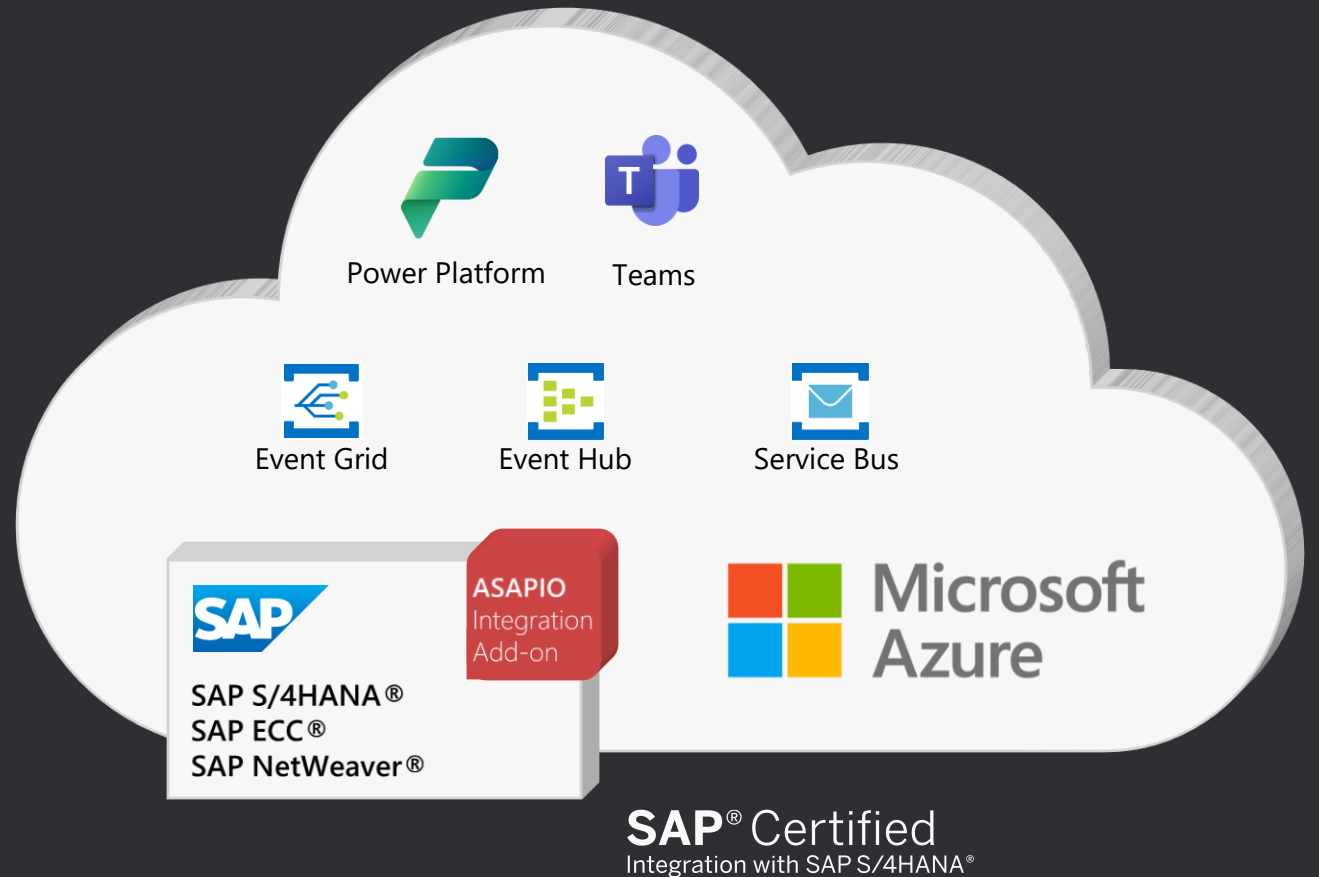


Connect SAP to Microsoft Azure – with ASAPIO



Why connecting SAP to Azure?

Extend SAP data and business processes into the Cloud.



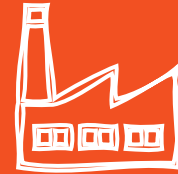
SAP
process
integration



Microsoft
end-user
apps



Real-time
data
analytics



Material/
stock data
exchange



Connected
suppliers/
logistics



Integrate
non-SAP
systems

ASAPIO directly integrates SAP with Azure, Office and more



ASAPIO runs on:

SAP S/4HANA

SAP ECC

On-premises

SAP-on-Azure

Private Cloud

Unique features:

Bi-directional

Direct, no PI/PO

No-code/low-code

Real-time events

Batch loads

Connects to:

Event Grid

Event Hubs

Service Bus

Power Platform

Office, Teams, ...

ASAPIO brings SAP built-in data to Azure, real-time

SAP throws thousands of built-in events – ASAPIO makes them available to Azure.
Any SAP data.

Sales order
created/changed

Purchase order
created/changed

Material master
created/changed

Stock level
created/changed

Accounting
created/changed

Asset information
created/changed

Typical Business Use Cases

Online Shops and Retail (B2C)

Characteristics:

High frequency, real-time data exchange as well as mass data transfers

Supply Chain and Procurement (B2B)

Often event-based system-to-system integration, high performance data exchange, time-critical processes

Service Orders, Plant Maintenance, Equipment

Inbound + outbound integration, many diverse receiving systems

Analytics and Data Lakes

Fast mass data transfer
Initial and incremental load



Retail and Commerce Use-cases

Online Commerce and Retail (I)

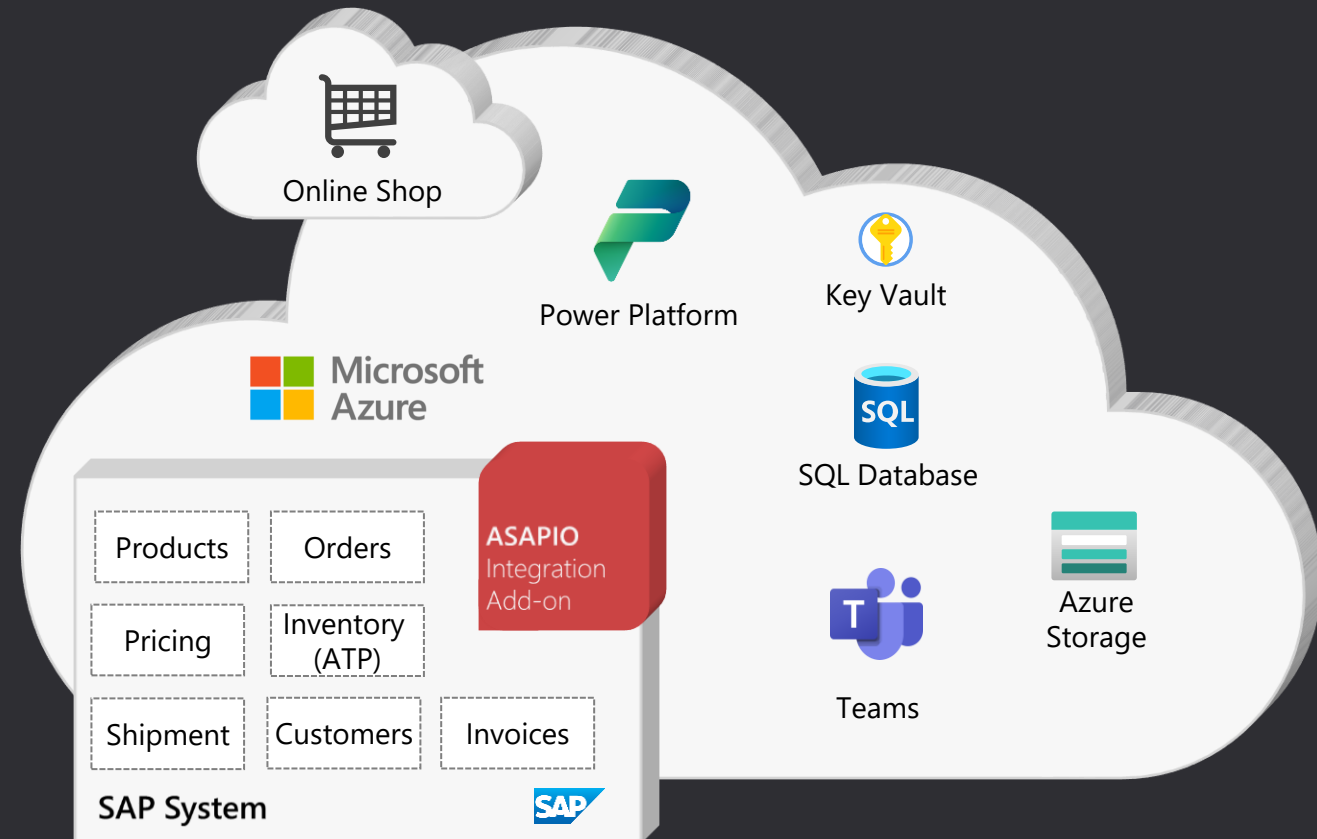
Get customer + product data from SAP

Show stock level to user in real-time

Create SAP sales orders

Update shipment info

Create SAP invoice



Online Commerce and Retail (II)



Cloud Analytics

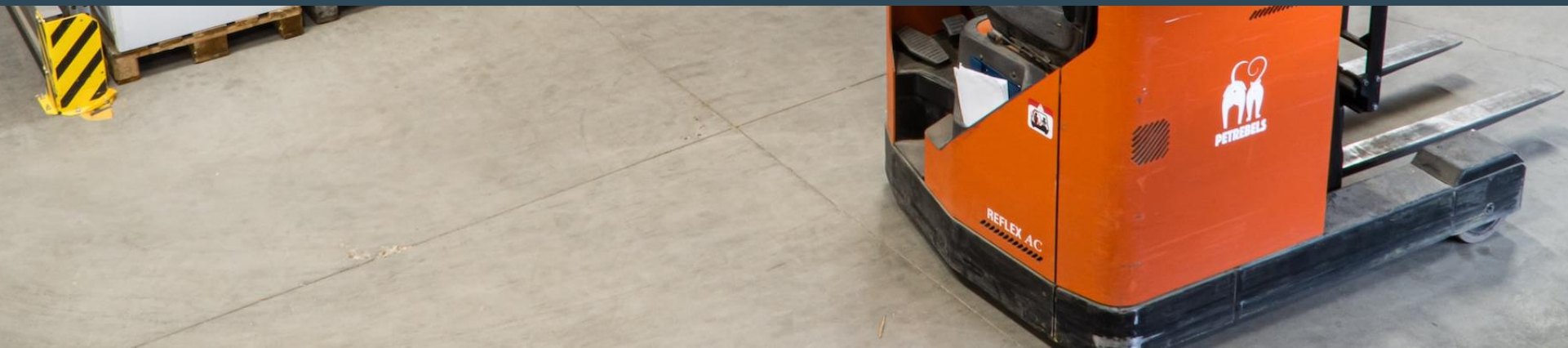
Send order volumes and stock level into data lakes, for real-time analytics and decision making on Black Friday

Dynamic Product Pricing

Inbound, event-driven load of 3rd party pricing data to SAP, for automated price updates based on competitors and market



Supply Chain and Procurement Use-cases



Supply Chain and Procurement

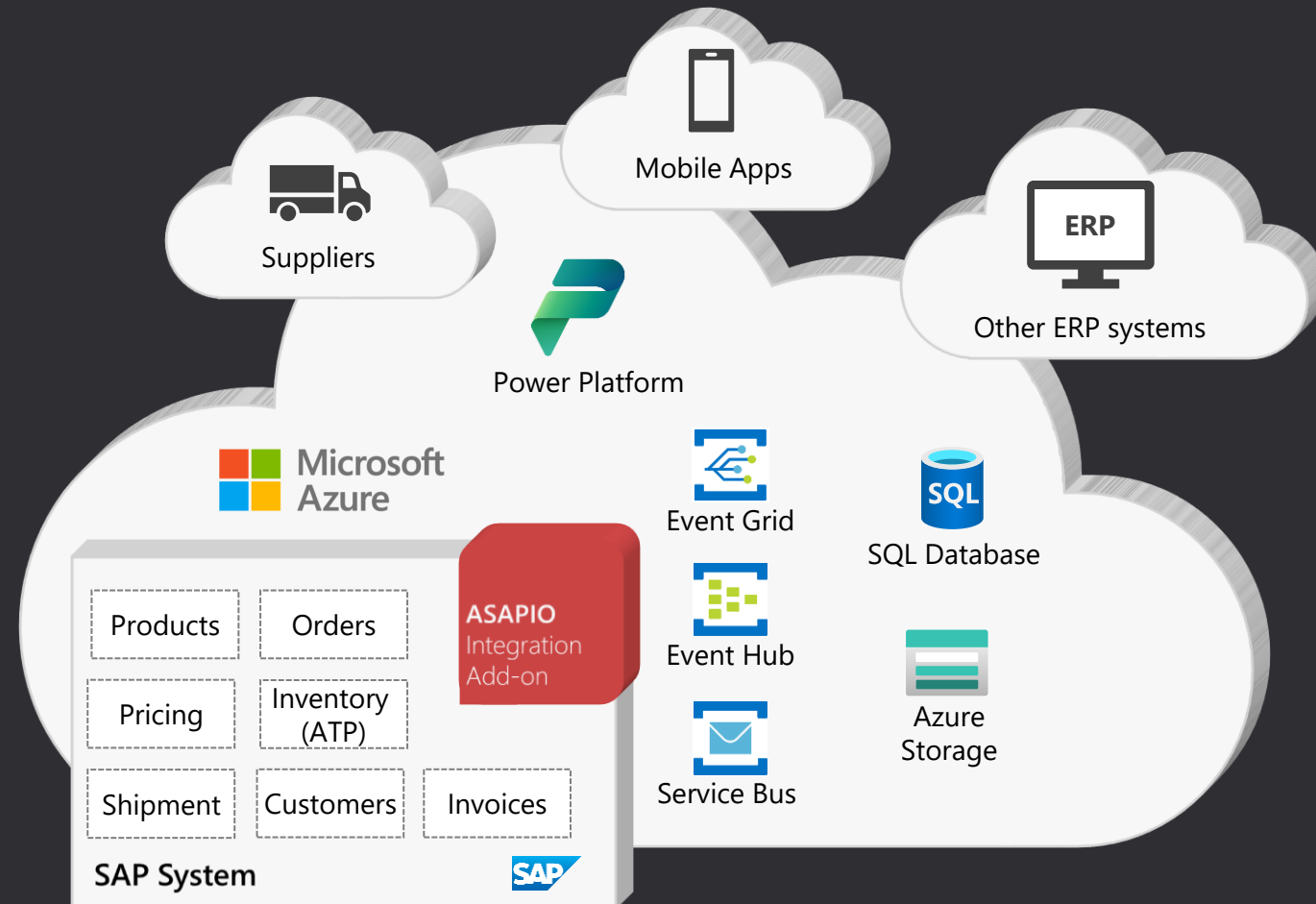
Exchange sales, logistics and procurement data

Use high-volume SAP data in cloud analytics

Exchange purchase orders with vendors

Distribute Work orders and Component Forecast

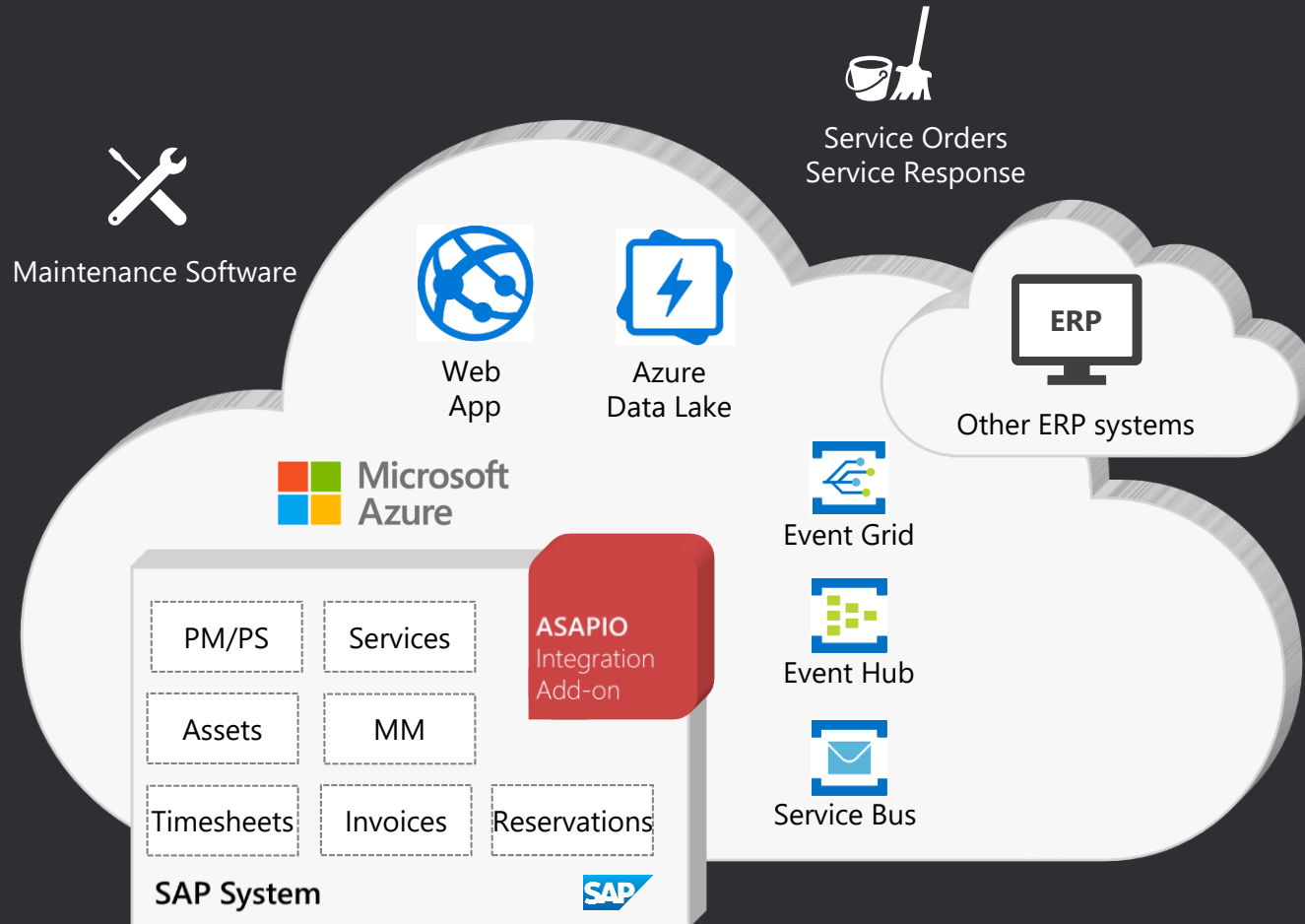
Exchange equipment information with scheduling apps





Plant Maintenance, Services and Equipment Use-cases

Plant Maintenance, Services and Equipment



Distribute plant maintenance work orders

Provide service orders to scheduling apps

Handle service responses

Distribute master data to multiple receiving systems

Connect hybrid landscapes, SAP and non-SAP

Create interfaces in minutes with ASAPIO – without coding!

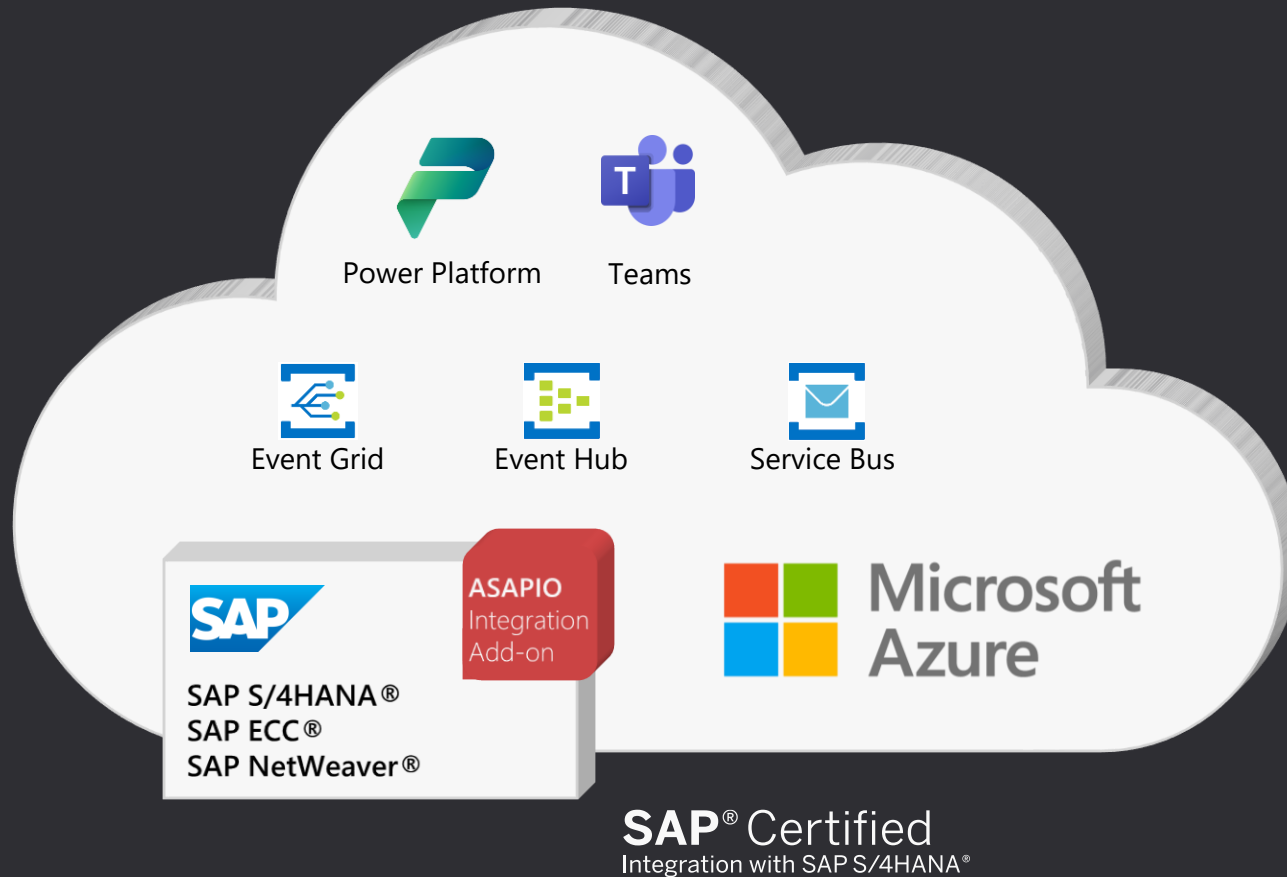
- ✓ Graphical design of the message structure
- ✓ Saved as configuration, not dev objects
- ✓ Select tables + fields, create joins
- ✓ Supports hierarchical structures
- ✓ Optional: database or CDS view based definition, user defined code or formats

The screenshot displays the ASAPIO software interface for configuring a message structure. The main window is titled "Change View 'Outbound Objects': Details". It features a menu bar (Join, Edit, Goto, Extras, System, Help) and a toolbar with various icons. The interface is divided into several panes:

- EKKO : Purchasing Document Header**: A table with columns "Technical Name" and "Long Text". Fields include EBELN (Purchasing Document Number), BUKRS (Company Code), BSTYP (Purchasing Document Category), BSART (Purchasing Document Type), BEAKZ (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), LPONR (Last Item Number), LIFNR (Vendor Account Number), SPRAS (Language Key), ZTERM (Terms of Payment Key), ZBD1T (Cash (Prompt Payment) Discount Days), and ZBD2T (Cash (Prompt Payment) Discount Days).
- EKPO : Purchasing Document Item**: A table with columns "Technical Name" and "Long Text". Fields include 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 C), BPUMN (Denominator for Conv. of Order Price Unit into Ord), UHREZ (Numerator for Conversion of Order Unit to Base Un), and UHREN (Denominator for Conversion of Order Unit to Base U).
- LFA1 : Vendor Master (General Section)**: A table with columns "Technical Name" and "Long Text". Fields include 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), MCO1 (Search term for matchcode search), MCO2 (Search term for matchcode search), MCO3 (Search term for matchcode search), ANRED (Title), BAHNS (Train station), BBN1 (International location number (part 1)), BBSNR (International location number (Part 2)), BEGRU (Authorization Group), and BUCRV (Trade name).

A "Left Outer Join" relationship is indicated between the EBELN field in the EKKO table and the EBELN field in the EKPO table. A "Navigation" icon is visible in the bottom right corner of the interface.

Why using ASAPIO to connect SAP to Azure?



- ✓ Use thousands of built-in SAP events as trigger points or create your own
- ✓ Real-time events or batch processing
- ✓ For outbound and inbound data
- ✓ No-code and low-code tools
- ✓ Fast (thousands of messages/sec)
- ✓ With authentication, monitoring, post-processing
- ✓ For SAP on-premise, private cloud and SAP-on-Azure

ASAPIO Integration Add-on is built for high performance

Sales Use-case¹

8,000 events/second
outbound, multi-
threaded, batch mode

260,000 events/day
outbound, event-driven

Close to **zero latency** –
for true **real-time** messaging

Procurement Use-case²

1.2M Purchase Requisitions
updated/day

200,000 Purchase Order
updates/day

300,000 Goods Receipts
posted/day

200,000 Invoices
received/day

Mass Data Provisioning³

500 million pricing table records
extracted in 12 thousand seconds =

41,000 messages per second
processed

1 Approximate sample figures from 2021: large enterprise customer, connectivity use-case: SAP ERP to a data lake, via ASAPIO Integration Add-on and Confluent® Kafka REST proxy

2 Approximate sample figures from 2022: large enterprise customer, SAP ERP backend, using Microsoft® Azure® event services with ASAPIO integration Add-on


3 Approximate sample figures from 2023: large enterprise healthcare customer, SAP ERP to Confluent (Kafka) as target system

Demo Videos

ASAPIO Symposium 2022
Event-Driven Architecture for SAP Customers


Demo: Approve a SAP purchase order in Teams

- ✓ SAP S/4HANA (but would works with ECC 6.0)
- ✓ ASAPIO Integration Add-on installed
- ✓ Azure Event Grid + Logic App
- ✓ Microsoft Teams

 Martin Schöffler / Product Owner, ASAPIO

ASAPIO SAP 0:01 / 8:38 Introduction >

Demo: Approve SAP PO in Teams channel
8m39s video
https://www.youtube.com/watch?v=fLSTb_kWXgs

 Microsoft Azure

**Event-driven architecture LIVE:
Approve an SAP® Purchase Order
in Microsoft Teams®**

ASAPIO Integration Add-on for Microsoft® Azure®

ASAPIO SAP 0:01 / 0:59

Demo: Approve SAP PO in Teams channel
1min video
<https://www.youtube.com/watch?v=8nfwk3nCMb0>

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Microsoft Partner

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