

December 2020

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



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Powered by SAP NetWeaver®



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ASAPIO – 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 technology connects SAP systems with cloud applications, event messaging and iPaaS solutions



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®



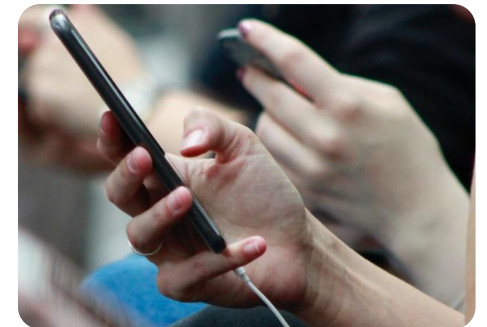
What is event messaging and why is it important to SAP customers?

“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

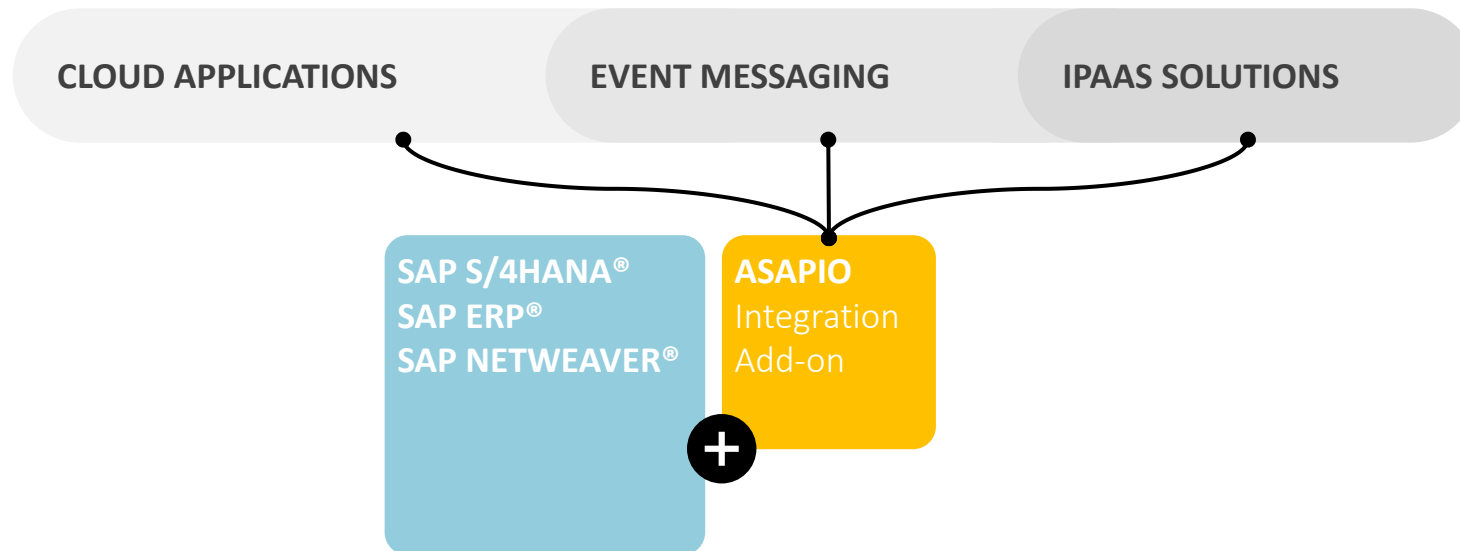
→ Getting data from or into SAP systems is required to turn events into revenue



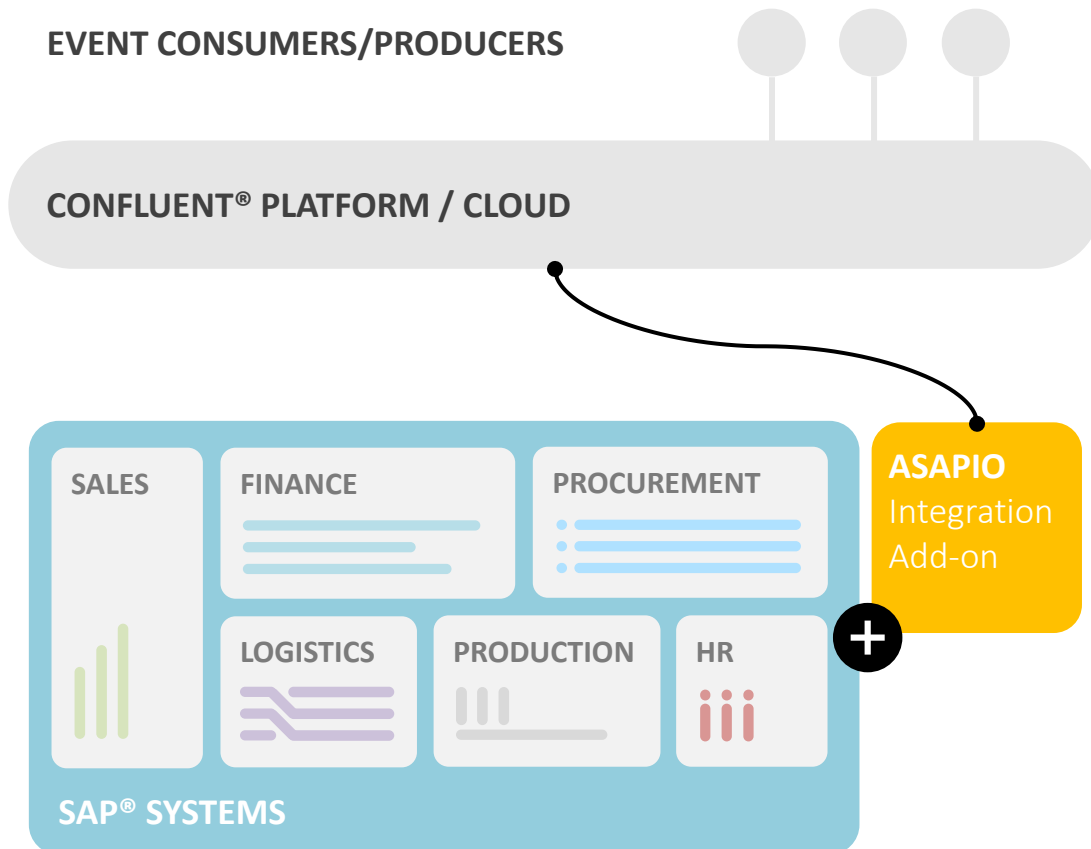
ASAPIO Integration Add-on enables SAP® systems for cloud integration

ASAPIO Integration Add-on connects SAP S/4HANA®, SAP ERP® and other SAP NetWeaver® systems to:

- ✓ cloud applications
- ✓ event messaging
- ✓ any iPaaS solution and REST-enabled application



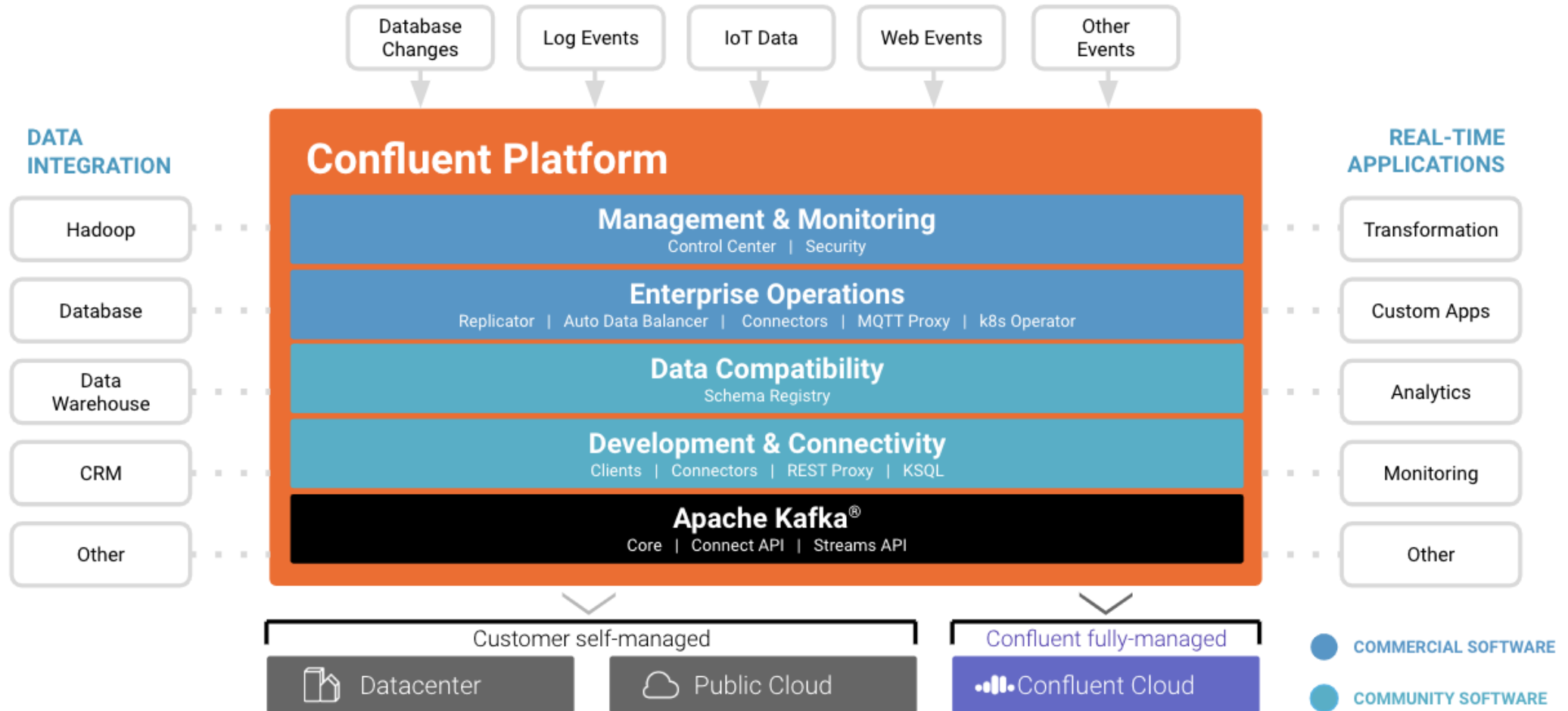
Confluent® and Kafka® integration for SAP® systems



ASAPIO Integration Add-on is the perfect ETL solution for Confluent® Platform and Cloud:

- Out-of-the-box connectivity
- REST-based communication
- Inbound interface included
- Supports single events and batch mode (multiple events)
- Multiple events per REST proxy call possible

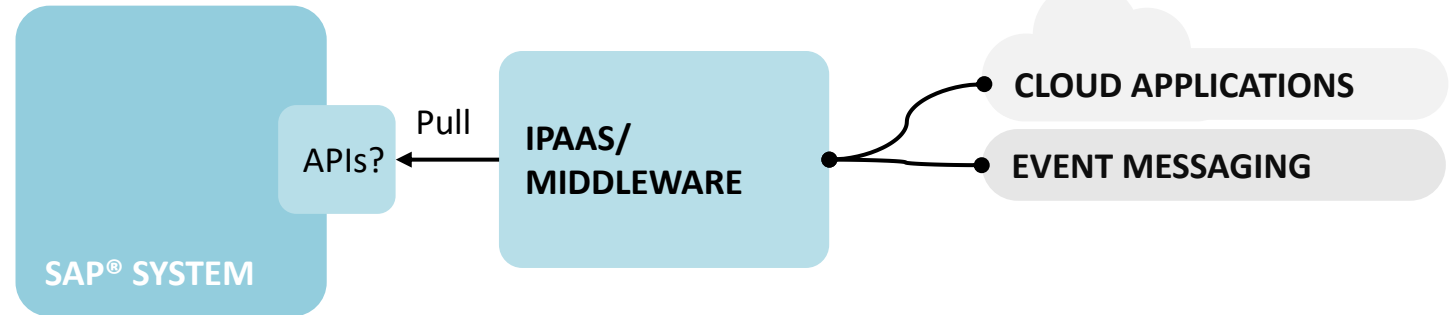
Confluent Platform[®], a more complete distribution of Apache Kafka[®]



Benefits of ASAPIO approach compared to others on the market

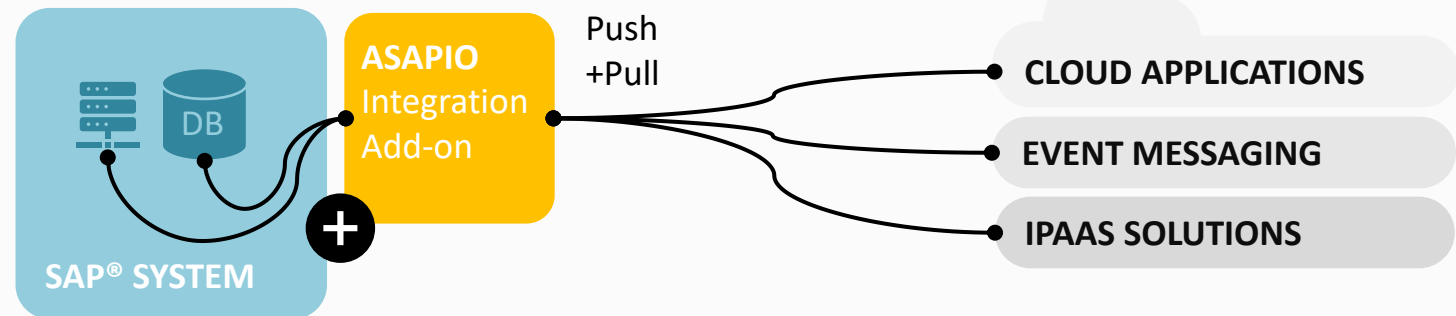
Downsides of traditional integration approach:

- Custom API developments required
- iPaaS or middleware required
- No direct data access
- Typically 1:1 connectivity
- Hardly re-usable
- High performance impact

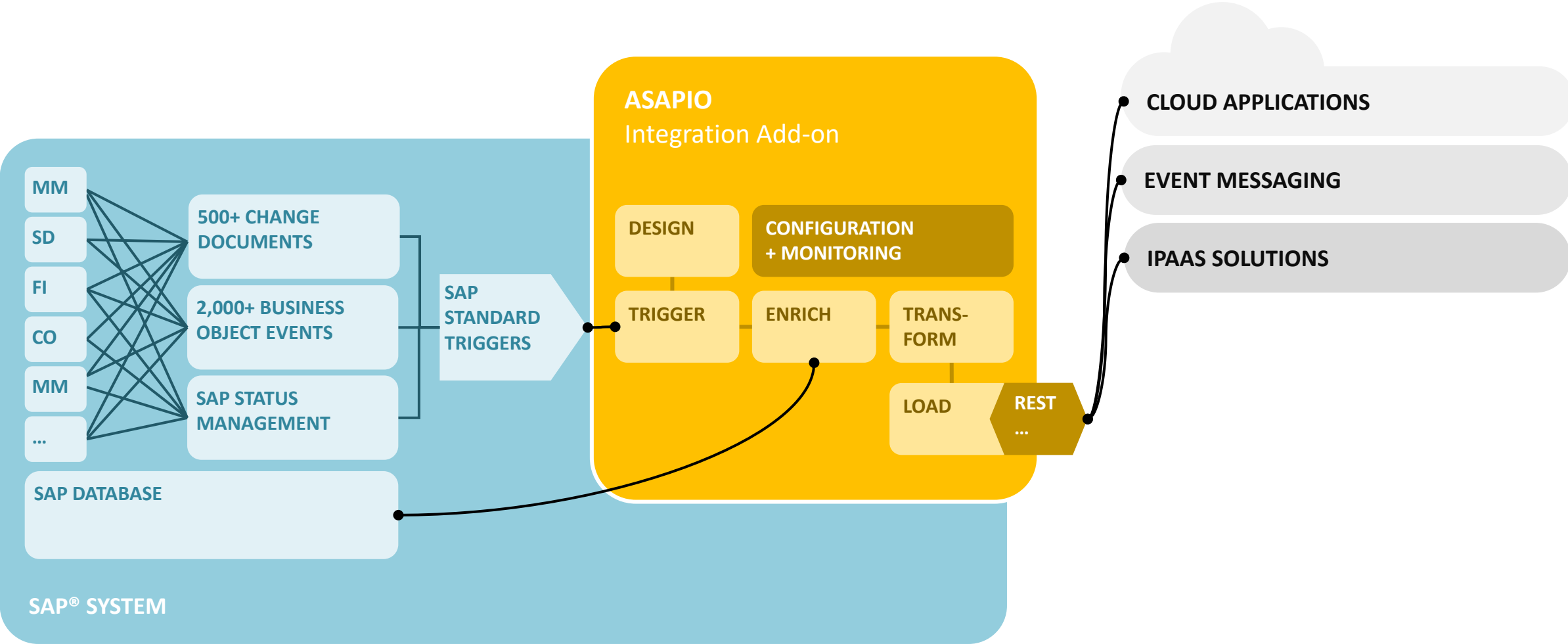


Benefits of ASAPIO approach:

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



Architecture / How does it work?



Simple and code-less message design

Example: send SAP material master data as event message

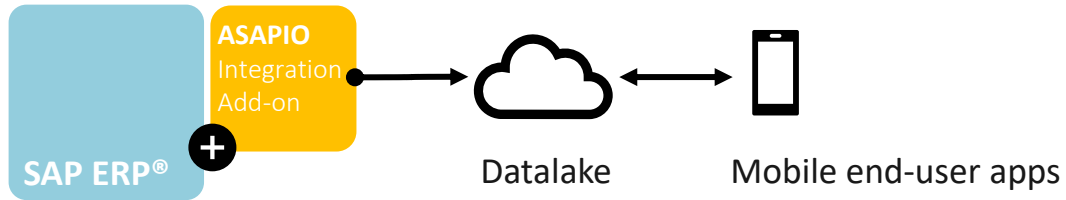
- ✓ Specify an SAP Data Dictionary view
- ✓ Add (multiple tables) like MARA and the required fields for the message
- ✓ Table relations and foreign keys are automatically considered
- ✓ Configure ASAPIO Integration Add-on to use the view

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.events01.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"
          }
        ]
      }
    ]
  }
}
```

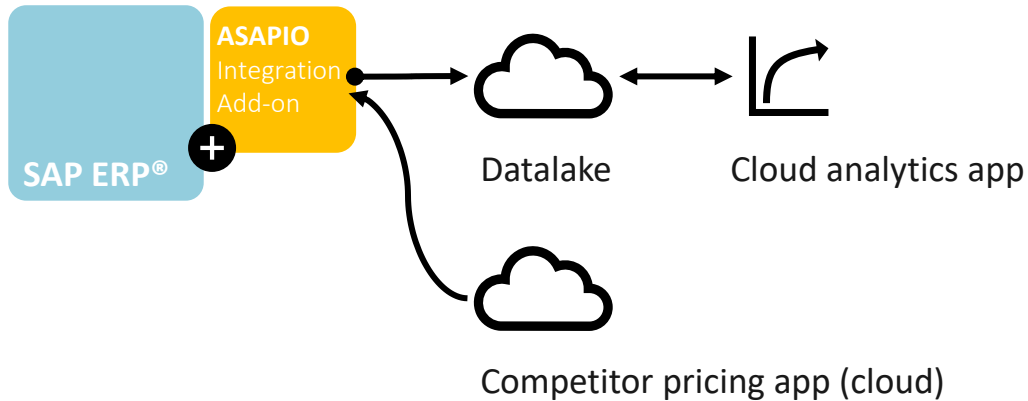
Customer business use-cases



Sales + logistics data (Large chemical company)

ASAPIO provides high-volume data (SAP sales orders and logistics info) to a data lake, for buffered data provisioning to end-customer mobile apps

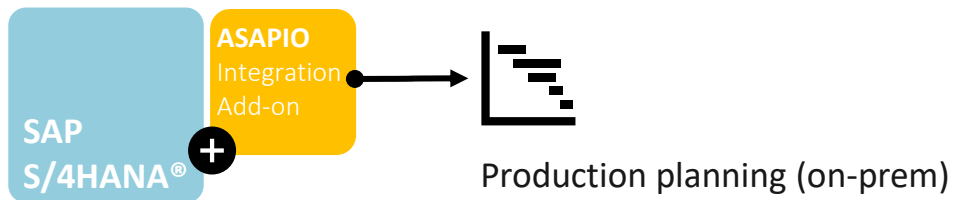
Live Customer



Sales data (Retail industry customer)

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

Live Customer



Product pricing data

Inbound process, for event-driven load of competitor pricing into SAP ERP®, for automated price benchmarking

PoC ongoing

Production planning data (Automotive customer)

Event-driven transfer of central SAP S/4HANA® production planning data to non-SAP fine-planning solutions. High data-volumes expected, process stability is critical.

PoC ongoing

ASAPIO Integration Add-on – the ‘Swiss army knife’ for interfaces

- ✓ Create code-less APIs and event messages for any SAP® data
- ✓ SAP-certified and licensable from SAP (for selected scenarios)
- ✓ Direct access to *any* SAP business object and *all* database tables
- ✓ Use over 2,500 standard event triggers in SAP ERP® and SAP S/4HANA®
- ✓ Packaged business content available
- ✓ Extensible by customers and partners



Faster results




Lower project risk



Higher quality

How to get the ASAPIO Integration Add-on?



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
- ✓ For technical requirements and pricing details please reach out to:

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