



B2B Integration Factory

Prepackaged B2B Integration Content – Order to Cash

July 2022

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D.10B

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Disclaimers

The “B2B Integration Factory – [Integration Packages|Pre-Packaged B2B Integration Content]” are Community Content and this is provided as a standalone component under the [Apache License, v. 2.0](#) and, is not part of any SAP product. SAP does not support Community Content. Please raise any issues under the associated GitHub project.

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~~The B2B Integration Factory cannot guarantee this. There is also no guarantee that this content will be continually maintained.~~

You can find the official release plans for SAP product development on [SAP Roadmap Explorer](#). Here you can also see when the respective features that are considered in the B2B Integration Factory – Integration Packages will be released as a standard feature in the SAP Integration Suite.

If one of these feature is required in the SAP Integration Suite in a timely manner but not listed in the SAP Roadmap Explorer, we therefore ask you to create a “Feature Improvement” on [SAP Customer Influence – Campaign: SAP Integration Suite](#) or vote for it, if exactly same “Feature Improvement” is already available. All “Feature Improvements” and especially their votes have a significant influence on the prioritization of the features to be delivered in SAP Integration Suite.

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Introduction

This Configuration Guide serves as an example of how to configure messaging using UN/EDIFACT as a reference. The configuration process described here can be applied to various message types and versions.

As of the current stage of development, the B2B Integration Factory supports the following formats, which can be configured using this guide:

- UN/EDIFACT
 - o D.01B
 - o D.10B
 - o D.93A
 - o D.96A
- ASC X12
 - o V04010
 - o V05010
 - o V07010
- TRADACOMS
 - o 4
 - o 9

This initial list of supported combinations reflects the current state of knowledge. Based on customer projects and the Proposal Service, these message types will be continuously expanded. This guide provides recommendations and is intended to offer customers structured guidance.

Customer-specific MIGs (Message Implementation Guidelines) and MAGs (Message Application Guidelines) will later feed into a knowledge graph to simplify the creation of additional content. This enables a continuously growing body of knowledge, strengthened by the community effect. By activating artifacts, the created mappings are anonymized and utilized as learning data.

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Deleted: Dieser Konfig Guide dient exemplarisch als Config Guide und zeigt wie die Konfiguration am Beispiel von UN-EDIFACT vorgenommen werden kann. Diese Konfiguration kann an vielen verschiedenen Message Types und Versionen durchgeführt werden. 

Zum aktuellen Zeitpunkt der Entwicklung bieten die B2B Integration Factory folgende Formate an, welche mittels dieses Guides konfiguriert werden können: Welche Formate abgedeckt werden in diesem Szenario. Konfig Guide verwendet exemplarisch iDoc EDI aber es ist für die anderen hier aufgelisteten Kombinationen angewendet werden kann. 

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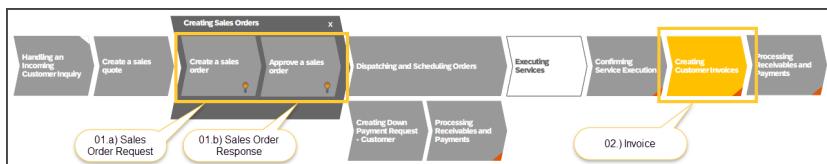
Die von Kunden verwendeten MIG und MAGs dienen später den Knowledge Grafen für die Vereinfachung der Erstellung von weiteren Content. Dadurch erhält man einen kontinuierlich wachsenden Content, welcher durch die Nutzung des Community Effekts stetig wächst. 

Durch die Aktivierung der Artefakte werden die erstellten Mappings anonymisiert als Lerndaten verwendet. → Community Effect. .

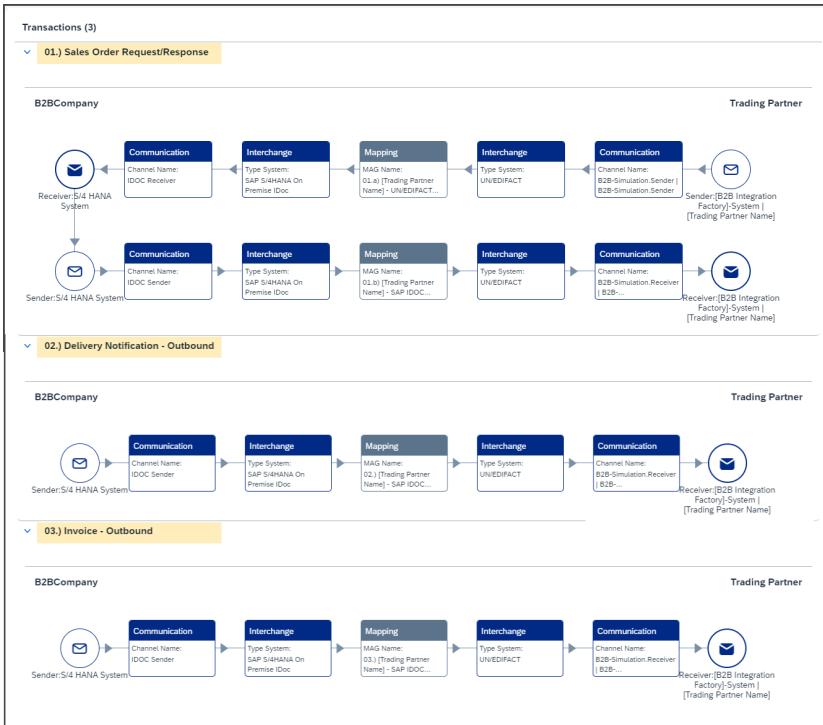
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B2B Scenario

This introduced "Order-to-Cash" B2B scenario refers to the process by which a business receives and fulfills orders from its customers, and then completes the financial transaction. This first release covers the first main transactions activities of an "Order-to-Cash" process (see following figure) which are: sales order request, sales order response and invoice.



Especially in this B2B scenario, a trading partner utilizes the UN/EDIFACT Version D.10B recommendation for exchanging business documents, while the customer uses SAP IDOC for the same purpose. Like in the following diagram shown process begins with the trading partner sending a 01.a) Sales Order Request in form of an UN/EDIFACT D.10B interchange with an ORDERS message to the customer, which includes details of the products or services being ordered. For this case, this message will be mapped into the corresponding fields of the customer supported SAP IDOC ORDERS.ORDERS05 message. The customer then responds with a 01.b) Sales Order Response, confirming the acceptance of the order and providing further information such as delivery dates and pricing. For this purpose the created SAP IDOC ORDRSP.ORDERS05 will be mapped into the UN/EDIFACT D.10B ORDRSP message and assembled into the outgoing UN/EDIFACT interchange. Once the order is fulfilled, the customer sends an 02.) Invoice to the trading partner, detailing the payment due for the products or services provided. In this case the from the customer outgoing SAP IDOC INVOIC.INVOIC02 will be mapped into the UN/EDIFACT D.10B INOVIC message which will be also assembled into another outgoing UN/EDIFACT interchange. This seamless exchange of business documents ensures efficient order-to-cash processes between the trading partner and the customer.



Prerequisites

You need a SAP Integration Suite license in where the following capabilities are at least enabled:

Cloud Integration

1. Trading Partner Management
2. Integration Advisor
3. API Management

You should undeploy all integration flows as well as the reusable groovy scripts from the integration package "Cloud Integration - Trading Partner Management V2".

You should also delete this integration package "Cloud Integration - Trading Partner Management V2" including all the content of this integration package.

You should download all the B2B Integration Factory packages that are listed in chapter List of Integration Packages.

Get the pre-packaged content from the SAP Business Accelerator Hub

The B2B Integration Factory content can be found in the Business Accelerator Hub at
(a) More (b) Community

Alternatively, you can also use the direct link to the [Community Content](#).

You can now search for “[B2B Integration Factory] - Order to Cash B2B Scenario - SAP IDOC/UN-EDIFACT D.10B” in the Community Content.

The screenshot shows the SAP Business Accelerator Hub interface. At the top, there's a navigation bar with the SAP logo and the text "Business Accelerator Hub". Below the header, a banner reads "SAP Business Accelerator Hub" and "Accelerate your integrations, extensions, and innovations". There's a search bar with the placeholder "Search by product, package, or category" and a magnifying glass icon. To the right of the search bar, there are three main categories: "Discover" (Products, Processes, and Partners), "Explore" (Integrations, APIs, and Accelerators), and "Consume" (Visualize and consume integrations and workflows). Below these categories, there are tabs for "Products", "Business Processes", "Categories", "Domains", and "Industries". The "Products" tab is highlighted with an orange underline. In the center, there's a section titled "Choose a Product to Explore" with a sub-section "the various resources this package has to offer...". A "View All Products" button is located in the bottom right of this section. On the far right, there's a blue "FEEDBACK" button. Two yellow callouts point to specific buttons: "a" points to the "More" button in the navigation bar, and "b" points to the "Community" button in the same area.

The B2B Integration Factory community page is divided into three tabs:

1. Overview, Integration Flow and Documents.
2. Overview tab: This section provides a general summary and context of the B2B Integration Factory content available in the Business Accelerator Hub. It highlights the purpose, objectives, and key features of the content while outlining how users can benefit from utilizing the resources provided.
3. Integration Flow tab: There are no Integration Flows in the package.

4. Documents tab: This section contains all the relevant documents, files, and resources that support the community content. It serves as a repository of information. The Documents tab includes the configuration guide and Zip files with the "[B2B Integration Factory] - Order to Cash B2B Scenario - SAP IDOC/UN-EDIFACT D.10B" content.

In order to import the pre-packaged content, it must first be downloaded from the Business Accelerator Hub.

How to import

Quite important: You should import the MAGs first and then the TPA (Trading Partner Agreement)

How to import the MAGs (Mapping Guidelines)?

To successfully import the configurations in the system, please follow the steps below.

First of all, you should activate the Custom Codelists and Custom Messages in Custom Type Systems, If you haven't done so already, To begin, navigate in the Integration Suite to (a) Design → (b) Custom Type Systems as illustrated in the figure below. Then repeat the following steps for Custom Codelists and Custom Messages:

- Click on (c) Create button.
- Select in the sub-window Create Custom Type Systems the following entries (d) Custom Codelists and then (e) Custom Messages
- Click on (f) Create button in this window.

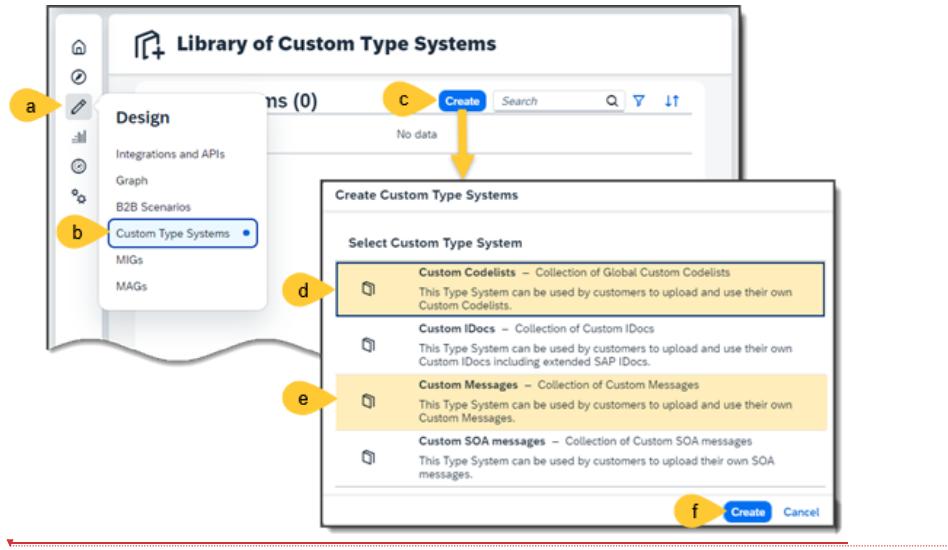
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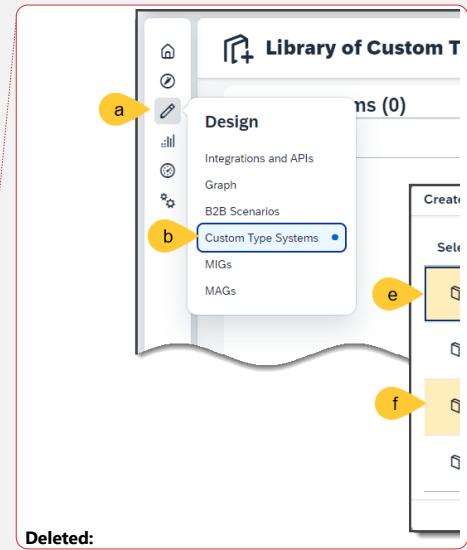
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You should see than two entries "Custom Codelists" and "Custom Messages" in your Library of Custom Type Systems.

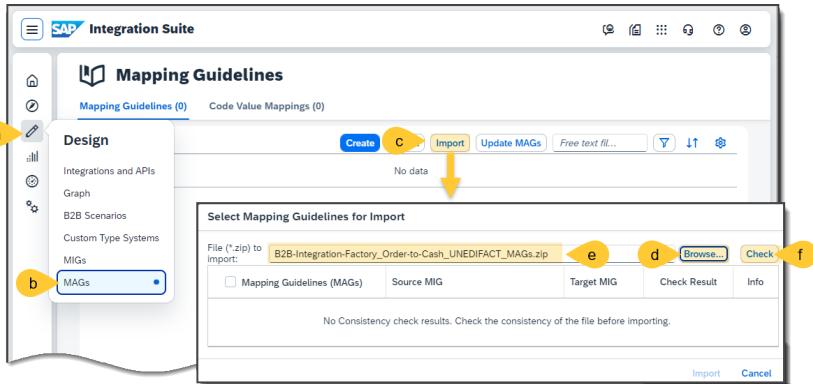


The screenshot shows a web-based application titled "Library of Custom Type Systems". At the top, there is a navigation bar with a search field and sorting icons. Below the header, the title "Type Systems (2)" is displayed. There are two entries listed:

- Custom Codelists** – Collection of Global Custom Codelists: This Type System can be used by customers to upload and use their own Custom Codelists.
- Custom Messages** – Collection of Custom Messages: This Type System can be used by customers to upload and use their own Custom Messages.

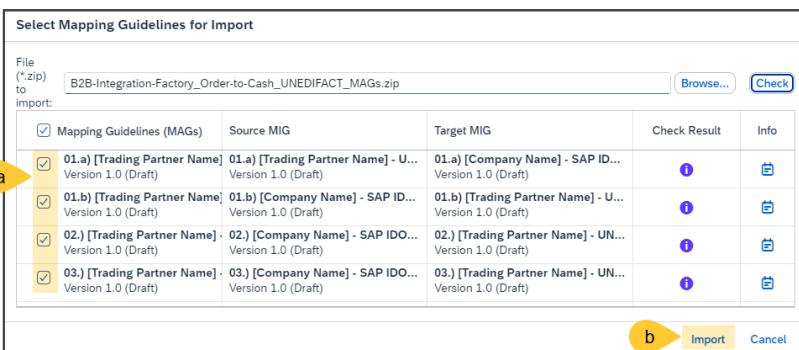
So now you ready to import the provided MAGs (Mapping Guidelines) between the mentioned SAP IDOC and UN/EDIFACT message types as zip file. For this purpose and like in the following figure shown keep in the (a) Design section and click on (b) MAGs. These MAGs are crucial for defining the source/target structure and validation rules considered as well as the mapping rules of messages exchanged between the company (SAP IDOC) and trading partners who are using UN/EDIFACT D.10B. Especially the structure and the validation rules will be considered by the already involved source and target MIGs (Message Implementation Guidelines). Importing these MAGs before the import of the TPA ensures that these guidelines will be automatically assigned once the TPA is successfully imported.

To commence the import procedure, click on the (c) **Import** button, which located in the upper right-hand corner. You will get a new window "Select Mapping Guidelines to Import". Here you should (d) browse for the already exported zip file: B2B-Integration-Factory_Order-to-Cash_IDOC_to_UNEDIFACT-D10B_MAGs.zip so that you will see ii in the field (e) File (*.zip) to import. Click than on button (f) Check.



Once the file selection and validation steps have been successfully completed, indicated by the checked check boxes (a), click like in the following figure shown the (b) Import button to initiate the actual importation of the selected MAGs. Once you clicked on the Import button do not close nor leave the browser page unless the bulk operation has finished!

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If the import is completed successfully, you should see the following representation of the import results, where each entry is marked with icon. Here you should click on (b) Close button.

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Select Mapping Guidelines for Import

Attention: do not close nor leave the browser page unless the bulk operation has finished!

Select the Stop button to stop processing the objects in the queue. However, objects that are currently processed will complete their processing.

Stop

100%

Mapping Guidelines (MAGs)	Source MIG	Target MIG	Import Result	Info
01.a) [Trading Partner Name] - UN Version 1.0 (Draft)	01.a) [Trading Partner Name] - U... Version 1.0 (Draft)	01.a) [Company Name] - SAP ID... Version 1.0 (Draft)	✓	
01.b) [Trading Partner Name] - SA Version 1.0 (Draft)	01.b) [Company Name] - SAP ID... Version 1.0 (Draft)	01.b) [Trading Partner Name] - U... Version 1.0 (Draft)	✓	
02.) [Trading Partner Name] - SAF Version 1.0 (Draft)	02.) [Company Name] - SAP IDO... Version 1.0 (Draft)	02.) [Trading Partner Name] - UN... Version 1.0 (Draft)	✓	
03.) [Trading Partner Name] - SAF Version 1.0 (Draft)	03.) [Company Name] - SAP IDO... Version 1.0 (Draft)	03.) [Trading Partner Name] - UN... Version 1.0 (Draft)	✓	

a **b** **Close**

Like in the following figure shown, all successful imported Mapping Guidelines should be listed in the overview list.

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Mapping Guidelines									
Mapping Guidelines (4) Code Value Mappings (0)									
<p>01.a) [Trading Partner Name] - UNEDIFA CT D.10B ORDERS to SAP IDOC ORDERS. ORDERS.05</p> <table border="1"> <thead> <tr> <th>Source</th> <th>Target</th> </tr> </thead> <tbody> <tr> <td>MIG Name: 01.a) [Trading Partner N... Message Type: ORDERS – Purchase or... Type System: UN/EDIFACT Type System Version: D.10B S3</td> <td>01.a) [Company Name] ... ORDERS.ORDERS05 – ... SAP S/4HANA On Premi... 1809 FPS02</td> </tr> </tbody> </table>		Source	Target	MIG Name: 01.a) [Trading Partner N... Message Type: ORDERS – Purchase or... Type System: UN/EDIFACT Type System Version: D.10B S3	01.a) [Company Name] ... ORDERS.ORDERS05 – ... SAP S/4HANA On Premi... 1809 FPS02				
Source	Target								
MIG Name: 01.a) [Trading Partner N... Message Type: ORDERS – Purchase or... Type System: UN/EDIFACT Type System Version: D.10B S3	01.a) [Company Name] ... ORDERS.ORDERS05 – ... SAP S/4HANA On Premi... 1809 FPS02								
<p>01.b) [Trading Partner Name] - SAP IDOC ORDRSP. ORDERS.05-to-UNEDIFA CT.D.10B ORDRSP</p> <table border="1"> <thead> <tr> <th>Source</th> <th>Target</th> <th>Draft Version:</th> <th>UID</th> </tr> </thead> <tbody> <tr> <td>MIG Name: 01.b) [Company Name] ... Message Type: ORDRSP.ORDERS05 – ... Type System: SAP S/4HANA On Premi... Type System Version: 1809 FPS02</td> <td>01.b) [Trading Partner N... ORDRSP – Purchase or... UN/EDIFACT D.10B S3</td> <td>1.0</td> <td>585506 6ce2-4984 a0b2- 4063d054b7</td> </tr> </tbody> </table>		Source	Target	Draft Version:	UID	MIG Name: 01.b) [Company Name] ... Message Type: ORDRSP.ORDERS05 – ... Type System: SAP S/4HANA On Premi... Type System Version: 1809 FPS02	01.b) [Trading Partner N... ORDRSP – Purchase or... UN/EDIFACT D.10B S3	1.0	585506 6ce2-4984 a0b2- 4063d054b7
Source	Target	Draft Version:	UID						
MIG Name: 01.b) [Company Name] ... Message Type: ORDRSP.ORDERS05 – ... Type System: SAP S/4HANA On Premi... Type System Version: 1809 FPS02	01.b) [Trading Partner N... ORDRSP – Purchase or... UN/EDIFACT D.10B S3	1.0	585506 6ce2-4984 a0b2- 4063d054b7						
<p>02.) [Trading Partner Name] - SAP IDOC DESADV. DELVRYO 7-to-UNEDIFA CT.D.10B DESADV</p> <table border="1"> <thead> <tr> <th>Source</th> <th>Target</th> <th>Draft Version:</th> <th>UID</th> </tr> </thead> <tbody> <tr> <td>MIG Name: 02.) [Company Name] - ... Message Type: DESADV.DELVRY07 – D... Type System: SAP S/4HANA On Premi... Type System Version: 1809 FPS02</td> <td>02.) [Trading Partner Na... undefinedDespatch advi... UN/EDIFACT D.10B S3</td> <td>1.0</td> <td>5a40c206 435f-47a a370- 1b81181597</td> </tr> </tbody> </table>		Source	Target	Draft Version:	UID	MIG Name: 02.) [Company Name] - ... Message Type: DESADV.DELVRY07 – D... Type System: SAP S/4HANA On Premi... Type System Version: 1809 FPS02	02.) [Trading Partner Na... undefinedDespatch advi... UN/EDIFACT D.10B S3	1.0	5a40c206 435f-47a a370- 1b81181597
Source	Target	Draft Version:	UID						
MIG Name: 02.) [Company Name] - ... Message Type: DESADV.DELVRY07 – D... Type System: SAP S/4HANA On Premi... Type System Version: 1809 FPS02	02.) [Trading Partner Na... undefinedDespatch advi... UN/EDIFACT D.10B S3	1.0	5a40c206 435f-47a a370- 1b81181597						
<p>03.) [Trading Partner Name] - SAP IDOC INVOIC.I NVOIC02 -to-UNEDIFA CT.D.10B INVOIC</p> <table border="1"> <thead> <tr> <th>Source</th> <th>Target</th> <th>Draft Version:</th> <th>UID</th> </tr> </thead> <tbody> <tr> <td>MIG Name: 03.) [Company Name] - ... Message Type: INVOIC.INVOIC02 – Inv... Type System: SAP S/4HANA On Premi... Type System Version: 1809 FPS02</td> <td>03.) [Trading Partner Na... INVOIC – Invoice messa... UN/EDIFACT D.10B S3</td> <td>1.0</td> <td>Trad Partner Nar SAP IDO INVOIC.INV/ -to- UNEDII D.10B INV</td> </tr> </tbody> </table>		Source	Target	Draft Version:	UID	MIG Name: 03.) [Company Name] - ... Message Type: INVOIC.INVOIC02 – Inv... Type System: SAP S/4HANA On Premi... Type System Version: 1809 FPS02	03.) [Trading Partner Na... INVOIC – Invoice messa... UN/EDIFACT D.10B S3	1.0	Trad Partner Nar SAP IDO INVOIC.INV/ -to- UNEDII D.10B INV
Source	Target	Draft Version:	UID						
MIG Name: 03.) [Company Name] - ... Message Type: INVOIC.INVOIC02 – Inv... Type System: SAP S/4HANA On Premi... Type System Version: 1809 FPS02	03.) [Trading Partner Na... INVOIC – Invoice messa... UN/EDIFACT D.10B S3	1.0	Trad Partner Nar SAP IDO INVOIC.INV/ -to- UNEDII D.10B INV						

How to import the TPA (Trading Partner Agreement)?

After successfully importing the MAGs, you can proceed to import Trading Partner Agreements (TPAs). TPAs define the terms and conditions of data exchange between you and your trading partners, ensuring mutual understanding and compliance with agreed-upon standards.

a.) Navigate back to the Design section, then go to B2B Scenarios. This section is specifically designed for managing and configuring various business-to-business scenarios, including TPAs.

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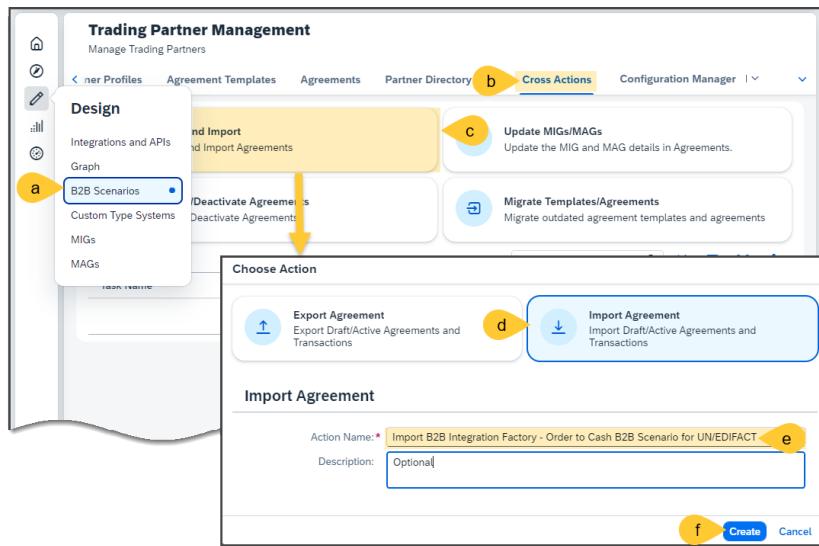
b.) Click on the Cross Action button and then on **c.) Export and Import**, which provides the option to **d.) import agreements**. There you can **e.) add the Action Name** and click on the **f.) Create button**.

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Deleted: f.) The Export and Import helps you to import your Agreement into the system.



Import B2B Integration Factory - Order to Cash B2B Scenario for UN/EDIFACT

Select Agreements

The maximum number of agreements is 300.

File to import: B2B-Integration-Factory_Order-To-Cash_B2... [Browse...](#) **a**

Configure Import Options

MIGs/MAGs need to be present in the target system to successfully import the Agreements. Import MIG/MAG references if MIG/MAG is already available or you can remove it. See more in [help pages](#)

Single Identifiers:	<input type="button" value="Create or Overwrite"/>	i
Identifier Groups:	<input type="button" value="Create or Overwrite"/>	i
Identifiers in Groups:	<input checked="" type="radio"/> Import Empty Groups <input type="radio"/> Import Identifiers in Groups (exclude conflicting Identifiers)	
	<input type="radio"/> Import Identifiers in Groups (include conflicting Identifiers)	
System Communication Channels:	<input type="button" value="Create or Overwrite"/>	i
Parameters:	<input type="button" value="Create or Overwrite"/>	i
Activity Parameters:	<input type="button" value="Create or Overwrite"/>	i
Security:	<input type="button" value="Create or Overwrite"/>	i
MIG References:	<input checked="" type="radio"/> Import <input type="radio"/> Update to the latest version <input type="radio"/> Skip	
MAG References:	<input checked="" type="radio"/> Import <input type="radio"/> Update to the latest version <input type="radio"/> Skip	

b **Import** **Cancel**

Trading Partner Management

Manage Trading Partners

[User Profiles](#) [Agreement Templates](#) [Agreements](#) [Partner Directory Data](#) **Cross Actions** [Configuration Manager](#)

 Export and Import Export and Import Agreements	 Update MIGs/MAGs Update the MIG and MAG details in Agreements.
 Activate/Deactivate Agreements Activate/Deactivate Agreements.	 Migrate Templates/Agreements Migrate outdated agreement templates and agreements

Action Logs (1)

Task Name	Description	Action Type	Status	Actions
Import Agreement	Import B2B Integration Factory - Order to Cash B2B Scenario for UN/EDIFACT	Optional	Import Agreement Completed	...

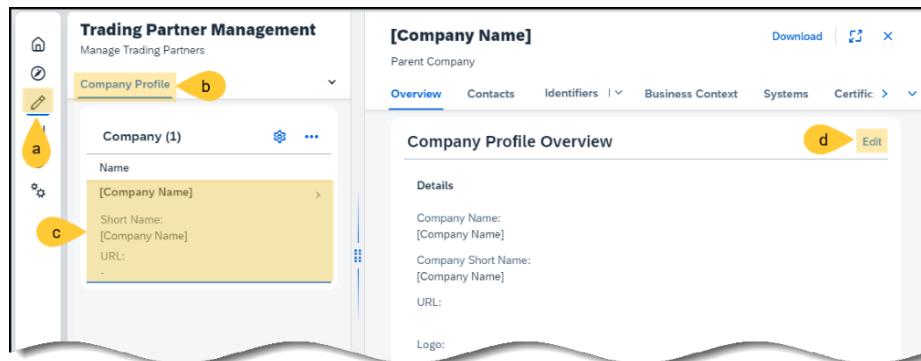
Created On:
July 26, 2024, 4:39:07 PM GMTZ

How to finally configure

Company Profile

Once the pre-packaged content has been successfully imported, it must be configured. In the first step of the configuration, the placeholder [Company Name] in the Company Profile must be replaced by the real name.

The Company Profile covers the necessary company related information and parameters which are relevant and can be reused across all the Trading Partner Agreements. This Company Profile should be initially used in Trading Partner Agreement templates, and should have at least below properties.



The Company Profile can be found in the Trading Partner Management under a.) Design > B2B Scenarios. The b.) Company Profile has its own tab there. The c.) entry with the placeholder [Company Name] can be found in the list of created companies. Click on it to go to the Company Profile Overview. The Company details can now be configured using the d.) Edit button in the top right-hand corner.

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In addition to the Company details, the a.) Company Identifiers must also be adjusted. Two b.) Single Identifiers have already been created for IDoc and UN/EDIFACT, which should conveniently be renamed according to the company.

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Under a.) Systems, a b.) business system must be created with the internally used c.) type system in its agreed version and the d.) communication channels. Dummy parameters are provided in the pre-packaged content for orientation.

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The two communication channels created can be used for simulation purposes by the Insomnia Collection.

There are further details that can be configured in the Company Profile. These can be found in the other tabs. For example, parameters can be defined or the business context customized.

Trading Partner Profile

The pre-packaged content includes a sample Trading Partner Profile with the name [Trading Partner Name]. This can be used as a template for your own trading partners. This template is briefly explained below.

The Trading Partner Profile can also be found in the Trading Partner Management under a.) Design > B2B Scenarios. The b.) Partner Profile has its own tab there. The c.) entry with the placeholder [Trading Partner Name] can be found in the list of created companies. Click on it to go to the Trading Partner Profile Overview. The d.) Trading Partner details can now be seen in this window.

Next, the identifiers should be created. The identifiers are used in interchange payloads to identify the enterprise, either as a sender or a receiver, depending on the direction. Identifiers in B2B exchanges are like values that help systems identify the sender/receiver trading parties involved in that B2B exchange.

Deleted: (a)
Deleted: (b)
Deleted: (c)
Deleted: (d)

[Trading Partner Name]

Trading Partner Profile

Actions Identifiers | **a** Context Systems Certificates Parameters > ▾

Single Identifiers (2) **b**

<input type="checkbox"/> Identification	Alias	Actions
<input type="checkbox"/> TP_IDOC_ID	TP_IDOC_ID	
Type System: SAP_IDoc Scheme Name: N/A Scheme Code: N/A Agency Name: Agency Code:		
<input type="checkbox"/> TP_UNEDIFACT_ID	TP_UN-EDIFACT_ID	
Type System: UNEDIFACT Scheme Name: Mutually defined Scheme Code: ZZZ Agency Name: Agency Code:		

The **a)** Identifiers tab takes you to the list of the **b)** Single Identifiers. Each trading partner must have its own identifier for each type system. Two identifiers are provided in the pre-packaged content as a template that can be used for orientation.

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The screenshot shows the [B2B Integration Factory]-System configuration. On the left, under 'Trading Partner Profile' for '[Trading Partner Name]', there is a 'Systems' section with a yellow callout 'a'. In the center, the 'Communications' tab is selected in the 'B2B Integration Factory]-System' configuration screen, with a yellow callout 'c'. The 'Communications (2)' table lists two entries:

Name	Alias	Description	Direction	Adapter	Action
B2B-Simulation...	B2B-Simulation.Receiver	B2B-Simulation.Receiver	Receiver	Process_Direct	
B2B-Simulation...	B2B-Simulation.Sender	B2B-Simulation.Sender	Sender	Process_Direct	

A system with communication channels must also be configured under each trading partner. This works in the same way as for the company. To do this, go to a.) Systems and create or b.) select a system. You can then set the type system and the c.) communications. Here again, there are ready-made templates that can be used as a guide.

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Trading Partner Agreements

The Trading Partner Agreement (TPA) is a formal contract between two business entities that defines the agreed terms and conditions for electronic data exchange and specifies the technical and operational arrangements necessary for successful integration.

This is an example Trading Partner Agreement that can be used for testing. The B2B simulation can be used to understand how it works. It can also serve as a comparison or template for creating new TPAs.

The screenshot shows the 'Agreements' section in 'Trading Partner Management'. A yellow callout 'a' points to the 'Agreements' tab. Another yellow callout 'b' points to the list of agreements, which includes '[B2B Integration Factory] - Order to Cash B2B Scenario - UN/EDIFACT D.10B'. On the right, the details for this specific agreement are shown in the 'B2B Integration Factory] - Order to Cash B2B Scenario - UN/EDIFACT D.10B' screen. A yellow callout 'c' points to the 'Agreement Overview' section.

The Trading Partner Agreements can be found in Trading Partner Management under a.) Agreements. An agreement has already been provided for orientation purposes, which can serve as

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a template. Behind each b.) agreement there is the c.) Agreement Overview with all the information on the company and the trading partner, among other things.

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In the Trading Partner Agreement, at least the Company sender/receiver communication and the identifier in the template overview must be adjusted.

Trading Partner Management

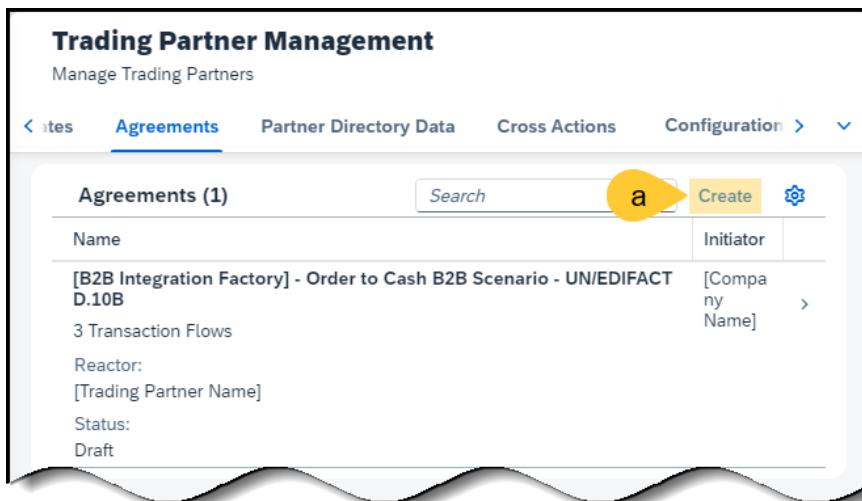
Manage Trading Partners

Agreements Partner Directory Data Cross Actions Configuration > v

Agreements (1)

Name	Initiator
[B2B Integration Factory] - Order to Cash B2B Scenario - UN/EDIFACT D.10B	[Company Name]

3 Transaction Flows
Reactor: [Trading Partner Name]
Status: Draft



To create a new Trading Partner Agreement based on the existing template, you must create a new one using the a.) Create button.

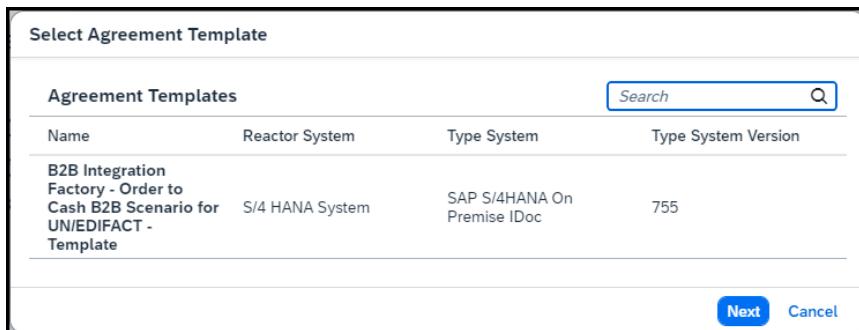
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Select Agreement Template

Agreement Templates

Name	Reactor System	Type System	Type System Version
B2B Integration Factory - Order to Cash B2B Scenario for UN/EDIFACT - Template	S/4 HANA System	SAP S/4HANA On Premise IDoc	755

Next Cancel



The 'Order to Cash' template can then be selected.

< Select Transactions and Trading Partner for B2B Integration Factory - Order to Cash B2B Scenario

Agreement Creation Mode

Copy from Template i a

Bind with Template i

Transactions (3) b

Name	Initiator	Reactor
<input checked="" type="checkbox"/> 01.) Sales Order Request/Response	-	-
<input checked="" type="checkbox"/> 02.) Delivery Notification	[Company Name]	-
<input checked="" type="checkbox"/> 03.) Invoice	[Company Name]	-

Select Trading Partner

Name: [Trading Partner Name] c

Open Draft Cancel

In Agreement Creation Mode, a.) 'Copy from Template' **should be selected**. The desired b.) transactions **can also be chosen**. At the bottom, you can then select the c.) trading partner **based on** which the agreement will be created. The Open Draft button then takes you to the settings already described.

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- Deleted:** must then be selected
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- Deleted:** can also be selected
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- Deleted:** on the basis of

B2B Integration Factory - Order to Cash B2B Scenario for UN/EDIFACT - Template

Agreement

Initiator: [Company Name] Activation Status: Draft Partner Directory Updates: No Updates

Overview B2B Scenarios

Agreement Overview

Detail	My Company Details	Trading Partner Details
Name: [*] B2B Integration Factory - Order to ...	Name: [Company Name]	Name: [Trading Partner Name]
Source Agreement Template: B2B Integration Factory - Order to Cas...	System: S/4 HANA System	System:
Description: TBD	Purpose: TEST	Purpose: -
Version: 1.0	Type System: SAP S/4HANA On Pre... 755 Identifier in Company Type System: Company_IDOC_ID	Type System: D.10B Type System Version: D.10B Identifier in Trading Partners Type System: TP_UNEDIFACT_ID
	+ +	+ +
	Identifier in Trading Partner Type System: Company_UNEDIFAC...	Identifier in Company Type System: TP_IDOC_ID
	+ +	+ +

Parameters such as the type system, the version and the identifier must be set here.

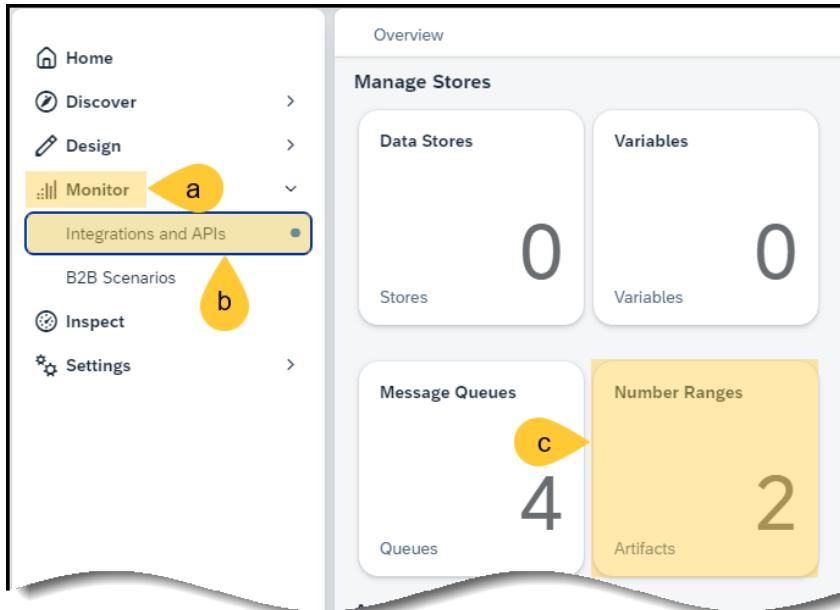
Number Range

Before the artifacts can be activated, it is necessary to define a Number Range. To do this, you have to navigate to a.) Monitor > b.) Integrations and APIs and open the c.) Number Ranges Tile:

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After this it is required to add a number range object by clicking on the a.) "Add"-Button:

The screenshot shows the 'Manage Number Ranges' table. The table has columns: Name, Minimum Value, Maximum Value, Next Value, Field Length, Deployed By, and Deployed On. There are two rows:

Name	Minimum Value	Maximum Value	Next Value	Field Length	Deployed By	Deployed On
ICN_UNE_DIFACT	0	99999999 999999	6	0	[Redacted]	[Redacted]
ICN_DEFALULT	0	99999999	00000000 5	9	[Redacted]	[Redacted]

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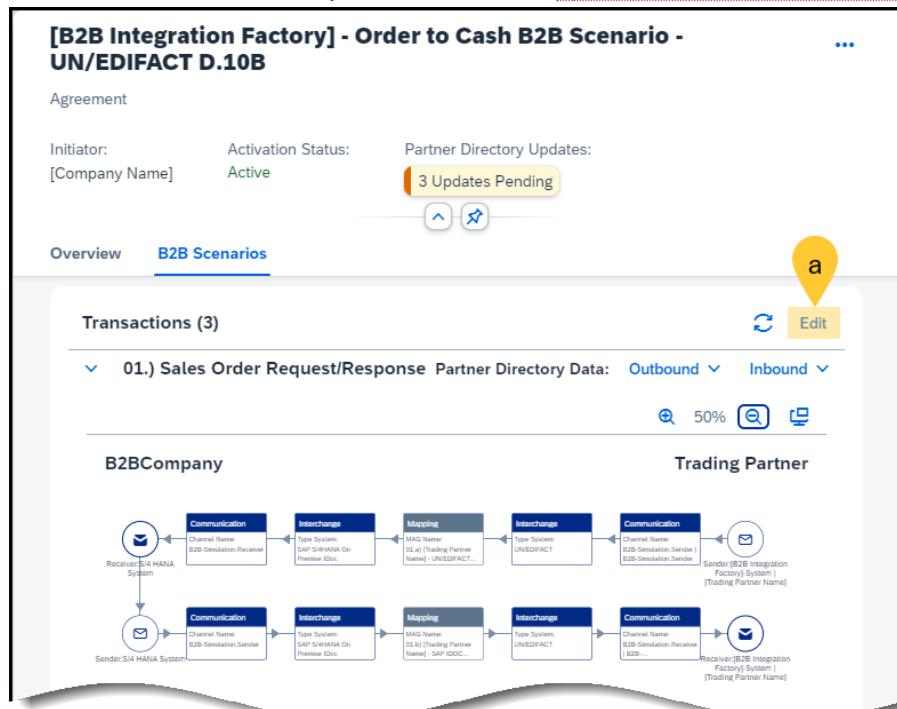
In the occurring pop-up Window a valid configuration of a ICN_DEFAULT Number Range object should be maintained. It is suggested to create Number Range objects for every used Type System.

Add Number Range

Name: *	<input type="text"/>
Description:	<input type="text"/>
Minimum Value: *	<input type="text"/>
Maximum Value: *	<input type="text"/>
Field Length:	<input type="text"/> 0
<input type="checkbox"/> Rotate	
OK Cancel	

After the Number Range object has been created it has to be maintained in the B2B Scenarios. Navigate to Design > B2B Scenarios > Agreements and choose the configured company agreement and choose B2B Scenarios. Now you have to click on the **a) Edit Button** on Transaction Level:

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After enabling the edit mode, you have to click on the Interchange Artefact in the transaction and scroll down to the Interchange settings. There will be a dropdown where a a) Number Range can be configured. The Number Range Object for this Type System or ICN_DEFAULT should be selected.

Interchange Settings

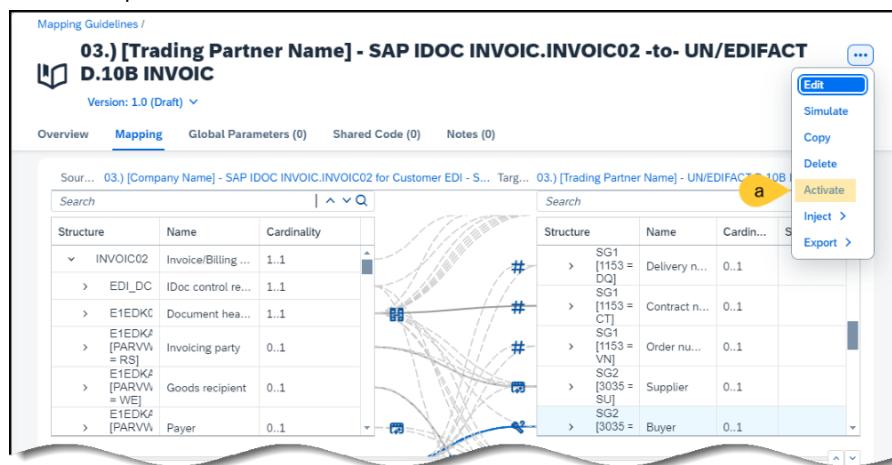
Details	Custom Integration Flow
Type System: SAP S/4HANA On Premise IDoc	Customized Post-Processing: <input type="checkbox"/>
Type System Version: 755	Process Direct Address:
Message Implementation Guideline (MIG): 01.a) [Company Name] - SAP IDOC ORDE... <input type="button" value=""/>	
MIG Version: 1.0	
MIG Status: Draft	
Message Type: ORDERS.ORDERS05	
Number Range: ICN_DEFAULT	a

Activation, Testing and set final TPAs

The following chapters deal with activating and testing the pre-packaged contents. To carry out an initial internal test, the content can be activated and tested using the Insomnia collection. The pre-configured communication channels B2B-Simulation.Sender and B2B-Simulation.Receiver are used for this. After a successful test, the content can be deactivated again. The company and trading partner communication channels can then be configured as required (e.g. IDOC.Sender or AS2.Sender) and then reactivated. If the communication of this trading partner works, it can be used for other trading partners. After creating or copying, only the final communications need to be set accordingly in the Business Transaction Activities (BTAs).

How to activate

To ensure the configuration which you have imported can be pushed to the partner directory, the following activation process must be done before you processing. Navigate to Design > MAGs and click on the three button on the top right corner. You can a.) activate the Mapping Guideline which you imported before. The version of the MAG would be updated from draft to active.



Now, you can active the Agreement which you've imported it. Navigate to the B2B Scenarios again and find the Agreement, a.) Click on Active and push the TPA into the partner directory. If you finish the activation process, it is ready for you to proceed the test now.

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The screenshot shows the SAP Business Accelerator Hub interface. On the left, the 'Trading Partner Management' screen is visible, showing a list of agreements under the 'Agreements' tab. One agreement is selected: '[B2B Integration Factory] - Order to Cash B2B Scenario - UN/EDIFACT D.10B'. On the right, a detailed view of this agreement is shown. A yellow circle labeled 'a' points to the 'Activate' button in a context menu that appears when clicking on the three-dot ellipsis icon. The detailed view includes sections for 'Overview' and 'B2B Scenarios', and an 'Agreement Overview' section with a 'Detail' table.

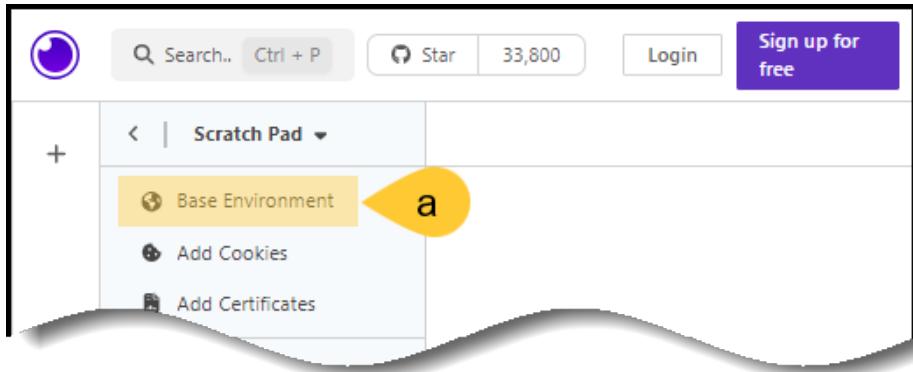
How to test using the Insomnia collection/postman collection

In order to test transactions using Insomnia REST Client, follow the steps below:

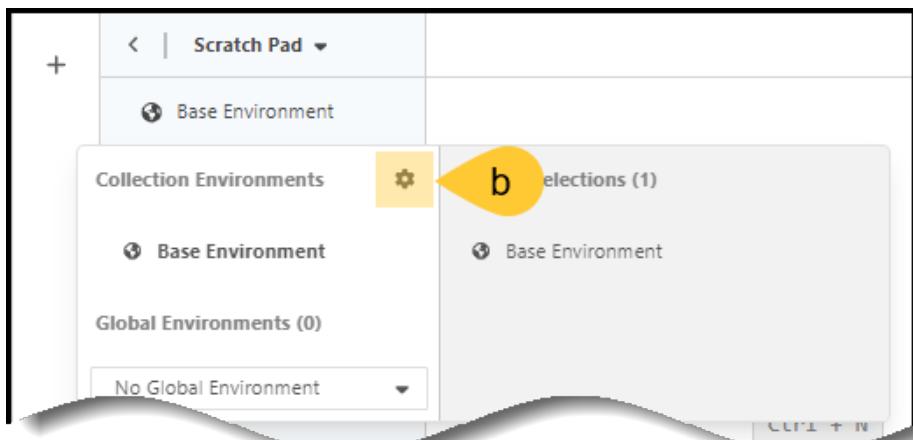
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1. Install Insomnia: If you haven't already installed Insomnia, download it from the official website and install it on your machine.
2. Download Insomnia collection: Download the insomnia collection from the document tab of the SAP Business Accelerator Hub and import it in your insomnia.
3. Create base environment: To create a base environment in Insomnia collection, follow the steps below:

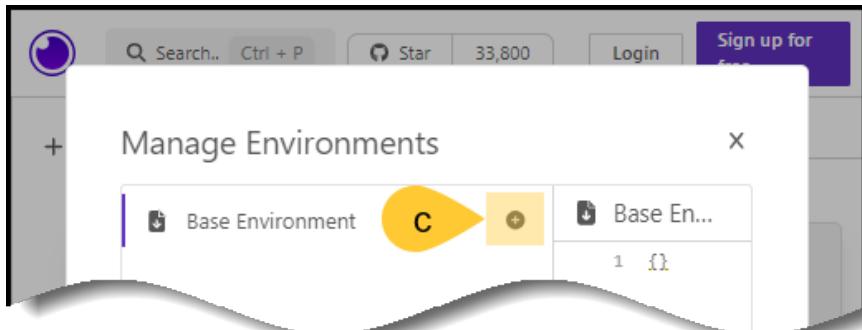
a.) Click on the icon for Base Environment.



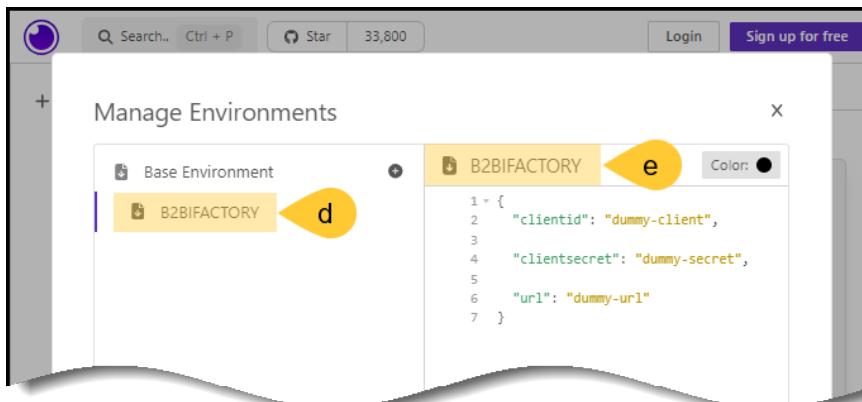
b.) Click on the settings icon (as seen in below screenshot) and a new window Manage Environment opens.



c.) Click on the plus sign to create new environment. In Manage Environments window.



d.) Give a meaningful name to the new environment. You will then be taken to the JSON environment editor. By default, the base environment will be empty, simply {}



e.) The base environment, you can add variables in a key; value format. You could set up a variables for your base URL and clientid and clientsecret.

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4. Save: Once you have added the necessary variables, click 'Done' to close the Manage Environments window.

Your base environment has now been activated and any requests you make will use the variables defined in this environment.

Please remember, the Base Environment is active across all of your environments. So, if you activate another environment, the Base will still be active. In case you want to override a variable from the base environment, you can do so by declaring it in the sub environment.

5. Headers: For inbound transaction such as Purchase Order Request following headers are maintained:

```
type-system: UN-EDIFACT  
communication_protocol: Process_Direct  
message_content_type: application/EDIFACT
```

Header	Value
Accept	*/*
Host	<calculated at runtime>
Content-Type	text/plain
User-Agent	insomnia/9.0.0
type_system	UN-EDIFACT
communication_protocol	Process_Direct
message_content_type	application/EDIFACT

For a.) Outbound transactions such as Invoice, DeliveryNotification, Purchase Order Response following b.) headers are maintained:

```
type-system: SAP_IDoc  
communication_protocol: IDOC  
message_content_type: application/XML
```

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Scratch Pad

GET `_url /http/tpm/b2b/simulate`

Params Body Auth Headers **7** Scripts Docs

+ Add Delete all Description

Accept `*/*`
Host `<calculated at runtime>`
Content-Type `text/plain`
User-Agent `insomnia/9.0.0`
type_system `UN-EDIFACT`
communication_protocol `Process_Direct`
message_content_type `application/EDIFACT`

Send

- Send a request: By clicking 'Send' you will submit the request to the server.

Scratch Pad

GET `_url /http/tpm/b2b/simulate`

Params Body Auth Headers **7** Scripts Docs

+ Add Delete all Description

Accept `*/*`
Host `<calculated at runtime>`
Content-Type `text/plain`
User-Agent `insomnia/9.0.0`
type_system `UN-EDIFACT`
communication_protocol `Process_Direct`
message_content_type `application/EDIFACT`

Send

- Check the response: After making the request, Insomnia will display the server's response below. Check the returned status code, headers, and the body of the response for validation. If the returned status code is a) 200 OK, it's success.

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Successful Result for Purchase Order Request - Inbound

Scratch Pad ▾ GET ↴ `http://tpm/` Send ↴ 200 OK 1631 1 Minute Ago

Params Body Auth Headers 7 Preview Headers 14 Cookies Tim

+ Add Delete all Description

Accept */*

Host <calculate>

Content-T text/plain ✓

User-Agent insomnia/ ✓

type_system UN-EDIFA ✓

communi Process_D ✓

message_ applicatio ✓

```

1  <?xml version="1.0" encoding="UTF-8"?
2  <ORDERS05>
3  <IDOC BEGIN="1">
4  <EDI_DC40 SEGMENT="1">
5  <TABNAM>EDI_DC40</TABNAM>
6  <DIRECT></DIRECT>
7  <TEST></TEST>
8  <IDOC><ORDERS05></IDOC>
9  <MESTYP>ORDERS</MESTYP>
10 <MESFCT>B2B</MESFCT>
11 <STD>E</STD>
12 <SNDFRNL>TP_IDOC_ID</SNDFRNL>
13 <RCVPRN>Company_IDOC_ID</RCVPRN>
14 <EDI_DC40>
15 <E1EDK01 SEGMENT="1">
16 <BSTD>
17 </E1EDK01>
18 <E1EDK03 SEGMENT="1">
19 <IDDAT>022</IDDAT>
20 <DATUM>20240311</DATUM>

```

Successful Result for Invoice -Outbound

Scratch Pad ▾ GET ↴ `http://tpm/` Send ↴ 200 OK 1397 B Just Now

Params Body Auth Headers 7 Preview Headers 14 Cookies Tim

+ Add Delete all Description

Accept */*

Host <calculate>

Content-T applicatio ✓

User-Agent insomnia/ ✓

type_system SAP_IDoc ✓

communi IDOC ✓

message_ applicatio ✓

```

1  UNB+UNOC:3+Company_UNEDIFACT_ID:ZZZ+TP_
UNEDIFACT_ID:ZZZ+240730:1249+1232+UNH+
+INVOIC:D:D:108:UN:EAN008'BGM+INVO+0123
456789+9*DTH+137:20230907:102'DTM+35:20
230907:102'DTM+3:20230907:102'DTM+356:2
0230824:102'PAI++1:42'FTX+AAZ+4'FTX+OSI'
FTX+ABN'FTX+SUR'FTX+ALC'RFF+ON:1DFYVNGW
'DTH+171:20230824:102'RFF+ON:0000433686
'DTH+171:20230907:102'RFF+CT:1'RFF+VN:2
000321116'DTH+171:20230824:102'NAD+SU+9
876543210:9++828Company+Dummy Street
1+Dummy City++01234
DMY-NL'FII+R8+DMY9876543210
DMY9876543210 DMY0123456789
DMY0123456789 DMY0123456789
DMY01213456789 DMY0123456789
DMY0123456789
DMY0123456789'RFF+ALV:0123456789'RFF+VA
:0123456789'NAD+BY+5450534000024:+9+Du
mmy TP:UK Dummy City+1 Dummy
Street+dummy
+ND+0123456+GB'RFF+VA'NAD+IV+01234
+TP:UK Dummy City+1

```

8. B2B Monitoring: After the successful response in insomnia , you can navigate to a.) Monitor >b.) B2B Scenarios and you will find the entry of the c.) Completed transactions.

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How to copy?

After your successful test, [you can also leverage this content for your other trading partners and their related mapping](#). Copying the existing MAG allows you to quickly set up new guidelines for other trading partners without starting from scratch. Go to the Design Section and the MAGs, the option a.) Click on

This action will generate a duplicate of the selected MAG with a suffix indicating it is a copy (e.g., MAGName_Copy).

Deleted: you are also able to take advantage of these contents for your other trading partners and its related mapping...

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Follow the procedure of creating the new trading partner profile in 'How to finally configure' to create the Trading Partner Agreement with the Template. Go to Agreement Creation Mode a.) Copy from Template and choose the Transactions you need for the Trading Partner Agreement. Finally, select the b.) Trading Partner you've just added. Based on the template, you can easily create additional Trading Partner Agreements for other Trading Partners.

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< Select Transactions and Trading Partner for B2B Integration Factory - Order to Cash B2B Scenario

Agreement Creation Mode

Copy from Template i a

Bind with Template i

Transactions (3)

Name	Initiator	Reactor
<input checked="" type="checkbox"/> 01.) Sales Order Request/Response	-	-
<input checked="" type="checkbox"/> 02.) Delivery Notification	[Company Name]	-
<input checked="" type="checkbox"/> 03.) Invoice	[Company Name]	-

Select Trading Partner

Name: [Trading Partner Name] b

Open Draft Cancel