5/technology-blogs-by-sap/advanced-event-mesh-create-your-first-event-broker/ba-p/13571945>
  - Blog outlining how to configure service
- [SAP | SAP BTP Exploration Workshops: Implementing an Event-Driven Architecture Landing Page](#)
  - Upcoming 1 Day Hands On Enablement Sessions

# Key Points to Take Home

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- What is an event
- AEM – Advanced Event Mesh
- Complete platform for managing an event driven enterprise. E.g. Design, catalog, runtime, monitoring, discovery, etc...
- Enables customizations of business process with an event driven framework to enable clean core
- Enable BTP services to be driven based on real time events within the enterprise
- AEM can be used with all applications – Salesforce, ServiceNow, SAP, SuccessFactors, etc...



# Thank you! Any Questions?

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Scott Dillon

<https://www.linkedin.com/in/scottdillon1/>

Scott.Dillon@solace.com

Please remember to complete  
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