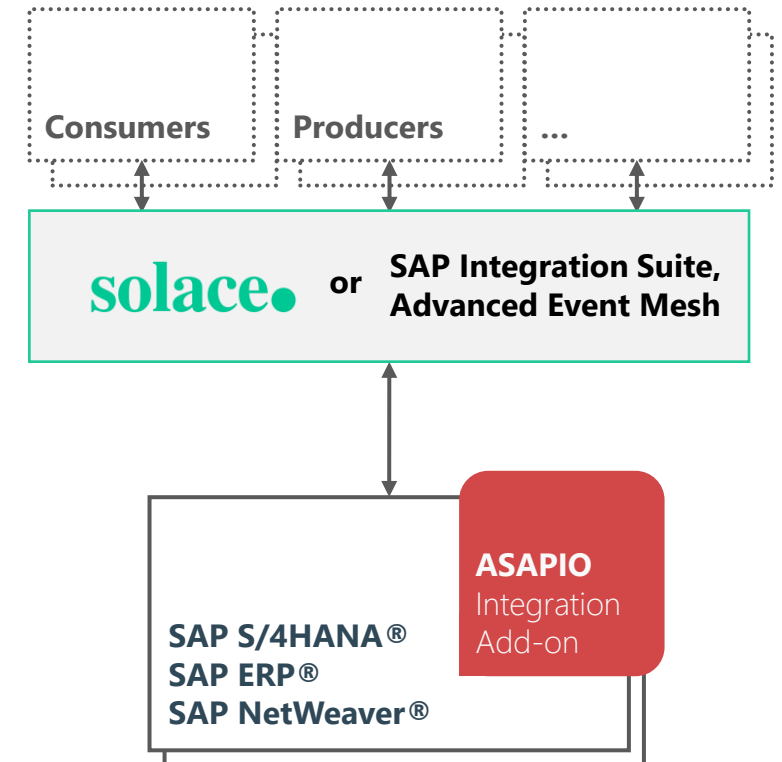


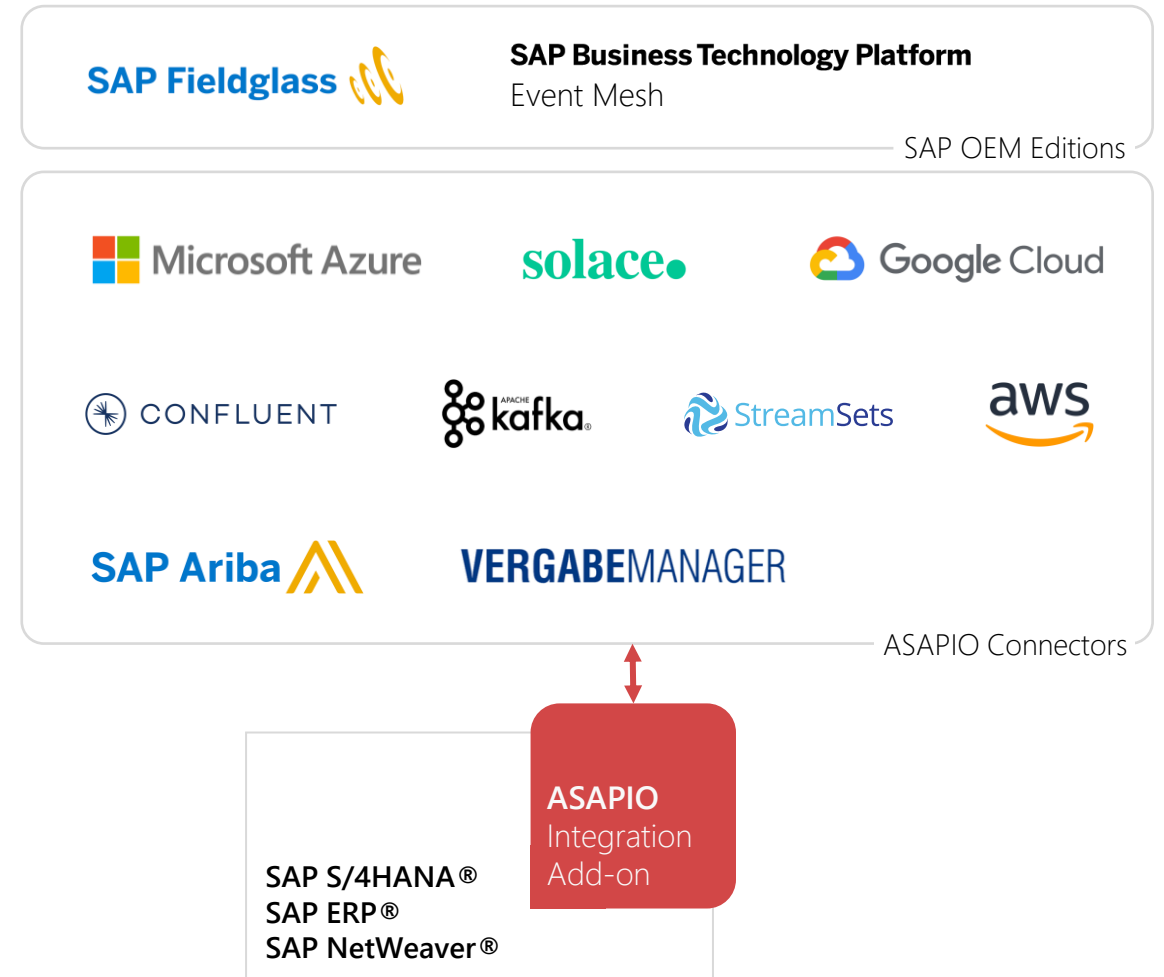
# Connect SAP® to Solace® and SAP Advanced Event Mesh

Real-time and code-less application integration

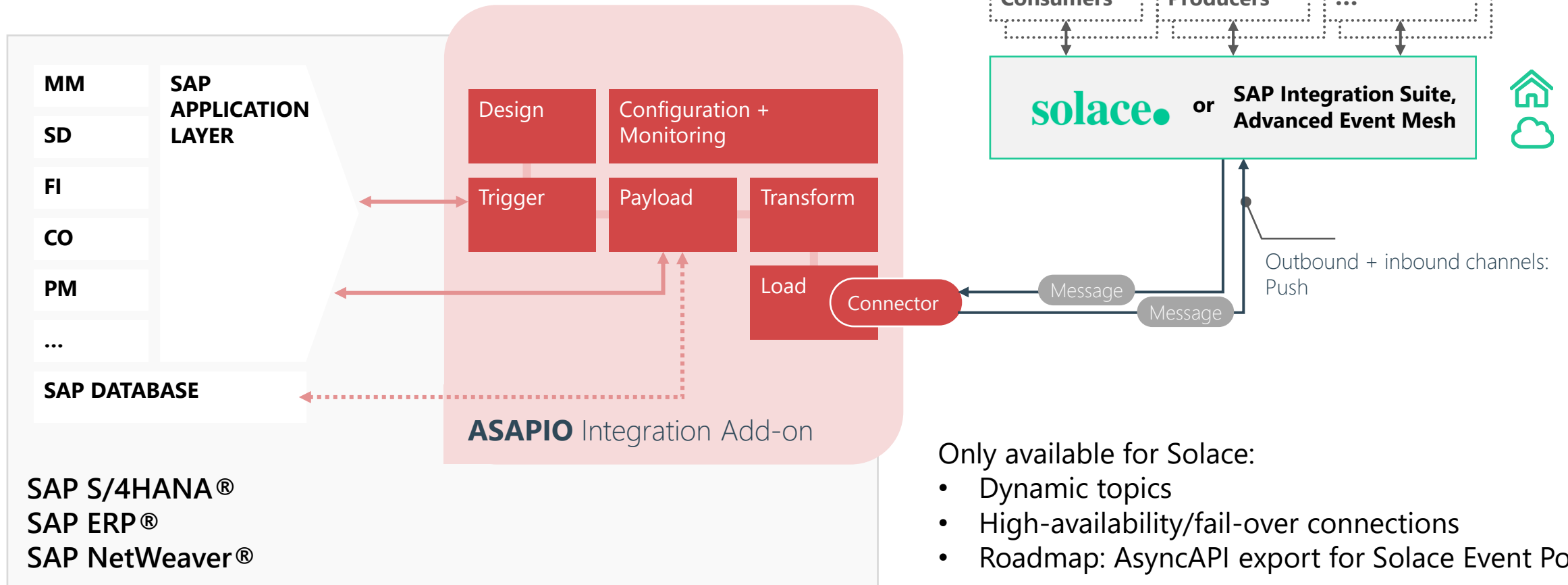


# ASAPIO connects SAP systems to Cloud

- ✓ For any SAP connectivity
- ✓ Low-code + no-code interfaces
- ✓ Real-time SAP application integration
- ✓ Mass data capable
- ✓ Outbound + inbound messaging
- ✓ Lightweight + fast
- ✓ Certified by SAP
- ✓ Proven: ASAPIO technology is part of two SAP standard products



# Architecture / How does it work?



Only available for Solace:

- Dynamic topics
- High-availability/fail-over connections
- Roadmap: AsyncAPI export for Solace Event Portal

# Available triggers for events



**ASAPIO supports a wide range of proven SAP standard concepts as trigger for an event.**

- ✔ SAP Business Object events ('BOR')
- ✔ SAP Business Transaction Events ('BTE')
- ✔ SAP Change Documents ('CDHDR'/'CDPOS')
- ✔ IDocs
- ✔ SAP Output Determination
- ✔ Custom-code triggers (ABAP)

# 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

- ✓ Pull or push data in
- ✓ Hand-over data to IDoc, BAPI, custom-code, etc.
- ✓ Supports JSON, CloudEvents, XML, custom formats

# Create code-less interfaces in just a few minutes

## Event Notifications

- ✔ Generated from SAP business events
- ✔ Format compatible **with** CloudEvents

## Message Builder

- ✔ Design message structure based on tables and fields
- ✔ Supports anyDB, HANA and CDS views

## IDoc capturing/JSON converter

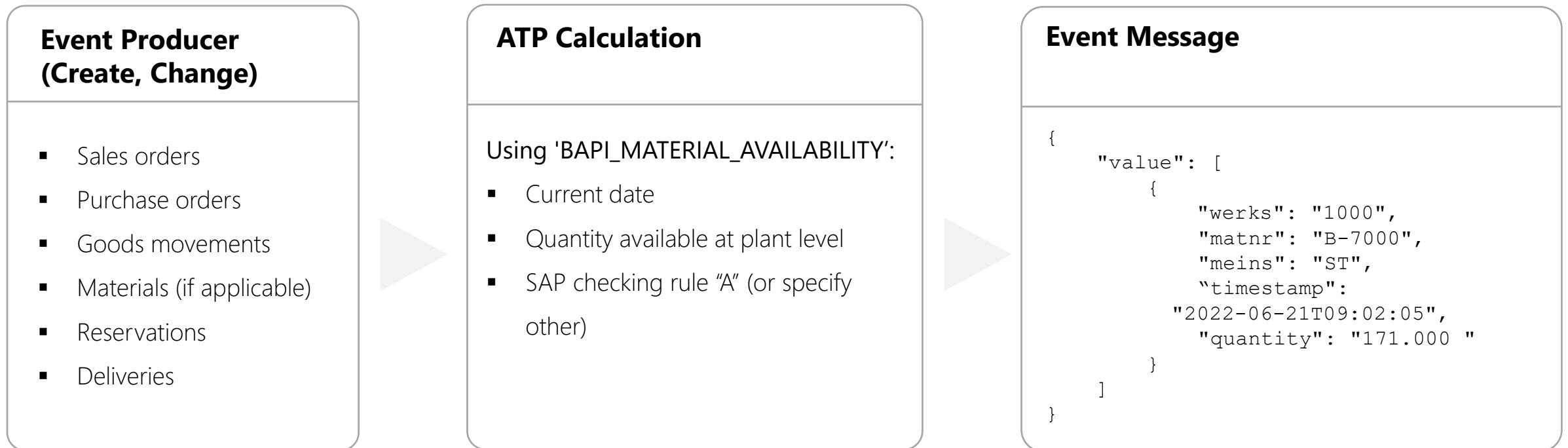
- ✔ Capture IDocs at creation time
- ✔ Converts to JSON-based messages and vice-versa

### Event Message

```
{
  "specversion": "1.0",
  "type": "asapio.aci.acievents01.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"
          }
        ]
      }
    ]
  }
}
```

# Real-time material stock (ATP) messaging

Use ASAPIO Integration Add-on to send out current ATP quantities of SAP materials, e. g. for external applications that require to display correct quantities.



# ASAPIO Payload Designer

- ✓ Code-less definition of data extractions
- ✓ Choose tables, fields and create joins
- ✓ Configuration only, no need for ABAP code or dictionary objects
- ✓ Easy drag and drop UI
- ✓ Built-in to ASAPIO Integration Add-on

The screenshot displays the ASAPIO Payload Designer interface for configuring a data extraction. 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 for navigation and editing. The interface is divided into several panes:

- Left Pane (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), 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), 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).
- Bottom Pane (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), MCOD1 (Search term for matchcode search), MCOD2 (Search term for matchcode search), MCOD3 (Search term for matchcode search), ANRED (Title), BAHNS (Train station), BBBNR (International location number (part 1)), BBSNR (International location number (Part 2)), BEGRU (Authorization Group), and BDCPV (Industry Key).
- Right Pane (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), INDLF (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), and UMREN (Denominator for Conversion of Order Unit to Base Unit).
- Far Right Pane (EKET : Sche...):** A table with columns "Technical Name" and "Long Text". Fields include EBELN, EBELP, ETENR, EINDT, SLFDT, LPEIN, MENGE, AMENG, WEMNG, WAMNG, UZEIT, BANFN, BNFPD, ESTKZ, QUNUM, QUPOS, MAHNZ, and BEDAT.
- Bottom Right Pane (EKKN : Acc...):** A table with columns "Technical Name" and "Long Text". Fields include EBELN, EBELP, ZEKKN, LOEKZ, AEDAT, KFLAG, MENGE, VPROZ, NETWR, SAKTO, GSBER, KOSTL, PROJN, VBELN, VBELP, VETEN, KZBRB, ANLN1, and ANLN2.

A "Left Outer Join" relationship is indicated between the EKKO and EKPO tables. A "Navigation" icon is located at the bottom right of the interface.



# 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.

# Contact

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# 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®, Google® Cloud,  
Confluent®/Apache Kafka® (both via Proxy),  
AWS®  
StreamSets®

## **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

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