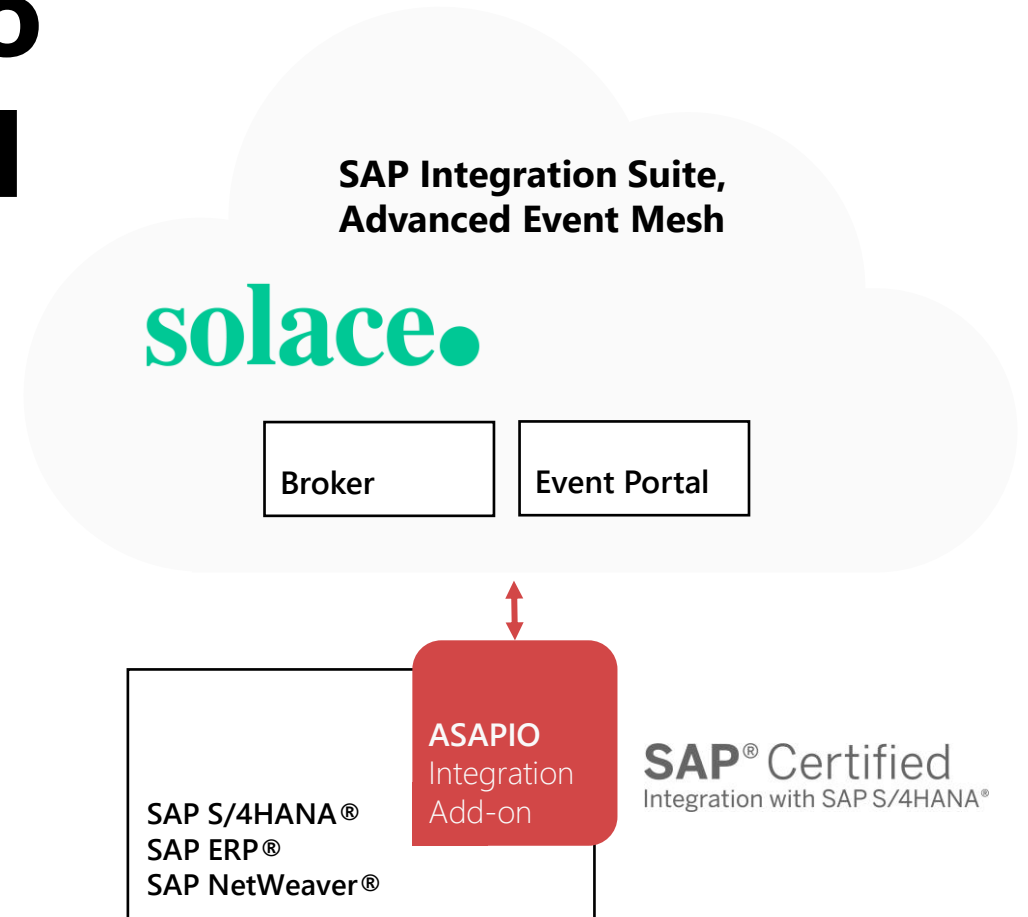
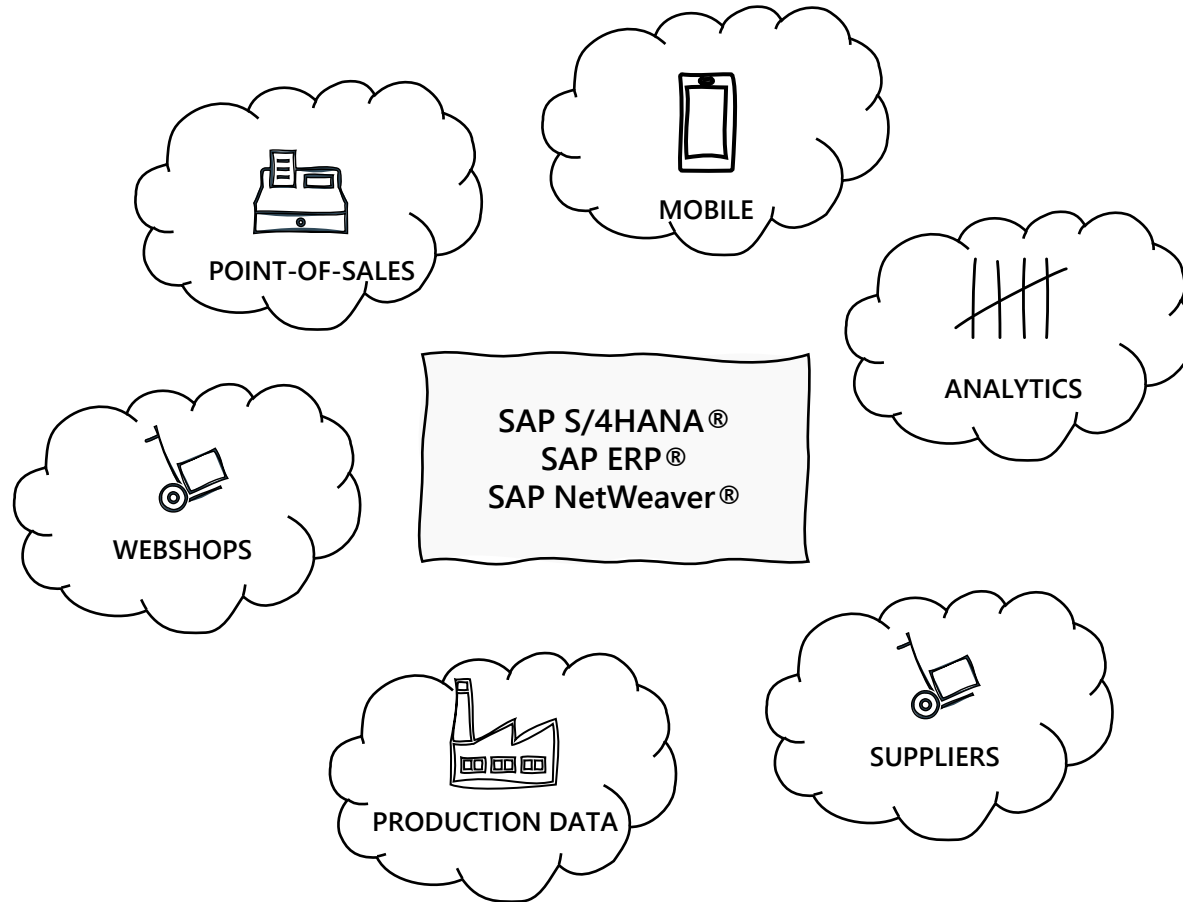


# ASAPIO connects SAP to Solace or SAP Advanced Event Mesh

for SAP S/4HANA, SAP ECC and SAP NetWeaver  
– code-less, fast and direct.



# Why is SAP integration becoming more relevant?



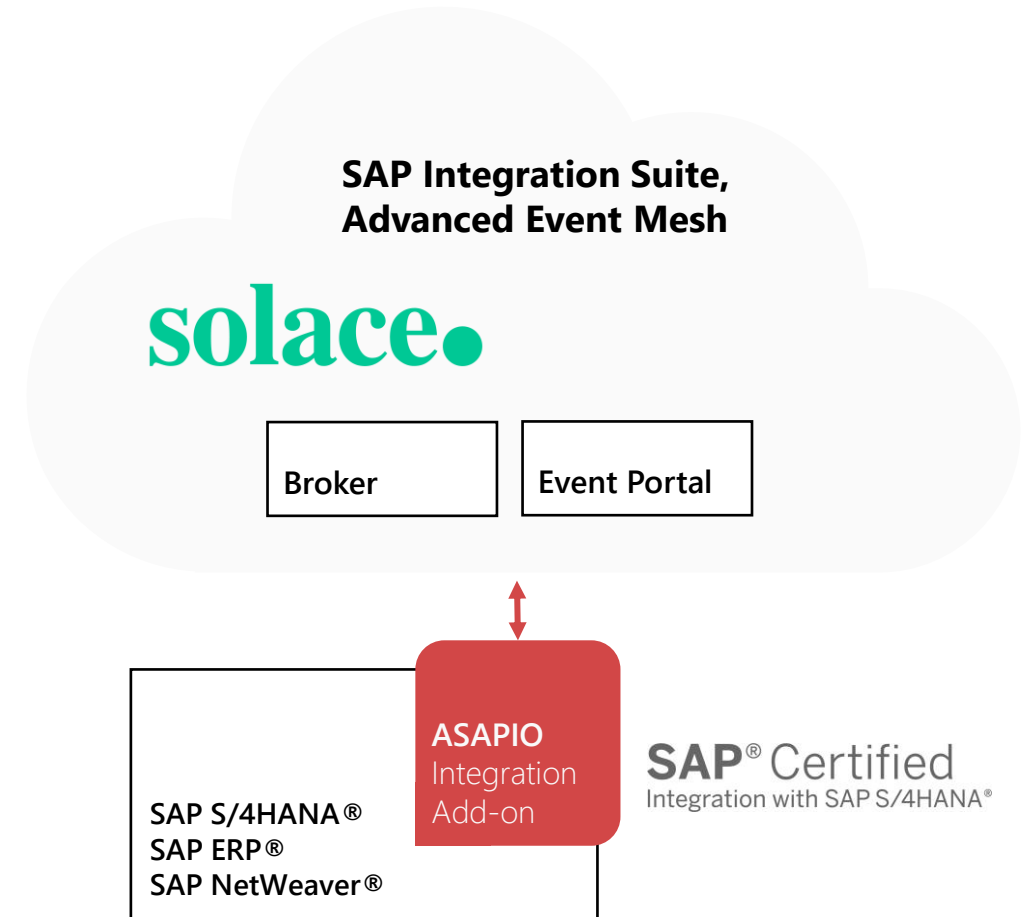
**Digitalization creates unlimited business use-cases, but requires SAP-internal data outside, in hybrid landscapes.**

- ✓ Connect webshops with SAP sales processes
- ✓ For mobile apps requiring or creating SAP data
- ✓ Run real-time analytics on sales and stock data
- ✓ Distribute SAP master data, e.g. from finance
- ✓ Connecting supplier and logistics platforms
- ✓ Integrate data with non-SAP systems, also on-prem

...

# ASAPIO connects SAP systems to Cloud, easily

- ✓ SAP Add-on, no middleware required
- ✓ Real-time events + batch mode
- ✓ For inbound + outbound interfaces
- ✓ Create low-code + no-code interfaces
- ✓ Fully customizable payload
- ✓ Fast (Thousands of messages/sec)
- ✓ Certified by SAP and part of two SAP standard products



# Available triggers for events in ASAPIO

## Supported standard triggers:

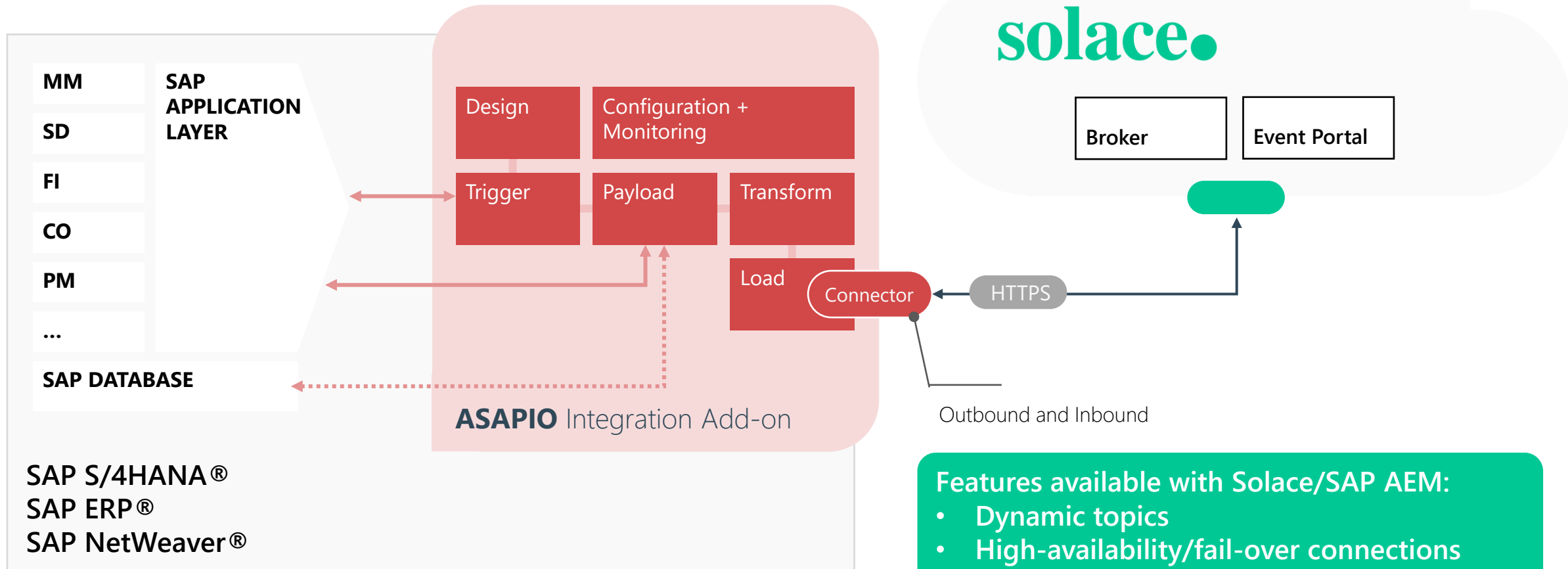
- ✓ SAP Business Object events
- ✓ SAP Business Transaction Events (BTE)
- ✓ SAP Change Documents (CDHDR/CDPOS)
- ✓ IDocs
- ✓ SAP Output Determination
- ✓ SAP S/4HANA Business Event Handling
- ✓ Inbound replications from SAP CAR, EWM, SLT

## + many custom trigger options:

- ✓ Use custom business object events
- ✓ Calling ASAPIO framework via ABAP-code
- ✓ Schedule ASAPIO job



# Architecture / How does it work?



- Features available with Solace/SAP AEM:**
- Dynamic topics
  - High-availability/fail-over connections
  - AsyncAPI export to Event Portal

# Outbound + inbound messaging



## Outbound messaging

- ✓ Push data out, real-time
- ✓ Single events and mass data transfer
- ✓ Code-less data modelling
- ✓ Supports JSON, CloudEvents, XML, custom formats

## Inbound messaging

- ✓ ASAPIO comes with a central REST endpoint
- ✓ Pull or push data in, depending on Connector
- ✓ Hand-over data to IDoc, BAPI, custom-code, etc.
- ✓ Supports JSON, CloudEvents, XML, custom formats

# Create code-less interfaces

- ✓ Code-less definition of payload
- ✓ Choose tables, fields and create joins
- ✓ Supports hierarchical structures
- ✓ Use database or CDS views
- ✓ Programming exits for custom code

→ Connectivity, Authorization, Re-sending of failed messages, Monitoring, Traces etc. are taken care of by ASAPIO Add-on.

The screenshot shows the SAP ABAP Query Designer interface. The main window displays a query definition for 'Change View "Outbound Objects": Details'. It features three tables: 'EKKO : Purchasing Document Header', 'EKPO : Purchasing Document Item', and 'LFA1 : Vendor Master (General Section)'. The 'EKKO' and 'EKPO' tables are connected by a 'Left Outer Join' relationship. The 'LFA1' table is also connected to the 'EKPO' table. The interface includes a menu bar (Join, Edit, Goto, Extras, System, Help), a toolbar with various icons, and a list of technical names and long texts for each table. A 'Navigation' diagram is visible in the bottom right corner.

Technical Name	Long Text
EBELN	Purchasing Document Number
BUKRS	Company Code
BSTYP	Purchasing Document Category
BSART	Purchasing Document Type
BSAKZ	Control Indicator for purchasing document type
LOEKZ	Deletion Indicator in Purchasing Document
STATU	Status of Purchasing Document
AEDAT	Date on Which Record Was Created
ERNAM	Name of Person who Created the Object
PINCR	Item Number Interval
LPNDR	Last Item Number
LIFNR	Vendor Account Number
SPRAS	Language Key
ZTERM	Terms of Payment Key
ZBD1T	Cash (Prompt Payment) Discount Days
ZBD2T	Cash (Prompt Payment) Discount Days

Technical Name	Long Text
EBELN	Purchasing Document Number
EBELP	Item Number of Purchasing Document
LOEKZ	Deletion Indicator in Purchasing Document
STATU	RFQ status
AEDAT	Purchasing Document Item Change Date
TXZ01	Short Text
MATNR	Material Number
EMATN	Material Number
BUKRS	Company Code
WERKS	Plant
LGORT	Storage Location
BEDNR	Requirement Tracking Number
MATKL	Material Group
INFNR	Number of Purchasing Info Record
IDNLF	Material Number Used by Vendor
KTMNG	Target Quantity
MENGE	Purchase Order Quantity
MEINS	Purchase Order Unit of Measure
BPRME	Order Price Unit (Purchasing)
BPUMZ	Numerator for Conversion of Order Price Unit into Order Unit
BPUMN	Denominator for Conv. of Order Price Unit into Order Unit
UMREZ	Numerator for Conversion of Order Unit to Base Unit
UMREN	Denominator for Conversion of Order Unit to Base Unit

Technical Name	Long Text
LIFNR	Account Number of Vendor or Creditor
LAND1	Country Key
NAME1	Name 1
NAME2	Name 2
NAME3	Name 3
NAME4	Name 4
ORT01	City
ORT02	District
PFACH	PO Box
PSTL2	P.O. Box Postal Code
PSTLZ	Postal Code
REGIO	Region (State, Province, County)
SORTL	Sort field
STRAS	House number and street
ADRNR	Address
MCOD1	Search term for matchcode search
MCOD2	Search term for matchcode search
MCOD3	Search term for matchcode search
ANRED	Title
BAHNS	Train station
BBNDR	International location number (part 1)
BBSNR	International location number (Part 2)
BEGRU	Authorization Group
BPCNV	Technical Name

# ASAPIO Integration Add-on is built for high performance

## Performance features:

- ✓ Multi-threaded batch mode, for load distribution to multiple SAP work processes
- ✓ Close to zero latency, for true real-time messaging
- ✓ Minimal system performance impact in daily operation

**8.000**  
events/second\*

Outbound  
Multi-threaded  
**Batch mode**

**260.000**  
events/day\*

Outbound  
**Event-driven**

\*Example figures from April 2021, from one of our large enterprise customers. Connectivity use-case: SAP ERP to a data lake, via ASAPIO Integration Add-on and REST proxy.



# Feature Overview

**ASAPIO**  
Integration  
Add-on

## **ASAPIO Integration Add-on**

For SAP NetWeaver® systems  
Works with HANA DB and S/4HANA  
SAP-certified  
Maintenance and upgrades included

## **TRIGGERS**

SAP Business Object events  
Change documents  
IDoc creation  
Custom trigger points

## **FORMATS**

CloudEvents  
JSON  
XML  
Custom formats

## **OUTBOUND MESSAGING**

Push data to a REST endpoint  
Event-driven messaging  
Batch-driven mass loads  
Multiple messages per call

## **SUPPORTED PLATFORMS**

Microsoft® Azure®, Solace®,  
SAP Advanced Event Mesh, Google® Cloud,  
Confluent®/Apache Kafka® (both via Proxy),  
AWS®, StreamSets®, REST endpoints

## **PERFORMANCE**

Load-balancing/multiple work processes  
Collect multiple events into one call  
Scheduled jobs for reprocessing  
Very low system impact

## **INBOUND MESSAGING**

Pull data from a REST endpoint  
Receive data at ASAPIO REST endpoint  
Synchronous processing  
Asynchronous processing / data staging

## **RELIABILITY**

At-least-once delivery strategy  
Unlimited retries  
Receiver is-alive check  
HA/failover connections

## **MONITORING AND MANAGEMENT**

Monitoring application  
Payload monitoring  
Customizing guide built into SAP IMG  
Transport of configurations with SAP CTS

# Contact

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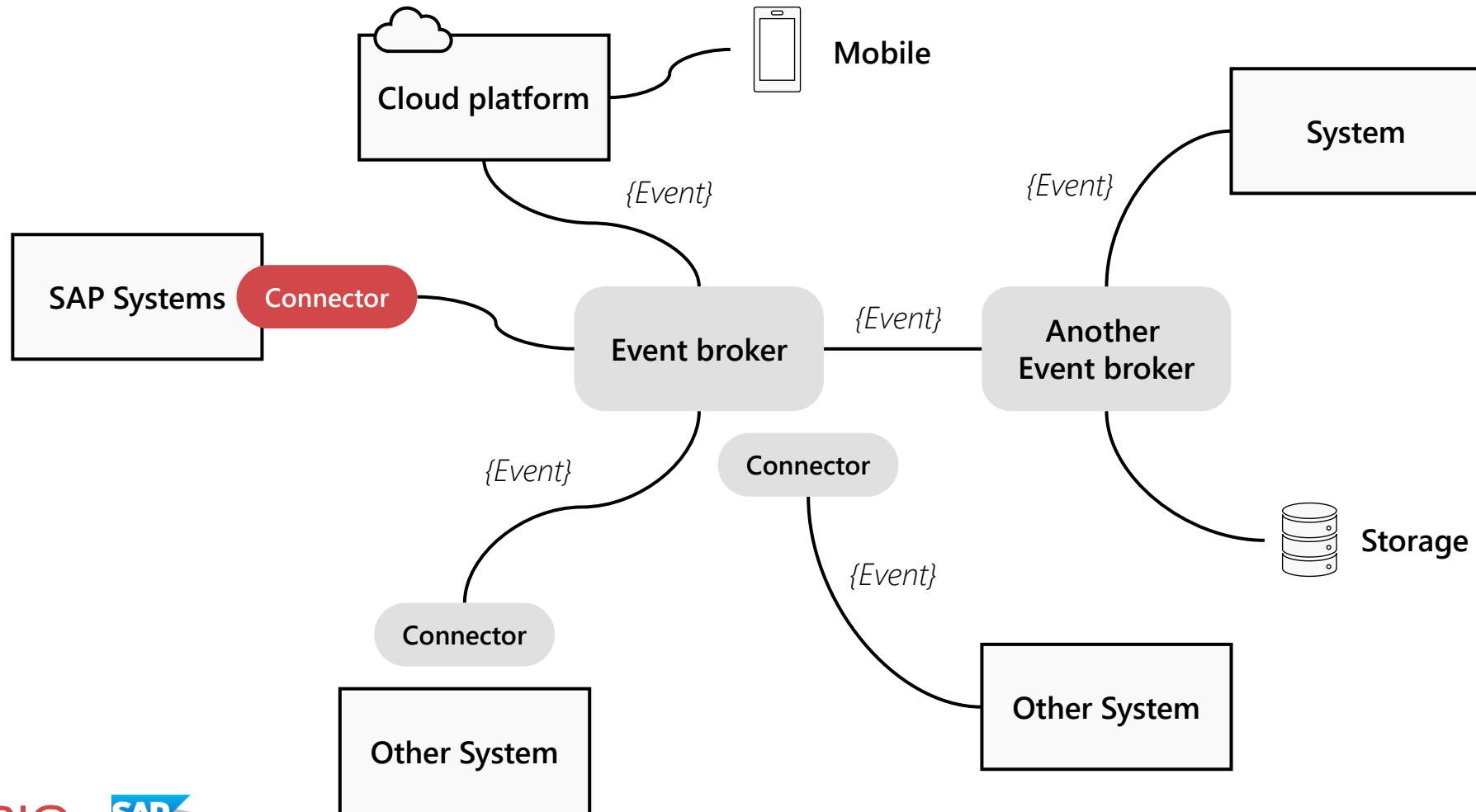
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## **Additional info**

# What is Event-driven Architecture?

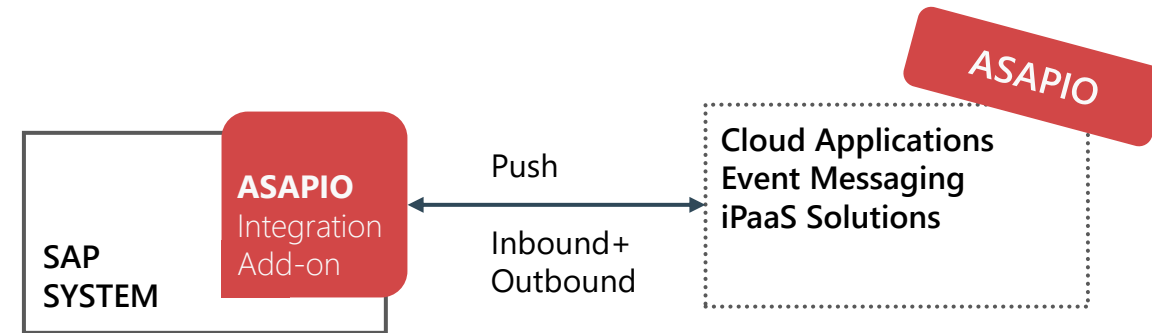
Systems publish data ("Events") to an event broker and/or subscribe to relevant data.



# ASAPIO approach compared to CDC/middleware

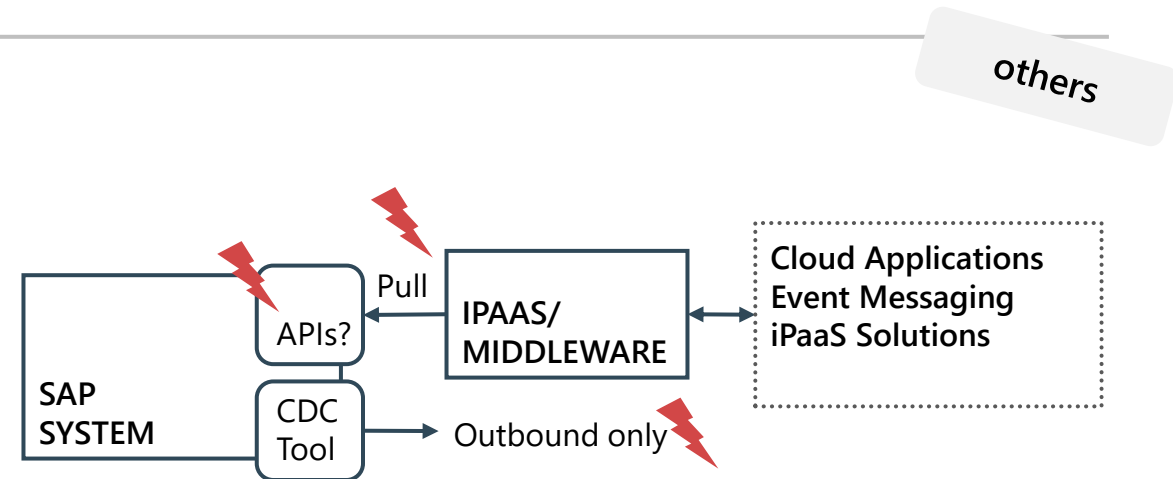
## Benefits of ASAPIO approach:

- ✓ Native connectivity with SAP application layer
- ✓ Low performance impact
- ✓ Full control of data and workload
- ✓ No separate server required



## Downsides of middleware or database CDC approaches:

- ✓ Custom API developments required
- ✓ iPaaS or middleware required
- ✓ CDC tools are fast, but have no application access
- ✓ Middleware is a performance bottleneck



# SAP event brokers on Business Technology Platform



## SAP Business Technology Platform

### SAP Event Mesh

- ✓ Message size up to 1 MByte
- ✓ Message storage up to 10 Gbyte
- ✓ Connectivity: *SAP Event-enablement Add-on* (powered by ASAPIO) included

### SAP Advanced Event Mesh

- ✓ Message size up to 30 MByte (instead of 1)
- ✓ Message storage up to 800 GByte (instead of 10)
- ✓ Dynamic Topics
- ✓ AsyncAPI export to API management
- ✓ Event Portal
- ✓ Connectivity: *ASAPIO Connector for SAP Advanced Event Mesh* required

# ASAPIO Integration Add-on - Options for Evaluations

## Free Evaluation License

### 30 days trial license

- 2-hour installation support session
- 2-hour Q+A session
- No system access possible

**Free of charge**

## PoC Package – Solace Edition

### 60 days trial license + 40 hours of consulting

- Assisted by a dedicated consultant
- 40 hours of consulting budget
- Remote SAP system access possible

**Please ask for pricing**

Both options are available from Solace, please contact your sales representative.