

Public

SAP Teched 2023 IN262 - Unlocking B2B Excellence: Efficiently Onboard and Manage Trading Partners

Exercise

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THE BEST RUN

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0 INTRODUCTION

In this session, you will learn how to onboard a new Trading Partner by using the following capabilities of the Integration Suite:

- Integration Advisor
- Trading Partner Management
- Cloud Integration

To make this session a successful one for all attendees, we recommend a good understanding of data structures (e. g. IDoc, SOAP, X12 or EDIFACT) along with some understanding of SAP Integration Suite capability Cloud Integration. The business process that we will simulate in this exercise depicts the transfer of an Order using IDoc as a message format over Cloud Integration to a (simulated)Trading Partner withan X12 850 message(Purchase Order). To minimize the additional effort for you, the IDoc order is already prepared and will be directly sent to Cloud Integration as soon as you deploy your integration flow. The output will not be sent to a real Trading Partner system for this exercise but to the mail address you specify during the exercise.

Usually, when onboarding business partners you need to define interfaces/messages – for each of them. Once defined, you can proceed modelling the mappings in need and document all pieces. Afterwards, you build an integration flow where you have to verify the incoming structure, implement the mapping and execute further checks on the outbound structure. This step, you are obliged to do repeatedly for each of your business partners. Last, but not least, you need to configure the outbound connection for each of your integration flows in your sending system.

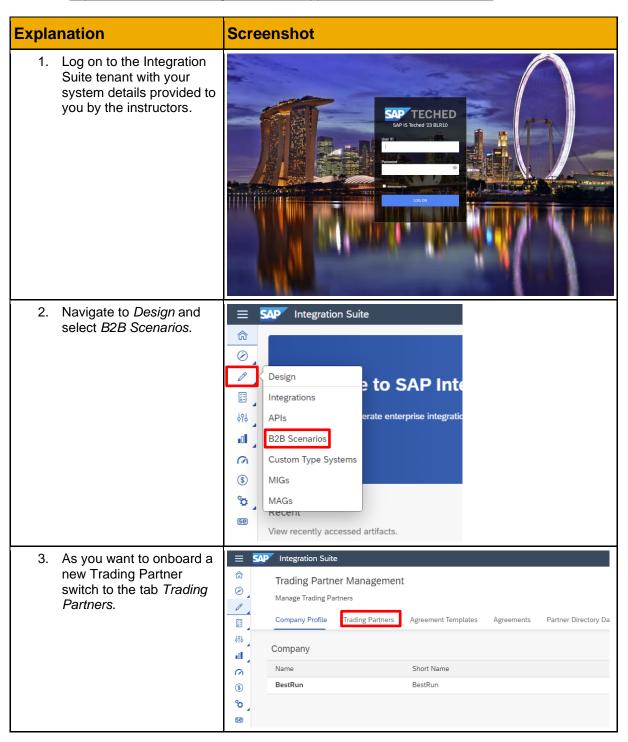
With the usage of the Integration Advisor, developing and documenting of the structures needed will become much easier and faster than before as the Integration Advisor is using a machine learning approach on top of the knowledge base, which contains the knowledge of already implemented integrations. In this first part of the exercise, the creation of the interface/message structures and mappings in the Integration Advisor is already done. In exercise 2 you also have to work on the MIG structure (interface) and on the MAG (mapping).

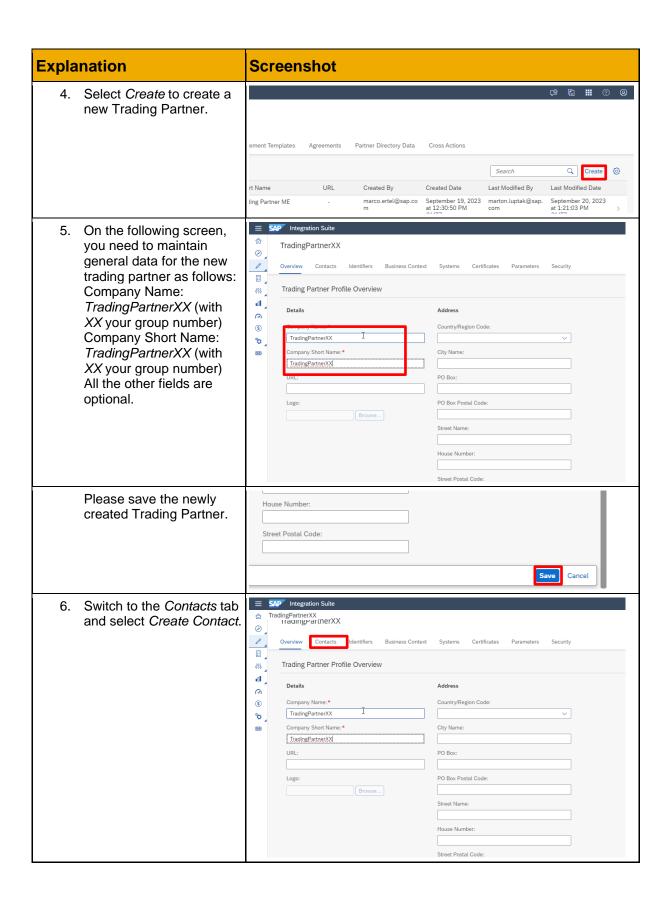
1 EXERCISE 1

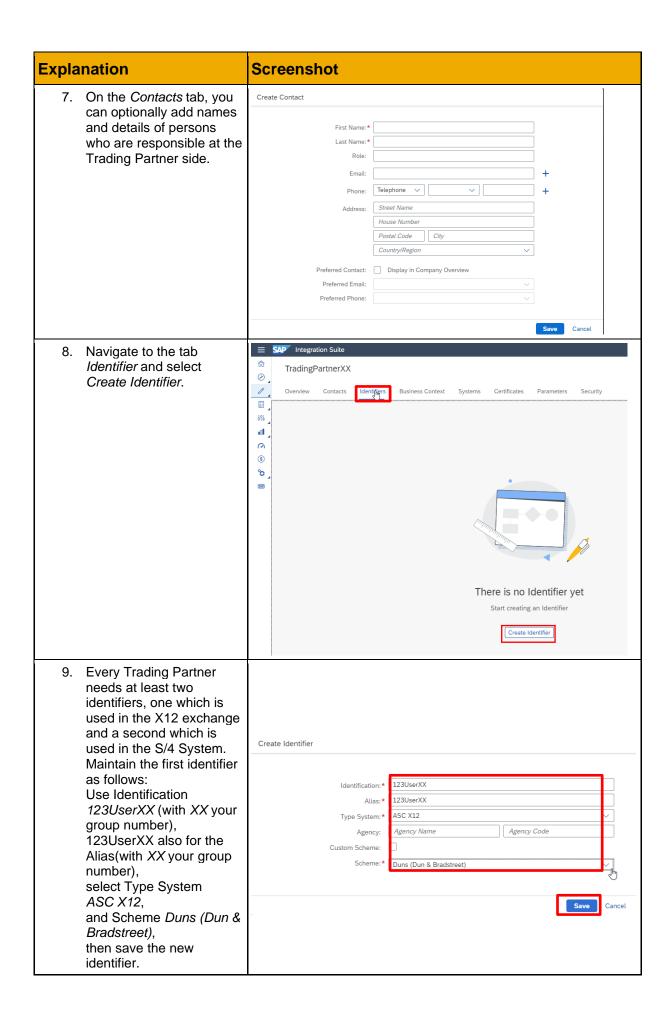
1.1 Create new Trading Partner

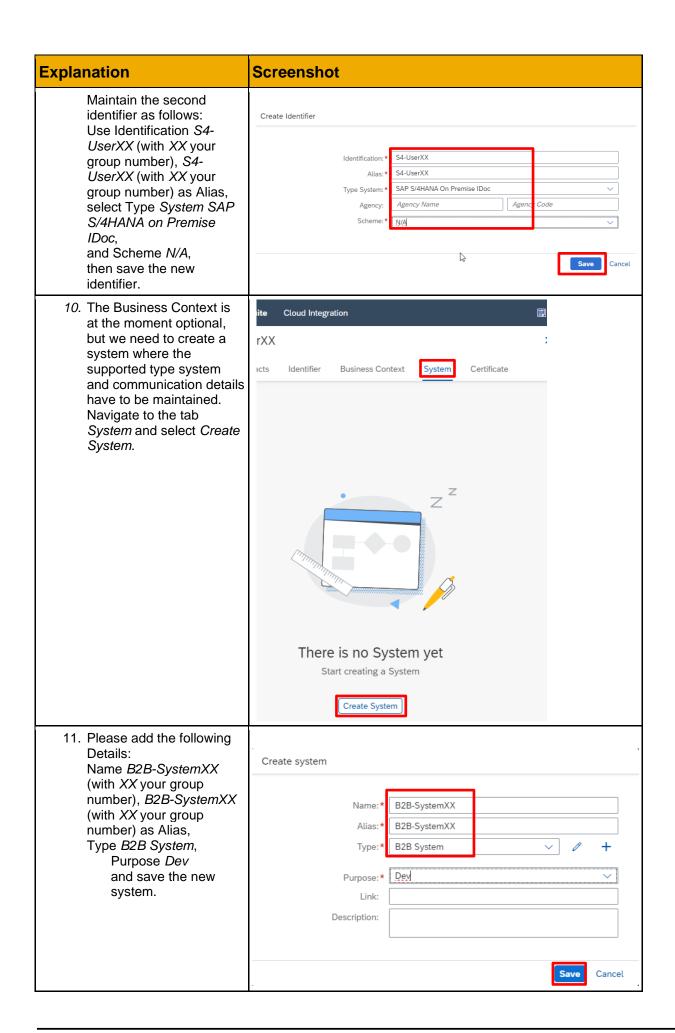
We have two tenants for this exercise. For the Groups 1-30 please use Tenant 1 and for the Groups 31-60 please use Tenant 2

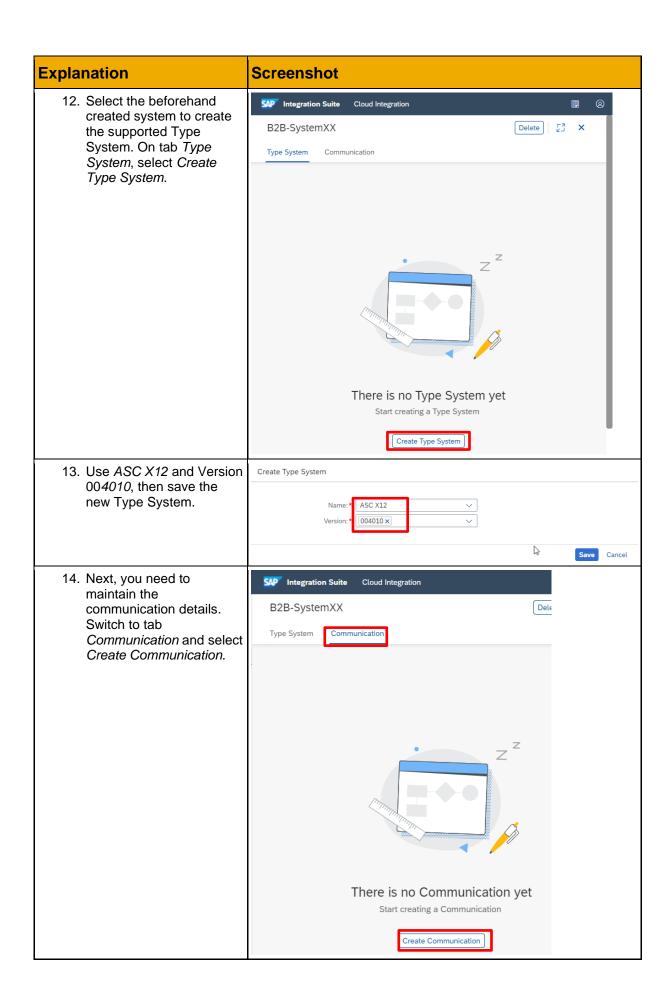
Tenant 1: https://teched23blr09.integrationsuite.cfapps.ap11.hana.ondemand.com/ Tenant 2: https://teched23blr10.integrationsuite.cfapps.in30.hana.ondemand.com/

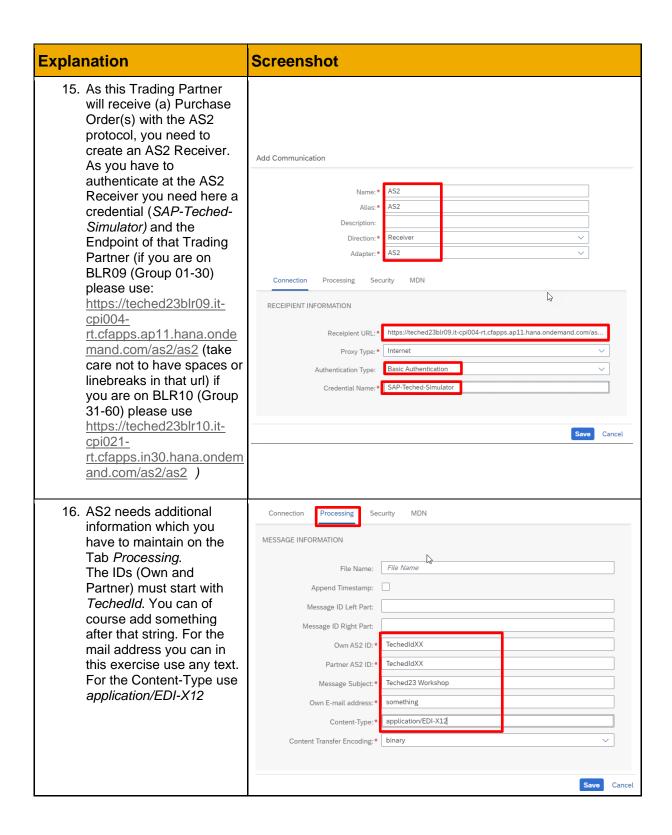












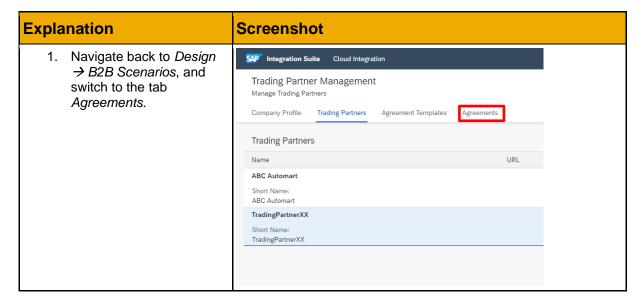
1.2 Use Agreement Template to create an agreement

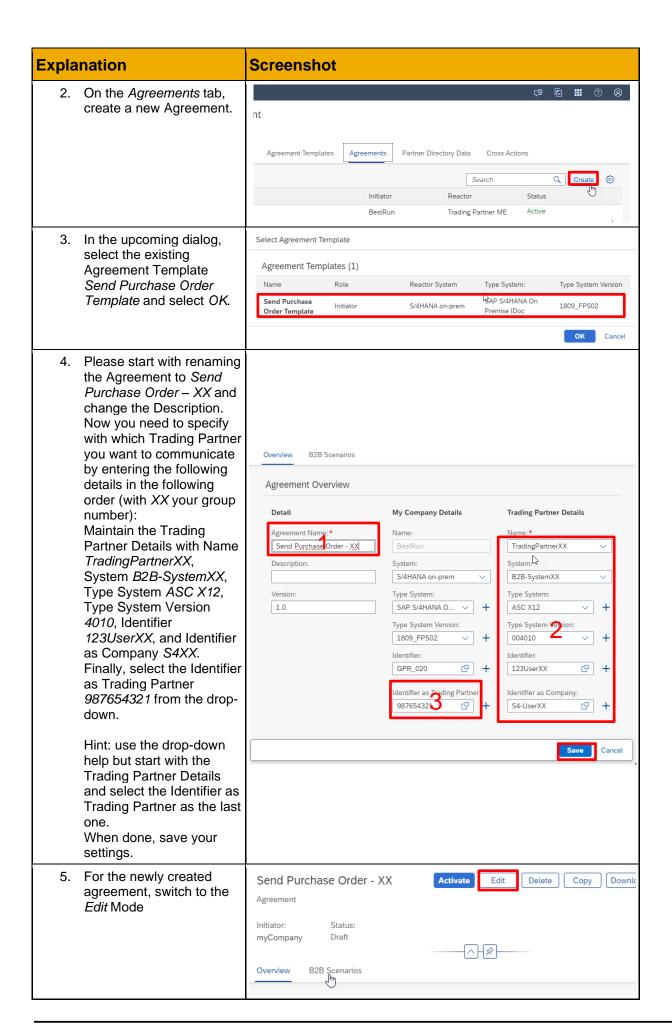
With the Agreement, you instantiate the agreement template where you need to fill out the details of the trading partners. TPM differentiates between <u>Identifiers</u> which will be used in the system of the company and Identifiers which are used in our example in the IDoc message. Let's have a look at the relevant part of our IDoc Payload:

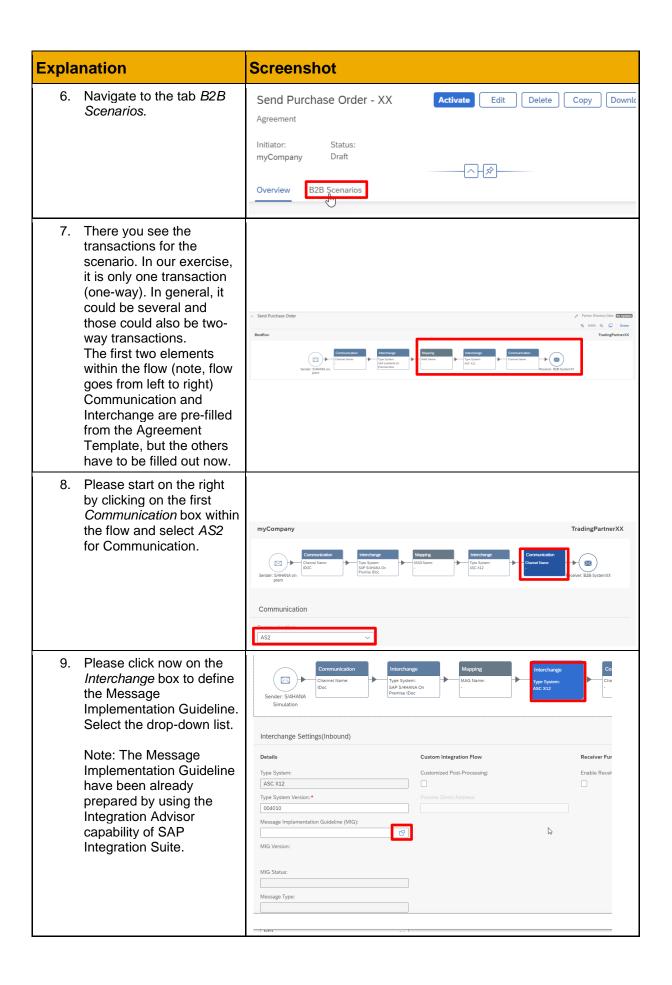
```
<ORDERS05 xmlns="urn:sap-com:document:sap:idoc:soap:messages">
 <IDOC BEGIN="1">
  <EDI DC40 SEGMENT="1">
    <TABNAM>EDI DC40</TABNAM>
   <DOCNUM>000000000000002</DOCNUM>
   <DOCREL>1809_FPS02</DOCREL>
    <DIRECT>2</DIRECT>
    <OUTMOD>3</OUTMOD>
    <IDOCTYP>ORDERS05</IDOCTYP>
    <MESTYP>ORDERS</MESTYP>
    <MESCOD>EX</MESCOD>
    <MESFCT>A48</MESFCT>
    <STD></STD>
    <STDVRS>4010</STDVRS>
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    <SNDPRN>GPR 020</SNDPRN>
    <RCVPOR>SAPMAT</RCVPOR>
    <RCVPRT>LS</RCVPRT>
    <RCVPRN>S4-UserXX</RCVPRN>
    <CREDAT>20221007</CREDAT>
    <CRETIM>071312</CRETIM>
    <REFINT>004301228</REFINT>
    <REFGRP>4301367</REFGRP>
    <REFMES>ORDERS05</REFMES>
  <SERIAL>20221007071312</SERIAL>
```

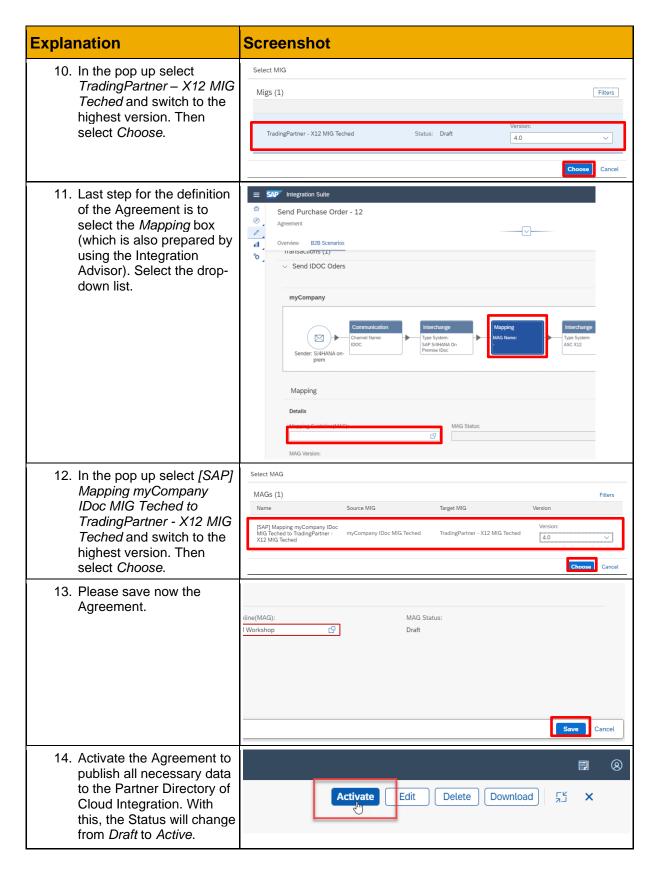
GPR_020 is the Identifier which you can find in the My Company Details.

S4-UserXX can be found in the Details of the Trading Partner under "Identifier as Company" (as usual the XX will then be your group number).



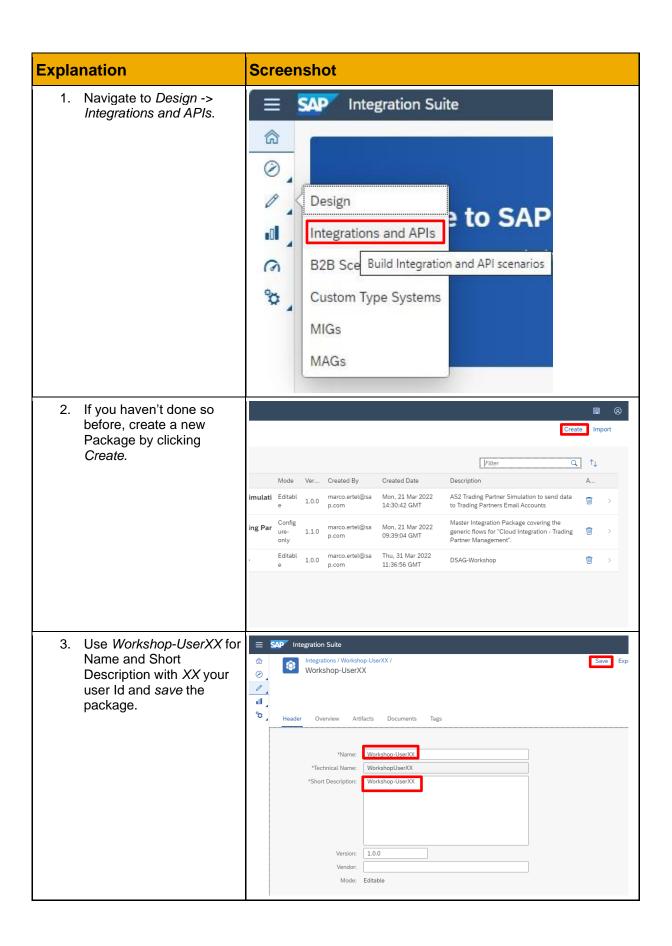


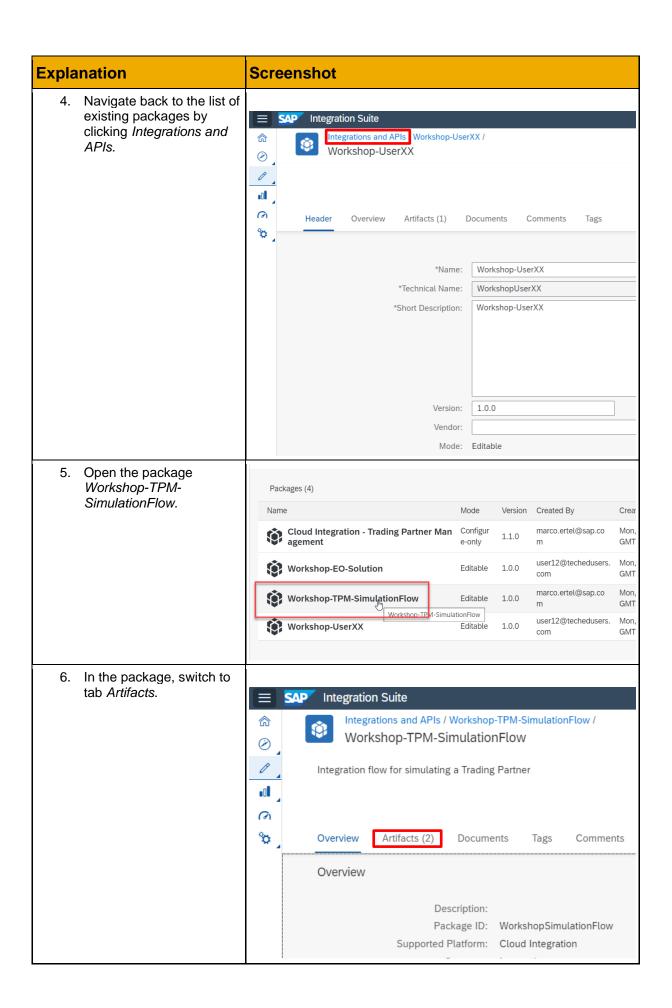


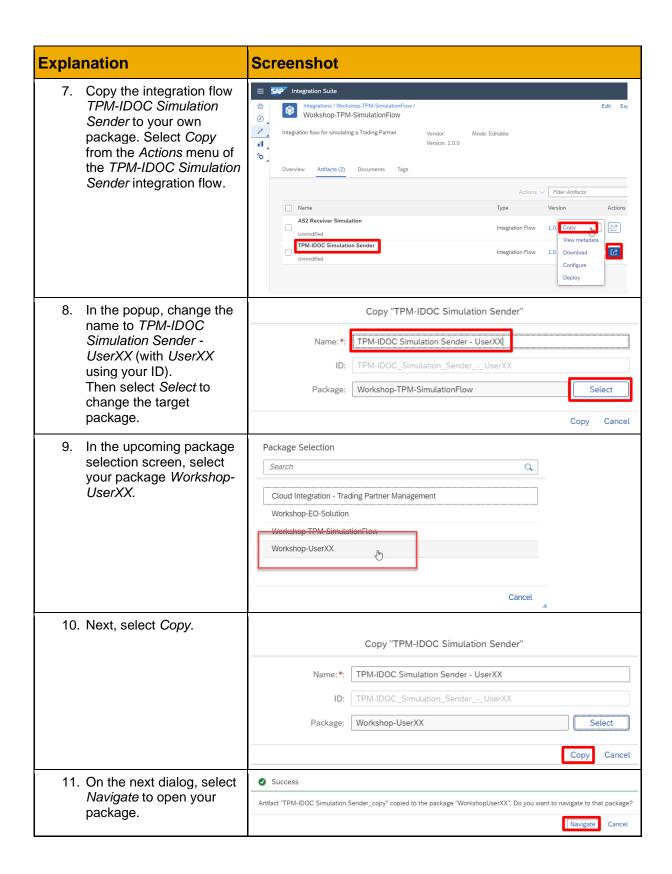


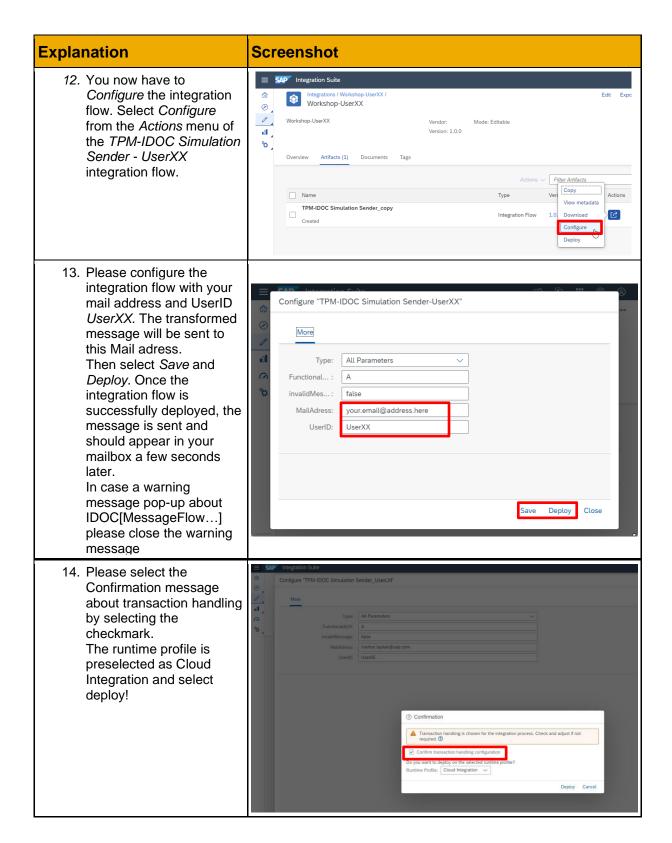
1.3 Prepare Simulation Flow and send a message

As we have defined that our Company will send an IDoc Order using the IDOC Protocol we need to simulate this sender. For this we have built an integration flow which you have to copy to a new package, configure and deploy. The IDoc message is sent as soon as the integration flow is deployed.



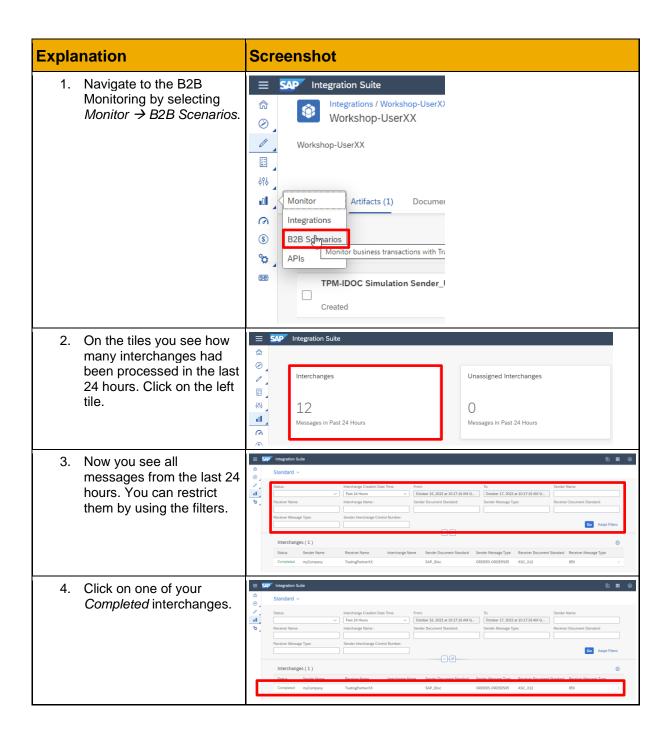


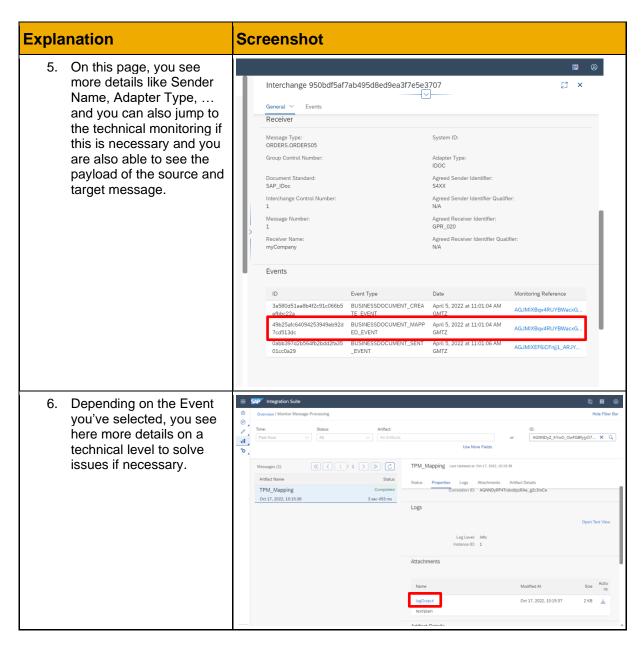




1.4 Monitor the Scenario

As the sent IDoc message is now sent to the generic integration flow and from there via the AS2 Adapter to other (already prepared) integration flow you should get an email in your inbox with the payload as an X12 850 message. To monitor B2B Scenarios let's have a look at the B2B Monitoring.

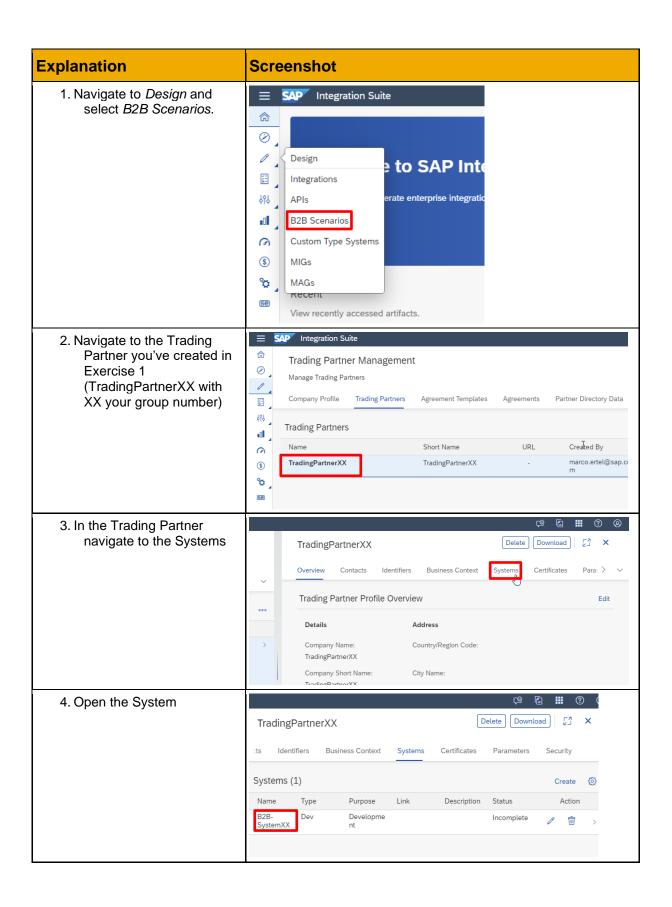


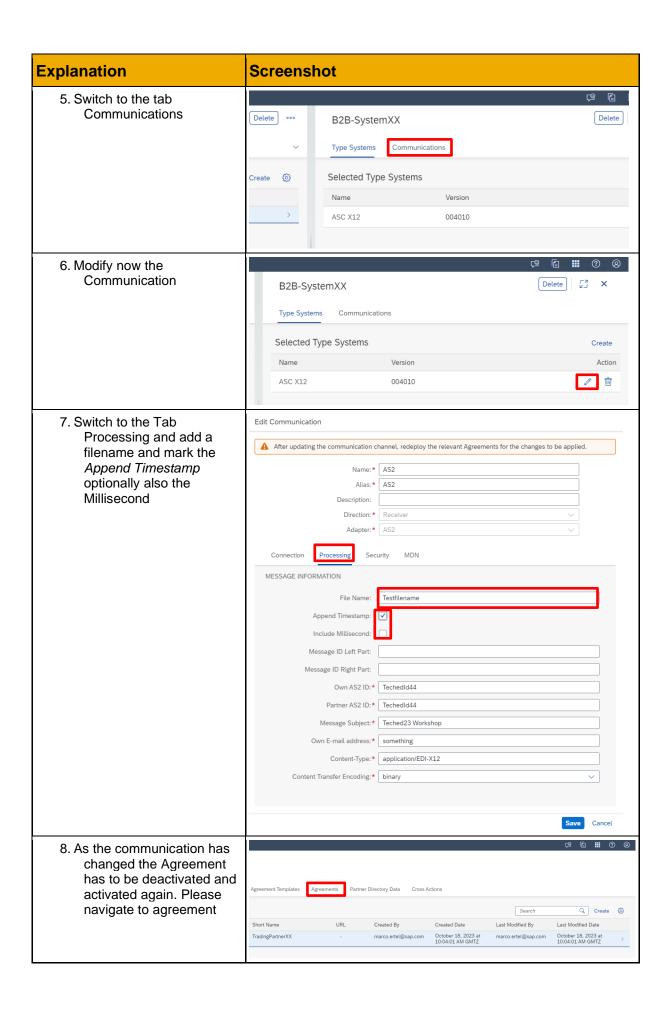


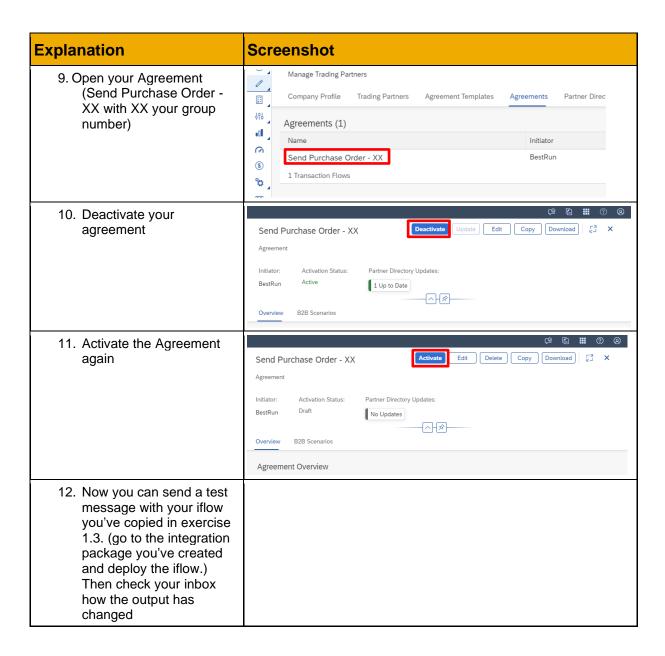
Congrats, you have successfully completed the first exercise.

2 OPTIONAL: EXERCISE 2- FILENAME

In the next step you will modify the filename and append a timestamp to the AS2 sent message as many B2B Systems expect that. This filename is also shown in the message you get via mail.

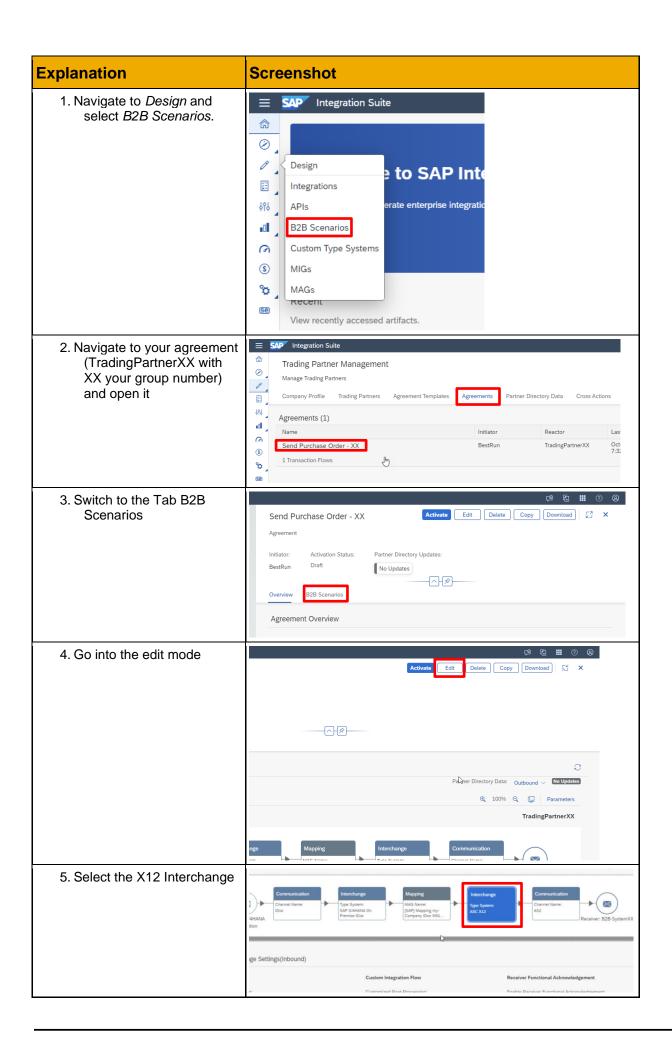


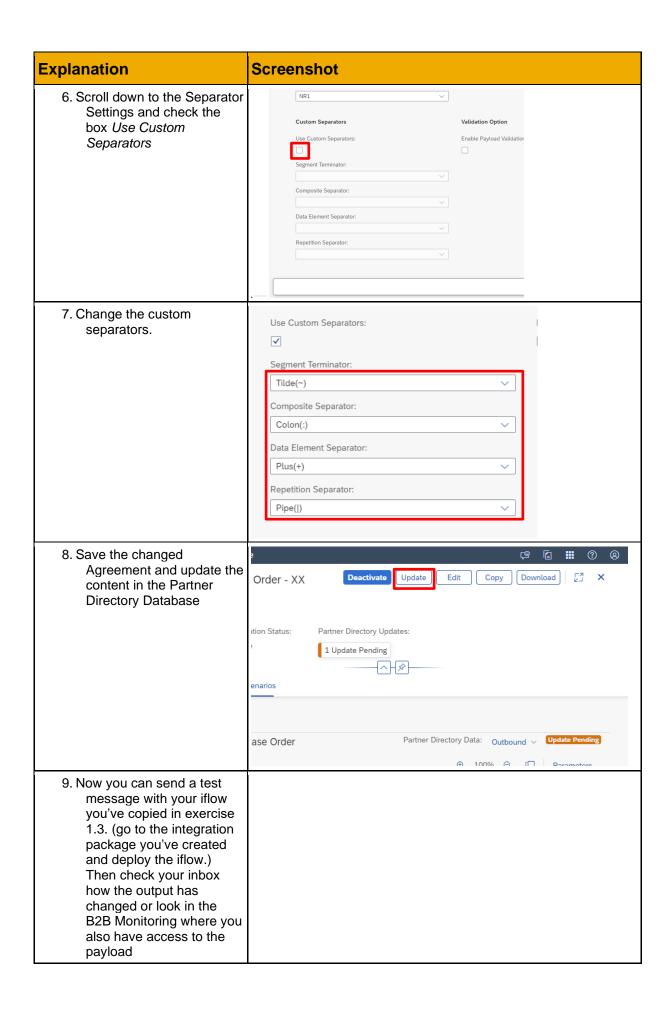




3 OPTIONAL: EXERCISE 3- SEPARATORS

Here you change the separators of the X12 message as different systems might need different separators.



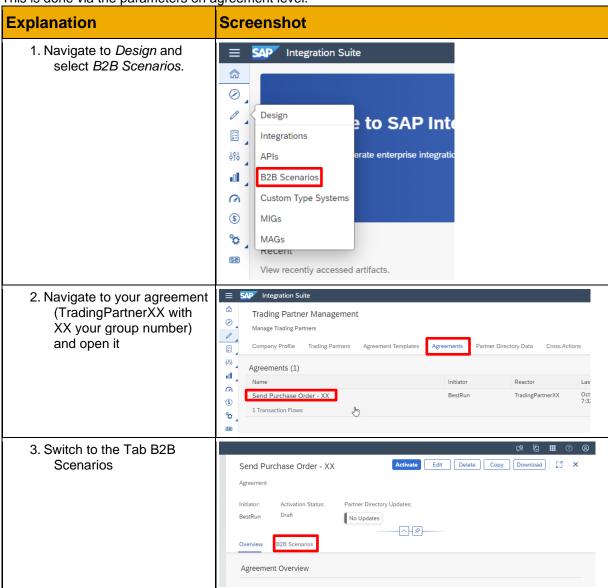


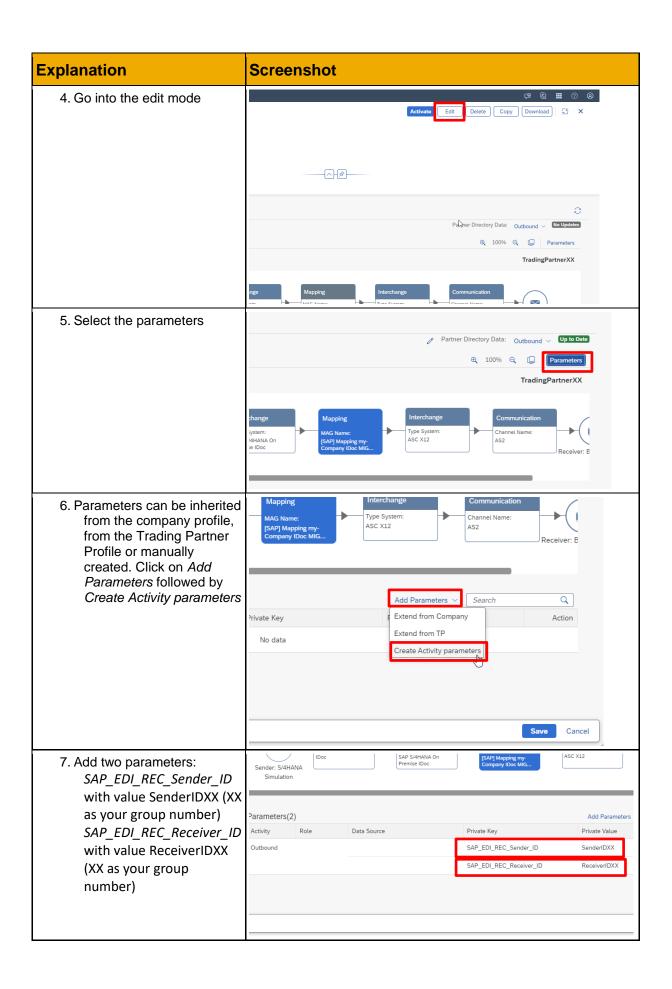
4 OPTIONAL: EXERCISE 4 - CHANGE ENVELOPE

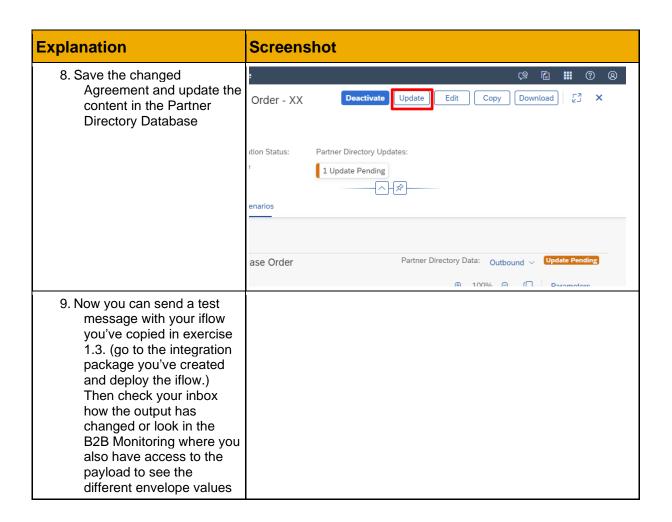
In this exercise you can see how to influence the envelope of an X12 message. Such an envelope contains the following elements (this envelope does not reflect the values in our payload and is only an example):

In this exercise we will change 6 and 8 which are the *Interchange Sender ID* and the *Interchange Receiver ID*.

This is done via the parameters on agreement level.

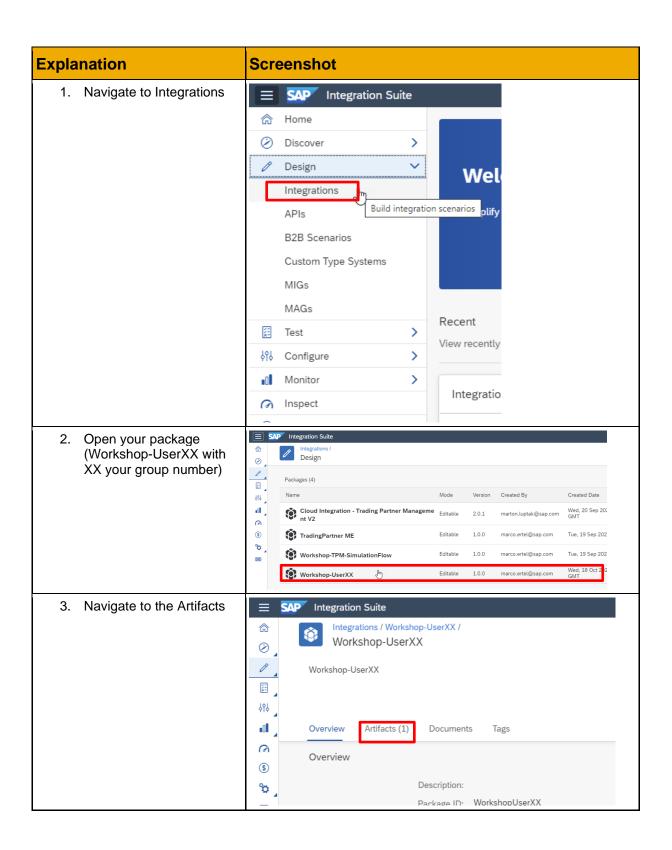


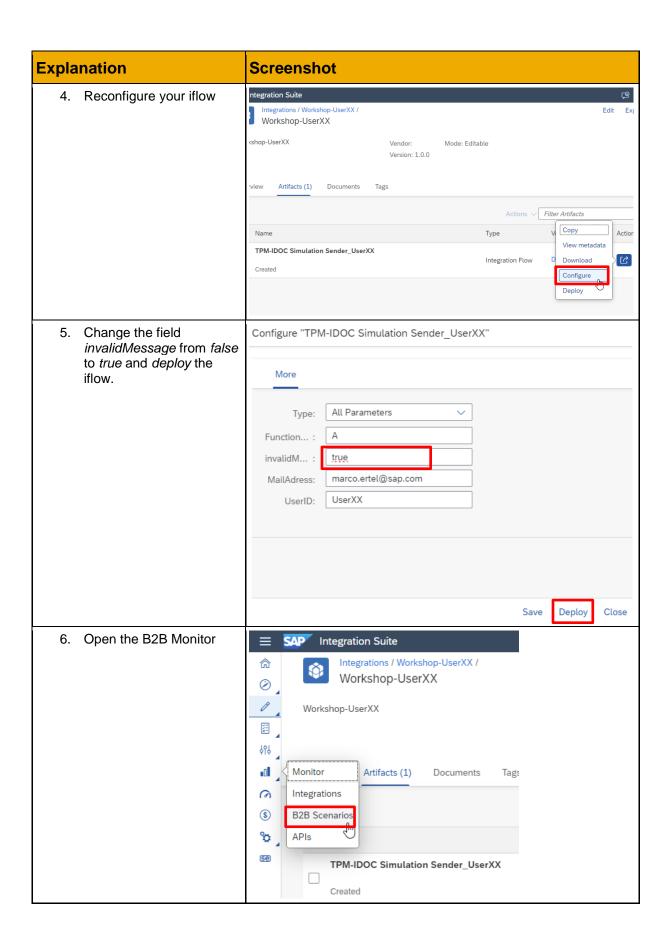


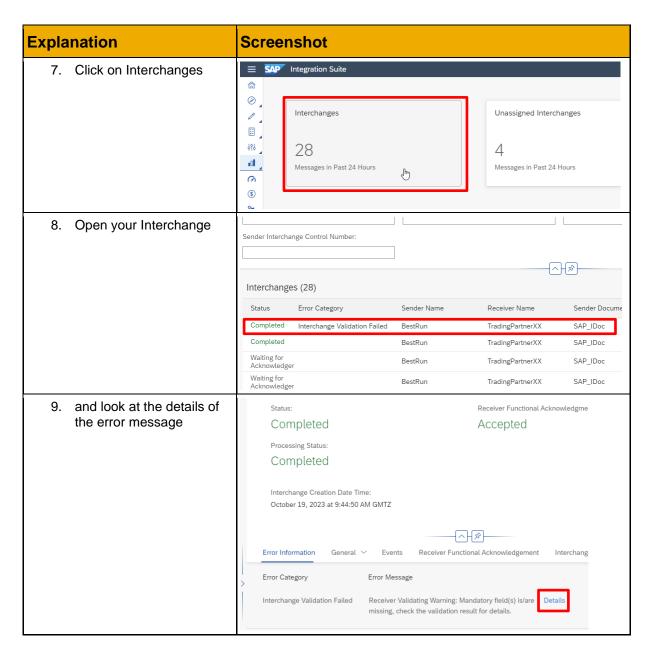


5 OPTIONAL: EXERCISE 5 - VALIDATION

In this exercise an erroneous message will be sent to show the capabilities of the payload validation.







Now you can find out, what error the source message contains. In real scenarios the next step would then to correct either the sending system or the mapping to get a correct message sent to your trading partner. Thanks a lot for your interest in how to handle B2B scenarios with the SAP Integration Suite! We hoped you like it. If you interested in more check the openSAP (https://open.sap.com/) page regularly as very soon a course specialized to B2B will be published there.