



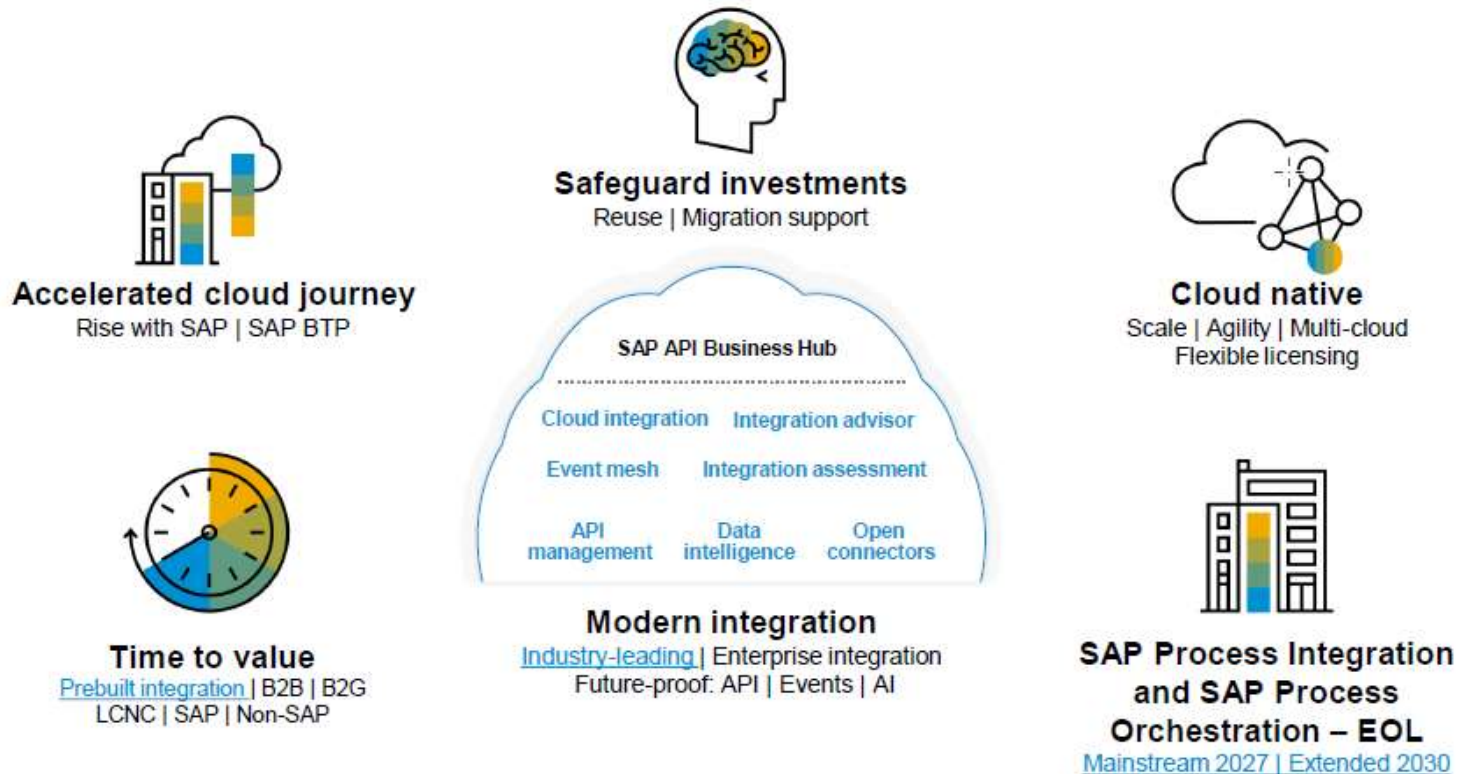
# BTP Stammtisch

SAP PI/PO – CI Strategy

B2B Szenario



# Why move from SAP Process Integration and SAP Process Orchestration to SAP Integration Suite?





## SAP Integration - Where do we stand now?

The mainstream maintenance of SAP NetWeaver release 7.5 has been prolonged to 2027 with option for extended maintenance until 2030.

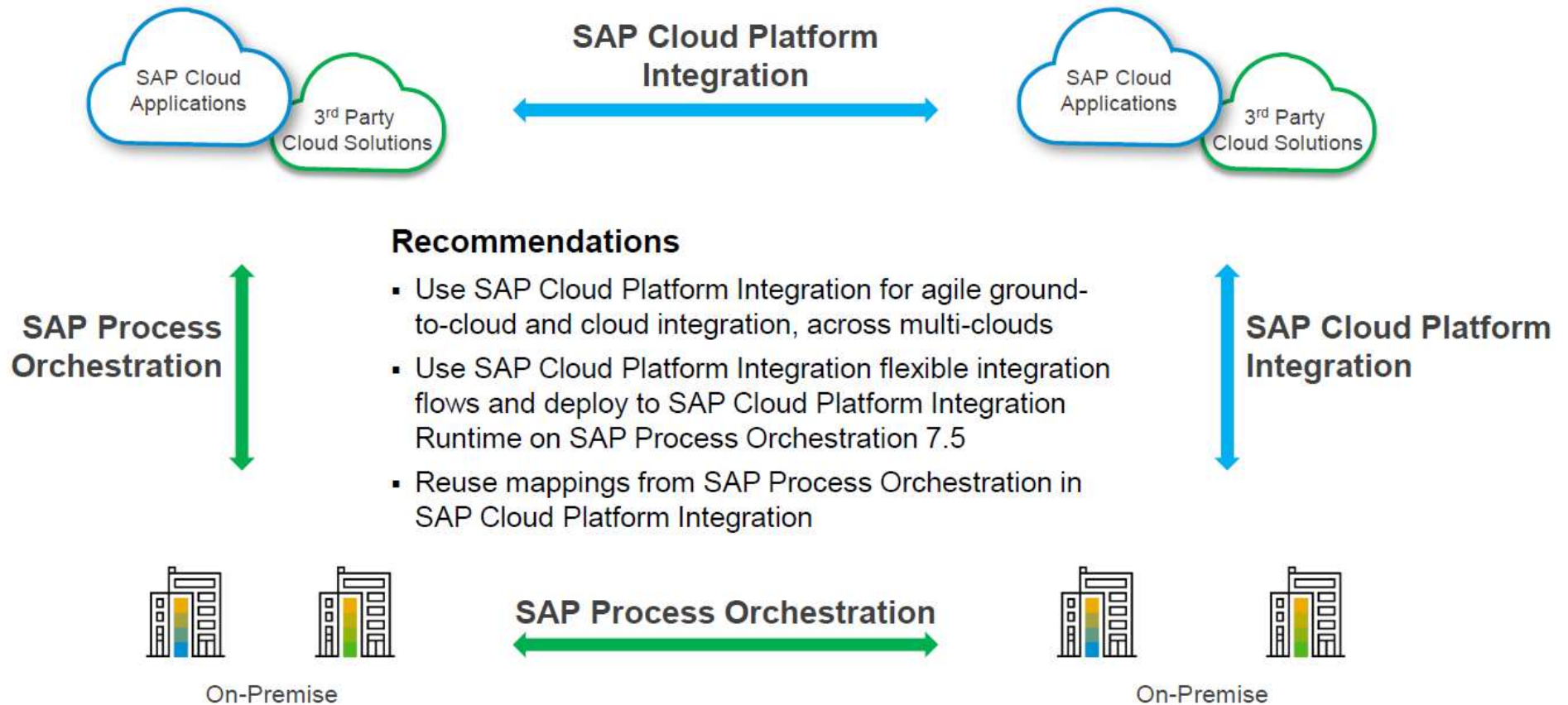
SAP Cloud Platform Integration Suite and SAP Process Orchestration building a complementary solution offering:

- Use SAP Process Orchestration (PI/PO) for **ground-to-ground** integration scenarios.
- Use SAP Cloud Platform Integration Suite for **ground-to-cloud** and **cloud-to-cloud**.

Integration platforms are becoming more and more strategic for enterprises coping with an increasingly heterogenous and hybrid IT landscapes.

- With the rise of cloud and platform thinking, organizations must take a holistic and strategic approach to their enterprise integration initiatives.

# SAP Integration - Where do we stand now?

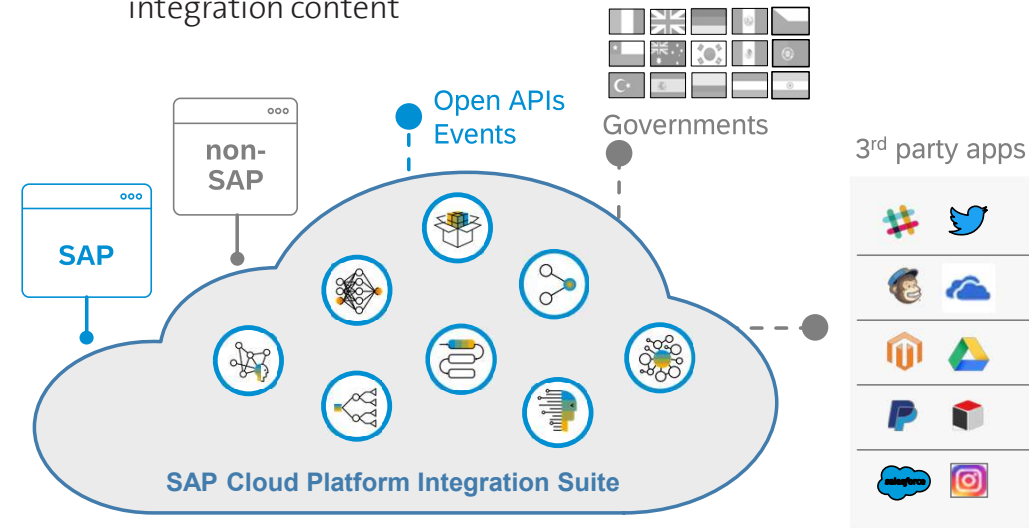


# Roadmap

SAP Cloud Platform Integration Suite with multi-cloud and hybrid deployment is the hybrid integration platform of choice for SAP customers

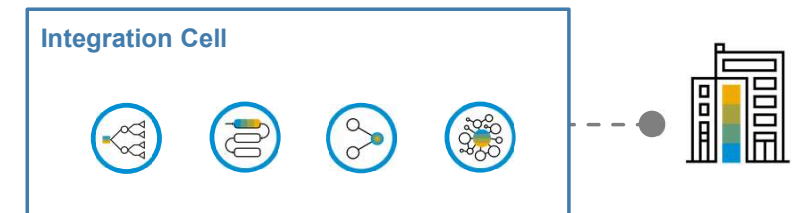
- Existing SAP Process Orchestration Investments are secure and supported until 2030
- Customers can leverage the Integration Suite in the public cloud of their choice
- For ground-to-ground scenarios, SAP plans to provide a more lightweight runtime, the so-called Integration Cell
  - Design, configuration and monitoring will be on the cloud
  - The runtime will leverage container technology such as Docker
  - The runtime can hold any Integration Suite services or engines
  - The software lifecycle of the Integration Cell shall be in sync with the cloud delivery speed
- Tools will be provided for a seamless migration from SAP Process Orchestration to the hybrid integration platform

Common cloud-based design time on the **Integration Suite** for modeling integration content



**Cloud**

**On-premise**



Integration Suite services and runtimes in a **containerized** environment



## Recommended action #1: Migrate to SAP NetWeaver 7.5

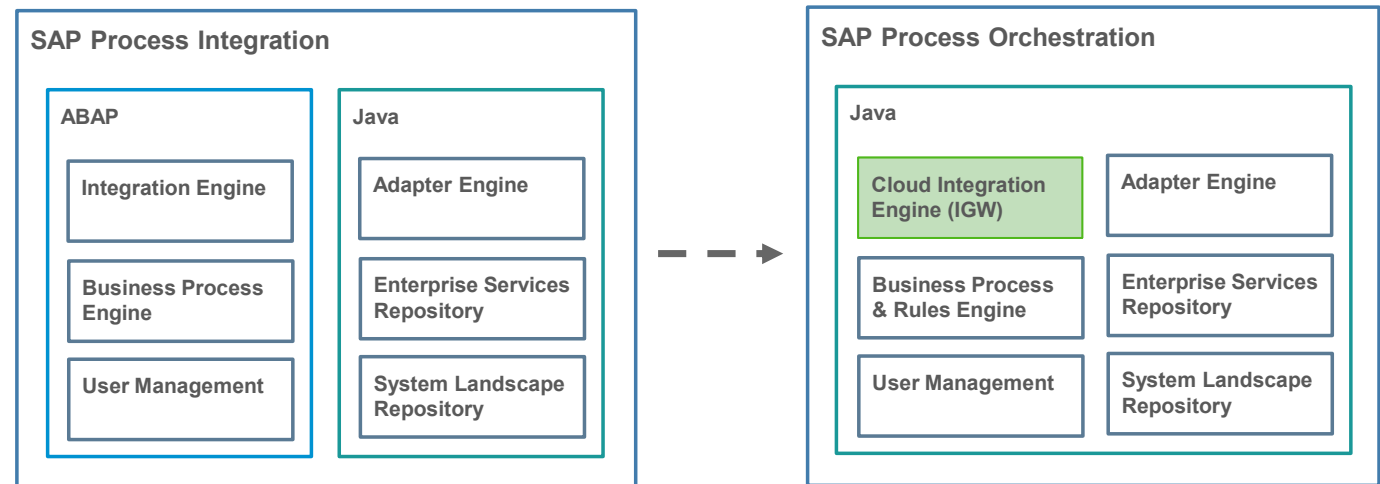
Recommended to migrate from existing dual-stack SAP Process Integration to Java-based single-stack architecture

- Lower TCO
- Better performance
- Higher functional scope

Though: Dual usage type supported in 7.5

Check out the following references:

- [Extended Maintenance of release 7.5](#)
- [Upgrade & migration options](#)
- [Migrating directory content](#)
- [Run automated integration scenario tests](#)







## Recommended action #2: Future-proof your strategy

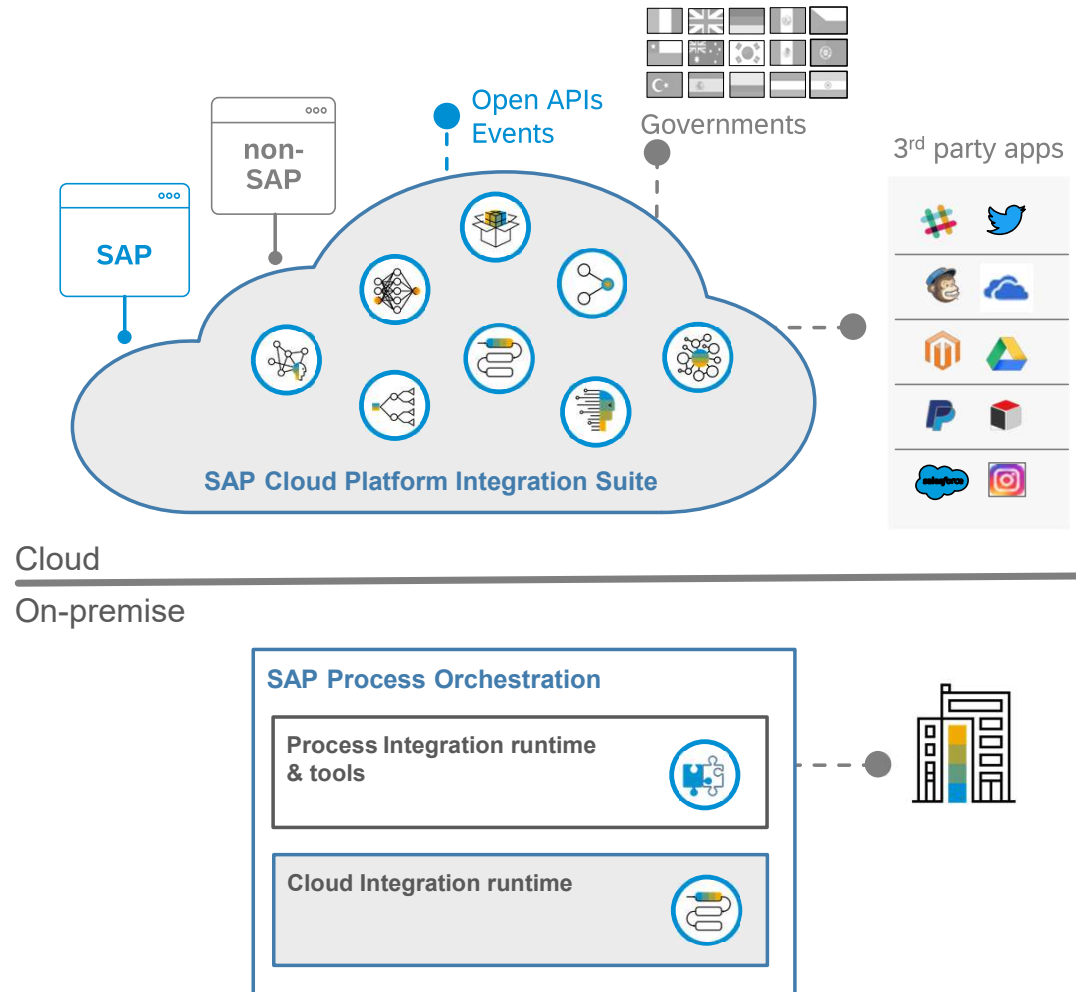
### Build new agile integrations with SAP's Integration Suite

Use SAP Cloud Platform Integration Suite for cloud and hybrid process integration needs (A2A, B2B, B2G), data integration, API-based integrations as well as event-driven, extensible integrations.

Leverage the set of SAP adapters and open connectors to 3<sup>rd</sup> party supporting non-SAP to non-SAP integration scenarios.

Leverage pre-built integration packs from SAP and partners accessible from [SAP API Business Hub](#) to accelerate your integration implementation projects.

Leverage the rich design-time tools of the Integration Suite and the [cloud integration runtime inside SAP Process Orchestration](#) for new ground-to-ground integration scenarios.





## Recommended action #3:

### Move existing integration scenarios to the Integration Suite

When already migrating from SAP Process Integration dual-stack to SAP Process Orchestration, consider the following best practices:

- Move all cloud-to-cloud and ground-to-cloud integration scenarios by default to the Integration Suite
- Move your pass-through integration scenarios to API Management within the Integration Suite applying security policies, traffic policies and access controls to your APIs.
- Leverage the flexible design time and runtime of the Integration Suite to migrate your integration-centric scenarios modelled with ccBPM (cross component BPM) in SAP Process Integration dual-stack to the cloud integration runtime inside SAP Process Orchestration

#### Guidelines:

- [Reuse existing interfaces and mappings](#) from SAP Process Integration / SAP Process Orchestration
- Check out [integration flow guidelines and patterns](#) explaining how to design and build enterprise grade integration flows in a robust fashion and describing how to implement commonly used enterprise integration patterns, e.g., content-based routing, content enricher, splitter, aggregator, scatter-gather, etc.



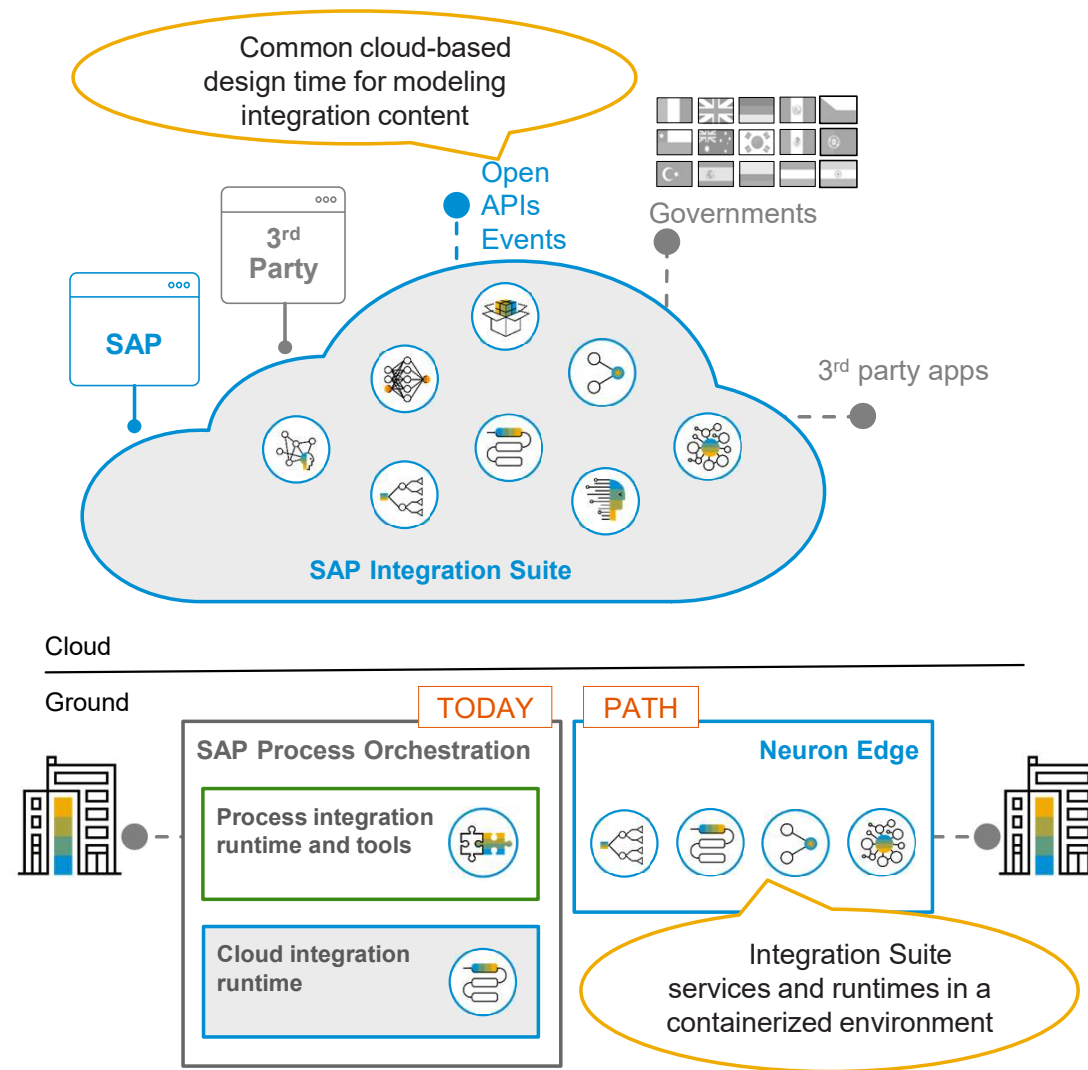


## The path ahead:

### Hybrid integration platform

#### SAP Integration Suite: The hybrid integration platform of choice for SAP customers

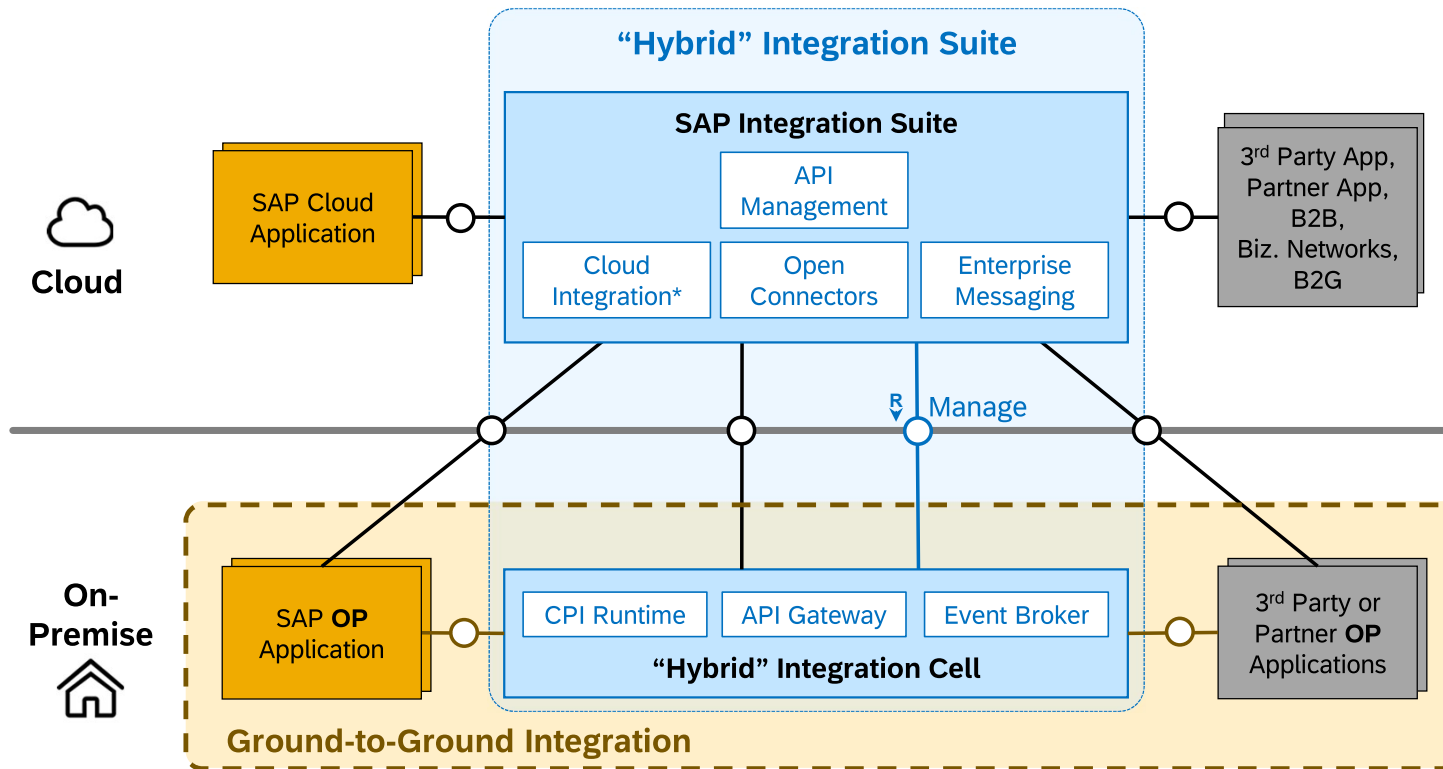
- Multi-cloud and hybrid deployment flexibility
- Lightweight runtime (Neuron Edge) planned
  - Design, configuration, and monitoring on the cloud
  - Runtime leveraging container technology such as Docker, Kubernetes
  - Runtime holding any Integration Suite services or engines
  - Software lifecycle in sync with cloud delivery speed
- Tools provided for seamless migration from SAP Process Orchestration to the new hybrid integration platform





# SAP Integration Suite

## Hybrid deployment option road map



**"Hybrid" Integration Cell** is a containerized integration runtime

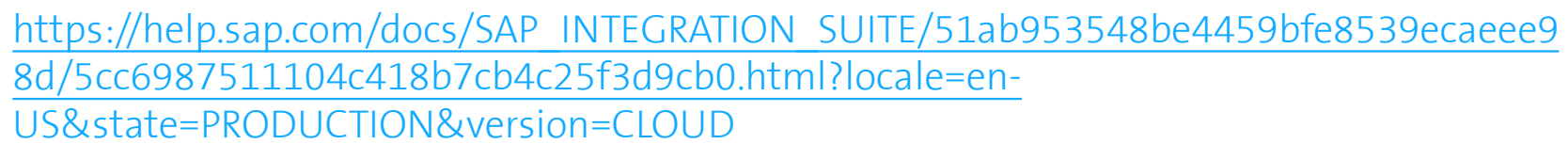
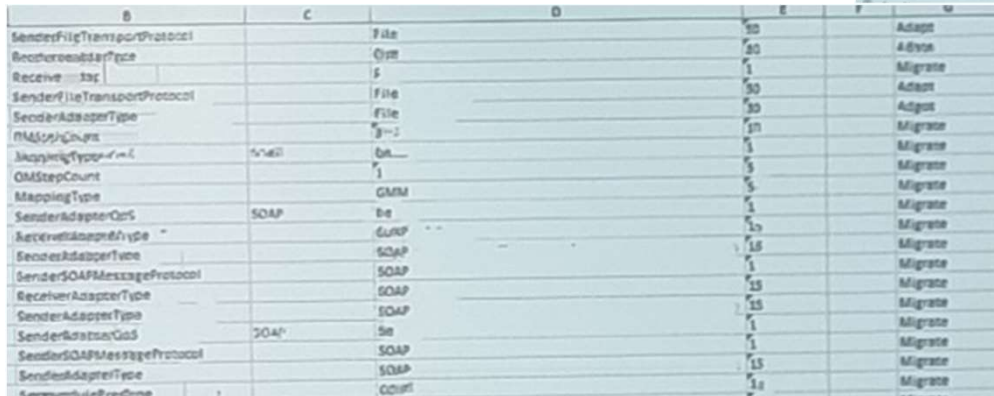
- Low footprint, high performance, pervasive
- Supports modern event and API-based, high throughput integrations

**Flexible deployment** in customer environments

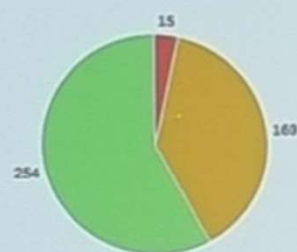
Design-time and operations **in the Cloud**

Enables **ground-to-ground integration** without going through Cloud

Migration path **for on-premise SAP PI/PO customers**



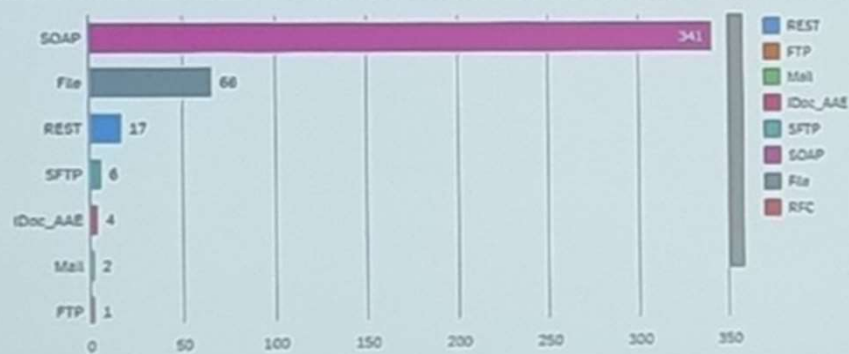
Scenarios by Migration Status



Scenarios by Effort Estimation



Sender Adapters



Receiver Adapters





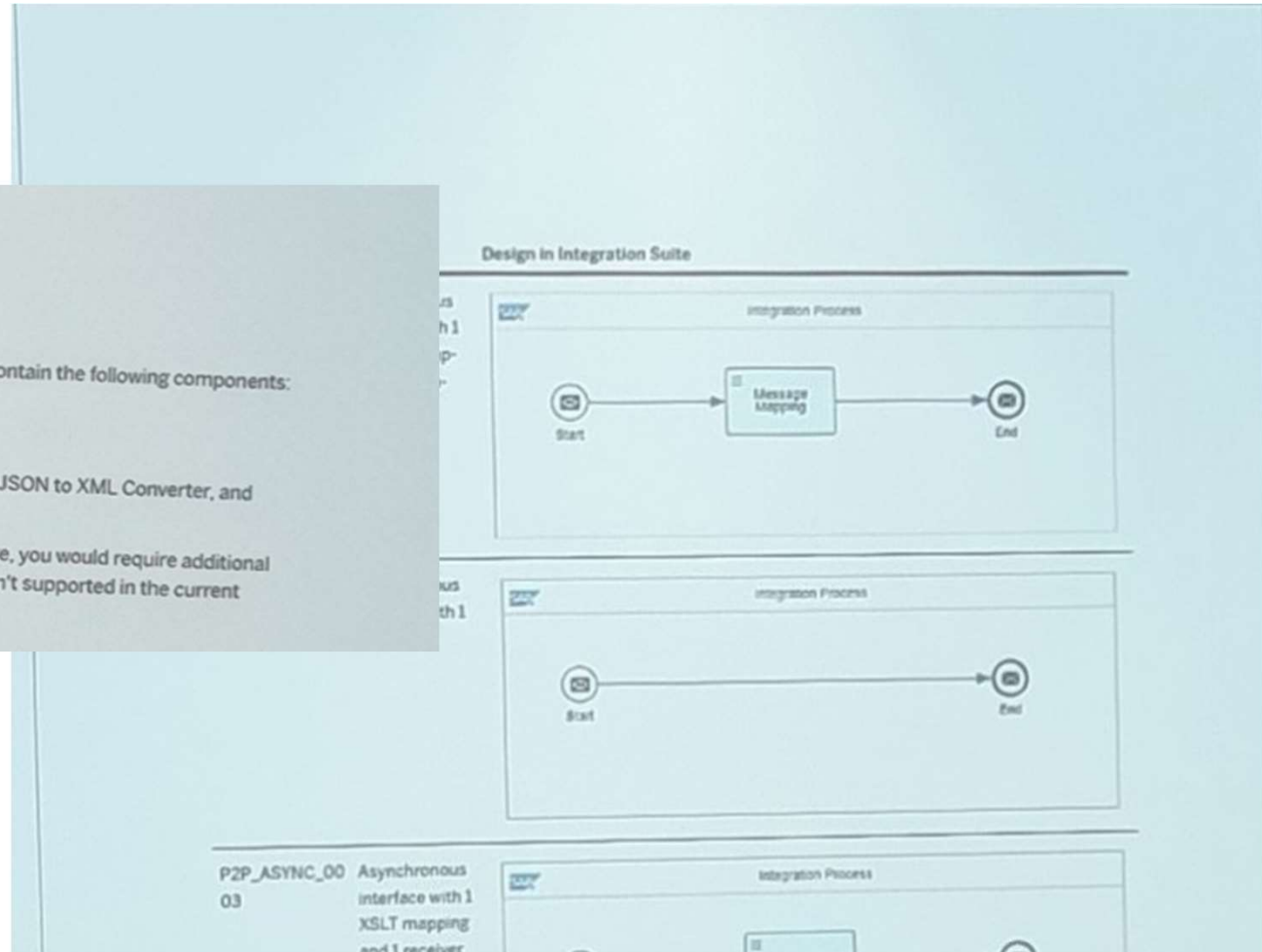
## 2.1.1 Supported Components

Find out the components that are currently supported for migration.

In the current scope, migration tooling supports the migration of ICOs that contain the following components:

- **Communication Channel:** HTTP, REST, SOAP, IDOC, FTP, and SFTP
- **Events:** Timer
- **Flow Steps:** XSLT Mapping, Message Mapping, XML to JSON Converter, JSON to XML Converter, and Router

If your ICOs contain channels, events, or flow steps that aren't mentioned here, you would require additional effort for the migration. Hence, the migration of such integration scenarios isn't supported in the current scope.

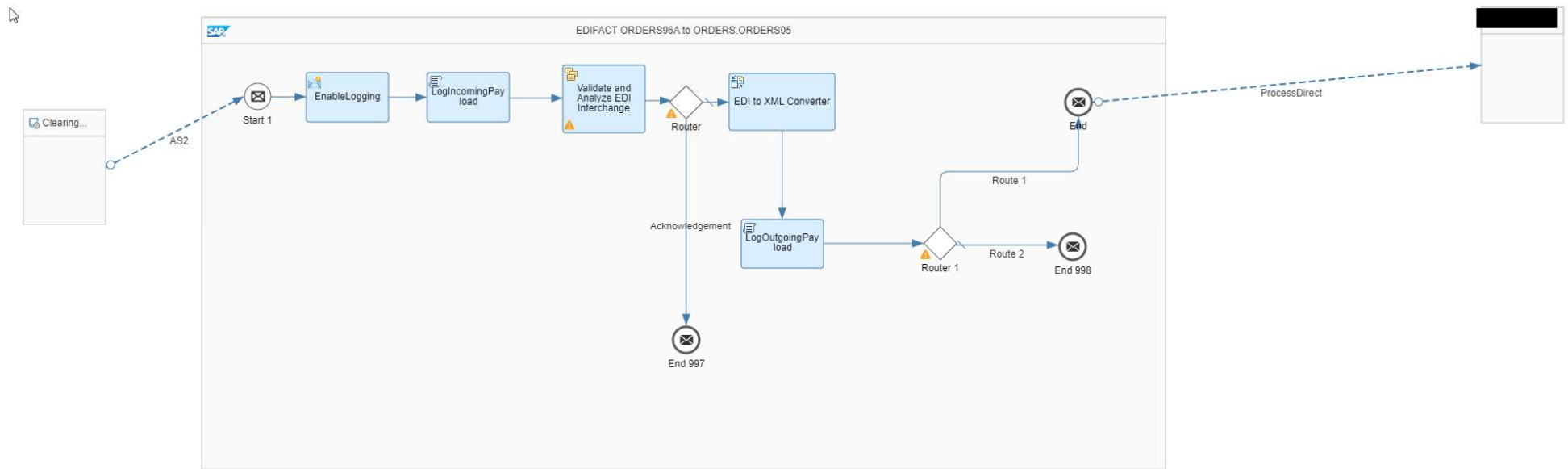




- Complete Configuration Values
- Setup Connections (might be different URLs, Cloud Connector, SFTP Servers)
- XI Protocol
- UDF UserDefined Functions
- File Adapter (->SFTP)
- User Credentials
- Monitoring



# Cloud Integration - Edifact to IDoc IFlow







# Cloud Integration – EDI Splitter

**EDI Splitter**

General Processing **EDIFACT** X12

Source Encoding: UTF-8

Validate Message: ☒

Validate: Envelop And Message

Transaction Mode: Interchange

EDI Schema Definition: Integration Flow

Schemas:

Schema Name
/xsd/UN-EDIFACT_ORDERS_D96A.xsd

Create Acknowledgement: Required

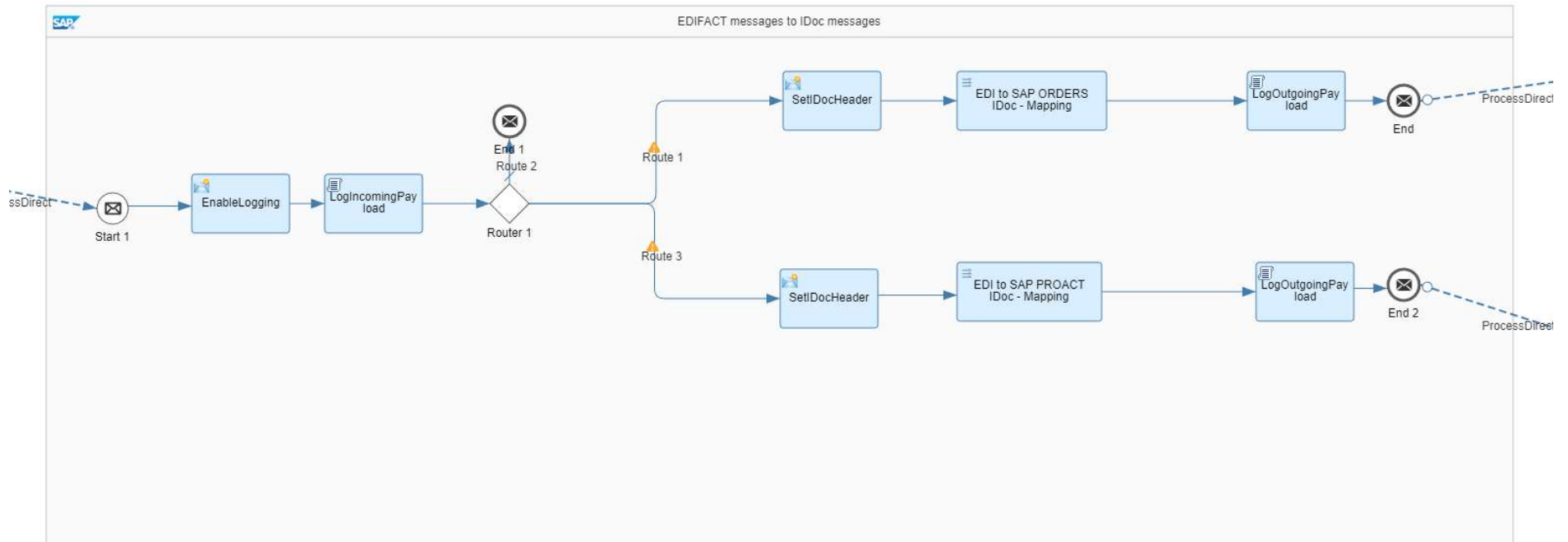
Interchange Number: Use From EDI Message

CONTRL Message Version: Use From EDI Message

Include UNA Segment: ☒



# Cloud Integration – Edifact to IDoc IFlow





# Cloud Integration - IDoc Header

**Content Modifier**

General   Message Header   Exchange Property   Message Body

Properties:

Action	Name	Source Type	Source Value
Create	IDoc_SNDPDR	Constant	BTP_CPL_I
Create	IDoc_SNDPRT	Constant	KU
Create	IDoc_SNDPFC	Constant	AG
Create	IDoc_SNDPRN	Constant	1
Create	IDoc_RCVPOR	Constant	<Define Value>
Create	IDoc_RCVPRT	Constant	LS
Create	IDoc_RCVPFC	Constant	<Define Value>
Create	IDoc_RCVPRN	Constant	
Create	IDoc_MESCOD	Constant	EDI
Create	IDoc_MESFCT	Constant	852



## Cloud Integration – IDoc Header

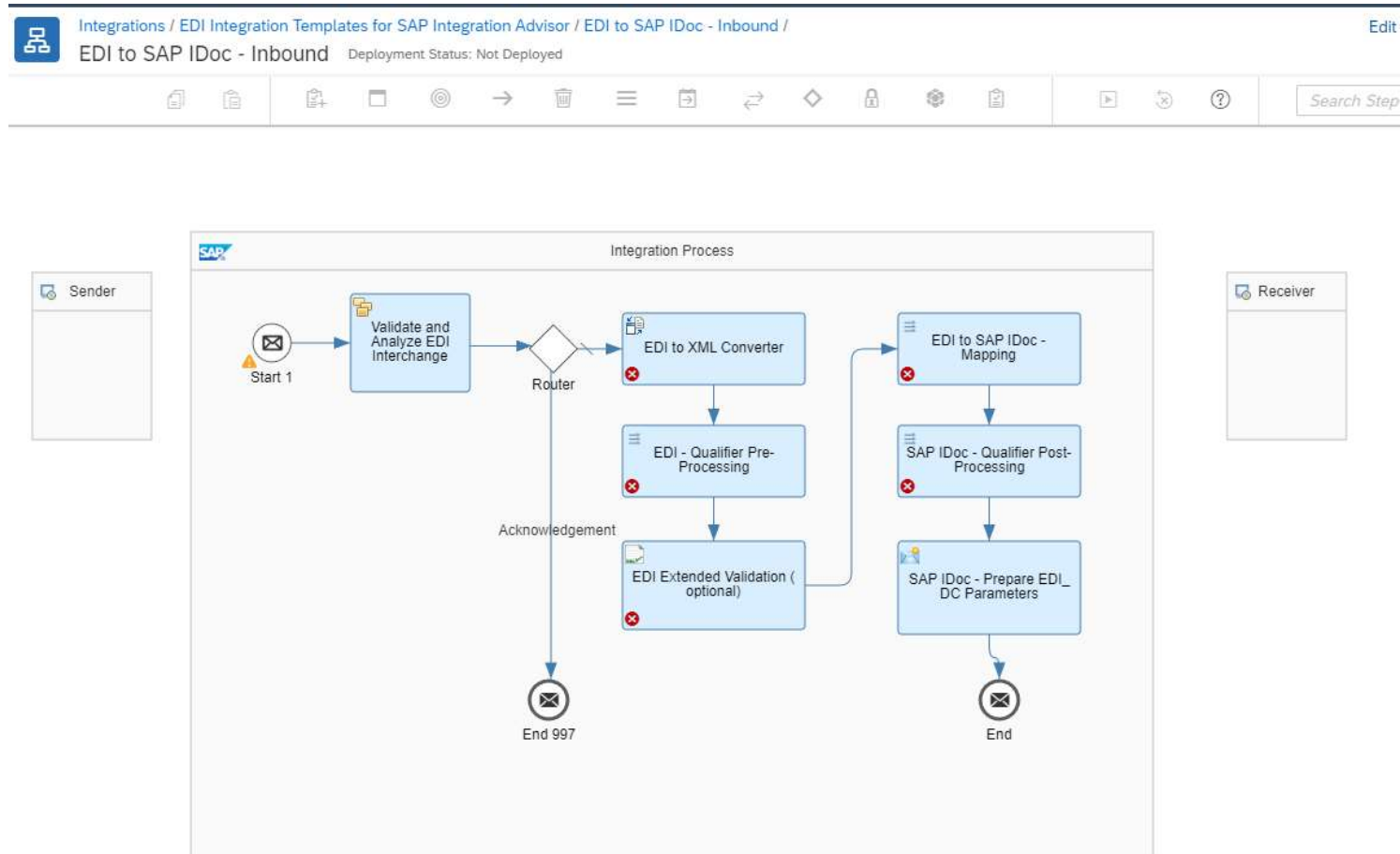
```
-->
<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform" version="2.0"
  xmlns:xd="http://www.oxygenxml.com/ns/doc/xsl" exclude-result-prefixes="#all">

  <!-- NOTE: Define encoding of output -->
  <xsl:output encoding="UTF-8" method="xml" indent="yes"/>

  <!-- SAP CI Queue Parameters -->
  <xsl:param name="IDoc_SNDPDR"/>
  <xsl:param name="IDoc_SNDPRT"/>
  <xsl:param name="IDoc_SNDPFC"/>
  <xsl:param name="IDoc_SNDPRN"/>
  <xsl:param name="IDoc_RCVPOR"/>
  <xsl:param name="IDoc_RCVPRN"/>
  <xsl:param name="IDoc_RCVPRN"/>
  <xsl:param name="IDoc_RCVPRN"/>
  <xsl:param name="IDoc_MESCOD"/>
  <xsl:param name="IDoc_MESFCT"/>

  <xsl:template match="/">
    <xsl:element name="ORDERS05">
```

# Cloud Integration – EDI Integration Template



# Cloud Integration - Integration Advisor

SAP Integration Suite

Mapping Guidelines /  
Mapping Out\_EDIFACT\_ORDERS96A to In\_IDOC\_ORDERS05  
Version: 1.0

Overview Mapping Global Parameters (0) Shared Code (0) Notes (0)

Source: Out\_EDIFACT\_ORDERS96A

Structure	Name	Cardinality
ORDERS	Purchase order message	1.1
UNH	MESSAGE HEADER	1.1
BGM	BEGINNING OF MESSAGE	1.1
DTM	DATE/TIME/PERIOD	1.35
FTX	FREE TEXT	0.5
SG1	Segment Group 1: RFF-DTM	0.10
SG2	Segment Group 2: NAD-LOC-FII-SG3-SG4-SG5	0.20
SG7	Segment Group 7: CUX-PCD-DTM	0.5
SG8	Segment Group 8: PAT-DTM-PCD-MOA	0.10
SG11	Segment Group 11: TOD-LOC	0.5
SG25	Segment Group 25: LIN-PIA-IMD-MEA-QTY-P...	0.200000
UNS	SECTION CONTROL	1.1
CNT	CONTROL TOTAL	0.10

Search

Structure	Name	Cardinality	Status
ORDERS05	Purchasing/Sales	1.1	
EDI_DC40	IDoc control record for the interfa...	1.1	
E1EDK01	IDoc: Document header general ...	1.1	
E1EDK14	IDoc: Document Header Organiza...	0.12	
E1EDK03	IDoc: Document header date seg...	0.10	
E1EDK04	IDoc: Document header taxes	0.10	
E1EDK05	IDoc: Document header conditions	0.16	
E1EDKA1	Segment Group - IDoc: Documen...	0.99	
E1EDK02	IDoc: Document header referenc...	0.10	
E1EDK17	IDoc: Document Header Terms of...	0.6	
E1EDK18	IDoc: Document Header Terms of...	0.3	
E1EDK35	IDoc: Document Header Addition...	0.99999	
E1EDK36	IDOC: Doc.header payment cards	0.99	

Save Simulate Proposal Cancel

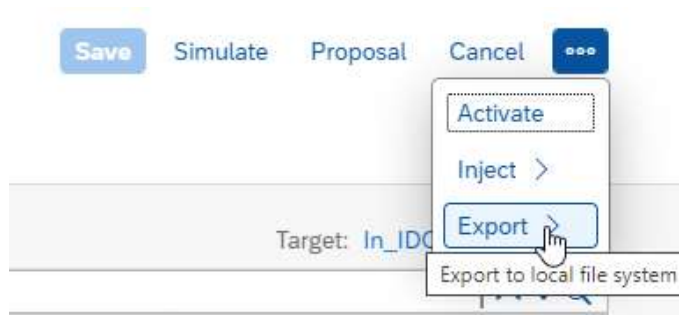
Get Proposal  
Clear Proposal  
Select Best Proposal  
Select the best proposal for each target M

Mapping List

Confidence	Source	Source Node Name	Cardinality	Mapping	Condition	Documentation	Shared Code	Target	Target Node Name	Cardinality
<input checked="" type="checkbox"/>	Constant: SAPDMO	Constant Value	1.1	<input checked="" type="checkbox"/>	<input type="checkbox"/>			/ORDERS05/EDI_DC40/RCVPOI	Receiver port	1.1
<input checked="" type="checkbox"/>	/ORDERS	Purchase order message	1.1	<input checked="" type="checkbox"/>	<input type="checkbox"/>			/ORDERS05	Purchasing/Sales	1.1
<input checked="" type="checkbox"/>	/ORDERS/UNH	MESSAGE HEADER	1.1	<input checked="" type="checkbox"/>	<input type="checkbox"/>			/ORDERS05/EDI_DC40	IDoc control record for the interf	1.1
<input checked="" type="checkbox"/>	/ORDERS/UNH/S009/0065	Message type identifier	1.1	<input checked="" type="checkbox"/>	<input type="checkbox"/>			/ORDERS05/EDI_DC40/MESTYI	Message type	1.1
<input checked="" type="checkbox"/>	/ORDERS/BGM	BEGINNING OF MESSAGE	1.1	<input checked="" type="checkbox"/>	<input type="checkbox"/>			/ORDERS05/E1EDK01	IDoc: Document header general	1.1
<input checked="" type="checkbox"/>	/ORDERS/UNT/0062	Message reference number	1.1	<input checked="" type="checkbox"/>	<input type="checkbox"/>			/ORDERS05/E1EDK01	IDoc: Document header general	1.1
<input checked="" type="checkbox"/>	/ORDERS/DTM	DATE/TIME/PERIOD	1.35	<input checked="" type="checkbox"/>	<input type="checkbox"/>			/ORDERS05/E1EDK03	IDoc: Document header date se	0.10
<input checked="" type="checkbox"/>	/ORDERS/SG2	Segment Group 2: NAD-LOC-FII	0.20	<input checked="" type="checkbox"/>	<input type="checkbox"/>			/ORDERS05/E1EDKA1	Segment Group - IDoc: Docume	0.99
<input checked="" type="checkbox"/>	/ORDERS/SG2/NAD	NAME AND ADDRESS	1.1	<input checked="" type="checkbox"/>	<input type="checkbox"/>			/ORDERS05/E1EDKA1/E1EDKA1	IDoc: Document Header Partner	1.1
<input checked="" type="checkbox"/>	/ORDERS/FTX	FREE TEXT	0.5	<input checked="" type="checkbox"/>	<input type="checkbox"/>			/ORDERS05/E1EDKT1/E1EDKT1	IDoc: Document Header Text Id	1.1
<input checked="" type="checkbox"/>	/ORDERS/SG25	Segment Group 25: LIN-PIA-IMD	0.200000	<input checked="" type="checkbox"/>	<input type="checkbox"/>			/ORDERS05/E1EDP01	Segment Group - IDoc: Docume	0.99999
<input checked="" type="checkbox"/>	/ORDERS/SG25/LIN	LINE ITEM	1.1	<input checked="" type="checkbox"/>	<input type="checkbox"/>			/ORDERS05/E1EDP01/E1EDP01	IDoc: Document Item General D	1.1



## Cloud Integration - Integration Advisor







# Cloud Integration – Integration Advisor

Name	Typ	Komprimierte Größe	Kennwort
zz_BG_IDOC_ORDERS05	Dateiordner		
zz_BG_PartnerID_EDIFACT_ORDER...	Dateiordner		
Mapping_zz_BG_PartnerID_EDIFAC...	XSLT Stylesheet	13 KB	Nein

Name	Typ
UN-EDIFACT_ORDERS_D96A.xsd	XML Schema
zz_BG_PartnerID_EDIFACT_ORDERS_D96A_postproc.xsl	XSLT Stylesheet
zz_BG_PartnerID_EDIFACT_ORDERS_D96A_preproc.xsl	XSLT Stylesheet
zz_BG_PartnerID_EDIFACT_ORDERS_D96A_RD.xsd	XML Schema
zz_BG_PartnerID_EDIFACT_ORDERS_D96A_testdata_CPI.xml	XML Document
zz_BG_PartnerID_EDIFACT_ORDERS_D96A_testdata_ICA.xml	XML Document



# Cloud Integration - Payload logging

Status **Properties** Logs Attachments Artifact Details

## Properties

Message ID: AGPRVP4ziZhrF3Olsg7G9bwKCz0d  
Correlation ID: AGPRVP6SRBvyLyDVrcjMurokOZTC

## Logs

[Open Text View](#)

### Runs (2)

#	Started At	Duration	Log Level	Instance ID	Status
2	Jan 25, 2023, 17:12:48	1 sec 888 ms	Info	0	Completed
1	Jan 25, 2023, 17:12:46	1 sec 206 ms	Info	1	Processing

## Attachments

Name	Type	Modified At	Size	Actions
<a href="#">Incoming Payload</a>	application/xml	Jan 25, 2023, 17:12:48	2 KB	<a href="#">↓</a>
<a href="#">MDN Attachment</a>	text/xml	Jan 25, 2023, 17:12:47	6 KB	<a href="#">↓</a>
<a href="#">Outgoing Payload</a>	application/xml	Jan 25, 2023, 17:12:48	11 KB	<a href="#">↓</a>



# Cloud Integration - Payload logging

Log Incoming Payload MDN Attachment Outgoing Payload

```
<?xml version="1.0" encoding="UTF-8"?>
<ns0:Interchange xmlns:ns0="urn:sap.com:typesystem:b2b:6:un-edifact">
  <S_UNA>:+.? ' </S_UNA>
  <S_UNB>
    <C_S001>
      <D_0001>UNOC</D_0001>
      <D_0002>3</D_0002>
    </C_S001>
    <C_S002>
      <D_0003>[REDACTED] /D_0004>
      <D_0007>14</D_0007>
    </C_S002>
    <C_S003>
      <D_0010>[REDACTED] D_0010>
      <D_0007>14</D_0007>
    </C_S003>
    <C_S004>
      <D_0017>221005</D_0017>
      <D_0019>0639</D_0019>
    </C_S004>
    <D_0020>15816</D_0020>
    <D_0026>ORDERS96A009R1</D_0026>
    <D_0032>EANCOM76108080044647612297000248502</D_0032>
  </S_UNB>
  <M_ORDERS>
    <S_UNH>
      <D_0062>1</D_0062>
      <C_S009>
        <D_0065>ORDERS</D_0065>
        <D_0052>D</D_0052>
        <D_0054>96A</D_0054>
        <D_0051>UN</D_0051>
        <D_0057>EAN009</D_0057>
      </C_S009>
    </S_UNH>
    <S_BGM>
      <C_C002>
        <D_1001>220</D_1001>
        <D_3055>9</D_3055>
      </C_C002>
      <D_1004>7142558825</D_1004>
      <D_1225>9</D_1225>
    </S_BGM>
    <S_DTM>
      <C_C507>
        <D_1001>220</D_1001>
        <D_3055>9</D_3055>
      </C_C507>
    </S_DTM>
  </M_ORDERS>
</ns0:Interchange>
```



## Cloud Integration - Payload logging

Log Incoming Payload Outgoing Payload

```
<?xml version="1.0" encoding="UTF-8"?>
<ORDERS05>
  <IDOC BEGIN="1">
    <EDI_DC40 SEGMENT="1">
      <TABNAM>EDI_DC40</TABNAM>
      <DOCREL>3x4</DOCREL>
      <DIRECT>1</DIRECT>
      <IDOC TYP>PROACT01</IDOC TYP>
      <CIMTYP/>
      <MESTYP>PROACT</MESTYP>
      <MESCOD>EDI</MESCOD>
      <MESFCT>852</MESFCT>
      <STDMES/>
      <SNDPOR>BTP_CPI_I</SNDPOR>
      <SNDPRT>KU</SNDPRT>
      <SNDPFC>AG</SNDPFC>
      <SNDP RN>1</SNDP RN>
      <RCVPOR/>
      <RCVPRT>LS</RCVPRT>
      <RCVPFC/>
      <RCVPRN>[REDACTED]/RCVPRN>
      <CREDAT>20230125</CREDAT>
      <CRETIM>1612</CRETIM>
    </EDI_DC40>
    <E1EDK01 SEGMENT="1">
      <ACTION>004</ACTION>
      <CURCY>CHF</CURCY>
      <BELNR>7142558825</BELNR>
    </E1EDK01>
  </IDOC BEGIN="1">

```



## Cloud Integration - AS2

**AS2**

General Connection Processing **Security** MDN Delivery Assurance Conditions

MESSAGE DECRYPTION

Decryption Configuration Type: Channel Configuration

Decrypt Message: ☒

Private Key Alias: sap\_cloudintegrationcertificate

SIGNATURE VERIFICATION

Verify Signature: Trusted Certificate

Public Key Alias: mendelsonstest



# Cloud Integration - AS2

Key Pair

Sep 29, 2023, 01:59:59

sap\_cloudintegrationcertificate

General Connection Processing Security **MDN** Delivery Assurance Conditions

RESPONSE MDN

Private Key Alias for Signature: sap\_cloudintegrationcertificate

Signature Encoding: binary

Propagate MDN Details to Exchange: Not Required

ASYNCHRONOUS MDN CONNECTION SETTINGS

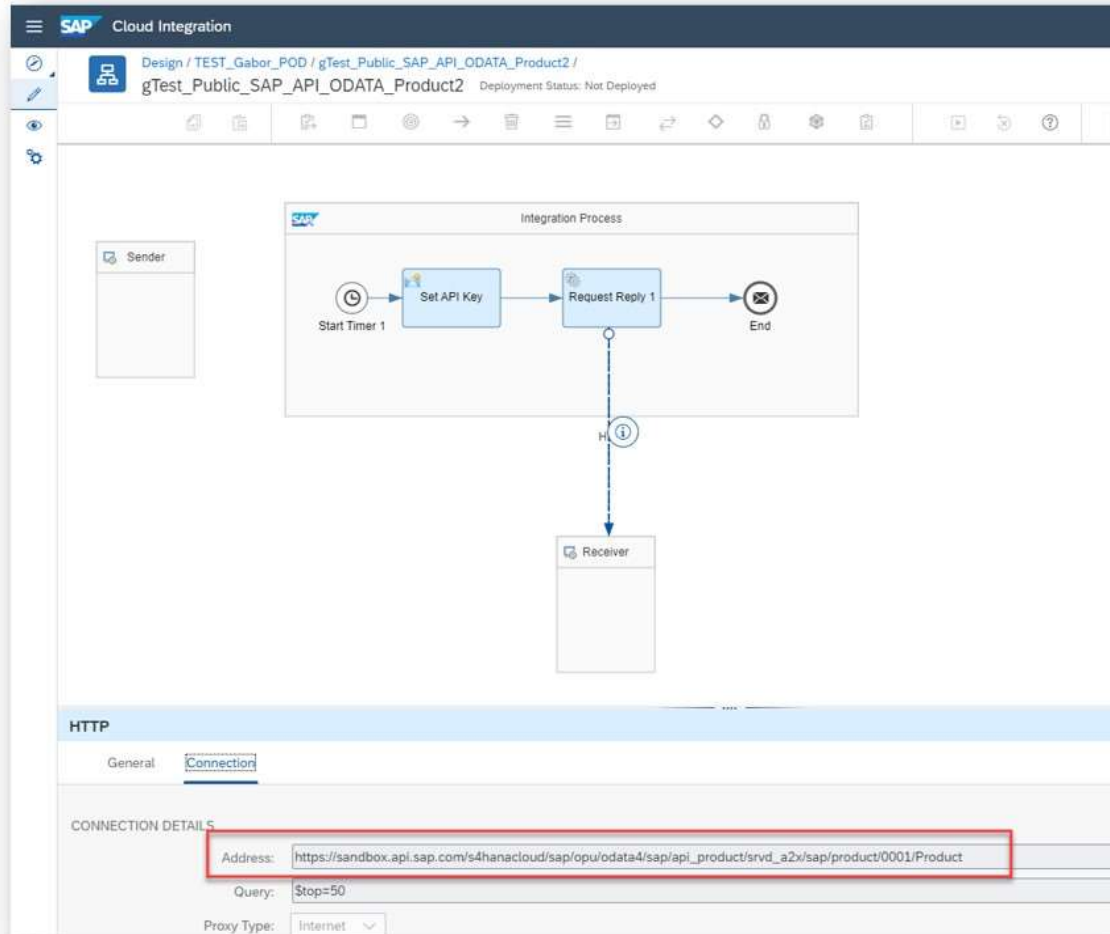
Proxy Type: Internet

Authentication: None

Timeout (in ms): 300000



# Cloud Integration – Szenario onPrem






# Cloud Integration – Szenario onPrem


Browser address bar: <https://podemo.dcs.sap-cc.com:50001/dir/start/index.jsp>


Navigation bar: **SAP NetWeaver™ Process Integration 7.50**


Menu: [Tools](#) | [Administration](#) | [Client Installation Guidelines](#) | [Documentation](#)

**POD: Process Integration Tools**

**Enterprise Services Repository**  
Enterprise Services Builder | Web UI  
Services Registry

**Integration Directory**  
Integration Builder  
Cloud Integration Content

**System Landscape**  
System Landscape Directory



**Configuration and Monitoring**  
Configuration and Monitoring Home  
SAP NetWeaver Administrator

[Additional Information](#)

**SAP** Cloud Integration Content Management Cockpit Welcome Gabor Szigeti (TAASZGA5) [Message Monitor](#) [Alert Configuration](#)

[INTEGRATION CONTENT](#) [SECURITY MATERIAL](#) [END POINTS](#) [LOCKS](#) [NUMBER RANGES](#) [JMS](#)

**Manage Integration Content**

Deploy Undeploy Start Stop Restart Download Refresh Select Layout   

<input type="checkbox"/>	Name	Status	Type	Vendor	Deployed By	Deployed On
<input type="checkbox"/>	▼ Default					
<input type="checkbox"/>	gTest_Public_SAP_API_O DATA_Product2	Started	Integration Flow	content.sap.com	TAASZGA5	Jan 13, 2023, 15:20:18



# Cloud Integration – Szenario onPrem

**Message-Monitor: Messages überwachen** Standardsicht wiederherstellen | Zurück Weiter | Historie | Home

Favoriten | Verwandte Themen | Wechseln zu | Support-Details Suche:

Message-Status-Übersicht | PI-Messages | PI-Messages-Archiv | **Cloud Integration Content**

**Suchen**

In Datenquelle suchen: Datenbank Maximale Anzahl von E

Suche über: ☒ Uhrzeit ☐ Message GUID ☐ Korrelations-ID ☐ Anwendungs-ID

Zeitraum: Heute Statusgruppe: Alle Status: Alle Integration-Flow: gTest\_Public\_SAP\_API\_ODATA\_Product2

Message GUID:

Korrelations-ID:

Anwendungs-ID:

Start

**Message-Liste**

Status	Verarbeitet um	Verarbeitung abgeschlossen um	Integration-Flow	Dauer
COMPLETED	13.01.2023 15:33:00.002 Europe/Berlin	13.01.2023 15:33:00.221 Europe/Berlin	gTest_Public_SAP_API_ODATA_Product2	219ms
COMPLETED	13.01.2023 15:32:00.015 Europe/Berlin	13.01.2023 15:32:00.265 Europe/Berlin	gTest_Public_SAP_API_ODATA_Product2	250ms
COMPLETED	13.01.2023 15:31:00.015 Europe/Berlin	13.01.2023 15:31:00.250 Europe/Berlin	gTest_Public_SAP_API_ODATA_Product2	235ms
COMPLETED	13.01.2023 15:30:00.002 Europe/Berlin	13.01.2023 15:30:00.235 Europe/Berlin	gTest_Public_SAP_API_ODATA_Product2	233ms
COMPLETED	13.01.2023 15:29:00.015 Europe/Berlin	13.01.2023 15:29:00.452 Europe/Berlin	gTest_Public_SAP_API_ODATA_Product2	437ms

**Message-Verarbeitungsprotokoll**

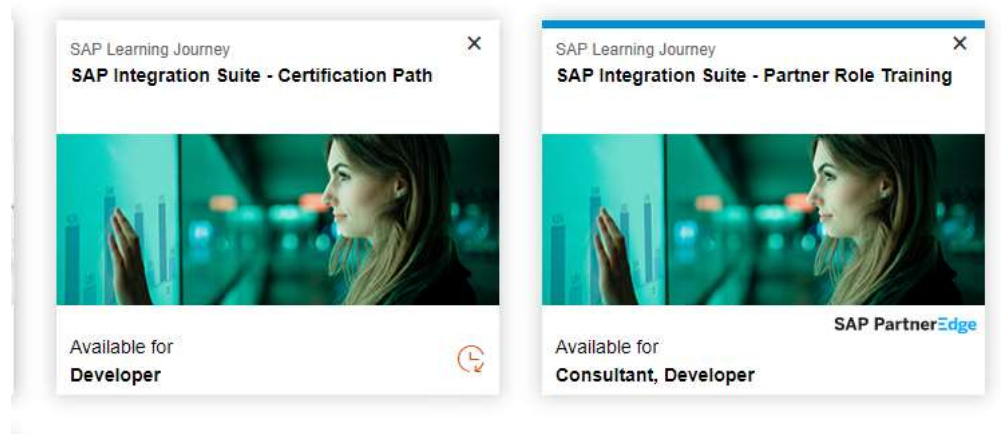
Message Processing Log:

StartTime = Fri Jan 13 15:33:00.002 CET 2023  
StopTime = Fri Jan 13 15:33:00.221 CET 2023  
OverallStatus = COMPLETED  
MessageGuid = AGPBa5y2UAIVPTdWIG3YR9bMtgZ2  
ChildCount = 0  
ChildrenCounter = 7  
ContextName = gTest\_Public\_SAP\_API\_ODATA\_Product2  
CorrelationId = AGPBa5zS6y-DvoK6vHxN1uQsJGLK  
IntermediateError = false  
Node = ID9507950  
PreviousComponentName= CPI\_POD  
ProcessId = 8724  
TransactionId = 0c67913c5a1441748609adcea36f966c



## Cloud Integration – Learning Journey

<https://learning-journeys-prod.cfapps.eu10.hana.ondemand.com/#/learning-journeys/learningJourney/500a46f27a261014ba6a9420b00213f1>





# Cloud Integration – OpenSAP Kurse

SAP Integration Suite

openSAP

**Simplify Integration with SAP Integration Suite**

CP9 - Open Online Course



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**SAP Integration Solution Advisory  
Methodology**

INT2 - Open Online Course



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**Integration Advisor Capability of SAP Cloud  
Platform Integration Suite**

S4H20 - Open Online Course

