



## B2B Integration Factory

# Prepackaged B2B Integration Content – Order to Cash

July 2022

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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.

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.

# 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:

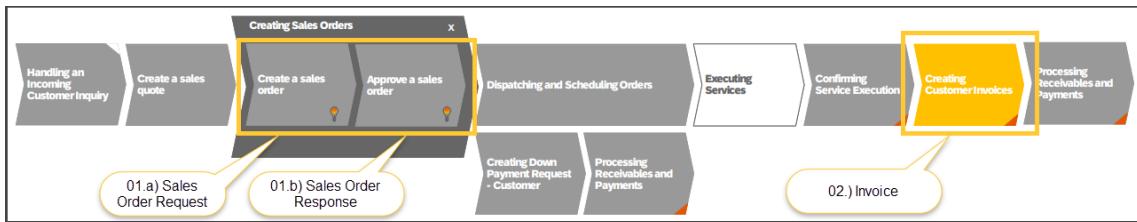
- UN/EDIFACT
  - o D.01B
  - o D.10B
  - o D.93A
  - o D.96A
- ASC X12
  - o V04010
  - o V05010
  - o V07010
- TRADACOMS
  - o 4
  - o 9

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.

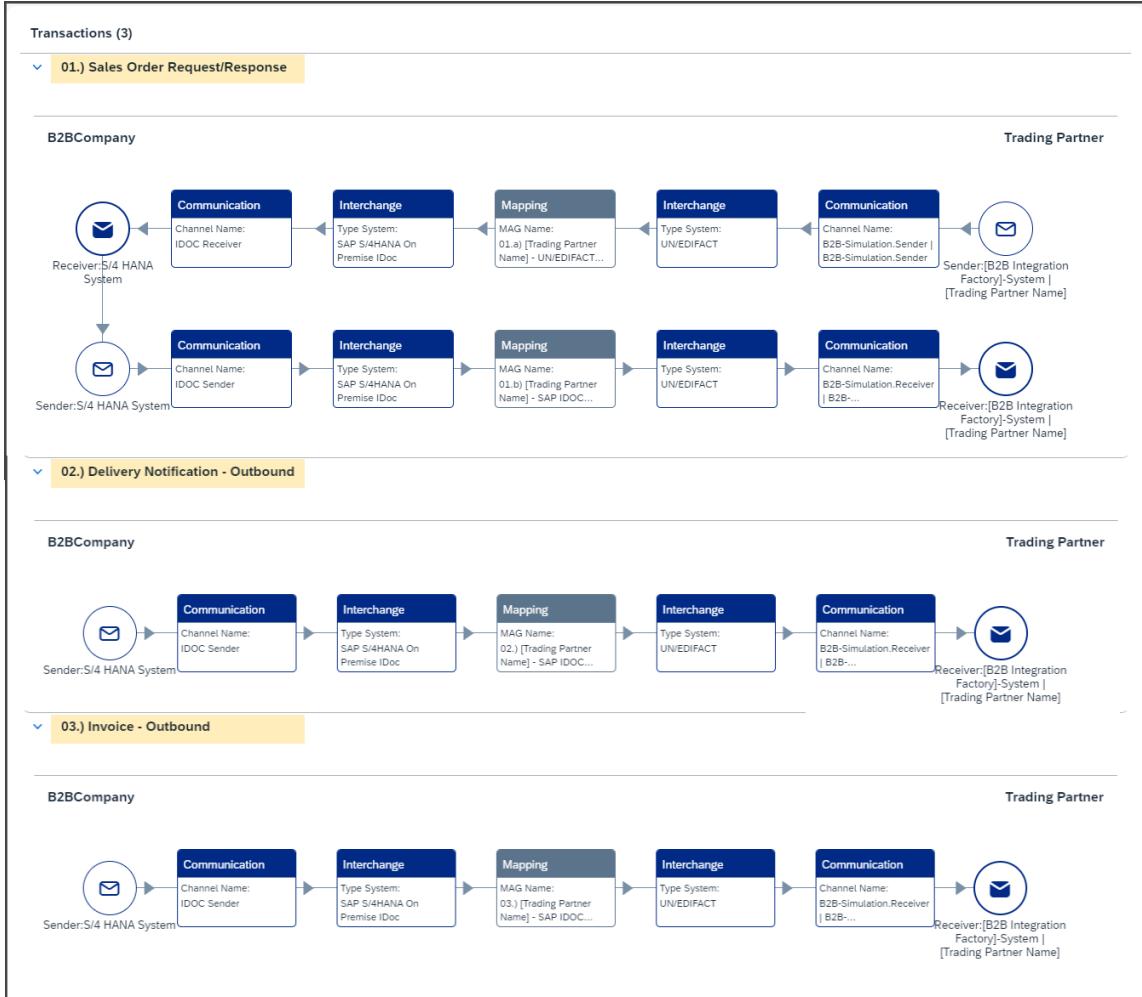
Customer-specific MIGs (Message Implementation Guidelines) and MAGs (Message Application Guidelines) will later feed into a knowledge graph to simplify the creation of additional content. This enables a continuously growing body of knowledge, strengthened by the community effect. By activating artifacts,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

## 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.

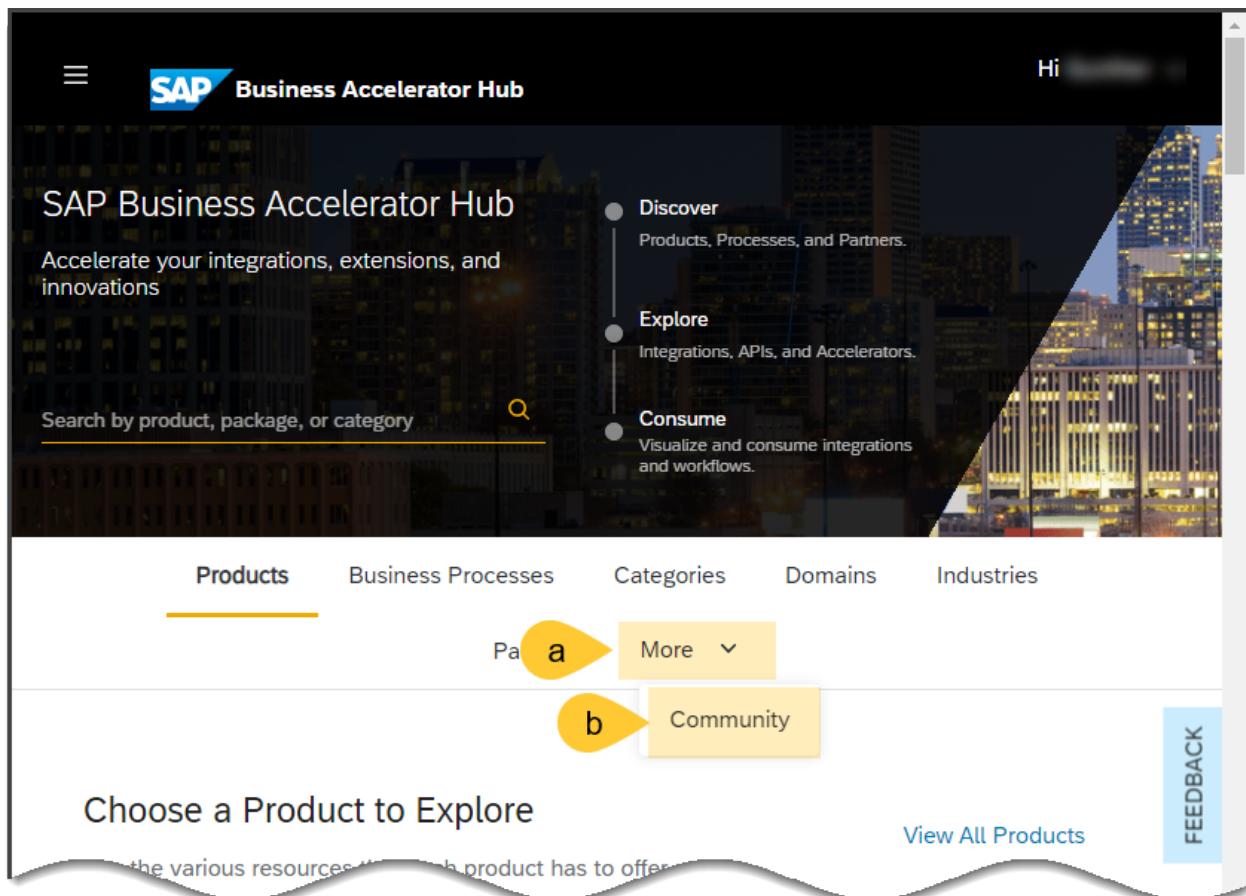
You should download all the B2B Integration Factory packages that are listed in chapter List of Integration Packages.

# 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 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

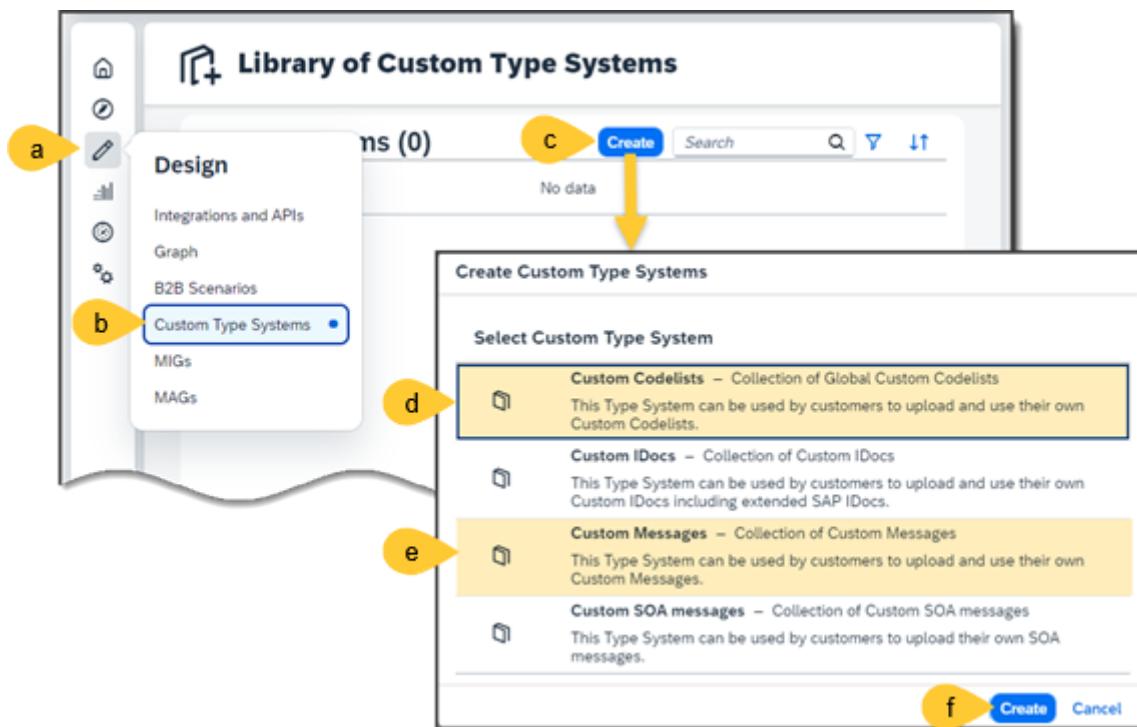
Quite important: You should import the MAGs first and then the TPA (Trading Partner Agreement)

## 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.



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



## Library of Custom Type Systems

### Type Systems (2)

[Create](#)

Search



#### Custom Codelists – Collection of Global Custom Codelists

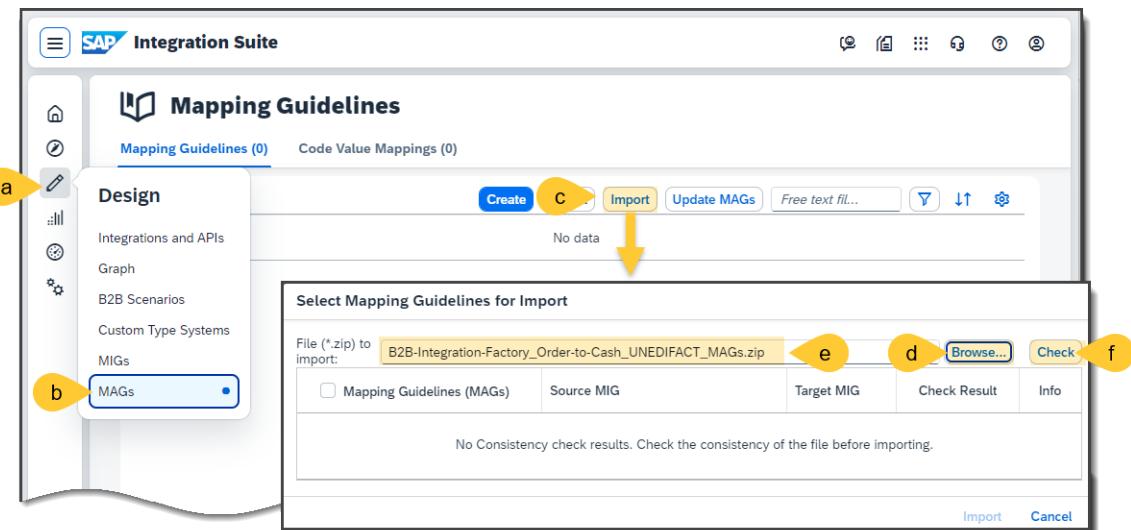
This Type System can be used by customers to upload and use their own Custom Codelists.

#### Custom Messages – Collection of Custom Messages

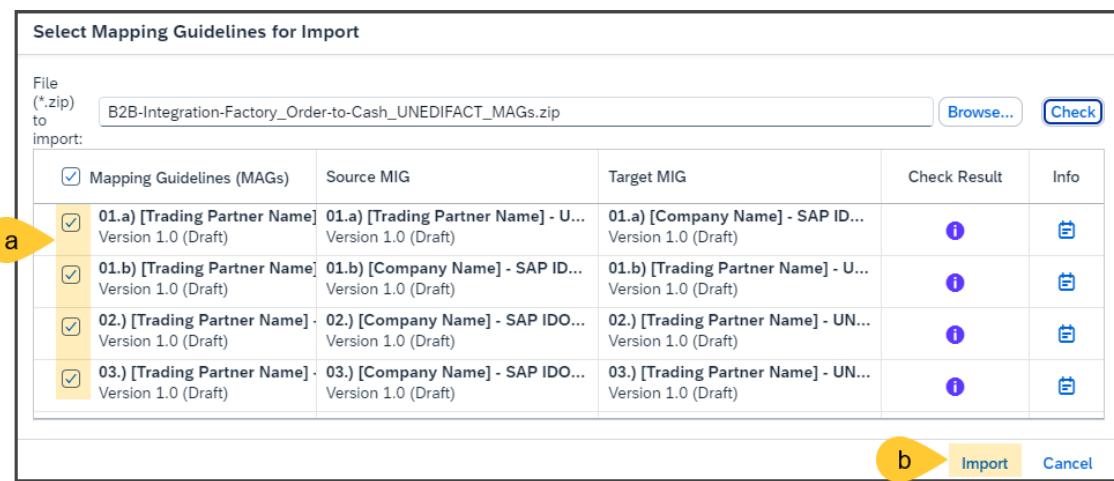
This Type System can be used by customers to upload and use their own Custom Messages.

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!



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.

## Select Mapping Guidelines for Import

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

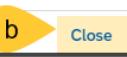
**i** Select the Stop button to stop processing the objects in the queue. However, objects that are currently processed will complete their processing.

**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] - SAP Version 1.0 (Draft)	03.) [Company Name] - SAP IDO... Version 1.0 (Draft)	03.) [Trading Partner Name] - UN... Version 1.0 (Draft)		

**a** 

**b** 

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



## Mapping Guidelines

Mapping Guidelines (4)

Code Value Mappings (0)

[Create](#) [Export](#) [Import](#) [Update MAGs](#) [Free text f...](#)

01.a)  
[Trading  
Partner  
Name] -  
UN/EDIFA  
CT.D.10B  
ORDERS  
-to- SAP  
IDOC  
ORDERS.  
ORDERS  
05

	Source	Target	
MIG Name:	01.a) [Trading Partner N...	01.a) [Company Name] ...	Draft Version: 1.0
Message Type:	ORDERS – Purchase or...	ORDERS.ORDERS05 – ...	<a href="#">History</a>
Type System:	UN/EDIFACT	SAP S/4HANA On Premi...	
Type System Version:	D.10B S3	1809 FPS02	



...

01.b)  
[Trading  
Partner  
Name] -  
SAP  
IDOC  
ORDRSP.  
ORDERS  
05 -to-  
UN/EDIFA  
CT.D.10B  
ORDRSP

	Source	Target	
MIG Name:	01.b) [Company Name] ...	01.b) [Trading Partner N...	UID-585506
Message Type:	ORDRSP.ORDERS05 – ...	ORDRSP – Purchase or...	6ce2-4984
Type System:	SAP S/4HANA On Premi...	UN/EDIFACT	<a href="#">History</a>
Type System Version:	1809 FPS02	D.10B S3	4063d054b7



...

02.)  
[Trading  
Partner  
Name] -  
SAP  
IDOC  
DESADV.  
DELVRY0  
7 -to-  
UN/EDIFA  
CT.D.10B  
DESADV

	Source	Target	
MIG Name:	02.) [Company Name] - ...	02.) [Trading Partner Na...	UID-5a40c206
Message Type:	DESADV.DELVRY07 – D...	undefinedDespatch advi...	435f-4f7a-
Type System:	SAP S/4HANA On Premi...	UN/EDIFACT	<a href="#">History</a>
Type System Version:	1809 FPS02	D.10B S3	a370-1b81181597



...

03.)  
[Trading  
Partner  
Name] -  
SAP  
IDOC  
INVOIC.I  
INVOIC02  
-to-  
UN/EDIFA  
CT.D.10B  
INVOIC

	Source	Target	
MIG Name:	03.) [Company Name] - ...	03.) [Trading Partner Na...	03.) [Trad
Message Type:	INVOIC.INVOIC02 – Inv...	INVOIC – Invoice messa...	Partner Nar
Type System:	SAP S/4HANA On Premi...	UN/EDIFACT	SAP IDO
Type System Version:	1809 FPS02	D.10B S3	INVOIC.INV



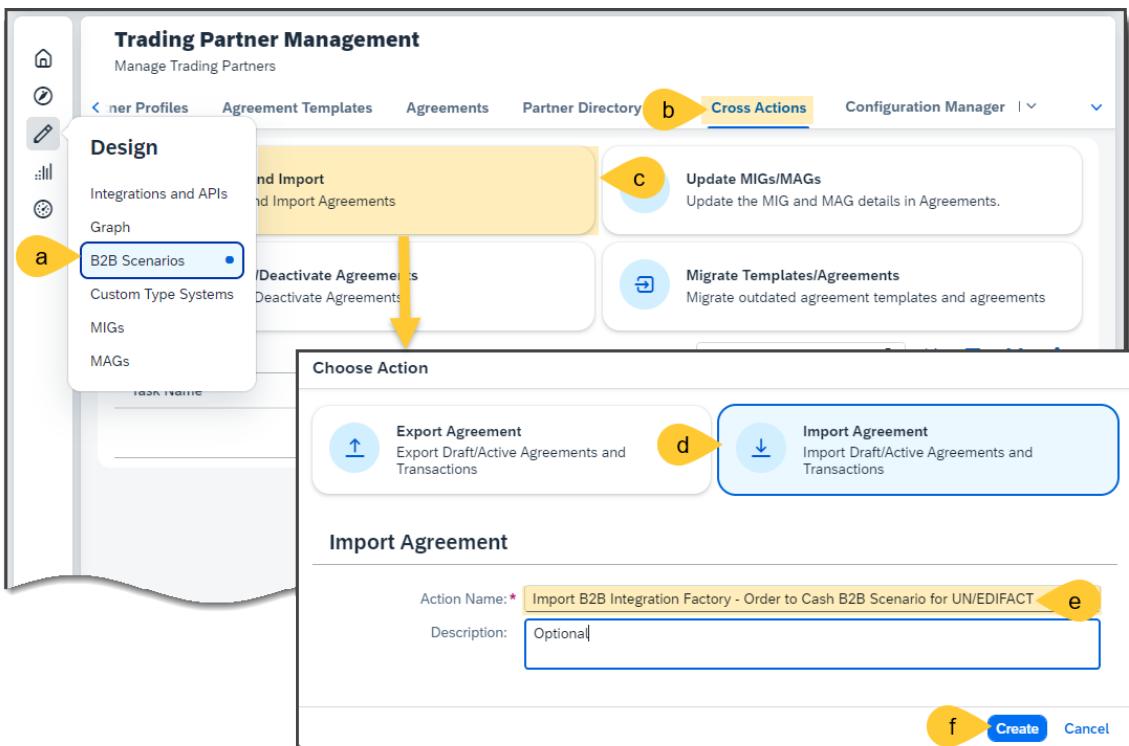
...

## 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.

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 und click on the f.) Create button.



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

### Select Agreements

**Info** The maximum number of agreements is 300.

File to import:  **Browse...** 

### Configure Import Options

**Info** 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="text" value="Create or Overwrite"/> 
Identifier Groups:	<input type="text" value="Create or Overwrite"/> 
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="text" value="Create or Overwrite"/> 
Parameters:	<input type="text" value="Create or Overwrite"/> 
Activity Parameters:	<input type="text" value="Create or Overwrite"/> 
Security:	<input type="text" value="Create or Overwrite"/> 
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

 **Import** [Cancel](#)

**Trading Partner Management**

Manage Trading Partners

Partner 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)**

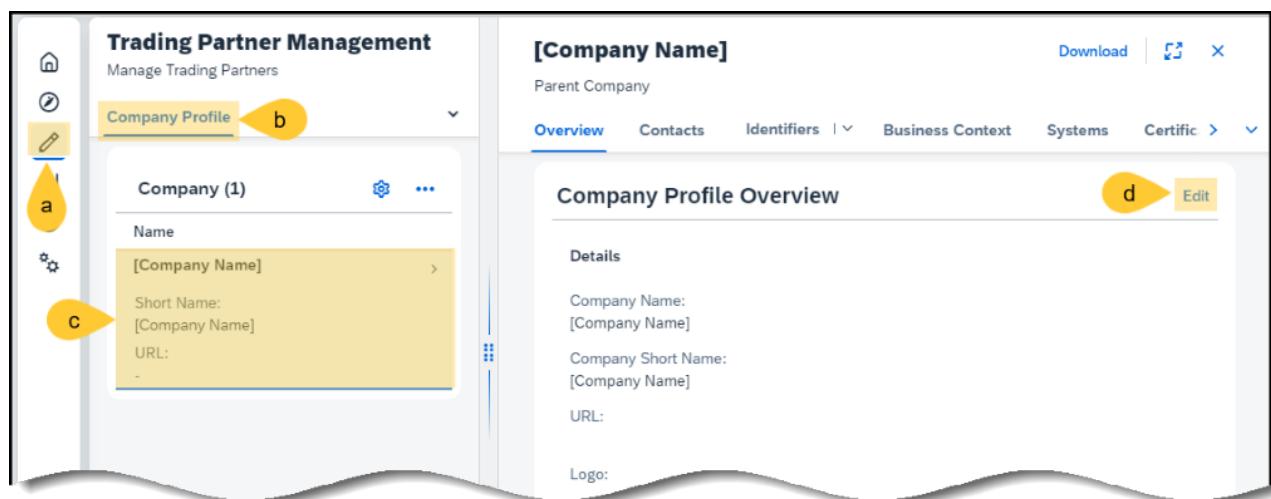
Task Name	Description	Action Type	Status	Actions
Import Agreement	Import B2B Integration Factory - Order to Cash B2B Scenario for UN/EDIFACT	Optional	Import Agreement	 Completed
Created On:	July 26, 2024, 4:39:07 PM GMTZ			 >

# 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.

**[Company Name]**

Parent Company

Overview   Co **a** Identifiers | Business Context   Systems   Certificates   Parameters   Security   Nt > <

Search

Single Identifiers (2) **b**

Identification	Alias	Actions
<input type="checkbox"/> Company_IDOC_ID	Company_IDOC_ID	
Type System: SAP_IDoc Scheme Name: N/A Scheme Code: N/A Agency Name: Agency Code:		
<input type="checkbox"/> Company_UNEDIFACT_ID	Company_UNEDIFACT_ID	
Type System: UNEDIFACT Scheme Name: Mutually defined Scheme Code: ZZZ Agency Name: Agency Code:		

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.

**[Company Name]**

Parent Company

Download

Systems **a**

Systems (1)

Name	Alias	...
S/4 HANA System	S/4 HANA System	>

**b**

**S/4 HANA System**

Type Systems **c** Communications **d**

Selected Type Systems

Name	Version	Create
ASC X12	004010	
SAP S/4HANA On Premise SOAP	1905	
SAP S/4HANA On Premise IDoc	755	
		1809_FPS02

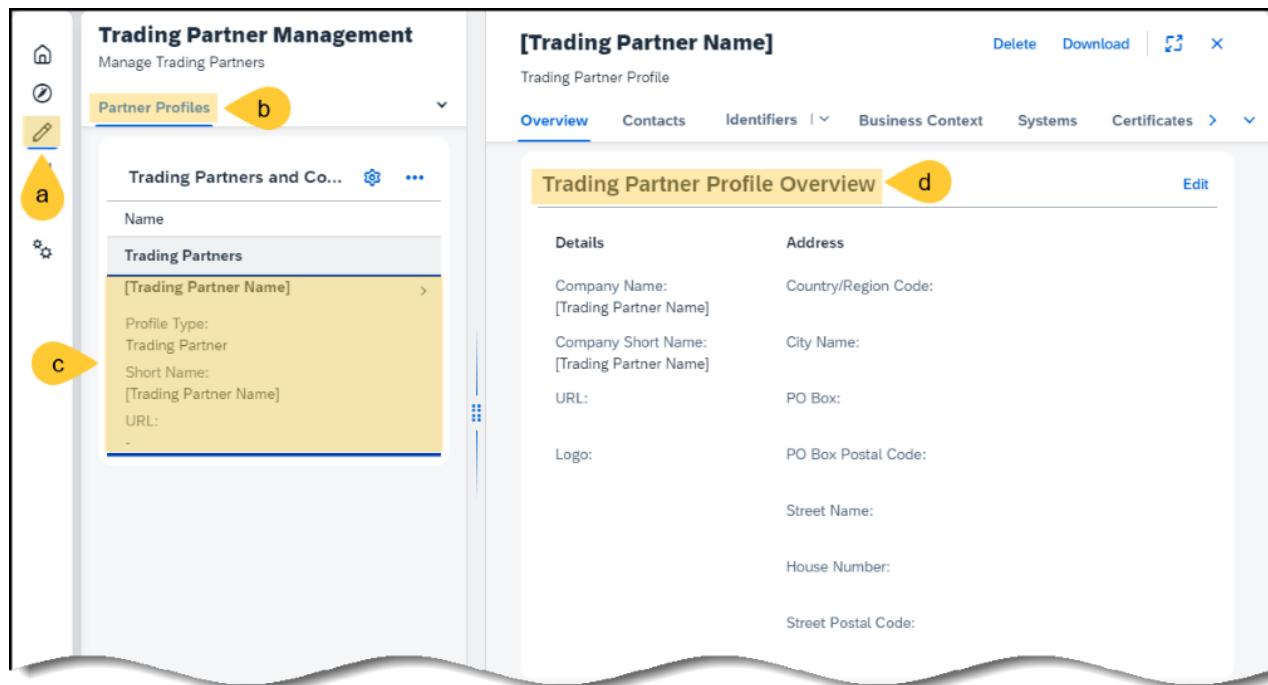
Under a.) Systems, a b.) business system must be created with the internally used c.) type system in its agreed version and the d.) communication channels. Dummy parameters are provided in the pre-packaged content for orientation.

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.

[Trading Partner Name]

Delete Download  

Trading Partner Profile

**a** **b**

Single Identifiers (2)

Search 

Create Delete  

<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.

The screenshot shows two main panels. On the left, under 'Trading Partner Name' [Trading Partner Name], there's a 'Systems' tab (a) which is selected. It lists 'Systems (1)' with a table showing 'Name' and 'Alias'. One entry is '[B2B Integration Factory]-System'. On the right, under '[B2B Integration Factory]-System', the 'Communications' tab (c) is selected. It shows 'Communications (2)' with a table for 'Name', 'Alias', 'Description', 'Direction', 'Adapter', and 'Action'. Two entries are listed: 'B2B-Simulation...' (Receiver, Process\_Direct) and 'B2B-Simulation...' (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.

## 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 two panels. On the left, under 'Trading Partner Management', the 'Agreements' tab (a) is selected. It lists 'Agreements (1)' with a table for 'Name'. One entry is '[B2B Integration Factory] - Order to Cash B2B Scenario - UN/EDIFACT D.10B'. Below this, there are sections for '3 Transaction Flows', 'Initiator: [Company Name]', 'Reactor: [Trading Partner Name]', and 'Status: Draft'. On the right, under '[B2B Integration Factory] - Order to Cash B2B Scenario - UN/EDIFACT D.10B', the 'Overview' tab (c) is selected. It shows 'Agreement Overview' with fields for 'Initiator: [Company Name]', 'Activation Status: Draft', and 'Partner Directory Updates: No Updates'. Below this is the 'Detail' section with fields for 'Name: [B2B Integration Factory] - Order to Cash B2B Scenario - UN/EDIFACT D.10B', 'Creation Mode: Copied from Template', and 'Source Agreement Template: B2B Integration Factory - Order to Cash B2B Scenario for UN/EDIFACT - Template'.

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

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.

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

The screenshot shows the SAP Trading Partner Management interface. The top navigation bar includes 'Agreements' (which is highlighted in blue), 'Partner Directory Data', 'Cross Actions', 'Configuration', and a dropdown menu. Below the navigation is a search bar and a 'Create' button, which is highlighted with a yellow circle and labeled 'a'. The main content area displays a table titled 'Agreements (1)'. The table has two columns: 'Name' and 'Initiator'. The single entry in the table is '[B2B Integration Factory] - Order to Cash B2B Scenario - UN/EDIFACT D.10B' under 'Name' and '[Company Name]' under 'Initiator'. Below the table, there are fields for 'Reactor:' containing '[Trading Partner Name]' and 'Status:' containing 'Draft'.

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

The screenshot shows a dialog box titled 'Select Agreement Template'. At the top is a 'Search' bar with a magnifying glass icon. Below it is a table with four columns: 'Name', 'Reactor System', 'Type System', and 'Type System Version'. The table contains one row of data: 'B2B Integration Factory - Order to Cash B2B Scenario for UN/EDIFACT - Template', 'S/4 HANA System', 'SAP S/4HANA On Premise IDoc', and '755'. At the bottom right of the dialog are 'Next' and 'Cancel' buttons.

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

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

### 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] (v) 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.

**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**

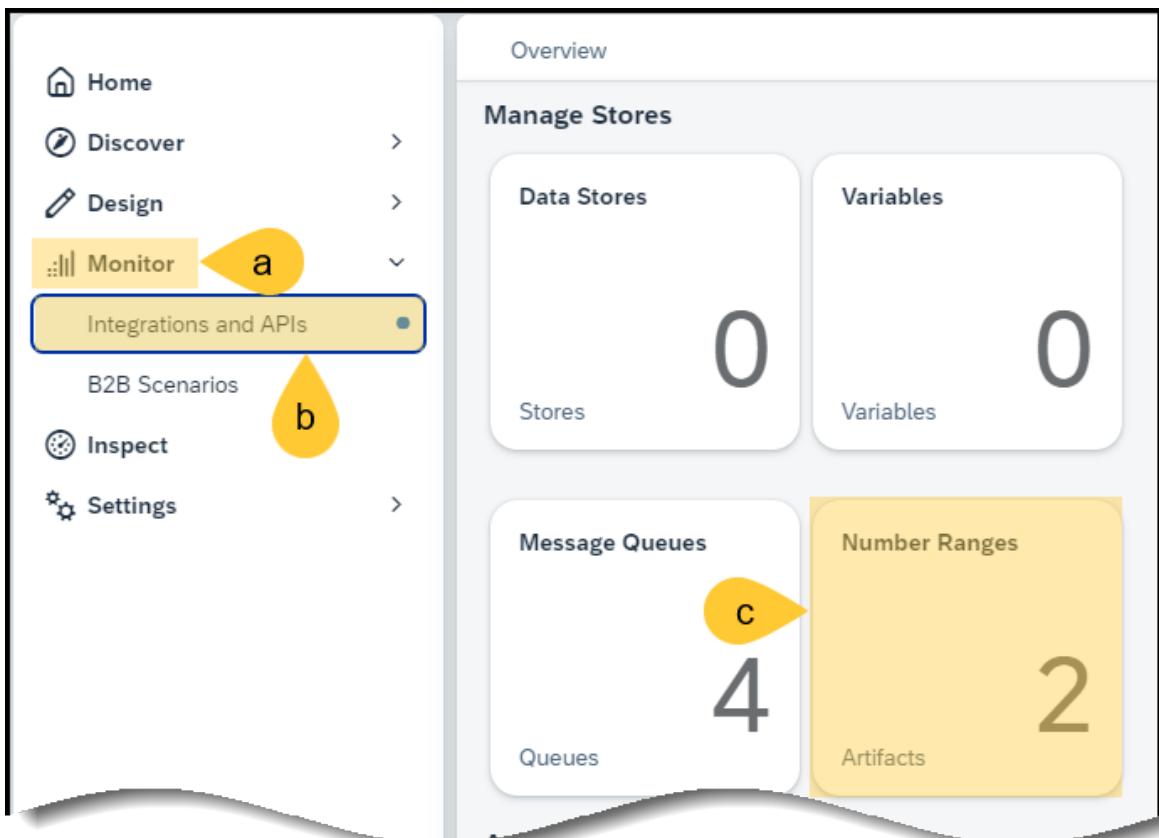
### Agreement Overview

Detail	My Company Details	Trading Partner Details
Name:*	Name: [Company Name]	Name: [Trading Partner Name]
Source Agreement Template:	System: S/4 HANA System	System:
Description:	Purpose: TEST	Purpose: -
Version:	Type System: SAP S/4HANA On Pre... Type System Version: 755 Identifier in Company Type System: Company_IDOC_ID	Type System: 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:



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

Number Ranges (2)							<a href="#">Add</a>	<a href="#">Edit</a>	<a href="#">Undeploy</a>		
Name	Minimum Value	Maximum Value	Next Value	Field Length	Deployed By	Deployed On					
ICN_UNE DIFACT	0	99999999 999999	6	0			<input checked="" type="checkbox"/>				
ICN_DEFA ULT	0	99999999	00000000 5	9			<input checked="" type="checkbox"/>				

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" value="0"/>
<input type="checkbox"/> Rotate	
<b>OK</b> <b>Cancel</b>	

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:

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

...  
Agreement  
Initiator: [Company Name] Activation Status: Active Partner Directory Updates: 3 Updates Pending  
Overview B2B Scenarios  
Transactions (3)  
Edit  
a  
▼ 01.) Sales Order Request/Response Partner Directory Data: Outbound ▾ Inbound ▾  
50%  
B2BCompany Trading Partner  

```

graph TD
    subgraph B2BCompany [B2BCompany]
        direction TB
        C1[Communication Channel Name: B2B-Simulation Receiver] --> I1[Interchange Type System: SAP S/4HANA On Premise IDoc]
        I1 --> M1[Mapping MAG Name: 01.a | Trading Partner Name - UN/EDIFACT...]
        M1 --> I2[Interchange Type System: UN/EDIFACT]
    end
    subgraph TradingPartner [Trading Partner]
        direction TB
        I2 --> M2[Mapping MAG Name: 01.b | Trading Partner Name - SAP IDOC...]
        M2 --> C2[Communication Channel Name: B2B-Simulation Sender]
    end
    C1 --> I1
    I1 --> M1
    M1 --> I2
    I2 --> M2
    M2 --> C2

```

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.) 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: <input type="text"/>
Message Implementation Guideline (MIG): 01.a) [Company Name] - SAP IDOC ORDE... 	
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.

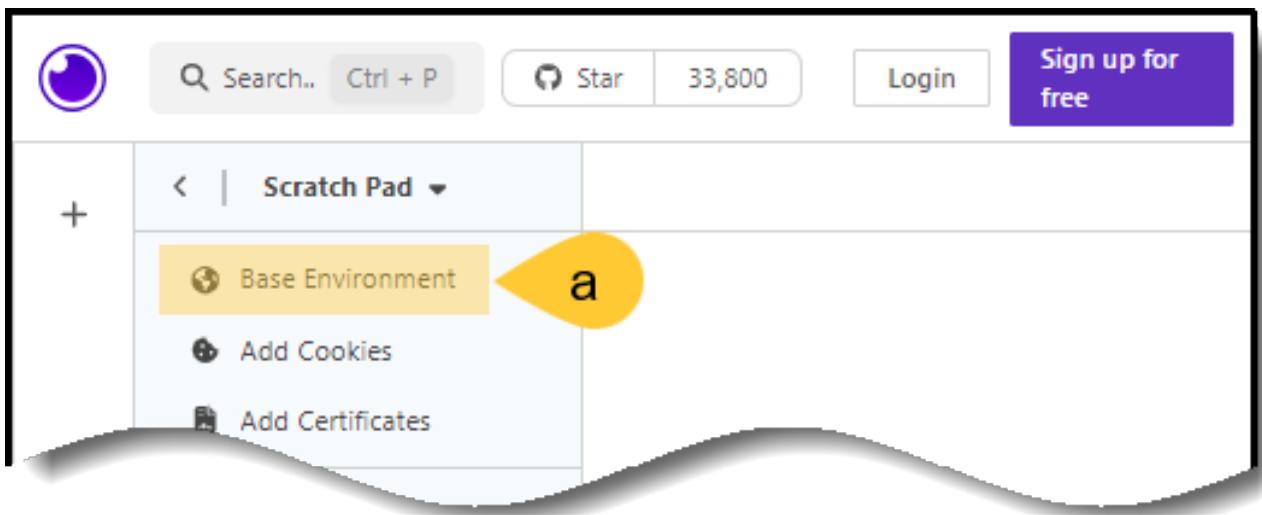
The screenshot shows the SAP B2B Integration interface for a Mapping Guideline titled "03.) [Trading Partner Name] - SAP IDOC INVOIC.INVOIC02 -to- UN/EDIFACT D.10B INVOIC". The "Mapping" tab is selected. On the right, a context menu is open with options: Edit, Simulate, Copy, Delete, Activate (highlighted with a yellow arrow), Inject >, and Export >. The "Activate" option is located under the "Edit" section. The main area displays two tables: one for the source structure (INVOIC02) and one for the target structure (D.10B INVOIC). They are connected by various mapping lines, some of which are highlighted with blue boxes and numbers (#1, #2, #3, #4, #5, #6, #7, #8, #9, #10, #11, #12, #13, #14, #15, #16, #17, #18, #19, #20, #21, #22, #23, #24, #25, #26, #27, #28, #29, #30, #31, #32, #33, #34, #35, #36, #37, #38, #39, #40, #41, #42, #43, #44, #45, #46, #47, #48, #49, #50, #51, #52, #53, #54, #55, #56, #57, #58, #59, #60, #61, #62, #63, #64, #65, #66, #67, #68, #69, #70, #71, #72, #73, #74, #75, #76, #77, #78, #79, #80, #81, #82, #83, #84, #85, #86, #87, #88, #89, #90, #91, #92, #93, #94, #95, #96, #97, #98, #99, #100, #101, #102, #103, #104, #105, #106, #107, #108, #109, #110, #111, #112, #113, #114, #115, #116, #117, #118, #119, #120, #121, #122, #123, #124, #125, #126, #127, #128, #129, #130, #131, #132, #133, #134, #135, #136, #137, #138, #139, #140, #141, #142, #143, #144, #145, #146, #147, #148, #149, #150, #151, #152, #153, #154, #155, #156, #157, #158, #159, #160, #161, #162, #163, #164, #165, #166, #167, #168, #169, #170, #171, #172, #173, #174, #175, #176, #177, #178, #179, #180, #181, #182, #183, #184, #185, #186, #187, #188, #189, #190, #191, #192, #193, #194, #195, #196, #197, #198, #199, #200, #201, #202, #203, #204, #205, #206, #207, #208, #209, #210, #211, #212, #213, #214, #215, #216, #217, #218, #219, #220, #221, #222, #223, #224, #225, #226, #227, #228, #229, #230, #231, #232, #233, #234, #235, #236, #237, #238, #239, #240, #241, #242, #243, #244, #245, #246, #247, #248, #249, #250, #251, #252, #253, #254, #255, #256, #257, #258, #259, #260, #261, #262, #263, #264, #265, #266, #267, #268, #269, #270, #271, #272, #273, #274, #275, #276, #277, #278, #279, #280, #281, #282, #283, #284, #285, #286, #287, #288, #289, #290, #291, #292, #293, #294, #295, #296, #297, #298, #299, #300, #301, #302, #303, #304, #305, #306, #307, #308, #309, #310, #311, #312, #313, #314, #315, #316, #317, #318, #319, #320, #321, #322, #323, #324, #325, #326, #327, #328, #329, #330, #331, #332, #333, 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The screenshot shows two main panels. On the left, the 'Trading Partner Management' section displays a list of agreements, with one specific entry highlighted: '[B2B Integration Factory] - Order to Cash B2B Scenario - UN/EDIFACT D.10B'. This entry includes details like 'Initiator: [Company Name]', 'Activation Status: Draft', and 'Partner Directory Update: No Updates'. On the right, the 'B2B Integration Factory' section provides an 'Agreement Overview' for the same scenario. It shows the 'Detail' section with the name '[B2B Integration Factory] - Order to Cash B2B Scenario - UN/EDIFACT D.10B' and 'Creation Mode: Copied from Template'. A context menu is open on the right side of the right panel, with the 'Activate' option highlighted by a yellow circle labeled 'a'.

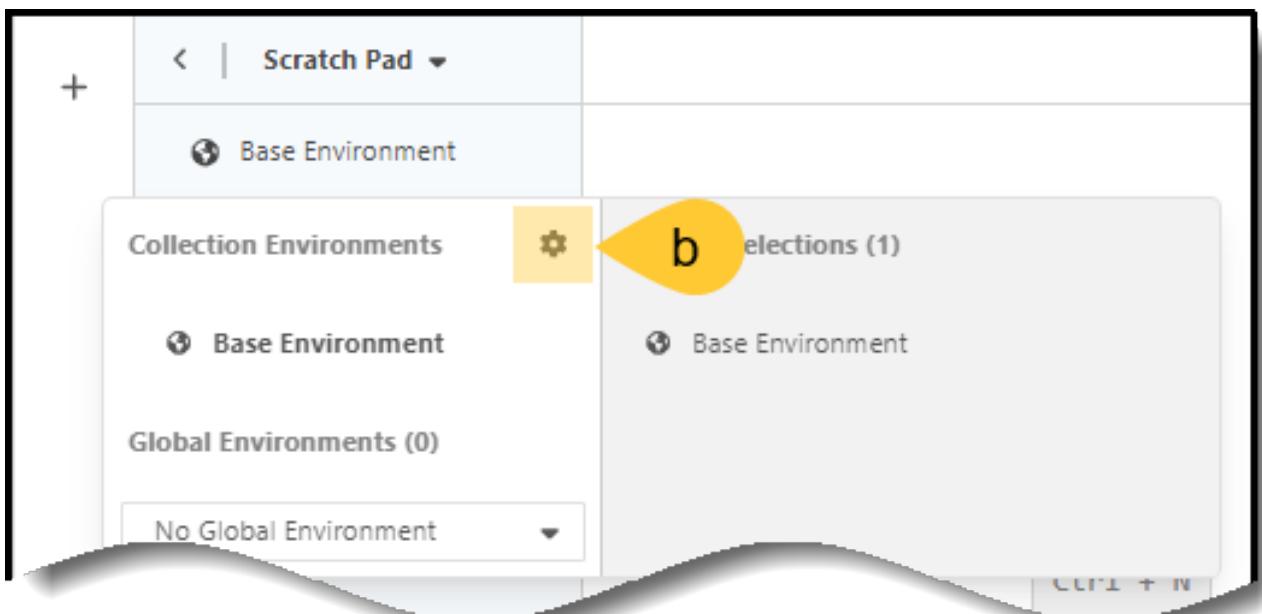
## How to test using the Insomnia collection/postman collection

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

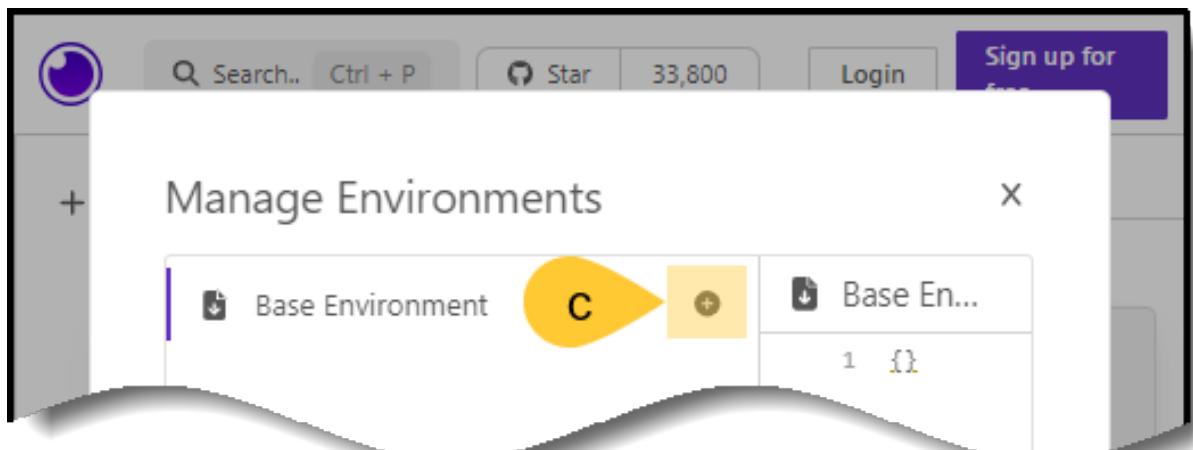
1. Install Insomnia: If you haven't already installed Insomnia, download it from the official website and install it on your machine.
2. Download Insomnia collection: Download the insomnia collection from the document tab of the SAP Business Accelerator Hub and import it in your insomnia.
3. Create base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



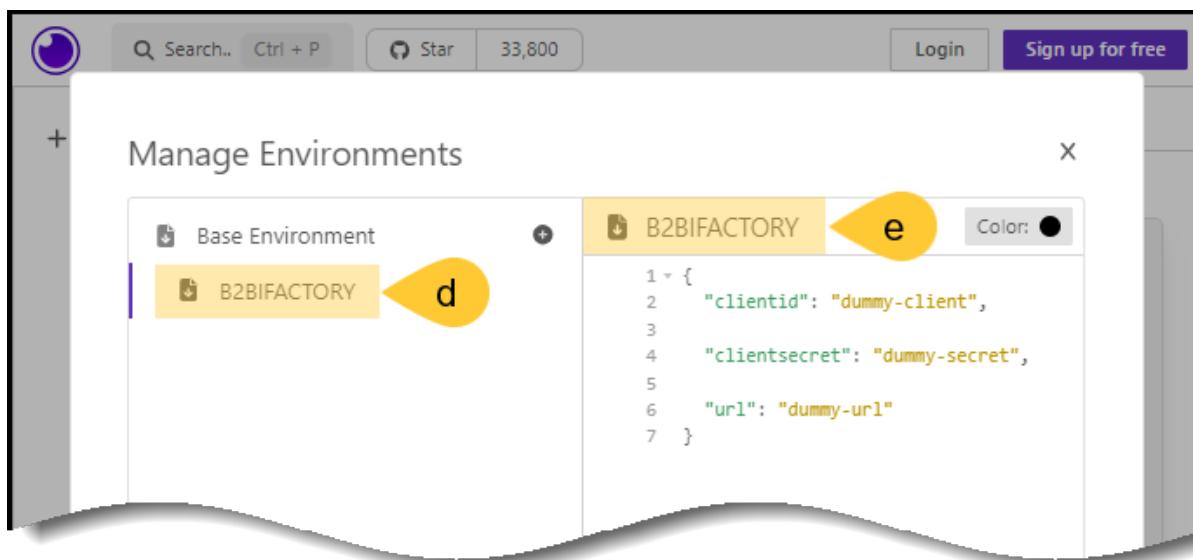
b.) Click on the settings icon (as seen in below screenshot) and a new window Manage Environment opens.



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.

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

The screenshot shows the Insomnia REST Client interface. A yellow callout labeled 'a' points to the list of transactions on the left side of the screen, specifically to the '01.) Purchase Order Request - ...' item. Another yellow callout labeled 'b' points to the 'Headers' tab in the top navigation bar, which is currently selected. The 'Headers' tab contains the following entries:

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

Scratch Pad

GET `_urn1 /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

[TRADING\_PARTNER\_NAME] - UN/...

01.) Purchase Order Request - ...  
02.) Purchase Order Response ...  
03.) Delivery Notification - Out...  
04.) Invoice - Inbound **a**

b

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

Scratch Pad

GET `_urn1 /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

[TRADING\_PARTNER\_NAME] - UN/...

01.) Purchase Order Request - ...  
02.) Purchase Order Response ...  
03.) Delivery Notification - Out...  
04.) Invoice - Inbound **a**

7. 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.

## Successful Result for Purchase Order Request - Inbound

The screenshot shows the SAP Fiori Launchpad interface. On the left, there's a sidebar with 'Scratch Pad' and a list of scenarios: '01.) Purchase Order Re...', '02.) Purchase Order Re...', '03.) Delivery Notificati...', and '04.) Invoice - Inbound'. The '01.) Purchase Order Re...' scenario is highlighted with a yellow background. The main area shows a request configuration for a 'GET' call to '/http/tpm/'. The 'Headers' tab is selected, displaying the following configuration:

Header	Type	Value
Accept	*	/*
Host		<calculate>
Content-Type	text/plain	
User-Agent	insomnia/	
type_system	UN-EDIFIA	
communi	Process_C	
message_	application	

The 'Preview' tab shows the XML response body:

```

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>2</DIRECT>
7 <TEST></TEST>
8 <IDOC>ORDERS05</IDOC>
9 <MESTYP>ORDERS</MESTYP>
10 <MESFCT>B2B</MESFCT>
11 <STD>E</STD>
12 <SNDPRN>TP_IDOC_ID</SNDPRN>
13 <RCVPRN>Company_IDOC_ID</RCVPRN>
14 </EDI_DC40>
15 <E1EDK01 SEGMENT="1">
16 <BSTZD/>
17 </E1EDK01>
18 <E1EDK03 SEGMENT="1">
19 <IDDAT>022</IDDAT>
<DATUM>20240311</DATUM>

```

## Successful Result for Invoice -Outbound

The screenshot shows the SAP Fiori Launchpad interface. On the left, there's a sidebar with 'Scratch Pad' and a list of scenarios: '01.) Purchase Order Re...', '02.) Purchase Order Re...', '03.) Delivery Notificati...', and '04.) Invoice - Inbound'. The '04.) Invoice - Inbound' scenario is highlighted with a yellow background. The main area shows a request configuration for a 'GET' call to '/http/tpm/'. The 'Headers' tab is selected, displaying the following configuration:

Header	Type	Value
Accept	*	/*
Host		<calculate>
Content-Type	application	
User-Agent	insomnia/	
type_system	SAP_IDoc	
communi	IDOC	
message_	application	

The 'Preview' tab shows the XML response body:

```

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'DTM+137:20230907:102'DTM+35:20
230907:102'DTM+3:20230907:102'DTM+356:2
0230824:102'PAI+:142'FTX+AAI+4'FTX+OSI'
FTX+ABN'FTX+SUR'FTX+ALC'RFF+ON:1DFYVN6W
'DTM+171:20230824:102'RFF+DQ:8000433686
'DTM+171:20230907:102'RFF+CT:1'RFF+VN:2
000321116'DTM+171:20230824:102'NAD+SU+9
876543210:9++B2BCompany+Dummy Street
1+Dummy City++01234
DMY+NL'FII+RB+DMY9876543210
DMY9876543210 DMY0123456789
DMY0123456789 DMY0123456789
DMY0123456789
DMY0123456789'NAD+BY+545053400024::9++Du
mmy TP:UK Dummy City+1 Dummy
Street+Dummy
+LND+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.

**Standard** ▾  
Filtered By (1): Interchange Creation Date Time = Past 24 Hours

**Interchanges (2)**

Status	Error Category	Sender Name	Receiver Name	Interchange Name
Completed		[Company Name]	[Trading Partner Name]	>
Completed		[Trading Partner Name]	[Company Name]	>

## 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).

**Mapping Guidelines /**

**03.) [Trading Partner Name] - SAP IDOC INVOIC.INVOIC02 -to- UN/EDIFACT D.10B INVOIC**

Version: 1.0 (Draft) ▾

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

Sour... 03.) [Company Name] - SAP IDOC INVOIC.INVOIC02 for Customer EDI - S... Targ... 03.) [Trading Partner Name] - UN/EDIFACT D.10B INVOIC

**Edit**    **Simulate**    **Copy**    **Delete**    **Activate**    **Inject >**    **Export >**

Structure	Name	Cardinality
INVOIC02	Invoice/Billing ...	1..1
> EDI_DC	IDoc control re...	1..1
> E1EDK0	Document hea...	1..1
> E1EDKA	Invoicing party	0..1
> E1EDKA	Goods recipient	0..1
> E1EDKA	Payer	0..1

Structure	Name	Cardin...
SG1	[1153 = DQ]	0..1
SG1	[1153 = CT]	0..1
SG1	[1153 = VN]	0..1
SG2	[3035 = SU]	0..1
SG2	[3035 = Buyer]	0..1

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.

The screenshot shows a Fiori application window with the following sections:

- Header:** < Select Transactions and Trading Partner for B2B Integration Factory - Order to Cash B2B Scen
- Section: Agreement Creation Mode**
  - Copy from Template (a)
  - Bind with Template
- Section: Transactions (3)**

Name	Initiator	Reactor
01.) Sales Order Request/Response	-	-
02.) Delivery Notification	[Company Name]	-
03.) Invoice	[Company Name]	-
- Section: Select Trading Partner**
  - Name: [Trading Partner Name] (b)
  - Buttons: Open Draft, Cancel