

November 19, 2020

Connect SAP[®] systems to Apache Kafka[®] with Confluent[®] and ASAPIO



SAP[®] Certified
Powered by SAP NetWeaver[®]



ASAPIO | Your SAP® Partner for Cloud Integration and Procurement Solutions

We specialize in integration of cloud systems, SAP procurement solutions and technologies.

Founded in 2003 and owned by three former SAP fellows, we are today an SAP silver partner with a growing team of SAP application and technology experts. We operate world-wide, with head office in Munich/Germany, various offices across Germany and an own nearshore center.



Cloud Integration

ASAPIO's technology connects SAP systems with cloud applications, event messaging solutions and third-party apps/platforms



Procurement Solutions

Consulting Services for
SAP S/4HANA®
SAP Ariba®
SAP Fieldglass®
SAP Business Suite®/ERP/PLM



Technology

Software Development
SAP Workflow Technology
ABAP®
SAP Fiori®
SAP Cloud Platform®



What is Event Messaging and why is it important to SAP customers?

“Event streaming is the digital equivalent of the human body's central nervous system. It is the technological foundation for the 'always-on' world where businesses are increasingly software-defined and automated, and where the user of software is more software.”

kafka.apache.org/intro

Fact is, Event Messaging is everywhere around us, already today:

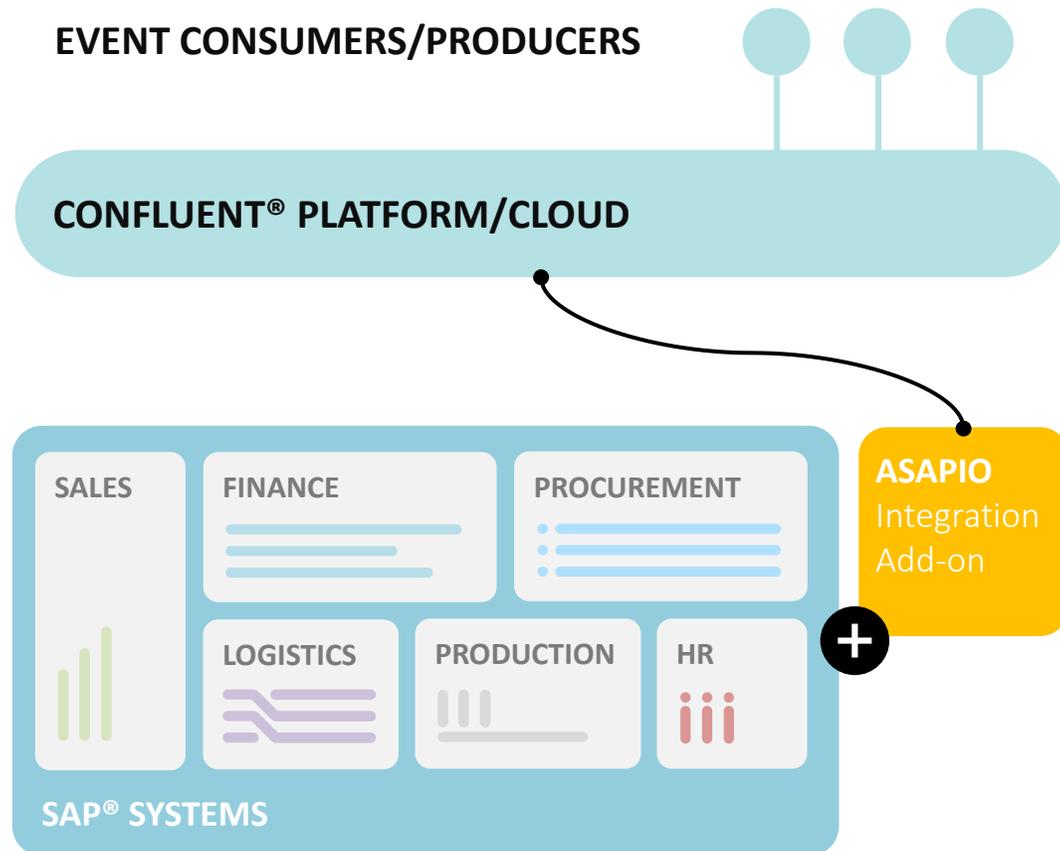
- ✓ shops and payment providers use event messaging
- ✓ booking a flight uses event messaging
- ✓ delivery tracking uses event messaging
- ✓ connected cars use event messaging
- ✓ ...and many more

→ Data from SAP systems is required to turn ‘events’ into revenue



ASAPIO Integration Add-on

enables SAP® systems for Confluent® and Kafka® integration



ASAPIO Integration Add-on provides direct connection for supported SAP NetWeaver® system into

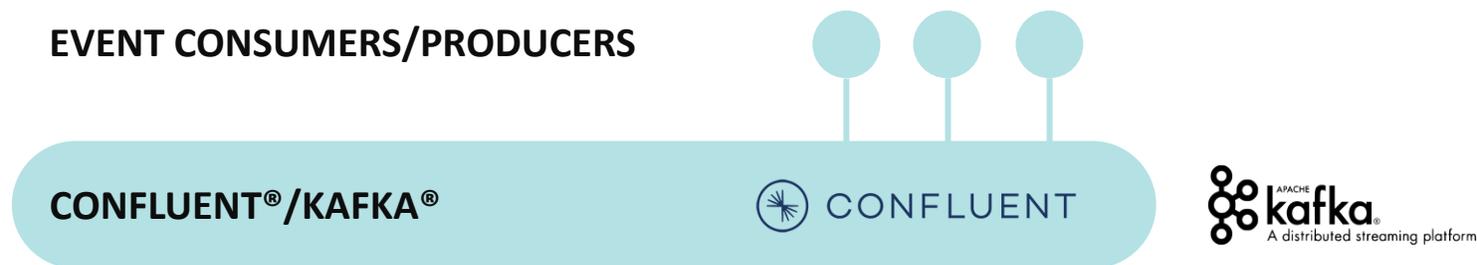
- Confluent® Platform**
- Confluent® Cloud**
 - Supports inbound and outbound messages
 - Requires Confluent® Kafka® REST Proxy



ASAPIO features for Confluent®

ASAPIO Integration Add-on is the perfect ETL solution for Confluent®

- Out-of-the-box connectivity via ASAPIO Confluent®/Apache Kafka® Connector
- REST-based outbound communication via Confluent Kafka REST proxy
- Inbound interface via ASAPIO REST endpoint (push) or via Confluent Kafka REST proxy (pull)
- Choose between event-driven (single events) or batch mode (multiple events, also multiple events per REST proxy call)



Customer business use-cases for event messaging integration of SAP data

Chemical Industry



Provide SAP sales order status and logistics info to customer mobile apps, via a data lake

Aerospace



Real-time quality management reporting, from SAP QM to the global quality cockpit solution

Retail and End-customer business



Send SAP data to data lakes, for real-time analytics during high-volume promotions (Black Friday)

Manufacturing



Sensor data from the field reporting failing equipment, creating an SAP maintenance order

Retail and End-customer business



Collect competitor prices for benchmarking



... and many more!

ASAPIO Integration Add-on

Key features

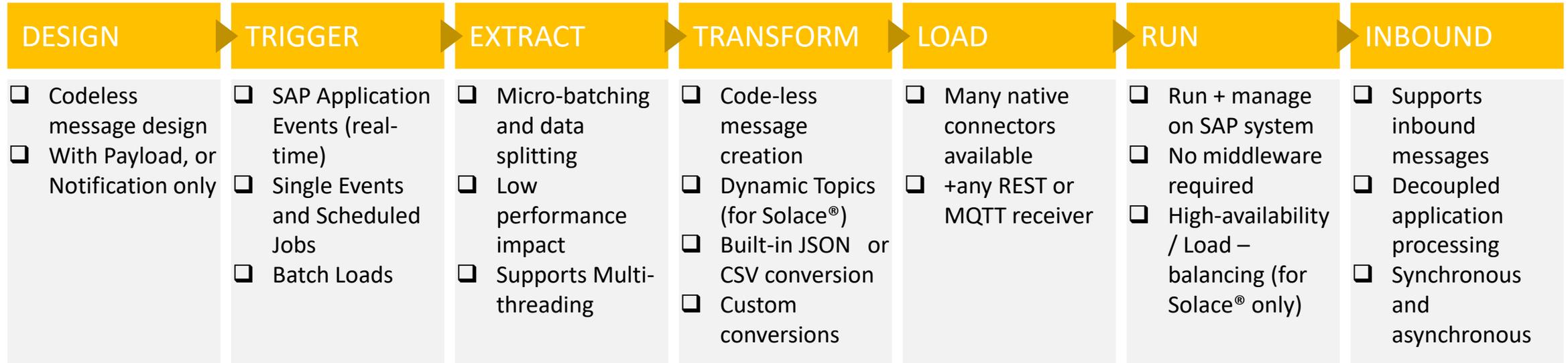
ASAPIO
Integration
Add-on



- ✓ SAP-certified
- ✓ Code-less message design and data extraction
- ✓ Outbound and inbound processing possible
- ✓ Packaged business capabilities available
- ✓ Supports multi-threading and high-availability
- ✓ Secure data handling + secure communication
- ✓ Direct access to SAP business objects
- ✓ Direct access to database tables
- ✓ 2,500+ standard event triggers
- ✓ Supports 1:n connectivity
- ✓ Build re-usable content
- ✓ Close to zero latency

ASAPIO Integration Add-on is simple to configure and easy to operate and maintain.

ASAPIO Integration Add-on is an end-to-end solution and offers more than just ETL



From database to event message:

Simple and code-less message design

Example: send SAP material master data as event message

- ✓ Specify an SAP Data Dictionary view
- ✓ Add (multiple tables) like MARA and the required fields for the message
- ✓ Table relations and foreign keys are automatically considered
- ✓ Configure ASAPIO Integration Add-on to use the view

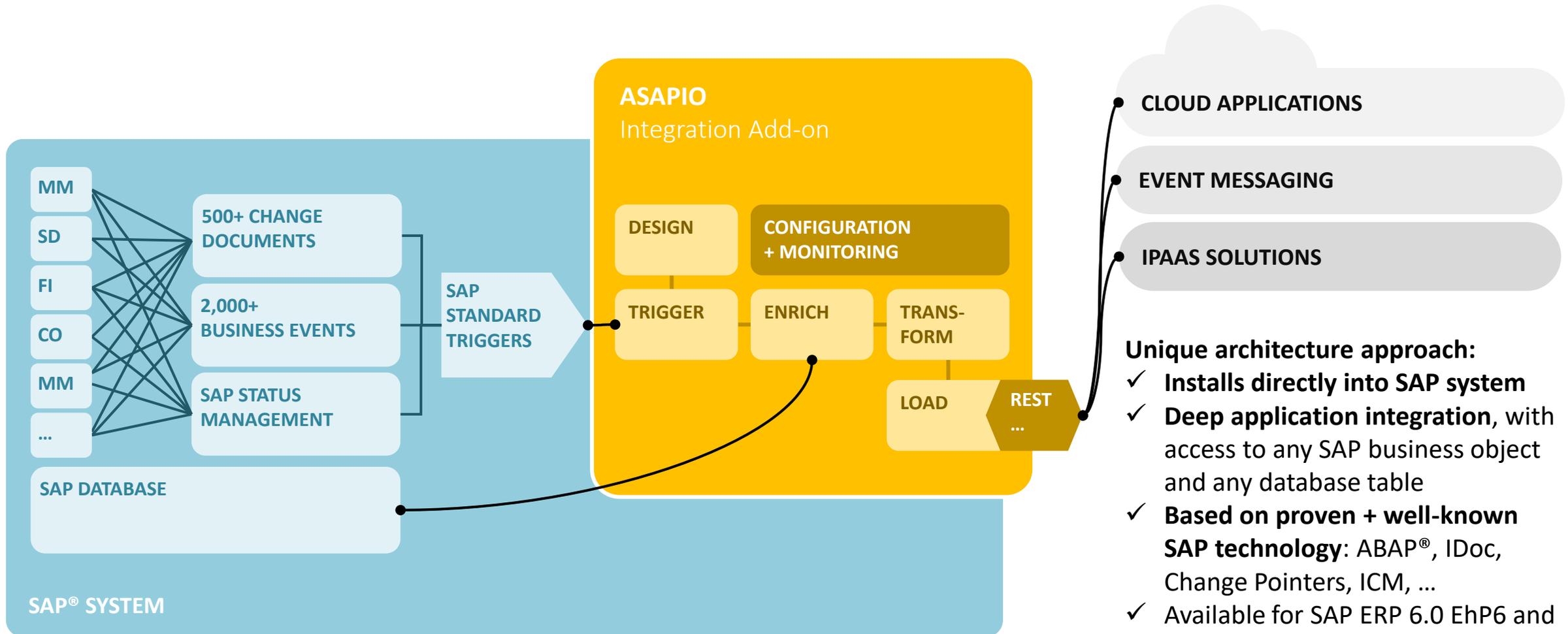
SAP® SYSTEM

View field	Table	Field	Key	Data elem.
MANDT	MARA	MANDT	<input checked="" type="checkbox"/>	MANDT
MATERIAL_NUMBER	MARA	MATNR	<input checked="" type="checkbox"/>	MATNR
ADDITIONAL_UNIT	MARM	MEINH	<input checked="" type="checkbox"/>	LRMEI
MTART	MARA	MTART	<input type="checkbox"/>	MTART
MATKL	MARA	MATKL	<input type="checkbox"/>	MATKL
UMREZ	MARM	UMREZ	<input type="checkbox"/>	UMREZ
UMREN	MARM	UMREN	<input type="checkbox"/>	UMREN
BASE_UNIT	MARA	MEINS	<input type="checkbox"/>	MEINS
EAN11	MARM	EAN11	<input type="checkbox"/>	EAN11
BRGEW	MARM	BRGEW	<input type="checkbox"/>	BRGEW
GEWEI	MARM	GEWEI	<input type="checkbox"/>	GEWEI

EVENT MESSAGE

```
{
  "specversion": "1.0",
  "type": "asapio.aci.achievents01.msctest",
  "source": "SAP_EM/MATERIAL_CHANGE",
  "id": "MATERIAL_CHANGE2020110322541650 ",
  "time": "2020-11-03T22:54:15.565Z",
  "data": {
    "MARA": [
      {
        "MANDT": "100",
        "MATERIAL_NUMBER": "CP_5001",
        "MTART": "FERT",
        "MATKL": "015",
        "BASE_UNIT": "ST",
        "MARM": [
          {
            "ADDITIONAL_UNIT": "KAR",
            "UMREZ": 15,
            "UMREN": 1,
            "EAN11": "4015000267397",
            "BRGEW": 3.750,
            "GEWEI": "KG"
          }
        ]
      }
    ]
  }
}
```

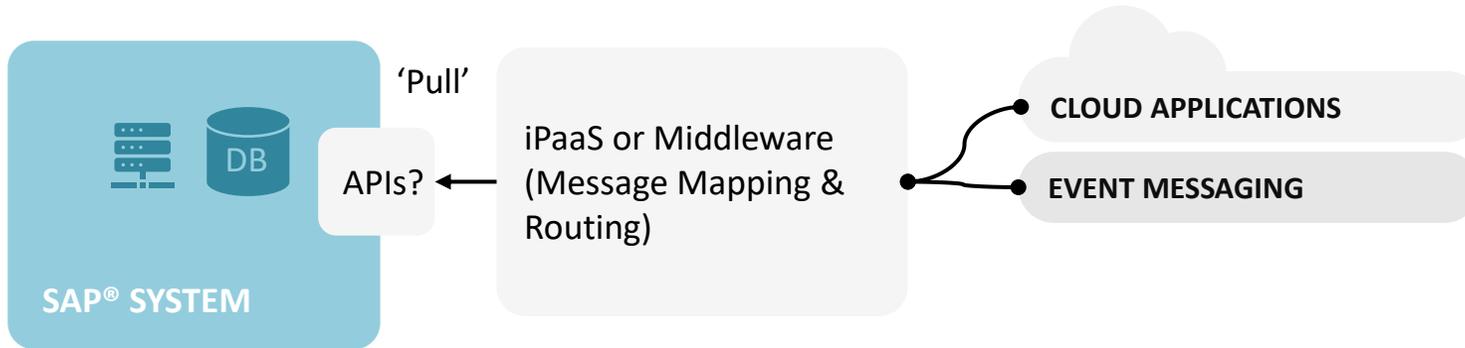
Inside ASAPIO Integration Add-on: Architecture / How does it work?



- Unique architecture approach:**
- ✓ **Installs directly into SAP system**
 - ✓ **Deep application integration**, with access to any SAP business object and any database table
 - ✓ **Based on proven + well-known SAP technology:** ABAP®, IDoc, Change Pointers, ICM, ...
 - ✓ Available for SAP ERP 6.0 EhP6 and S/4HANA 1609, or higher versions

Benefits of ASAPIO approach compared to others on the market

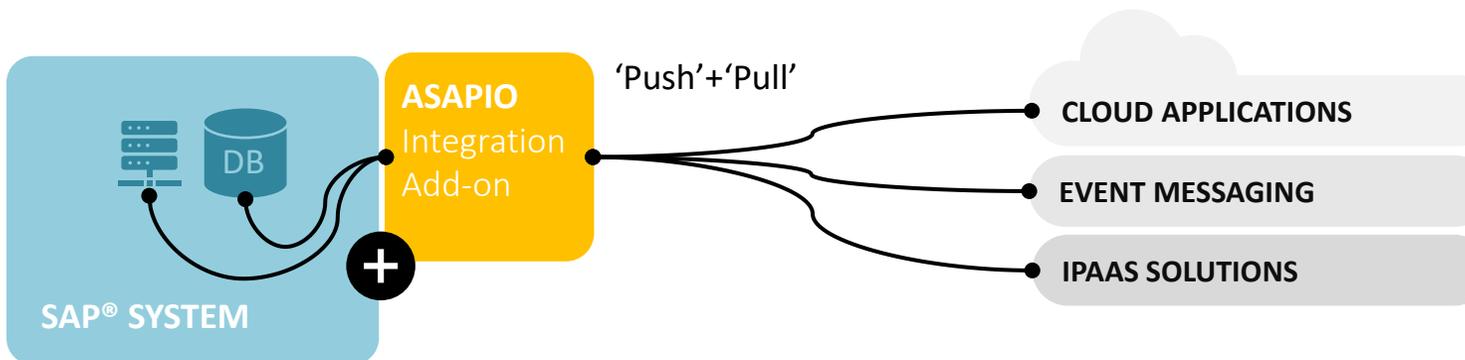
Traditional integration requires custom APIs and middleware/integration platforms



Requires custom developments

- No direct data access
- Usually custom APIs required
- Typically 1:1 connectivity
- Hardly re-usable
- High performance impact

ASAPIO Integration Add-on is the API, with direct application and database access



Out-of-the-box solution

- ✓ Direct application + data access
- ✓ 2,500+ standard event triggers
- ✓ Supports 1:n connectivity
- ✓ Re-usable
- ✓ Built for high performance:
- ✓ Close to zero latency
- ✓ Multi-threading

How to get ASAPIO Integration Add-on?

Editions and Reseller Versions

ASAPIO
Integration
Add-on



ASAPIO Integration Add-on

ACI Framework
+ Connector for
Confluent®

Maintenance &
Updates included

ASAPIO Integration Add-on is offered as a subscription license product

- ✓ License metric is based on number of productive SAP systems and number of configured event messaging objects
- ✓ ASAPIO provides support services with SLAs
- ✓ Subscription customers are also eligible for any updates/new releases
- ✓ Please reach out for technical requirements and pricing details:

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