

SAP S/4HANA Cloud Public Edition Integration with Shopify Configuration Guide

For SAP Integration Suite

Version 1.1.2 – February 2026

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1. Introduction

This is the official guide for the configuration of SAP S/4HANA Cloud Public Edition Integration with Shopify for SAP Integration Suite. The document discusses the most important configuration steps needed before deploying the Integration Flows.

Read this guide carefully before configuring the integration content.

1.1 Coding Samples

Any software coding and/or code lines/strings ("Code") included in this documentation are only examples and are not intended to be used in a productive system environment. The Code is only intended to better explain and visualize the syntax and phrasing rules of certain coding. We do not warrant the correctness and completeness of the Code given herein.

1.2 Internet Hyperlinks

The documentation may contain hyperlinks to the Internet. These hyperlinks are intended to serve as a hint about where to find related information. We do not warrant the availability and the correctness of this related information or the ability of this information to serve a particular purpose.

2. Overview

The integration of SAP S/4HANA Cloud Public Edition and Shopify processes can be customized. It is expected that you customize the process as per your business requirements. Adjustments can be made at different components, including:

- Adjustment to the Integration Flows' Externalized Parameters
- Adjustment to the Message Mapping steps to reflect possible customizations

The Integration content for SAP Integration Suite for the “SAP S/4HANA Cloud Public Edition Integration with Shopify” enables the synchronization of data and supports the automation of business processes. The Integration Content is tailored for B2C processes. Information is retrieved and pushed from/to SAP S/4HANA Cloud Public Edition through the OData Adapter. Data transformations and business logic is executed within the Integration Flows. Data is sent to/pulled from Shopify using the Shopify Adapter.

3. Preparing the Systems for Integration

To configure the integration content using this guide, you need to have access and authorizations to the systems listed below.

Access required:

- SAP S/4HANA Cloud Public Edition
- SAP Integration Suite
- Shopify Store

Authorization required:

- SAP S/4HANA Cloud Public Edition
 - Appropriate authorizations for the technical user that will be used to connect to the SAP S/4HANA Tenant
 - The following communication arrangements are required
 - Delivery Processing Integration (SAP_COM_0106)
 - Sales Order Integration (SAP_COM_0109)
 - Product Integration (SAP_COM_0009)
 - Business Partner, Customer and Supplier Integration (SAP_COM_0008)
 - Material Stock Integration (SAP_COM_0164)
 - Pricing Data Integration (SAP_COM_0294)
 - Customer Return Integration (SAP_COM_0157)
- SAP Integration Suite
 - Appropriate authorizations for the SAP Integration Suite user

- The following Role Collections are required
 - PI_Integration_Developer
 - PI_Business_Expert
 - PI_Administrator
- Shopify
 - Follow the “Shopify Adapter” Setup Guides and ensure appropriate authorizations for access to Shopify Admin APIs and Resources.
 - The Shopify Admin Application is required to have the following scopes
 - write_orders
 - read_orders
 - write_fulfillments
 - read_fulfillments
 - write_assigned_fulfillment_orders
 - write_merchant_managed_fulfillment_orders
 - write_third_party_fulfillment_orders
 - write_products
 - read_products
 - write_locations
 - read_locations
 - write_inventory
 - read_inventory
 - read_customers
 - write_customers
 - write_discounts
 - read_discounts
 - write_price_rules
 - read_price_rules

- write_metaobject_definitions
- read_metaobject_definitions
- write_metaobjects
- read_metaobjects
- write_returns
- read_returns

4. Configuration

SAP S/4HANA Cloud Public Edition, Shopify and SAP Integration Suite need to be configured and prepared before the Integration Content package can be configured and deployed. Follow the steps in the following sections.

4.1 Shopify Adapter Installation

Installing the Shopify Adapter is a prerequisite to use the Integration Content. For adapter installation, refer to the *“Shopify Adapter Guide”* and to the *“Shopify Adapter and Plug-in Installation Guide”*

4.2 Configuration in SAP S/4HANA Cloud Public Edition

This section describes the mandatory configurations which need to be performed in the SAP S/4HANA Cloud Public Edition before you can start implementing the configuration for Shopify API and configuring the Integration Content in SAP Integration Suite. Follow the steps mentioned in the following sub-sections.

4.2.1 Create Technical Communication User

A Technical Communication User is required to call OData services in SAP S/4HANA Cloud Public Edition from SAP Integration Suite. Communication Users in SAP S/4HANA Cloud are used for inbound communication and for processing messages in the system.

Refer to the official documentation for creating the communication system, communication user and communication arrangements - https://help.sap.com/docs/SAP_S4HANA_CLOUD/0f69f8fb28ac4bf48d2b57b9637e81fa/2e84a10c430645a88bdbf8aa23ac9ff7.html?locale=en-US

The default configuration for the Integration Flows is with Basic Authentication.

The following communication arrangements must be enabled

- Delivery Processing Integration (SAP_COM_0106)
- Sales Order Integration (SAP_COM_0109)
- Product Integration (SAP_COM_0009)
- Business Partner, Customer and Supplier Integration (SAP_COM_0008)
- Material Stock Integration (SAP_COM_0164)
- Pricing Data Integration (SAP_COM_0294)
- Customer Return Integration (SAP_COM_0157)

4.3 Configuration in SAP Integration Suite

In this section, the settings of the Integration Flows are discussed, including prerequisites and Externalized Parameters.

4.3.1 Create SAP S/4HANA Cloud Security Material

After the configuration in SAP S/4HANA Cloud Public Edition is completed, the credentials must be created as Security Materials in SAP Integration Suite.

- Navigate to SAP Integration Suite
- Navigate to “Monitor -> Integrations and APIs”
- Navigate to “Security Material”
- Create new “User Credentials”
- Configure the details for the communication user which has been created in SAP S/4HANA Cloud. Example configuration can be found in the following figure

Create User Credentials

Name: *	<input type="text" value="s4hana_cloud_credentials"/>
Description:	<input type="text" value="Credentials for Connectivity to SAP S/4HANA Cloud"/>
Type: *	<input type="text" value="User Credentials"/> ▼
User: *	<input type="text" value="shopify_accelerator_s4_technical_user"/>
Password:	<input type="password" value="....."/>
Repeat Password:	<input type="password" value="....."/>

Figure 4.3.1 Sample Values for creating new User Credentials for the SAP S/4HANA Cloud Connectivity

- Click “Deploy”
- Proceed to Configuration of the Integration Flows

4.3.2 Create Shopify Metafield Definitions

The “Create Shopify Metafield Definitions” Integration Flow is the first Integration Flow that must be deployed. The purpose of the Integration Flow is to create the necessary metafields in Shopify, which are required and used in the other Integration Flows.

For more information on Shopify Metafields, refer to <https://help.shopify.com/en/manual/custom-data/metafields>

Important Notice: Metafield Restrictions

The custom Shopify Metafields are associated with and vital for ensuring the operation of the integration flows. These metafields are automatically populated, read, modified by the Integration Flows.

Under no circumstances should the metafields be edited, updated, or deleted manually. Any changes can disrupt the integration processes, leading to potential data loss, irreversible outcome, cause the integration and data replication to fail and produce incorrect results.

All changes and management related to these metafields should be handled exclusively by the integration flows.

Contact support in case of any questions or require support regarding the metafields.

The following figure depicts the business logic of the Integration Flow

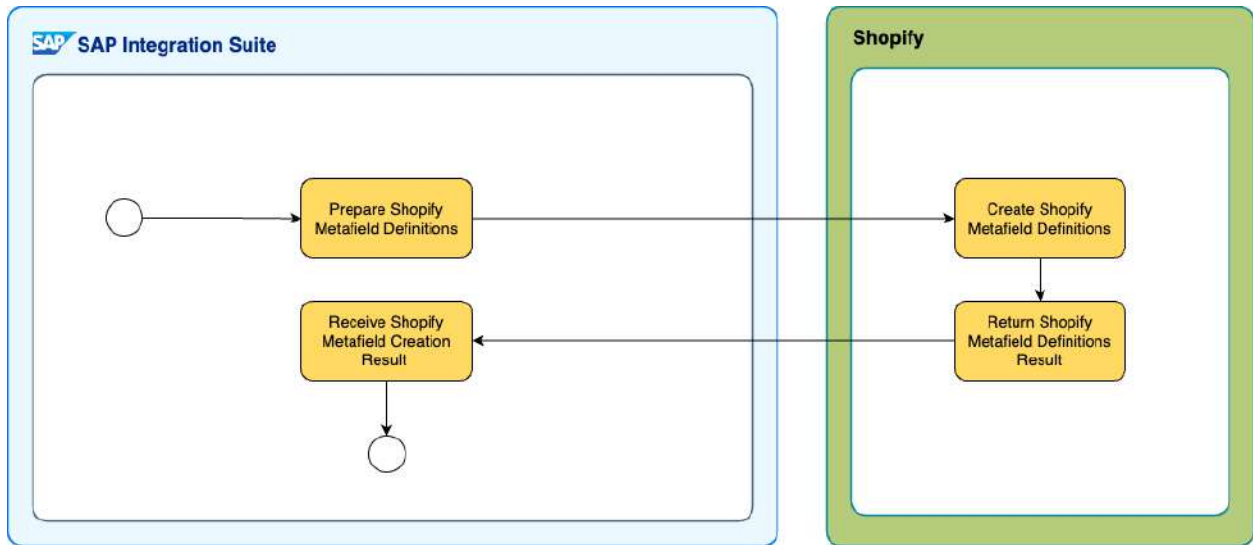


Figure 4.3.2 Create Shopify Metafield Definitions Integration Flow

4.3.2.1 Prerequisites

The following actions must be performed as a prerequisite:

- Deploy the security artifacts that are required during the configuration of the Integration Content

4.3.2.2 Configuration

Follow the steps below to configure the Integration Flow:

- Open the “Create Shopify Metafield Definitions” Integration Flow
- Click on Configure
- Configure the Timer to be “Run Once” as the Integration Flow must be used only once to create the necessary configuration
- Configure the “Shopify” Receiver

Receiver:	Shopify_Product_Update	ⓘ
Adapter Type:	Shopify	ⓘ
Shopify Base Url:	https://xxxxxxx.myshopify.com	ⓘ
Authentication Type:	OAuth2 Client Credentials	ⓘ
Shopify Security Material:	shopifyOAuthClientCredentials	ⓘ

Figure 4.3.2.1 Configuring the Integration Flow’s Shopify Receiver Configuration

The description of each of the fields in Figure 4.3.2.1 is presented in the table below.

Externalized Parameter	Description	Mandatory / Optional
Shopify Base Url	Base URL of Shopify Store For Example: <ul style="list-style-type: none"> https://xxxxxxx.myshopify.com 	M
Authentication Type	Specify the authentication type Supported values: <ul style="list-style-type: none"> Access Token OAuth2 Client Credentials 	M
Shopify Security Material	Provide the name of the Security Material containing the authorization information used for the Shopify connection	M

- Configure “More”



Figure 4.3.2.2 Configuring the Integration Flow’s More Configuration

The description of each of the fields in Figure 4.3.2.2 is presented in the table below

Externalized Parameter	Description	Mandatory / Optional
Log Exceptions	Indicates whether logging of Exceptions, as attachments, is enabled. Default Value: true Valid values: <ul style="list-style-type: none"> • true • false 	O

- Save and deploy
- Validate that the Integration Flow has completed Successfully by navigating to SAP Integration Suite -> Monitor -> Integrations & APIs -> Monitor Message Processing -> All Artifacts

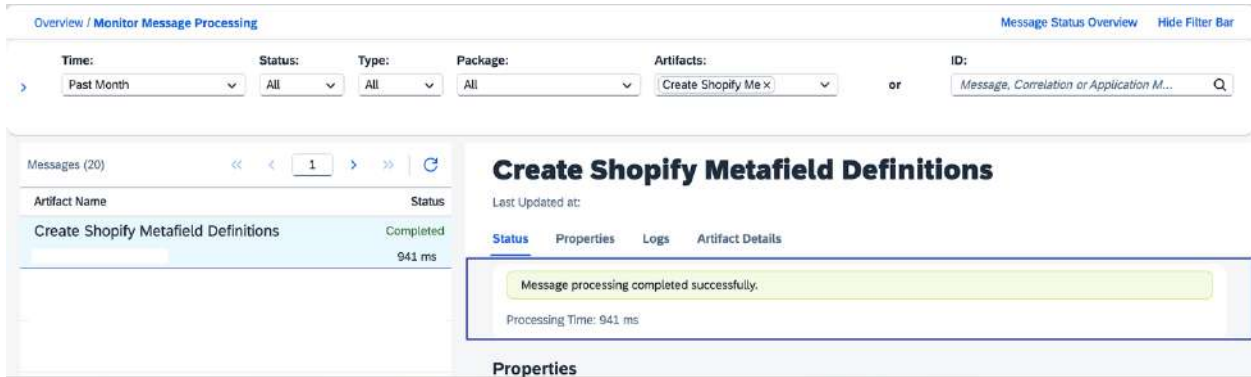


Figure 4.3.2.3 Validating that the Shopify Metafield Definitions Integration Flow has completed

- Navigate to your Shopify Store’s Admin -> Settings -> Custom Data -> Orders and validate that SAP S/4HANA Cloud Metafield Definitions have been created

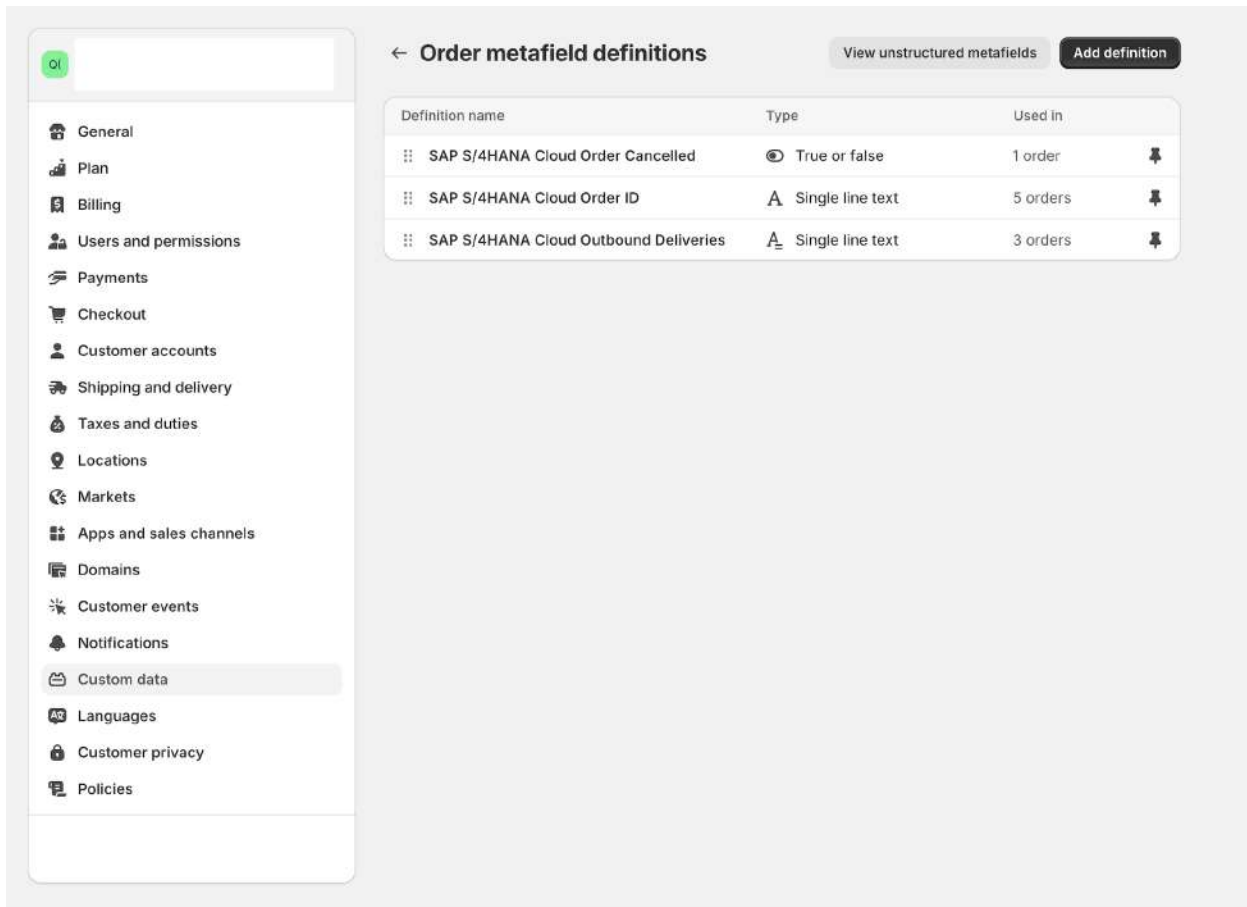


Figure 4.3.2.4 Validating that the new Shopify Metafield Definitions have been created in Shopify

- Proceed to configuring and deployed the other Integration Flows

4.3.3 Replicate Product Price and Discount from Shopify to S4HANA Cloud Public Edition

This integration flow consists of 2 integration processes. The first allows replication/update of product prices and discounts from SAP S/4HANA Cloud Public Edition to Shopify. It is scheduled based on business needs. The second flow allows replicating of a single product data passed by another iFlow.

The figure below depicts the business process that is implemented:

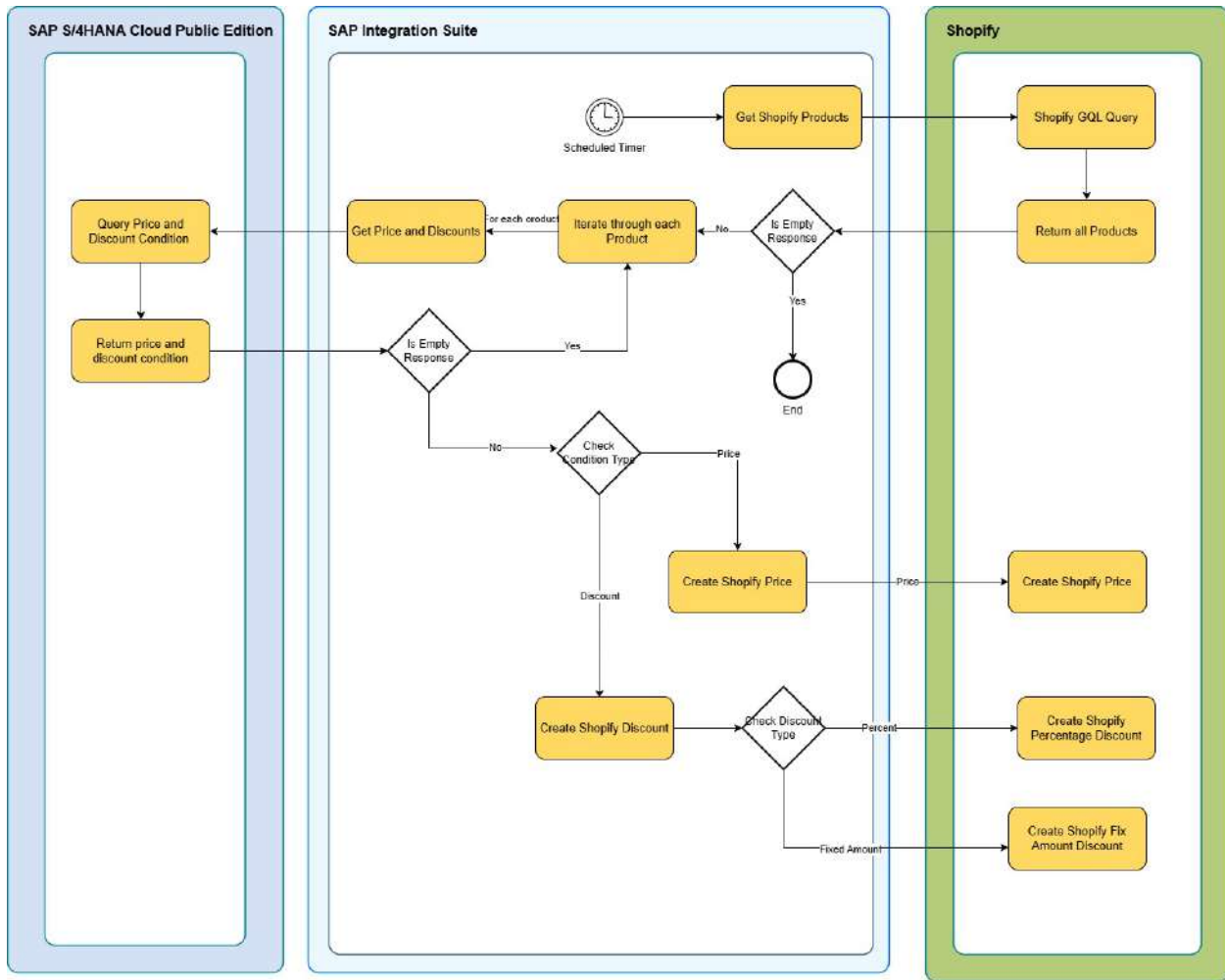


Figure 4.3.3 Replicate Product Price and Discount from SAP S4HANA Cloud Public Edition to Shopify

4.3.3.1 Prerequisite

The following actions must be performed as a prerequisite:

- Deploy the security artifacts that are required during the configuration of the Integration Content
- Create or extend the Condition types configuration in SAP S4HANA Cloud which will support the needed capabilities.

4.3.3.2 Configuration

Follow the steps below to configure the Integration Flow:

- Open the “Replicate All Product Prices and Discounts from SAP S4HANA Cloud Public Edition to Shopify” Integration Flow
- Click on Configure

- Configure the Timer as per your business’ operations
- Shopify Configure “Shopify_Get_Products_By_Material_Number” Receiver as shown:

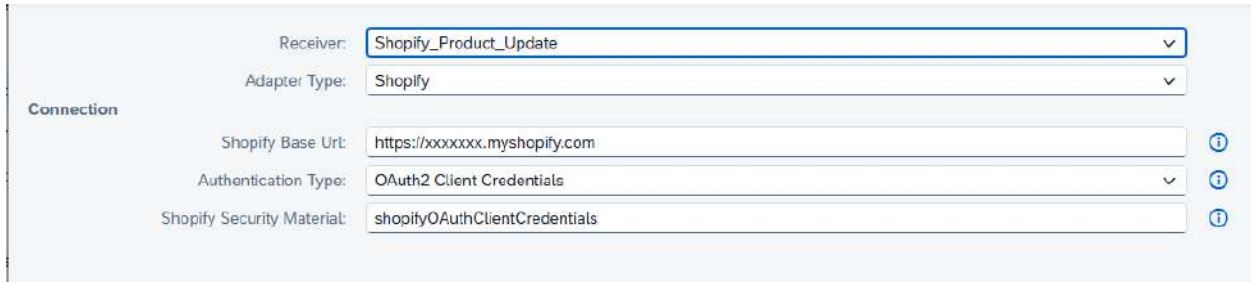


Figure 4.3.3.1 Configuring Replicate All Product Prices and Discounts from SAP S4HANA Cloud Public Edition to Shopify Receiver

The description of each of the fields in Figure 4.3.3.1 is presented in the table below. Please keep in mind that this is the “Timer” (Replicate **All** Product Prices and Discounts from SAP S4HANA Cloud Public Edition to Shopify) iFlow that will execute the second flow - Replicate Product Prices and Discounts from SAP S4HANA Cloud Public Edition to Shopify

Externalized Parameter	Description	Mandatory / Optional
Shopify Base Url	Base URL of Shopify Store For Example: <ul style="list-style-type: none"> • https://xxxxxxx.myshopify.com 	M
Authentication Type	Specify the authentication type Supported values: <ul style="list-style-type: none"> • Access Token • OAuth2 Client Credentials 	M
Shopify Security Material	Provide the name of the Security Material containing the authorization information used for the Shopify connection	M

- Configure “More” as shown in the figure below:

Configure "Replicate All Product Prices and Discounts from SAP S4HANA Cloud Public Edition to Shopify"

Timer **Receiver** **More**

Type: All Parameters

Customer Post-Exit Flow: /generic_post_exit_process_direct

Customer Post-Exit Flow Enabled: false

Customer Pre-Exit Flow: /generic_pre_exit_process_direct

Customer Pre-Exit Flow Enabled: false

HTTP Session Reuse: onExchange

Last S4HANA Request Date: 1970-01-01T00:00:00

Log Exceptions: true

Product SKU Regular Expression: *

Figure 4.3.3.2 Configuring Replicate All Product Prices and Discounts from SAP S4HANA Cloud Public Edition to Shopify More

The description of each of the fields in Figure 4.3.3.2 is presented in the table below. Please keep in mind that this is the "Timer" (Replicate **All** Product Prices and Discounts from SAP S4HANA Cloud Public Edition to Shopify) iFlow that will execute the second flow - Replicate Product Prices and Discounts from SAP S4HANA Cloud Public Edition to Shopify

Externalized Parameter	Description	Mandatory / Optional
Customer Post-Exit Flow Enabled	Indicates whether a custom Customer Post-Exit Flow is enabled. If this is enabled the "CustomerPostExitFlow" Receiver must be configured. Valid values: <ul style="list-style-type: none"> • true • false 	O
Customer Pre-Exit Flow Enabled	Indicates whether a custom Customer Pre-Exit Flow is enabled. If this is enabled the "CustomerPreExitFlow" Receiver must be configured. Valid values: <ul style="list-style-type: none"> • true • false 	O
Customer Post-Exit Flow	Link to the Customer Post-Exit Integration Flow.	O

Externalized Parameter	Description	Mandatory / Optional
	<p>Mandatory in case “Customer Post-Exit Flow Enabled” is set to “true”</p> <p>For Example:</p> <ul style="list-style-type: none"> • /generic_post_exit_process_direct 	
Customer Pre-Exit Flow	<p>Link to the Customer Pre-Exit Integration Flow. Mandatory in case “Customer Pre-Exit Flow Enabled” is set to “true”</p> <p>For Example:</p> <ul style="list-style-type: none"> • /generic_pre_exit_process_direct 	O
Log Exceptions	<p>Indicates whether logging of Exceptions, as attachments, is enabled.</p> <p>Default Value:</p> <ul style="list-style-type: none"> • true <p>Valid values:</p> <ul style="list-style-type: none"> • true • false 	O
SAP S4HANA Cloud Last Request Date	<p>This Date is used to define boundaries for the first - Initial start for the replication flow. After the first start the flow will save the latest date automatically and will use it to determine the delta for materials extract.</p> <p>Valid Values are Dates in the following format:</p> <ul style="list-style-type: none"> • YYYY-MM-DDTHH:MM:SS <p>For Example:</p> <ul style="list-style-type: none"> • 1970-01-01T00:00:00 	O
Product SKU Regular Expression	<p>This regular expression defines which products to fetch from Shopify. Default value is *. This means all products with non-null SKU will be fetched. This would be useful when we want to update price and</p>	O

Externalized Parameter	Description	Mandatory / Optional
	<p>discount for products with certain SKUs. For example, all products, for which the SKU starts with "MAT"</p> <p>For Example:</p> <ul style="list-style-type: none"> • * • MAT_* 	
HTTP Session Reuse	<p>Configure the session handling scope for HTTP based endpoints.</p> <p>Choose one of the following options:</p> <ul style="list-style-type: none"> • None - Session handling is switched off. • On Exchange - Each exchange corresponds to a single session (use this option for stateful services). • On Integration Flow - Only one session will be used across the whole integration flow (only use this option for stateless services). <p>Default Value: On Exchange</p>	O

- Save and deploy the flow and move to the next part of the configuration.
- Configure Replicate Product Prices and Discounts from SAP S4HANA Cloud Public Edition to Shopify:

Configure "Replicate Product Price and Discount from SAP S4HANA Cloud Public Edition to Shopify"

Receiver **More**

Connection

Receiver: SAP_S4HANA_Cloud_GET_Price_Condition_Record_Validity

Adapter Type: HCIOData

Address: {{SAP S4HANA Cloud Base URL}}/sap/opu/odata/sap/API_SLSPRICINGCONDITIONRECORD_SRV

SAP S4HANA Cloud Base URL: https://xxxxx-api.s4hana.cloud.sap

Proxy Type: Internet

Authentication: Basic

Credential Name: s4hana_credentials

CSRF Protected:

Reuse Connection:

Figure 4.3.3.3 Configuring Replicate Product Prices and Discounts from SAP S4HANA Cloud Public Edition to Shopify Receivers SAP_S4HANA_Cloud

The description of each of the fields in Figure 4.3.3.3 is presented in the table below.

Externalized Parameter	Description	Mandatory / Optional
SAP S/4HANA Cloud Base URL	Specify the SAP S/4HANA Cloud API Base URL For Example: <ul style="list-style-type: none"> https://xxxxxxx-api.s4hana.cloud.sap 	M
Proxy Type	The type of proxy you want to use for establishing connection with the OData V2 service. Default value: Internet	M
Authentication	Authentication method that you want to use for connecting to the OData V2 service. Default value: Basic	M
Credential Name	Specify the name of the deployed User Credentials Security Material that holds the username and password used to authenticate with SAP S/4HANA Cloud	M
CSRF Protected	Keep this option selected (default setting). It ensures that your integration flow is protected against Cross-Site-Request-Forgery, a kind of	O

Externalized Parameter	Description	Mandatory / Optional
	attack where a malicious party can perform harmful actions by masquerading as the logged in user	
Reuse Connection	The option is enabled by default. This option enables the reuse of connection objects from the internal connection pool, which in turn improves the network turnaround time for multiple communications to a same end point.	O
Location ID	It is visible only when On-Premise is selected for Proxy type. Used to connect Cloud SAP Connector with your account.	O
Private Key Alias	It is visible only when Client Certificate is selected for Authentication. Enter the alias of the deployed private key.	O

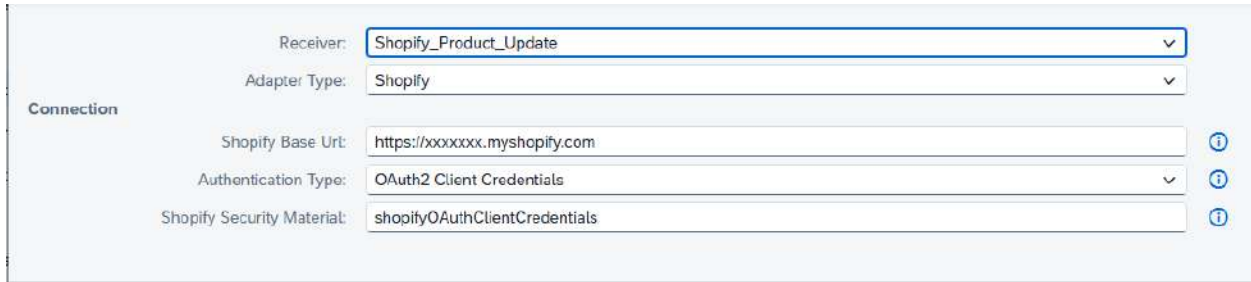


Figure 4.3.3.4 Configuring Replicate Product Prices and Discounts from SAP S4HANA Cloud Public Edition to Shopify Receivers Shopify

The description of each of the fields in Figure 4.3.3.4 is presented in the table below.

Externalized Parameter	Description	Mandatory / Optional
Shopify Base Url	Base URL of Shopify Store For Example: <ul style="list-style-type: none"> https://xxxxxxx.myshopify.com 	M
Authentication Type	Specify the authentication type Supported values: <ul style="list-style-type: none"> Access Token 	M

Externalized Parameter	Description	Mandatory / Optional
	<ul style="list-style-type: none"> OAuth2 Client Credentials 	
Shopify Security Material	Provide the name of the Security Material containing the authorization information used for the Shopify connection	M

Configure "Replicate Product Price and Discount from SAP S4HANA Cloud Public Edition to Shopify"

Receiver [More](#)

Type:	All Parameters	
HTTP Session Reuse:	onExchange	
Log Exceptions:	true	
SAP S4HANA Cloud Discount Con...:	ZM01	
SAP S4HANA Cloud Distribution C...:	10	
SAP S4HANA Cloud Price Condi... :	ZPR0	
SAP S4HANA Cloud Sales Organi... :	XXXX	

Figure 4.3.3.5 Configuring Replicate Product Prices and Discounts from SAP S4HANA Cloud Public Edition to Shopify More Section

The description of each of the fields in Figure 4.3.3.5 is presented in the table below.

Externalized Parameter	Description	Mandatory / Optional
SAP S4HANA Cloud Discount Condition Code	<p>This is the condition type that is used to find all product discounts in S4HANA Cloud</p> <p>For Example:</p> <ul style="list-style-type: none"> ZM01 	M
SAP S4HANA Cloud Distribution Channel	<p>The Distribution channel</p> <p>For Example:</p> <ul style="list-style-type: none"> 10 	M
SAP S4HANA Cloud Price Condition Code	<p>This is the condition type that is used to find all product prices in S4HANA Cloud</p>	M

Externalized Parameter	Description	Mandatory / Optional
	For Example: <ul style="list-style-type: none"> • ZPRO 	
SAP S4HANA Cloud Sales Organization	This is the code of the Sales Organization For Example: <ul style="list-style-type: none"> • 3810 	M
Log Exceptions	Indicates whether logging of Exceptions, as attachments, is enabled. Default Value: true Valid values: <ul style="list-style-type: none"> • true • false 	O
HTTP Session Reuse	Configure the session handling scope for HTTP based endpoints. Choose one of the following options: <ul style="list-style-type: none"> • None - Session handling is switched off. • On Exchange - Each exchange corresponds to a single session (use this option for stateful services). • On Integration Flow - Only one session will be used across the whole integration flow (only use this option for stateless services). Default Value: On Exchange	O

- Configure SAP S/4HANA Cloud to work with the needed Condition Types:

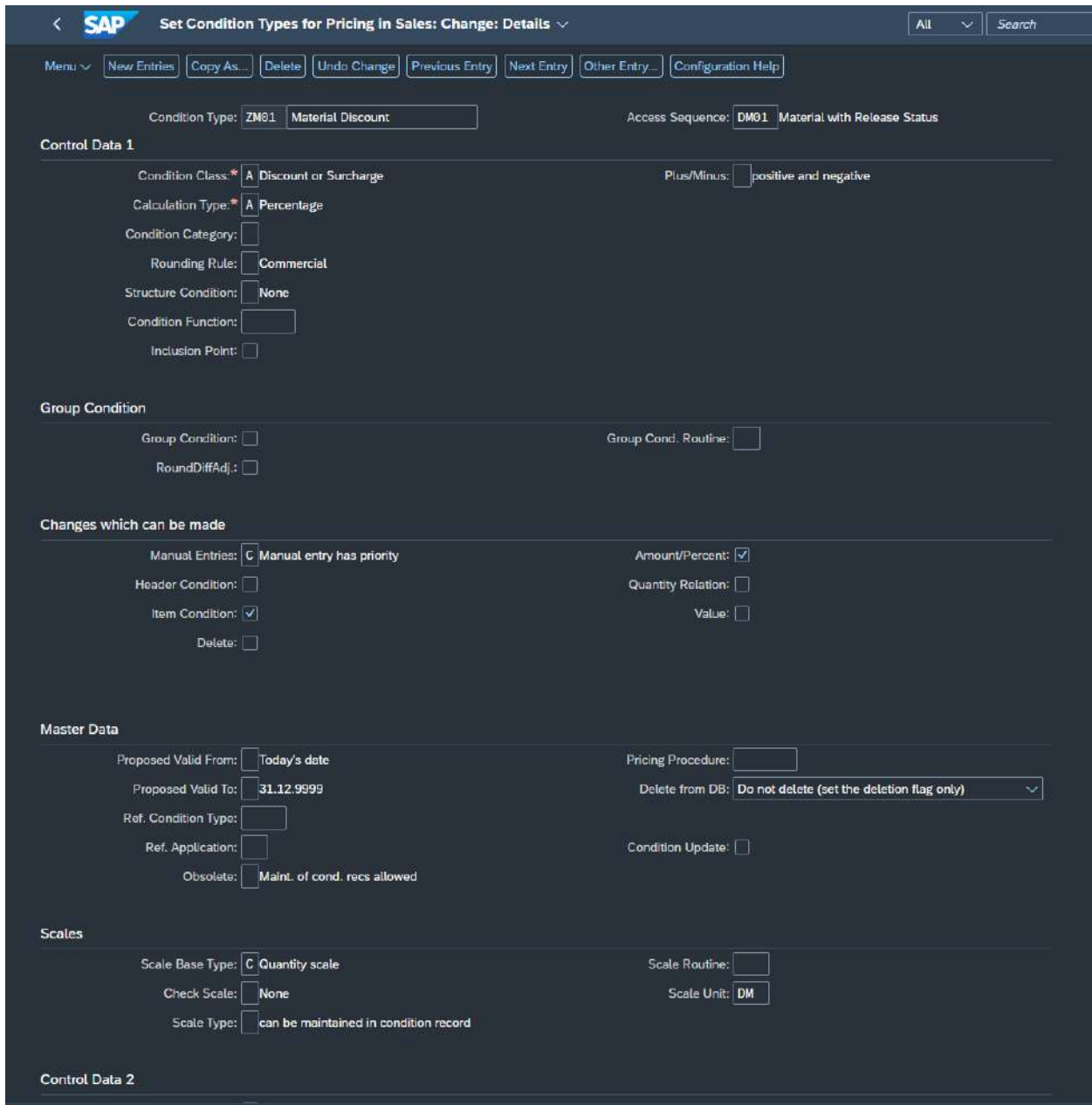


Figure 4.3.3.6 Configuring Condition Type ZM01 in SAP S/4HANA Public Cloud

Configuration for Condition: **ZM01**

Parameter	Value
Condition class	A - Discount or Surcharges
Condition type	A - Percentage

Parameter	Value
Condition category	None (Empty)
Plus/Minus	positive and negative
Manual entries	C - Manual entry has priority
Header condition	No
Item condition	Yes
Amount/Percent	Yes

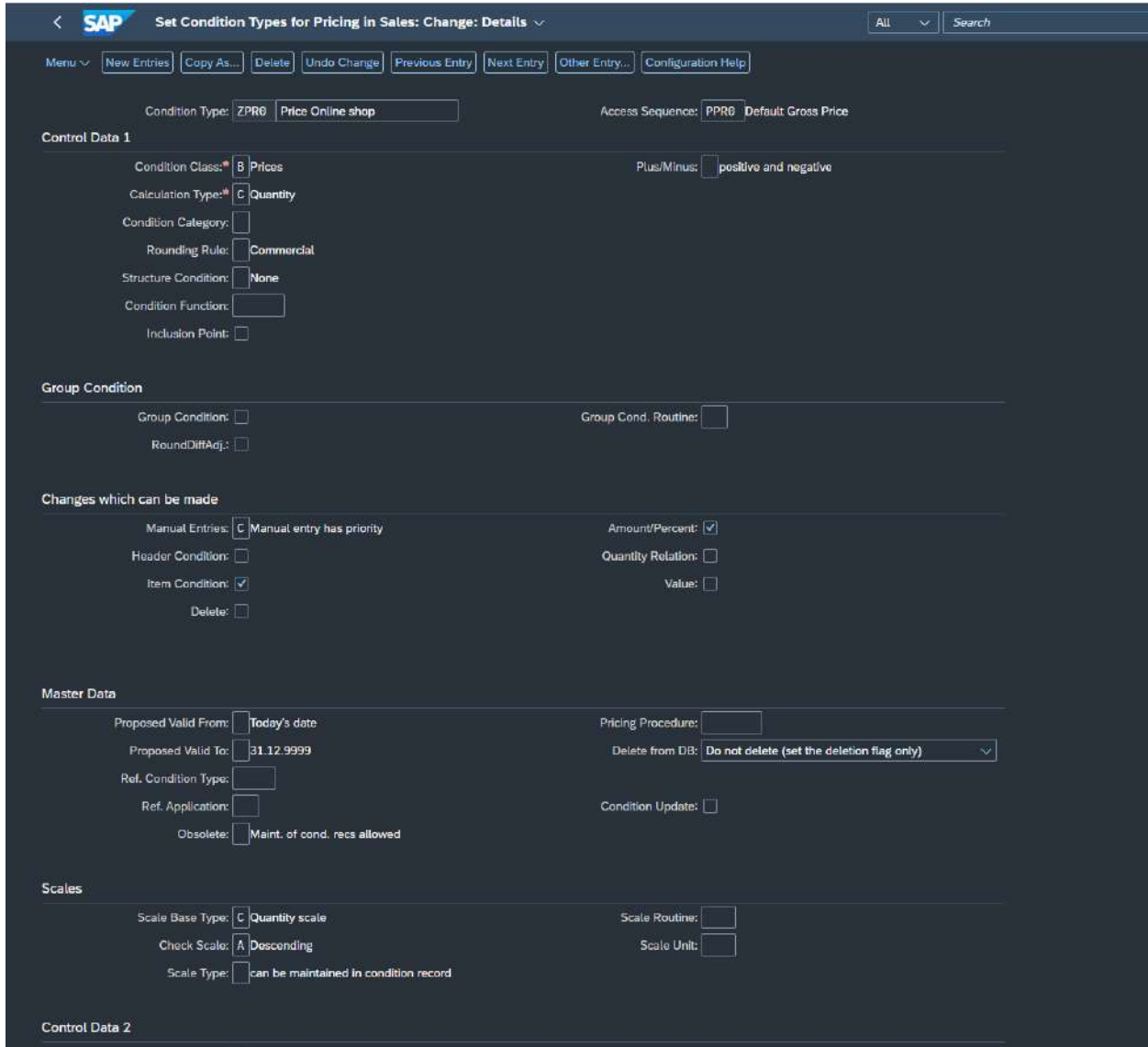


Figure 4.3.3.8 Configuring Condition Type ZPR0 in SAP S4HANA Public Cloud

Configuration for Condition: **ZPR0**

Parameter	Value
Condition class	B - Prices
Condition type	C - Quantity
Condition category	None (Empty)
Plus/Minus	positive and negative

Parameter	Value
Manual entries	C - Manual entry has priority
Header condition	No
Item condition	Yes
Amount/Percent	Yes

These are Custom condition types that businesses should either configure new or modify existing ones to comply with the expected configuration. The same configuration must be provided for the Condition types in the “Replicate Orders from Shopify to SAP S4HANA Cloud Public Edition” Integration Flow for the integration to work consistently.

4.3.4 Replicate Product Stock from S4HANA Cloud Public Edition to Shopify

For the Product Stock replication from SAP S/4HANA Cloud Public Edition to Shopify two iFlows are configured – the first one (Replicate Products Stock Availabilities from SAP S4HANA Cloud Public Edition to Shopify) gets all stock that needs to be updated and then with process direct, calls the second integration flow (Replicate Single Product Stock Availability from SAP S4HANA Cloud Public Edition to Shopify) to update or create the quantity for corresponding Shopify Product. Typically, the first Integration Flow must be scheduled, based on your business processes. The Second Integration flow gets triggered by the first. The figure below depicts the business process that is implemented.

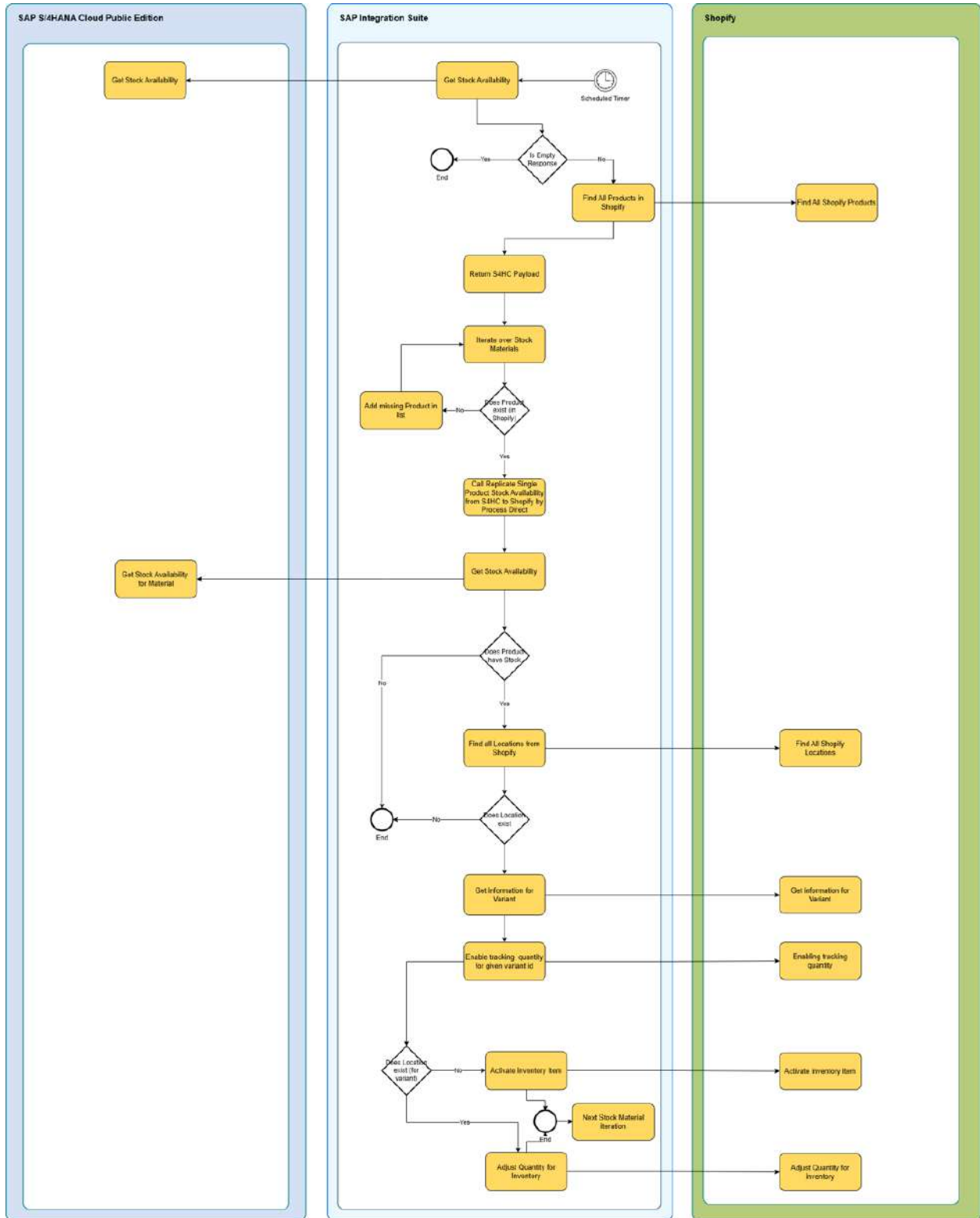


Figure 4.3.4 Replicate Product Stock from SAP S/4HANA Cloud Public Edition to Shopify

4.3.4.1 Prerequisites

The following actions must be performed as a prerequisite:

- Deploy the security artifacts that are required during the configuration of the Integration Content

4.3.4.2 Configuration

Follow the steps below to configure the Integration Flow: **Replicate Single Product Stock Availability from SAP S4HANA Cloud Public Edition to Shopify**

- Open the “Replicate Single Product Stock Availability from SAP S4HANA Cloud Public Edition to Shopify” Integration Flow
- Click on Configure
- Configure “S4HANA_Cloud” Receiver. The configuration is externalized.

Configure "Replicate Single Product Stock Availability from SAP S4HANA Cloud to Shopify"

Figure 4.3.4.1 Configuring the Integration Flow’s SAP S/4HANA Cloud Configuration

The description of each of the fields in Figure 4.3.4.1 is presented in the table below

Externalized Parameter	Description	Mandatory / Optional
SAP S/4HANA Cloud Base URL	Specify the SAP S/4HANA Cloud API Base URL	M

Externalized Parameter	Description	Mandatory / Optional
	For Example: <ul style="list-style-type: none"> • https://xxxxxxx-api.s4hana.cloud.sap 	
Proxy Type	The type of proxy you want to use for establishing connection with the OData V2 service. Default value: Internet	M
Authentication	Authentication method that you want to use for connecting to the OData V2 service. Default value: Basic	M
Credential Name	Specify the name of the deployed User Credentials Security Material that holds the username and password used to authenticate with SAP S/4HANA Cloud	M
CSRF Protected	Keep this option selected (default setting). It ensures that your integration flow is protected against Cross-Site-Request-Forgery, a kind of attack where a malicious party can perform harmful actions by masquerading as the logged in user	O
Reuse Connection	The option is enabled by default. This option enables the reuse of connection objects from the internal connection pool, which in turn improves the network turnaround time for multiple communications to a same end point.	O
Resource Path	The resource path to connect to the OData service	O
Timeout (in min)	Specify the maximum time (in minutes) the system waits for a response from the OData V2 service before the connection attempt is terminated	O
Location ID	It is visible only when On-Premise is selected for Proxy type. Used to connect Cloud SAP Connector with your account.	O

Externalized Parameter	Description	Mandatory / Optional
Private Key Alias	It is visible only when Client Certificate is selected for Authentication. Enter the alias of the deployed private key.	O

- Configure “Shopify” Receiver. There are five different configurations for Shopify Receivers, but you need to configure just one of them (doesn't matter which one of them you choose, the configured details will be propagated to the rest as they share common configuration). The configuration is externalized.

Figure 4.3.4.2 Configuring the Integration Flow’s Shopify Configuration

The description of each of the fields in Figure 4.3.4.2 is presented in the table below

Externalized Parameter	Description	Mandatory / Optional
Shopify Base Url	Base URL of Shopify Store For Example: <ul style="list-style-type: none"> • https://xxxxxxx.myshopify.com 	M
Authentication Type	Specify the authentication type Supported values: <ul style="list-style-type: none"> • Access Token • OAuth2 Client Credentials 	M
Shopify Security Material	Provide the name of the Security Material containing the authorization information used for the Shopify connection	M

- Configure “More” as shown in the figure below

Configure "Replicate Single Product Stock Availability from SAP S4HANA Cloud Public Edition to Shopify"

Receiver [More](#)

Type: All Parameters

Customer Post-Exit Flow Enabled: false

Customer Pre-Exit Flow Enabled: false

HTTP Session Reuse: onExchange

Log Exceptions: false

Logging enabled: false

SAP S/4HC Unrestricted Stock Type: 01

Shopify Location Query Limit: 10

Figure 4.3.4.3 Configuring Integration Flow's More Configuration

The description of each of the fields in Figure 4.3.4.3 is presented in the table below

Externalized Parameter	Description	Mandatory / Optional
Customer Post-Exit Flow Enabled	Indicates whether a custom Customer Post-Exit Flow is enabled. If this is enabled the "CustomerPostExitFlow" Receiver must be configured. Valid values: <ul style="list-style-type: none"> • true • false 	O
Customer Pre-Exit Flow Enabled	Indicates whether a custom Customer Pre-Exit Flow is enabled. If this is enabled the "CustomerPreExitFlow" Receiver must be configured. Valid values: <ul style="list-style-type: none"> • true • false 	O
Log Exceptions	Indicates whether logging of Exceptions, as attachments, is enabled. Default Value: true Valid values: <ul style="list-style-type: none"> • true • false 	O

Externalized Parameter	Description	Mandatory / Optional
Logging enabled	<p>It Indicates whether logging of System Payloads is enabled. This is not recommended to be enabled in a live environment unless necessary.</p> <p>Valid values:</p> <ul style="list-style-type: none"> • true • false 	O
SAP S/4HC Unrestricted Stock Type	<p>This value represents S/4HANA Cloud Inventory Stock Type for Unrestricted Stock. By default, the value is 01.</p>	O
Shopify Location Query Limit	<p>Represents the number of Shopify Locations that will be retrieved in each query to Shopify during the execution of the Integration Flow.</p> <p>This number must be aligned with your Shopify Store's API limits - https://shopify.dev/docs/api/usage/rate-limits</p> <p>The maximum value is 250.</p> <p>Default Value:</p> <ul style="list-style-type: none"> • 10 	O
HTTP Session Reuse	<p>Configure the session handling scope for HTTP based endpoints.</p> <p>Choose one of the following options:</p> <ul style="list-style-type: none"> • None - Session handling is switched off. • On Exchange - Each exchange corresponds to a single session (use this option for stateful services). • On Integration Flow - Only one session will be used across the whole integration flow (only use this option for stateless services). <p>Default Value: On Exchange</p>	O

- Configure the "CustomerPreExitFlow" Receiver

Configure "Replicate Single Product Stock Availability from SAP S4HANA Cloud to Shopify"

The screenshot shows a configuration window with two tabs: 'Receiver' (selected) and 'More'. Under the 'Receiver' tab, there are three fields: 'Receiver:' with a dropdown menu showing 'CustomerPreExitFlow', 'Adapter Type:' with a dropdown menu showing 'ProcessDirect', and 'Address:' with a text input field containing '/generic_pre_exit_process_direct'. The 'Connection' label is positioned to the left of the 'Address' field.

Figure 4.3.4.4 Configuring the Integration Flow’s CustomerPreExitFlow Receiver

The description of each of the fields in Figure 4.3.4.4 is presented in the table below

Externalized Parameter	Description	Mandatory / Optional
Address	<p>Contains the Integration Flow address which will be triggered during the execution of the CustomerPreExitFlow Integration Flow Step. For Example:</p> <ul style="list-style-type: none"> • /generic_pre_exit_process_direct <p>Note: This will be taken into consideration only if Customer Pre-Exits are enabled, denoted by the “Customer Pre-Exit Flow Enabled” Parameter mentioned above</p>	O

- Configure the “CustomerPostExitFlow” Receiver

Configure "Replicate Single Product Stock Availability from SAP S4HANA Cloud to Shopify"

The screenshot shows a configuration window with two tabs: 'Receiver' (selected) and 'More'. Under the 'Receiver' tab, there are three fields: 'Receiver:' with a dropdown menu showing 'CustomerPostExitFlow', 'Adapter Type:' with a dropdown menu showing 'ProcessDirect', and 'Address:' with a text input field containing '/generic_post_exit_process_direct'. The 'Connection' label is positioned to the left of the 'Address' field.

Figure 4.3.4.5 Configuring the Integration Flow’s CustomerPostExitFlow Receiver

The description of each of the fields in Figure 4.3.4.5 is presented in the table below

Externalized Parameter	Description	Mandatory / Optional
Address	<p>Contains the Integration Flow address which will be triggered during the execution of the CustomerPostExitFlow Step. For Example:</p> <ul style="list-style-type: none"> • /generic_post_exit_process_direct <p>Note: This will be taken into consideration only if Customer Post-Exits are enabled, denoted by the “Customer Post-Exit Flow Enabled” Parameter mentioned above</p>	O

- Save and deploy

Follow the steps below to configure the Integration Flow: **Replicate Products Stock Availabilities from SAP S4HANA Cloud Public Edition to Shopify**

- Open the “Replicate Products Stock Availabilities from SAP S4HANA Cloud Public Edition to Shopify” Integration Flow
- Click on Configure
- Configure the Timer as per business operation expectations and requirements

Configure "Replicate Products Stock Availabilities from SAP S4HANA Cloud to Shopify"

The screenshot displays the configuration for the 'Timer' of an integration flow. It includes a dropdown menu for the timer name, currently set to 'Start Timer [StartEvent_8083257]'. Below this, there are radio buttons for different scheduling options: 'Run Once', 'Schedule on Day', 'Schedule to Recur' (which is selected), and 'Advanced'. Under 'Schedule to Recur', there is a 'Daily' dropdown. To the right, there are fields for 'On Time' (02:40 PM), 'Every' (15 min), and 'Between' (00:00 and 24:00). A 'Time Zone' dropdown is set to '(UTC 0:00) Greenwich Mean Time(Etc/GMT)'.

Figure 4.3.4.6 Configuring the Integration Flow’s Timer

- Configure “SAP_S4HC” Receiver. The configuration is externalized.

Configure "Replicate Products Stock Availabilities from SAP S4HANA Cloud Public Edition to Shopify"

Timer Receiver More

Connection

Receiver: SAP_S4HC

Adapter Type: HCIOData

Address: {{SAP S/4HANA Cloud Base URL}}/sap/opu/odata/sap/API_MATERIAL_STOCK_SRV

SAP S/4HANA Cloud Base URL: https://xxxxx-api.s4hana.cloud.sap

Proxy Type: Internet

Authentication: Basic

Credential Name: s4hana_credentials

CSRF Protected:

Reuse Connection:

Processing

Resource Path: A_MatStkInAcctMod Select

Timeout (in min): 1

Figure 4.3.4.7 Configuring the Integration Flow's SAP S/4HANA Cloud Configuration

The description of each of the fields in Figure 4.3.4.7 is presented in the table below

Externalized Parameter	Description	Mandatory / Optional
SAP S/4HANA Cloud Base URL	Specify the SAP S/4HANA Cloud API Base URL For Example: <ul style="list-style-type: none"> https://xxxxx-api.s4hana.cloud.sap 	M
Proxy Type	The type of proxy you want to use for establishing connection with the OData V2 service. Default value: Internet	M
Authentication	Authentication method that you want to use for connecting to the OData V2 service. Default value: Basic	M
Credential Name	Specify the name of the deployed User Credentials Security Material that holds the username and password used to authenticate with SAP S/4HANA Cloud	M
CSRF Protected		O

Externalized Parameter	Description	Mandatory / Optional
	Keep this option selected (default setting). It ensures that your integration flow is protected against Cross-Site-Request-Forgery, a kind of attack where a malicious party can perform harmful actions by masquerading as the logged in user	
Reuse Connection	The option is enabled by default. This option enables the reuse of connection objects from the internal connection pool, which in turn improves the network turnaround time for multiple communications to a same end point.	O
Resource Path	The resource path to connect to the OData service	O
Timeout (in min)	Specify the maximum time (in minutes) the system waits for a response from the OData V2 service before the connection attempt is terminated	O
Location ID	It is visible only when On-Premise is selected for Proxy type. Used to connect Cloud SAP Connector with your account.	O
Private Key Alias	It is visible only when Client Certificate is selected for Authentication. Enter the alias of the deployed private key.	O

- Configure “Shopify” Receiver. The configuration is externalized.

Figure 4.3.4.8 Configuring the Integration Flow’s Shopify Configuration

The description of each of the fields in Figure 4.2.4.8 is presented in the table below

Externalized Parameter	Description	Mandatory / Optional
Shopify Base Url	Base URL of Shopify Store For Example: <ul style="list-style-type: none"> https://xxxxxxx.myshopify.com 	M
Authentication Type	Specify the authentication type Supported values: <ul style="list-style-type: none"> Access Token OAuth2 Client Credentials 	M
Shopify Security Material	Provide the name of the Security Material containing the authorization information used for the Shopify connection	M

- Configure “More” as shown in the figure below

Configure “Replicate Products Stock Availabilities from SAP S4HANA Cloud Public Edition to Shopify”

The screenshot shows the configuration interface for the integration flow. At the top, there are tabs for 'Timer', 'Receiver', and 'More'. The 'More' tab is active. Below the tabs, there is a 'Type' dropdown menu set to 'All Parameters'. A list of configuration parameters is displayed, each with a value and an information icon (i) to its right:

- Customer Post-Exit Flow Enabled: false
- Customer Pre-Exit Flow Enabled: false
- HTTP Session Reuse: onExchange
- Log Exceptions: false
- Logging enabled: false
- SAP S/4HC Plant: XXXX
- SAP S/4HC Storage Location IDs: (empty)
- Shopify Location ID: gid://shopify/Location/xxxxxxx
- Shopify Product Query Limit: 20

Figure 4.3.4.9 Configuring Integration Flow’s More Configuration

The description of each of the fields in Figure 4.3.4.9 is presented in the table below

Externalized Parameter	Description	Mandatory / Optional
Customer Post-Exit Flow Enabled	Indicates whether a custom Customer Post-Exit Flow is enabled. If this is enabled the “CustomerPostExitFlow” Receiver must be configured.	O

Externalized Parameter	Description	Mandatory / Optional
	Valid values: <ul style="list-style-type: none"> • true • false 	
Customer Pre-Exit Flow Enabled	Indicates whether a custom Customer Pre-Exit Flow is enabled. If this is enabled the “CustomerPreExitFlow” Receiver must be configured. Valid values: <ul style="list-style-type: none"> • true • false 	O
Log Exceptions	Indicates whether logging of Exceptions, as attachments, is enabled. Default Value: <ul style="list-style-type: none"> • true Valid values: <ul style="list-style-type: none"> • true • false 	O
Logging enabled	Indicates whether logging of System Payloads is enabled. This is not recommended to be enabled in a live environment unless necessary. Valid values <ul style="list-style-type: none"> • true • false 	O

Externalized Parameter	Description	Mandatory / Optional
SAP S/4HC Plant	<p>Represents the SAP S/4HANA Cloud Plant ID. The Plant is mandatory and used to filter stock availability results to reflect an inventory, enabling better resource planning.</p> <p>For Example:</p> <ul style="list-style-type: none"> • 3810 • 1010 	M
SAP S/4HC Storage Location IDs	<p>The storage location provides a detailed level of inventory management and control within a plant. Multiple values can be listed by using commas for delimiter</p> <p>For Example:</p> <ul style="list-style-type: none"> • 381A • 101A • 381A, 381B 	O
Shopify Product Query Limit	<p>Represents the number of Shopify Products that will be retrieved in each query to Shopify during the execution of the Integration Flow.</p> <p>This number must be aligned with your Shopify Store's API limits - https://shopify.dev/docs/api/usage/rate-limits</p> <p>The maximum value is 250.</p>	O

Externalized Parameter	Description	Mandatory / Optional
Shopify Location ID	<p>The Shopify Location ID represents the Shopify Location in which SAP S/4HANA Stock will be replicated. The Shopify Location ID must be provided in the following format:</p> <ul style="list-style-type: none"> gid://shopify/Location/{SHOPIFY_LOCATION_ID} <p>Where {SHOPIFY_LOCATION_ID} is a placeholder for the corresponding Shopify location ID. For Example:</p> <ul style="list-style-type: none"> gid://shopify/Location/64685080687 gid://shopify/Location/68676845679 gid://shopify/Location/68744249455 	M
HTTP Session Reuse	<p>Configure the session handling scope for HTTP based endpoints. Choose one of the following options:</p> <ul style="list-style-type: none"> None - Session handling is switched off. On Exchange - Each exchange corresponds to a single session (use this option for stateful services). On Integration Flow - Only one session will be used across the whole integration flow (only use this option for stateless services). <p>Default Value: On Exchange</p>	O

- Configure the “Pre_Exit_iFlow” Receiver

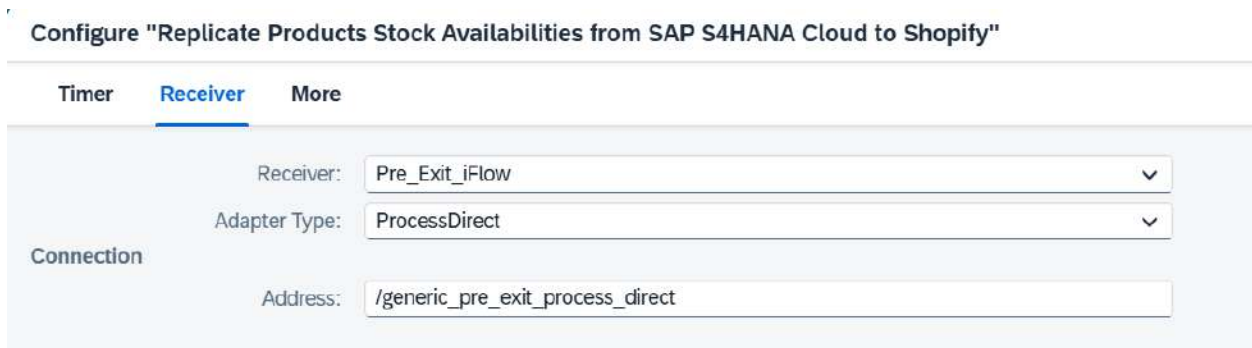


Figure 4.3.4.10 Configuring the Integration Flow's Pre_Exit_iFlow Receiver

The description of each of the fields in Figure 4.3.4.10 is presented in the table below

Externalized Parameter	Description	Mandatory / Optional
Address	<p>Contains the Integration Flow address which will be triggered during the execution of the Pre-Exit Integration Flow Step. For Example:</p> <ul style="list-style-type: none"> • /generic_pre_exit_process_direct <p>Note: This will be taken into consideration only if Customer Pre-Exits are enabled, denoted by the "Customer Pre-Exit Flow Enabled" Parameter mentioned above</p>	O

- Configure the "Post_Exit_iFlow" Receiver

Configure "Replicate Products Stock Availabilities from SAP S4HANA Cloud to Shopify"

Timer
Receiver
More

Receiver:

Adapter Type:

Connection

Address:

Figure 4.3.4.11 Configuring the Integration Flow's Post_Exit_iFlow Receiver

The description of each of the fields in Figure 4.3.4.11 is presented in the table below

Externalized Parameter	Description	Mandatory / Optional
Address	<p>Contains the Integration Flow address which will be triggered during the execution of the Post-Exit Integration Flow Step.</p> <p>For Example:</p> <ul style="list-style-type: none"> • /generic_post_exit_process_direct <p>Note: This will be taken into consideration only if Customer Post-Exits are enabled, denoted by the “Customer Post-Exit Flow Enabled” Parameter mentioned above</p>	O

- Save and deploy

4.3.5 Replicate Products from SAP S4HANA Cloud Public Edition to Shopify

This integration flow enables the synchronization of the Product data by replicating the

Product Master Data from SAP S/4HANA Cloud Public Edition to Shopify as Products. Whenever the integration flow is started it will create or update all product data in Shopify. The integration flow will determine the “Delta”, of the products that need to be fetched, by observing the flow’s last execution time and the Last Update Date of them. As part of the process Material Replication iFlow also triggers the Stock Replication flow that will replicate the stock availability into the Shopify’s store and Replicate Product Price and Discount that will replicate discounts and prices. The figure below depicts the business process that is implemented:

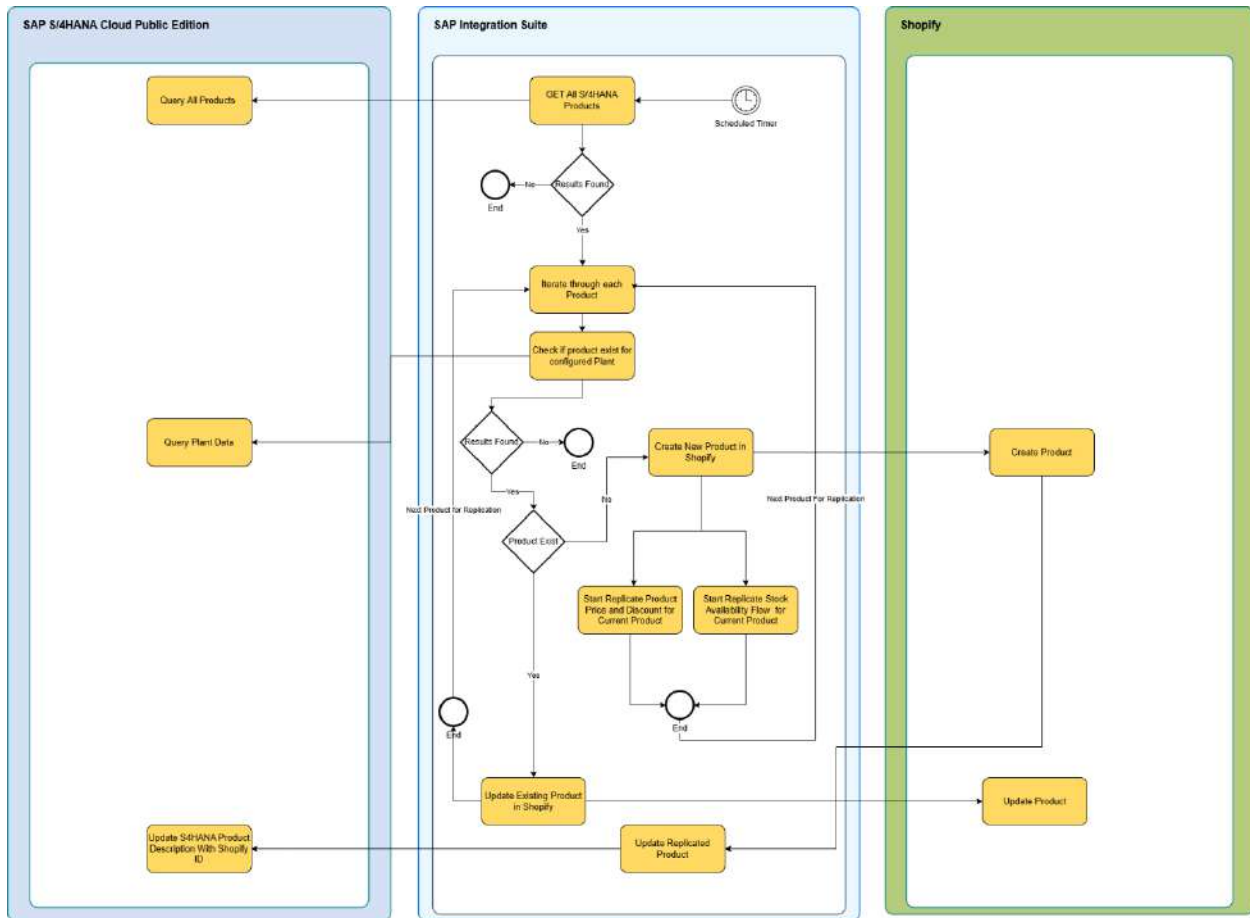


Figure 4.2.3 Replicate SAP S4HANA Cloud Material to Shopify

4.3.5.1 Prerequisites

The following actions must be performed as a prerequisite:

- Deploy the security artifacts that are required during the configuration of the Integration Content
- Configure and Deploy the Replicate Single Product Stock Availability from SAP S4HANA Cloud Public Edition to Shopify Integration flow
- Configure and Deploy the Replicate Product Price and Discount from SAP S4HANA Cloud Public Edition to Shopify Integration flow

4.3.5.2 Configuration

Follow the steps below to configure the Integration Flow:

- Open the “Replicate Products from SAP S4HANA Cloud Public Edition to Shopify” Integration Flow
- Click on Configure

- Configure the Timer as per the business operations
- Configure the “Receiver” connector “S4HANA” for Products and Plant Details

Configure "Replicate Products from SAP S4HANA Cloud Public Edition to Shopify"

Timer

Receiver

More

Connection

SAP S4HANA Cloud Base URL:

Processing

Receiver:

Adapter Type:

Address:

SAP S4HANA Cloud Base URL:

Proxy Type:

Authentication:

Credential Name:

CSRF Protected:

Reuse Connection:

Custom Query Options:

Custom Product Filter:

Timeout (in min):

Figure 4.3.5.1 Configuring the Replicate Products from SAP S4HANA Cloud Public Edition to Shopify Integration Flow

Configure "Replicate Products from SAP S4HANA Cloud Public Edition to Shopify"

Timer Receiver More

Connection

Receiver: SAP_S4HANA_Cloud_GET_Plant_Details

Adapter Type: HCIOData

Address: {{SAP_S4HANA_Cloud_Base_URL}}/sap/opu/odata/sap/API_PRODUCT_SRV

SAP S4HANA Cloud Base URL: https://xxxx-api.s4hana.cloud.sap

Proxy Type: Internet

Authentication: Basic

Credential Name: s4hana_credentials

CSRF Protected:

Reuse Connection:

Processing

Custom Query Options: \$filter=Product eq '\${property.s4hana_product_id}' {{Custom Plant Filter}}

Custom Plant Filter: and Plant eq 'XXXX'

Timeout (in min): 1

Figure 4.3.5.2 Configuring the Replicate Products from SAP S4HANA Cloud Public Edition to Shopify Integration Flow

The description of each of the fields in Figure 4.3.5.1 and 4.3.5.2 is presented in the table below. Both have most properties in common with one exception, "Custom Plant Filter" and "Custom Product Filter".

Externalized Parameter	Description	Mandatory / Optional
SAP S/4HANA Cloud Base URL	Specify the SAP S/4HANA Cloud API Base URL For Example: <ul style="list-style-type: none"> https://xxxx-api.s4hana.cloud.sap 	M
Proxy Type	The type of proxy you want to use for establishing connection with the OData V2 service. Default value: Internet	M
Authentication	Authentication method that you want to use for connecting to the OData V2 service. Default value: Basic	M
Credential Name	Specify the name of the deployed User Credentials Security Material that holds the	M

Externalized Parameter	Description	Mandatory / Optional
	username and password used to authenticate with SAP S/4HANA Cloud	
CSRF Protected	Keep this option selected (default setting). It ensures that your integration flow is protected against Cross-Site-Request-Forgery, a kind of attack where a malicious party can perform harmful actions by masquerading as the logged in user	O
Reuse Connection	The option is enabled by default. This option enables the reuse of connection objects from the internal connection pool, which in turn improves the network turnaround time for multiple communications to a same end point.	O
Timeout (in min)	Specify the maximum time (in minutes) the system waits for a response from the OData V2 service before the connection attempt is terminated	O
Custom Plant Filter	<p>The Plant can represent the Shopify Store in SAP S/4HANA Cloud. This filter is used to replicate only Products from the specified Plant.</p> <p>It is mandatory for this filter to be configured by replacing the placeholder value 'XXXX' with the corresponding Plant from which products must be sourced to the Shopify Store.</p> <p>For Example:</p> <ul style="list-style-type: none"> • and Plant eq '1234' 	M
Custom Product Filter	This can be used as an additional filter for narrowing down the Products that will be processed and replicated	O
Location ID	It is visible only when On-Premise is selected for Proxy type. Used to connect Cloud SAP Connector with your account.	O
Private Key Alias		O

Externalized Parameter	Description	Mandatory / Optional
	It is visible only when Client Certificate is selected for Authentication. Enter the alias of the deployed private key.	

- Configure the Shopify “Receiver” connector

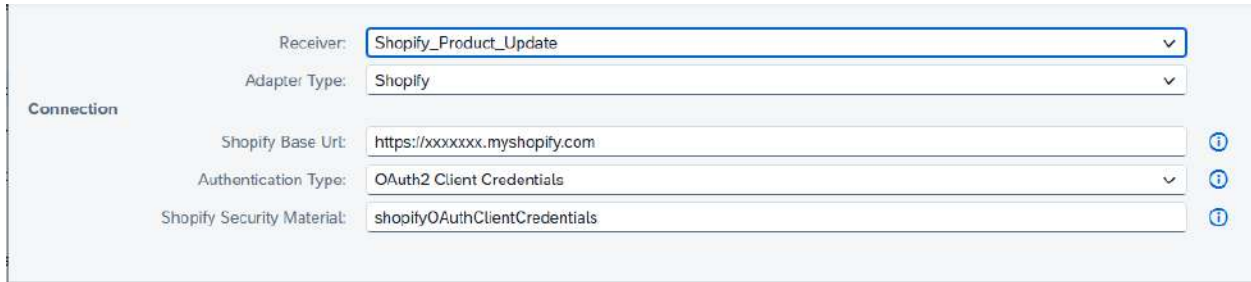


Figure 4.3.5.3 Configuring the Replicate Products from SAP S4HANA Cloud Public Edition to Shopify Integration Flow’s Shopify Configuration

The description of each of the fields in Figure 4.3.5.3 is presented in the Customer Configurable Parameters section above. There are three different configurations for Shopify Receivers, but you need to configure just one of them (doesn't matter which one of the three you will choose, the configured details will be propagated to the rest)

Externalized Parameter	Description	Mandatory / Optional
Shopify Base Url	Base URL of Shopify Store For Example: <ul style="list-style-type: none"> • https://xxxxxxx.myshopify.com 	M
Authentication Type	Specify the authentication type Supported values: <ul style="list-style-type: none"> • Access Token • OAuth2 Client Credentials 	M
Shopify Security Material	Provide the name of the Security Material containing the authorization information used for the Shopify connection	M

- Configure “More” as shown in the figure below

Configure "Replicate Products from SAP S4HANA Cloud Public Edition to Shopify"

Timer Receiver **More**

Type: All Parameters

Customer Post-Exit Flow: /generic_post_exit_process_direct

Customer Post-exit Flow Enabled: false

Customer Pre-Exit Flow: /generic_pre_exit_process_direct

Customer Pre-Exit Flow Enabled: false

HTTP Session Reuse: onExchange

Log Exceptions: true

Logging Enabled: false

SAP S4HANA Cloud Description Language C... : A0

SAP S4HANA Cloud Last Request Date: 1970-01-01T00:00:00

SAP S4HANA Cloud Plant: XXXX

SAP S4HANA Cloud Storage Location IDs:

Shopify Location ID: gid://shopify/Location/XXXXXXXX

Figure 4.3.5.4 Configuring the Replicate Products from SAP S4HANA Cloud Public Edition to Shopify Integration Flow's More Configuration

The description of each of the fields in Figure 4.3.5.4 is presented in the table below. Please keep in mind that the Replicate SAP S4HANA Cloud Material to Shopify is calling Product Stock Replication Flow, so you need to configure and deploy it also.

Externalized Parameter	Description	Mandatory / Optional
Customer Post-Exit Flow Enabled	Indicates whether a custom Customer Post-Exit Flow is enabled. If this is enabled the "CustomerPostExitFlow" Receiver must be configured. Valid values: <ul style="list-style-type: none"> • true • false 	O
Customer Pre-Exit Flow Enabled	Indicates whether a custom Customer Pre-Exit Flow is enabled. If this is enabled the "CustomerPreExitFlow" Receiver must be configured. Valid values: <ul style="list-style-type: none"> • true • false 	O
Customer Post-Exit Flow	Link to the Customer Post-Exit Integration Flow.	O

Externalized Parameter	Description	Mandatory / Optional
	<p>Mandatory in case “Customer Post-Exit Flow Enabled” is set to “true”</p> <p>For Example:</p> <ul style="list-style-type: none"> • /generic_post_exit_process_direct 	
Customer Pre-Exit Flow	<p>Link to the Customer Pre-Exit Integration Flow. Mandatory in case “Customer Pre-Exit Flow Enabled” is set to “true”</p> <p>For Example:</p> <ul style="list-style-type: none"> • /generic_pre_exit_process_direct 	O
SAP S4HANA Cloud Storage Location IDs	<p>Storage locations are the places where stock is physically kept within a plant. This parameter can store a list of items with comma for delimiter. If no locations are specified, the management will take all available.</p> <p>For Example:</p> <ul style="list-style-type: none"> • 381A • 381B 	O
SAP S4HANA Cloud Plant	<p>The Plant representing the Shopify Store in S4HANA Cloud Environment.</p> <p>For Example:</p> <ul style="list-style-type: none"> • 1234 • 3810 • 1010 	M
Shopify Location ID	<p>The ID of Shopify Location for which we want to add inventory</p> <p>The Shopify Location ID must be provided in the following format:</p> <ul style="list-style-type: none"> • gid://shopify/Location/{SHOIFY_LOCATION_ID} <p>Where {SHOIFY_LOCATION_ID} is a placeholder for the corresponding Shopify location ID.</p>	M

Externalized Parameter	Description	Mandatory / Optional
	<p>For Example:</p> <ul style="list-style-type: none"> • gid://shopify/Location/64685080687 • gid://shopify/Location/68676845679 • gid://shopify/Location/68744249455 	
Log Exceptions	<p>Indicates whether logging of Exceptions, as attachments, is enabled. Default Value: true Valid values:</p> <ul style="list-style-type: none"> • true • false 	O
Logging Enabled	<p>Indicates whether Payloads from Shopify & S/4HANA Cloud will be persisted through “Persist Message” Valid Values:</p> <ul style="list-style-type: none"> • true • false 	O
SAP S4HANA Cloud Description Language Code	<p>This is the Language Code where a Shopify Product ID reference will be stored in, in the following format “Shopify ID: {Shopify Product Number}”. The default Language is “A0”, however, it can be reconfigured. We advise to use one of the initially inactive language codes such as “A0, A9, B0, etc.”. The language must also be activated and should not be used for any other management. The language activation can be done through the SAP S/4HANA Cloud Public Edition Fiori Application “Language Configuration” where the available inactive languages are listed, where one should be chosen and dedicated to be used as a Shopify Product ID. Every replicated product to SAP S/4HANA Cloud Public Edition will have this field populated with the corresponding Shopify Product ID reference. Default Value: A0 Valid values:</p> <ul style="list-style-type: none"> • A9 	M

Externalized Parameter	Description	Mandatory / Optional
	<ul style="list-style-type: none"> • B0 • Any language currently not used in SAP S/4HANA Cloud Public Edition for any other purposes 	
SAP S4HANA Cloud Last Request Date	<p>This Date is used to define boundaries for the first - Initial start for the replication flow. After the first start the flow will save the latest date automatically and will use it to determine the delta for materials extract.</p> <p>Valid Values are Dates in the following format:</p> <ul style="list-style-type: none"> • YYYY-MM-DDTHH:MM:SS <p>For Example:</p> <ul style="list-style-type: none"> • 1970-01-01T00:00:00 	O
HTTP Session Reuse	<p>Configure the session handling scope for HTTP based endpoints.</p> <p>Choose one of the following options:</p> <ul style="list-style-type: none"> • None - Session handling is switched off. • On Exchange - Each exchange corresponds to a single session (use this option for stateful services). • On Integration Flow - Only one session will be used across the whole integration flow (only use this option for stateless services). <p>Default Value: On Exchange</p>	O

- Save and deploy

4.3.6 Replicate B2C Customers from Shopify to SAP S/4HANA Cloud Public Edition

This integration flow consists of 2 integration processes. The first allows replication/update of customers from Shopify to SAP S/4HANA Cloud Public Edition as business partners. It is scheduled based on business needs. The second flow allows replicating of a single customer's data passed by another flow.

The figure below depicts the business process that is implemented:

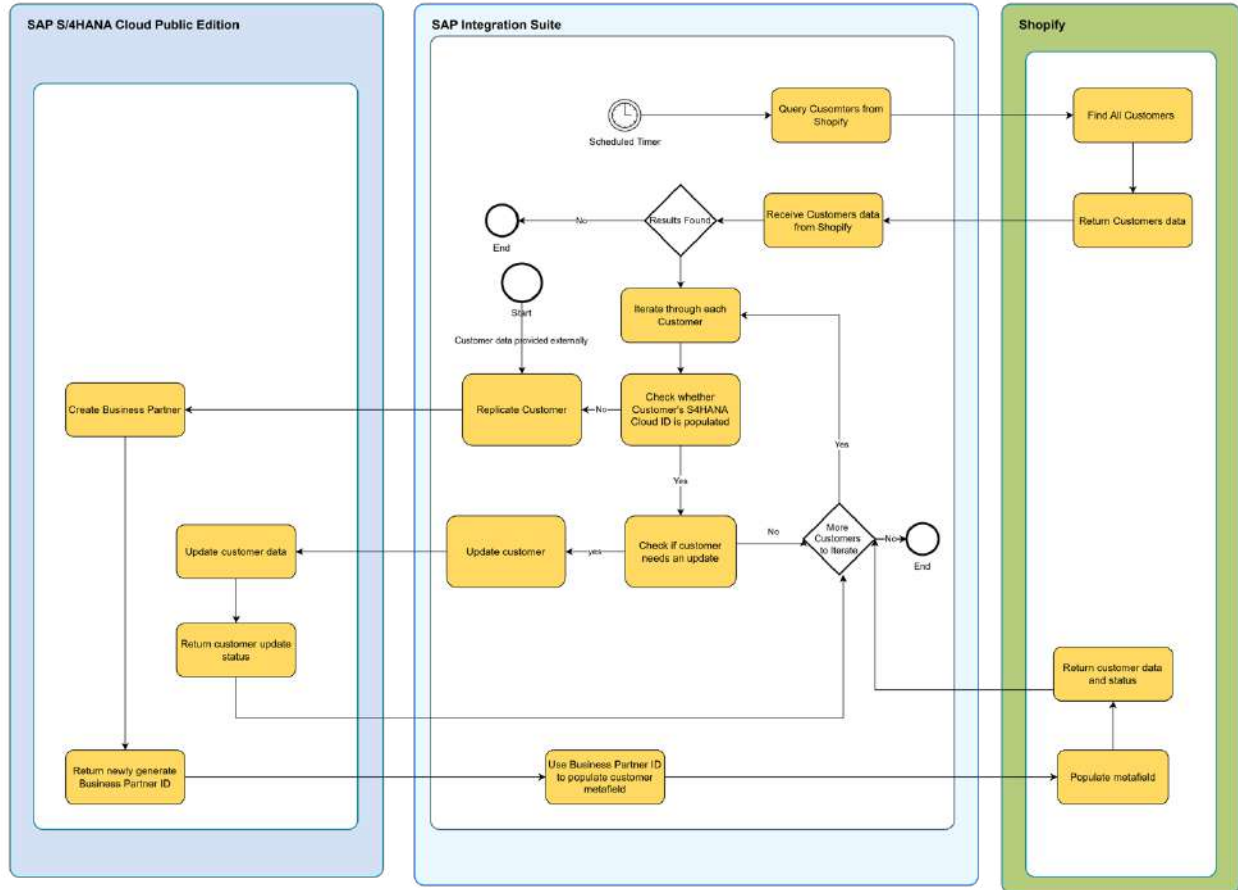


Figure 4.3.6 Replicate B2C Customers from Shopify to SAP S/4HANA Cloud Public Edition

4.3.6.1 Prerequisites

The following actions must be performed as a prerequisite:

- Deploy the security artifacts that are required during the configuration of the Integration Content

4.3.6.2 Configuration

Follow the steps below to configure the Integration Flow:

- Open the “Replicate B2C Customers from Shopify to SAP S/4HANA Cloud Public Edition” Integration Flow
- Click on Configure
- Configure the Timer as per the business operations

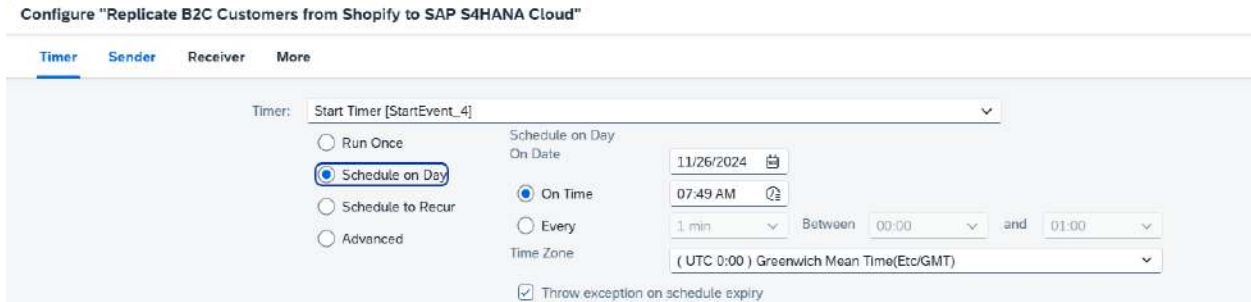


Figure 4.3.6.1 Configuring the Replicate B2C Customers from Shopify to SAP S/4HANA Cloud Public Edition Integration Flow’s Timer



Figure 4.3.6.2 Configuring the Replicate B2C Customers from Shopify to SAP S/4HANA Cloud Public Edition Integration Flow’s Sender

The description of each of the fields in Figure 4.3.6.2 is presented in the table below.

Externalized Parameter	Description	Mandatory / Optional
Single Customer Replication Process Direct Path	Specify the relative path for process direct to call “Trigger customer replication externally” This parameter’s value should not be modified. For Example: <ul style="list-style-type: none"> /replicateSingleCustomerToS/4HANACloud 	O

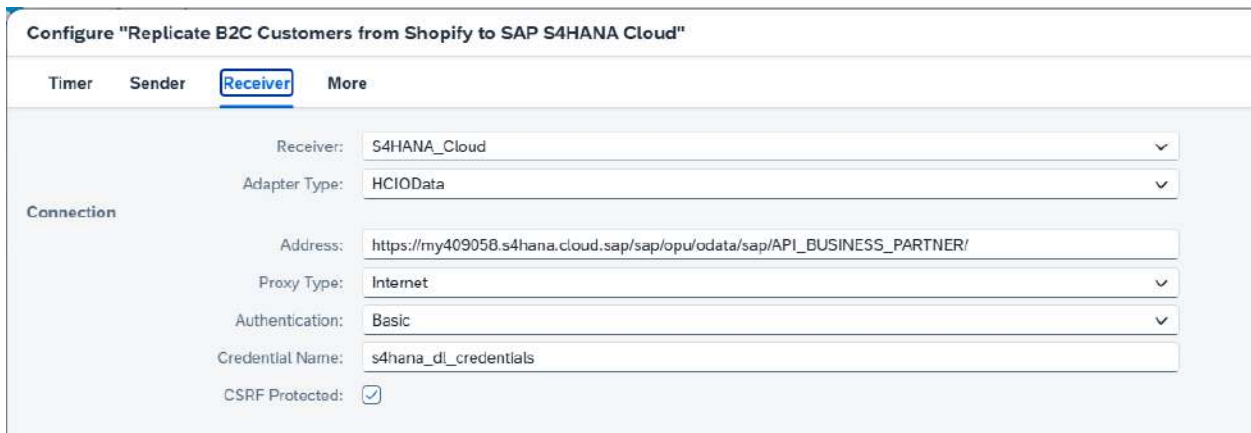


Figure 4.3.6.3 Configuring the Integration Flow's SAP S/4HANA Cloud Configuration

The description of each of the fields in Figure 4.3.6.3 is presented in the table below.

Externalized Parameter	Description	Mandatory / Optional
SAP S/4HANA Cloud Base URL	Specify the SAP S/4HANA Cloud API Base URL For Example: <ul style="list-style-type: none"> https://xxxxxxx-api.s4hana.cloud.sap 	M
Proxy Type	The type of proxy you want to use for establishing connection with the OData V2 service. Default value: Internet	M
Authentication	Authentication method that you want to use for connecting to the OData V2 service. Default value: Basic	M
Credential Name	Specify the name of the deployed User Credentials Security Material that holds the username and password used to authenticate with SAP S/4HANA Cloud	M
CSRF Protected	Keep this option selected (default setting). It ensures that your integration flow is protected against Cross-Site-Request-Forgery, a kind of attack where a malicious party can perform harmful actions by masquerading as the logged in user	O
Location ID	It is visible only when On-Premise is selected for Proxy type. Used to connect Cloud SAP Connector with your account.	O
Private Key Alias	It is visible only when Client Certificate is selected for Authentication. Enter the alias of the deployed private key.	O

- Configure the “Receiver” connector “Shopify”

The screenshot shows a configuration form for a connection. The fields are as follows:

- Receiver: Shopify_Product_Update
- Adapter Type: Shopify
- Shopify Base Url: https://xxxxxxx.myshopify.com
- Authentication Type: OAuth2 Client Credentials
- Shopify Security Material: shopifyOAuthClientCredentials

Figure 4.3.6.4 Configuring the Integration Flow’s Shopify Configuration

The description of each of the fields in Figure 4.3.6.4 is presented in the table below. There are two different configurations for Shopify Receivers, but you need to configure just one of them (doesn't matter which one of the two you will choose, the configured details will be propagated to the rest as they share common configuration)

Externalized Parameter	Description	Mandatory / Optional
Shopify Base Url	Base URL of Shopify Store For Example: <ul style="list-style-type: none"> https://xxxxxxx.myshopify.com 	M
Authentication Type	Specify the authentication type Supported values: <ul style="list-style-type: none"> Access Token OAuth2 Client Credentials 	M
Shopify Security Material	Provide the name of the Security Material containing the authorization information used for the Shopify connection	M

- Configure “More” as shown in the figure below

Configure "Replicate B2C Customers from Shopify to SAP S4HANA Cloud Public Edition"

Timer	Sender	Receiver	More
		Type:	All Parameters
		Customer Post-Exit Flow Enabled:	false
		Customer Pre-Exit Flow Enabled:	false
		Exception Logging:	true
		Fallback Country:	US
		Fallback Language:	en
		HTTP Session Reuse:	onExchange
		Incoterms Classification:	EXW
		Incoterms Location 1:	Inco. Location 1
		Logging Enabled:	false
		SAP S/4HANA Cloud Business Partner Categ... :	2
		SAP S/4HANA Cloud Business Partner Group... :	OR
		SAP S/4HANA Cloud Business Partner Role 1:	FLCU01
		SAP S/4HANA Cloud Business Partner Role 2:	FLCU00
		SAP S/4HANA Cloud Business Partner Tax N... :	999999999
		SAP S/4HANA Cloud Business Partner Tax Ty... :	BG3
		SAP S/4HANA Cloud Customer Company Code:	XXXX
		SAP S/4HANA Cloud Customer Distribution C... :	10
		SAP S/4HANA Cloud Customer Division:	00
		SAP S/4HANA Cloud Customer Sales Area C... :	BGN
		SAP S/4HANA Cloud Customer Sales Organi... :	XXXX
		SAP S/4HANA Cloud Customer Tax Category:	TTX1
		SAP S/4HANA Cloud Departure Country:	BG
		SAP S/4HANA Cloud Payment Terms:	0001
		SAP S/4HANA Cloud Reconciliation Account:	12100000
		SAP S/4HANA Cloud Shipping Condition:	01
		Shopify Customers Query Limit:	200
		Shopify Default Initial Request Timestamp:	1970-01-01T00:00:00Z

Figure 4.3.6.5 Configuring the Integration Flow's More Configuration

The description of each of the fields in Figure 4.3.6.5 is presented in the table below

Externalized Parameter	Description	Mandatory / Optional
Customer Payment Terms	The Payment Terms for the Customer For Example: <ul style="list-style-type: none"> • 0001 	M
Shopify Default Initial Request Timestamp		O

Externalized Parameter	Description	Mandatory / Optional
	<p>This Date is used to define boundaries for the first - Initial start for the replication flow. After the first start the flow will save the latest date automatically and will use it to determine the delta for materials extract.</p> <p>Valid Values are timestamps in the following format</p> <ul style="list-style-type: none"> • yyyy-MM-dd'T'HH:mm:ss'Z' <p>For Example:</p> <ul style="list-style-type: none"> • 1970-01-01T00:00:00Z 	
Fallback Country	Used in case of a missing Country for Shopify Customer. When replicating to S4HANA, it will fall back to the value of the parameter	M
Fallback language	<p>Default Language</p> <p>For Example:</p> <ul style="list-style-type: none"> • en 	O
Incoterms Classification	<p>Incoterms classification</p> <p>Example of a valid value:</p> <ul style="list-style-type: none"> • EXW 	O
Incoterms Location 1	<p>Incoterms location</p> <p>Example of a valid value:</p> <ul style="list-style-type: none"> • Inco. Location 1 	O
SAP S/4HANA Cloud Business Partner Grouping	<p>The Business Partner Grouping type</p> <p>For Example:</p> <ul style="list-style-type: none"> • OR 	O
SAP S/4HANA Cloud Business Partner Role 1	The Business Partner "Customer" Role code:	O

Externalized Parameter	Description	Mandatory / Optional
	Valid Value: <ul style="list-style-type: none"> • FLCU01 	
SAP S/4HANA Cloud Business Partner Role 2	The Business Partner “Fin Customer” Role code: Valid Value: <ul style="list-style-type: none"> • FLCU00 	O
SAP S/4HANA Cloud Business Partner Category	The Business Partner Category type Valid Value: <ul style="list-style-type: none"> • 2 	O
SAP S/4HANA Cloud Business Tax Number	The Business Partner Tax number Default Value: <ul style="list-style-type: none"> • 999999999 	O
SAP S/4HANA Cloud Business Tax Type	The Business Partner Tax Type For Example: <ul style="list-style-type: none"> • BG3 	M
SAP S/4HANA Cloud Customer Company Code	The Company Code of the Customer For Example: <ul style="list-style-type: none"> • 3810 	M
SAP S/4HANA Cloud Customer Sales Area Currency	The Currency Code of the Sales Area for a given customer For Example: <ul style="list-style-type: none"> • BGN 	M
SAP S/4HANA Cloud Departure Country	The Departure Country Code of the Tax Sales Area for a given customer	M

Externalized Parameter	Description	Mandatory / Optional
	For Example: <ul style="list-style-type: none"> • BG 	
SAP S/4HANA Cloud Payment Terms	Payment Terms Code of a company for a given customer For Example: <ul style="list-style-type: none"> • 0001 	M
SAP S/4HANA Cloud Reconciliation Account	Payment Terms Code of a company for a given customer For Example: <ul style="list-style-type: none"> • 12100000 	M
SAP S/4HANA Cloud Shipping Code	Shipping Code For Example: <ul style="list-style-type: none"> • 01 	M
SAP S/4HANA Cloud Tax Category	Condition code for Tax amount, also need to allow manual input For Example: <ul style="list-style-type: none"> • TTX1 	M
SAP S/4HANA Cloud Distribution Channel	Customer Distribution Channel For Example: <ul style="list-style-type: none"> • 10 	M
SAP S/4HANA Cloud Division	Customer Division For Example: <ul style="list-style-type: none"> • 00 	M
SAP S/4HANA Cloud Sales Organization	Customer Sales Organization	M

Externalized Parameter	Description	Mandatory / Optional
	For Example: <ul style="list-style-type: none"> • 3810 	
Shopify Customer Query Limit	Customer should choose a value that corresponds to his Shopify Store Rate Limit for GraphQL API's. This limit is used when we obtain information from Shopify and can affect the performance. For Example: <ul style="list-style-type: none"> • 10 	O
Customer Post-Exit Flow	Link to the Customer Post-Exit Integration Flow. Mandatory in case " Customer Post-Exit Flow Enabled " is set to " true " For Example: <ul style="list-style-type: none"> • /generic_post_exit_process_direct 	O
Customer Post-Exit Flow Enabled	Indicates whether the Customer Post-Exit flow is Enabled	O
Customer Pre-Exit Flow	Link to the Customer Pre-Exit Integration Flow. Mandatory in case " Customer Pre-Exit Flow Enabled " is set to " true " For Example: <ul style="list-style-type: none"> • /generic_pre_exit_process_direct 	O
Customer Pre-Exit Flow Enabled	Indicates whether the Customer Pre-Exit flow is Enabled	O

Externalized Parameter	Description	Mandatory / Optional
Logging Enabled	Indicates whether Payloads from Shopify & S/4HANA Cloud will be persisted through “Persist Message” Valid Values: <ul style="list-style-type: none"> • true • false 	O
Exception Logging	Indicates whether logging of Exceptions, as attachments, is enabled. Default Value: true Valid values: <ul style="list-style-type: none"> • true • false 	O
HTTP Session Reuse	Configure the session handling scope for HTTP based endpoints. Choose one of the following options: <ul style="list-style-type: none"> • None - Session handling is switched off. • On Exchange - Each exchange corresponds to a single session (use this option for stateful services). • On Integration Flow - Only one session will be used across the whole integration flow (only use this option for stateless services). Default Value: On Exchange	O

- Save and deploy

4.3.7 Replicate Orders from Shopify to SAP S4HANA Cloud Public Edition

The integration flow allows replication of Orders from Shopify to SAP S/4HANA Cloud Sales Orders. The figure below depicts the business process that is implemented:

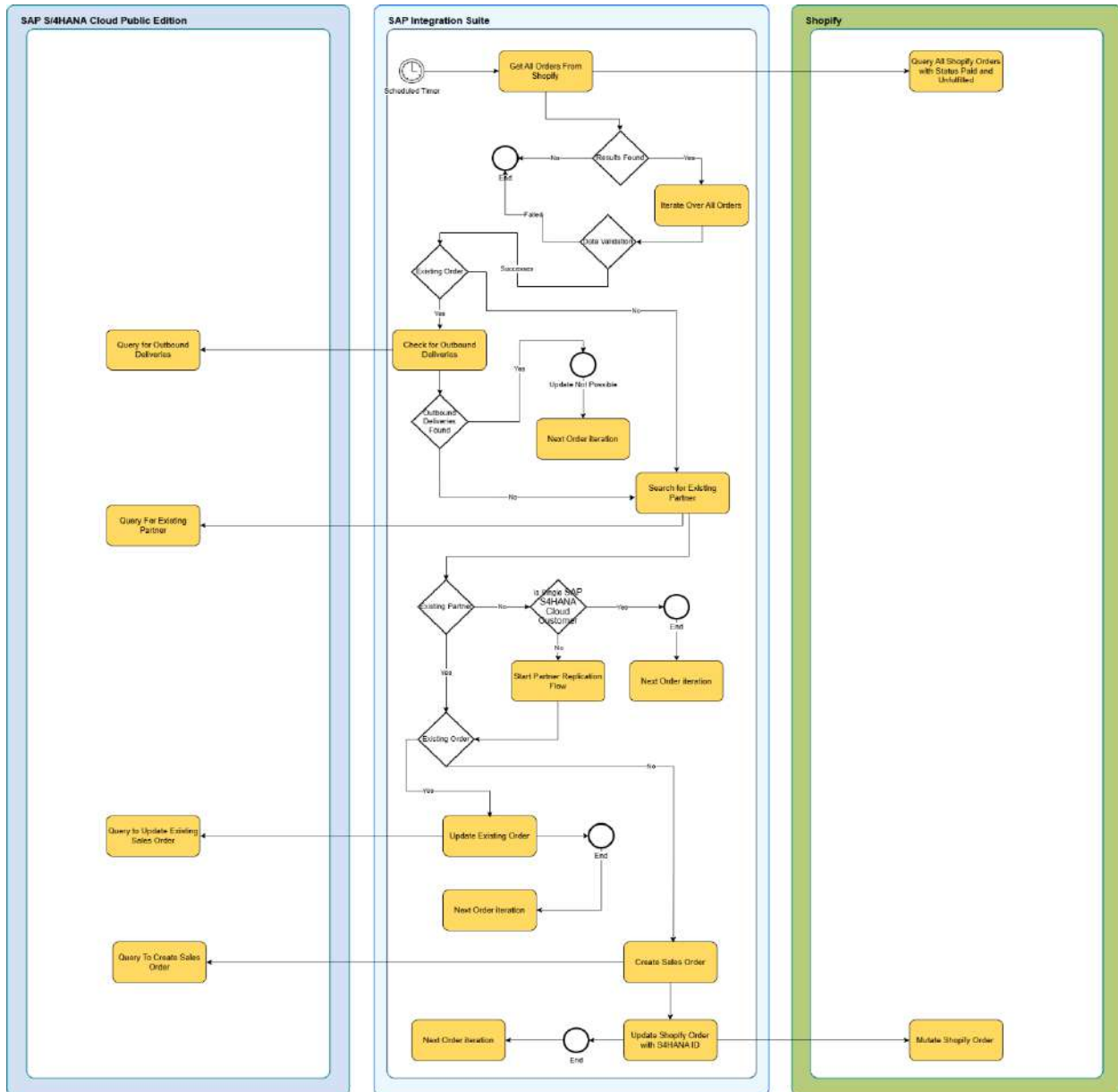


Figure 4.3.7 Replicate Shopify Orders to SAP S/4HANA Cloud Sales Orders

4.3.7.1 Prerequisites

The following actions must be performed as a prerequisite:

- Deploy the security artifacts that are required during the configuration of the Integration Content
- Configure and Deploy the “Replicate B2C Customers from Shopify to SAP S/4HANA Cloud Public Edition” Integration Flow
- Configure the correct condition types in SAP S/4HANA Cloud Public Edition

4.3.7.2 Configuration

Follow the steps below to configure the Integration Flow:

- Open the “Replicate Orders from Shopify to SAP S4HANA Cloud Public Edition” Integration Flow
- Click on Configure
- Configure the Timer as per the business operations

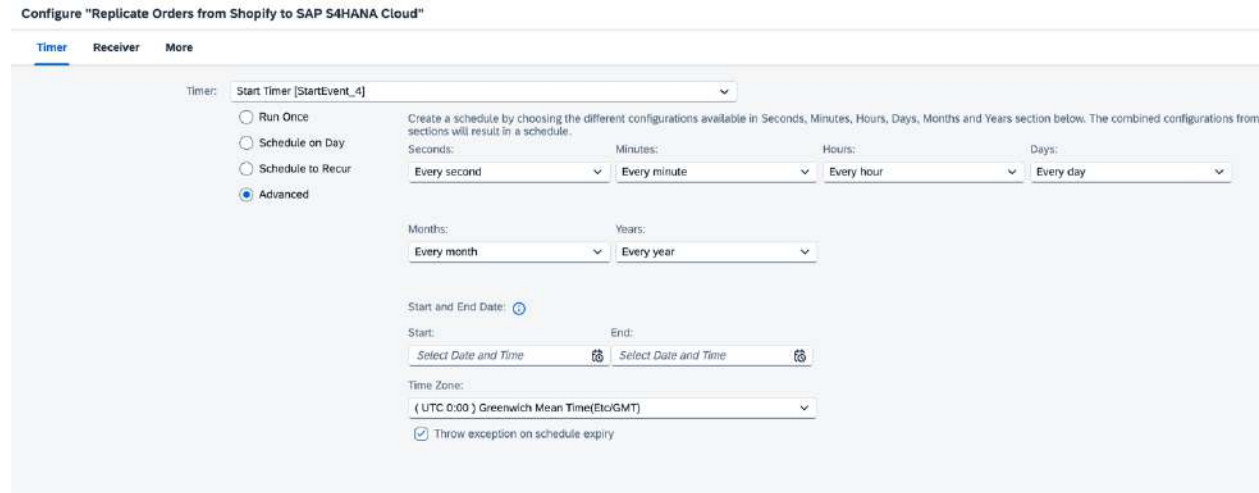


Figure 4.3.7.1 Configuring the Replicate Shopify Order to SAP S4HANA Cloud Public Edition Integration Flow’s Timer

- Configure the SAP S/4HANA Cloud Receivers

The receivers share a common configuration and configuring just one of them is sufficient.

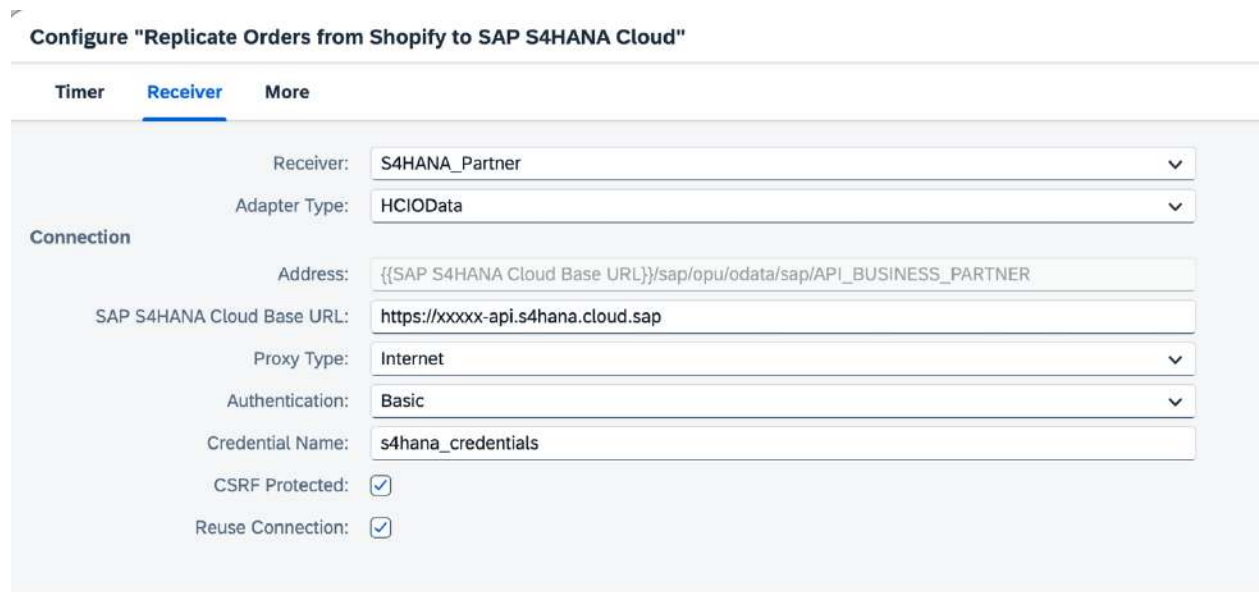


Figure 4.3.7.2 Configuring the Replicate Shopify Order to SAP S4HANA Cloud Public Edition Integration Flow's SAP S/4HANA Cloud Configuration

Configure "Replicate Orders from Shopify to SAP S4HANA Cloud"

Timer Receiver More

Receiver: S4HANA_CREATE_ORDER

Adapter Type: HCIOData

Connection

Address: {{SAP S4HANA Cloud Base URL}}/sap/opu/odata/sap/API_SALES_ORDER_SRV/

SAP S4HANA Cloud Base URL: https://xxxx-api.s4hana.cloud.sap

Proxy Type: Internet

Authentication: Basic

Credential Name: s4hana_credentials

CSRF Protected:

Reuse Connection:

Figure 4.3.7.3 Configuring the Replicate Shopify Order to SAP S4HANA Cloud Public Edition Integration Flow's SAP S/4HANA Cloud Configuration

Configure "Replicate Orders from Shopify to SAP S4HANA Cloud"

Timer Receiver More

Receiver: S4HANA_Outbound_Document

Adapter Type: HCIOData

Connection

Address: {{SAP S4HANA Cloud Base URL}}/sap/opu/odata/sap/API_SALES_ORDER_SRV

SAP S4HANA Cloud Base URL: https://xxxx-api.s4hana.cloud.sap

Proxy Type: Internet

Authentication: Basic

Credential Name: s4hana_credentials

CSRF Protected:

Reuse Connection:

Figure 4.3.7.4 Configuring the Replicate Shopify Order to SAP S4HANA Cloud Public Edition Integration Flow's SAP S/4HANA Cloud Configuration

The description of each of the fields in Figure 4.3.7.4 is presented in the table below.

Externalized Parameter	Description	Mandatory / Optional
	Specify the SAP S/4HANA Cloud API Base URL	

Externalized Parameter	Description	Mandatory / Optional
SAP S/4HANA Cloud Base URL	For Example: <ul style="list-style-type: none"> https://xxxxxxx-api.s4hana.cloud.sap 	M
Proxy Type	The type of proxy you want to use for establishing connection with the OData V2 service. Default value: Internet	M
Authentication	Authentication method that you want to use for connecting to the OData V2 service. Default value: Basic	M
Credential Name	Specify the name of the deployed User Credentials Security Material that holds the username and password used to authenticate with SAP S/4HANA Cloud	M
CSRF Protected	Keep this option selected (default setting). It ensures that your integration flow is protected against Cross-Site-Request-Forgery, a kind of attack where a malicious party can perform harmful actions by masquerading as the logged in user	O
Reuse Connection	The option is enabled by default. This option enables the reuse of connection objects from the internal connection pool, which in turn improves the network turnaround time for multiple communications to a same end point.	O
Location ID	It is visible only when On-Premise is selected for Proxy type. Used to connect Cloud SAP Connector with your account.	O
Private Key Alias	It is visible only when Client Certificate is selected for Authentication. Enter the alias of the deployed private key.	O

- Configure the “Receiver” connector “Shopify”

Figure 4.3.7.5 Configuring the Replicate Shopify Order to SAP S4HANA Cloud Public Edition Integration Flow’s Shopify Configuration

The description of each of the fields in Figure 4.3.7.5 is presented in the table below. There are two different configurations for Shopify Receivers, but you need to configure just one of them (doesn't matter which one of the two you will choose, the configured details will be propagated to the rest as they share common configuration)

Externalized Parameter	Description	Mandatory / Optional
Shopify Base Url	Base URL of Shopify Store For Example: <ul style="list-style-type: none"> https://xxxxxxx.myshopify.com 	M
Authentication Type	Specify the authentication type Supported values: <ul style="list-style-type: none"> Access Token OAuth2 Client Credentials 	M
Shopify Security Material	Provide the name of the Security Material containing the authorization information used for the Shopify connection	M

- Configure “More” as shown in the figure below

Configure "Replicate Orders from Shopify to SAP S4HANA Cloud Public Edition"

Timer **Receiver** **More**

Type: All Parameters

Custom S4HANA Cloud Outbound Filter: SubsequentDocumentCategory eq 'J'

Customer Exit Flow Enabled: false

Customer Exit Flow ID: /generic_customer_exit_process_direct

Customer Exit Header:

Customer Payment Terms: 0001

Customer Post-Exit Flow Enabled: false

Customer Post-Exit Flow ID: /generic_post_exit_process_direct

Customer Pre-Exit Flow Enabled: false

Customer Pre-Exit Flow ID: /generic_pre_exit_process_direct

HTTP Session Reuse: onExchange

Log Exceptions: true

Logging Enabled: false

SAP S4HANA Cloud Base URL: https://XXXX-api.s4hana.cloud.sap/

SAP S4HANA Cloud Billing Text Code: TX05

SAP S4HANA Cloud Credential Name: s4hana_credentials

SAP S4HANA Cloud Discount Condition Code: ZK07

SAP S4HANA Cloud Distribution Channel: 10

SAP S4HANA Cloud Division: 00

SAP S4HANA Cloud Language Code: EN

SAP S4HANA Cloud Last Request Date: 1970-01-01T00:00:00

SAP S4HANA Cloud Material Condition Code: ZM01

SAP S4HANA Cloud Partner Function Bill-To: BP

SAP S4HANA Cloud Partner Function Ship-To: SH

SAP S4HANA Cloud Price Condition Code: ZPR0

SAP S4HANA Cloud Sales Order Type: OR

SAP S4HANA Cloud Sales Organisation: XXXX

SAP S4HANA Cloud Shipping Condition Code: ZBHD

SAP S4HANA Cloud Shipping Scenario Code: 01

SAP S4HANA Cloud Tax Condition Code: TTX1

Shopify Customer Query Limit: 10

Shopify GraphQL Order Custom Filter: financial_status:paid fulfillment_status:unfulfilled

Single SAP S4HANA Cloud Customer:

Figure 4.3.7.6 Configuring the Replicate Shopify Order to SAP S4HANA Cloud Public Edition Integration Flow's More Configuration

Externalized Parameter	Description	Mandatory / Optional
Custom S4HANA Cloud Outbound Filter	<p>This parameter can be used to narrow down the created outbound delivery for a Sales Order in client's SAP S4HANA Cloud Environment For Example:</p> <ul style="list-style-type: none"> SubsequentDocumentCategory eq 'J' 	O

Externalized Parameter	Description	Mandatory / Optional
Customer Exit Flow Enabled	Indicates whether the Customer Exit flow is Enabled	O
Customer Exit Flow	Link to the Customer Exit Integration Flow. Mandatory in case “ Customer Exit Flow Enabled ” is set to “ true ” For Example: <ul style="list-style-type: none"> • /generic_customer_exit_process_direct 	O
Customer Exit Header	This configured parameter is a header which accepts an expression, like an exchange property in the valid values or a custom constant, plain text. The value will be directed to the third-part flow, configured by the customer. This header will not interfere with the main flow, it is only to be consumed from the custom Customer iFlow. Valid Values are in the following format: <ul style="list-style-type: none"> • \${property.some_property} • \${header.some_header} • example_text 	O
Customer Payment Terms	The Payment Terms for the Customer For Example: <ul style="list-style-type: none"> • 0001 	O
SAP S4HANA Cloud Last Request Date	This Date is used to define boundaries for the first - Initial start for the replication flow. After the first start the flow will save the latest date automatically and will use it to determine the delta for materials extract. Valid Values are Dates in the following format: <ul style="list-style-type: none"> • YYYY-MM-DDTHH:MM:SS For Example: <ul style="list-style-type: none"> • 1970-01-01T00:00:00 	O

Externalized Parameter	Description	Mandatory / Optional
SAP S4HANA Cloud Billing Text Code	<p>This is the code of the Billing Text in the Sales order Item Level located in the Text. This text is used to save the payment details coming from Shopify. The customer can use different code if he wants to store the note on different text item. For Example:</p> <ul style="list-style-type: none"> • TX05 	M
SAP S4HANA Cloud Language Code	<p>Default Language For Example:</p> <ul style="list-style-type: none"> • EN 	O
SAP S4HANA Cloud Partner Function Ship-To	<p>The Code for the Ship-To Partner Function For Example:</p> <ul style="list-style-type: none"> • SH 	M
SAP S4HANA Cloud Partner Function Bill-To	<p>The code for The Bill-To Partner Function For Example:</p> <ul style="list-style-type: none"> • BP 	M
SAP S4HANA Cloud Material Condition Code	<p>This is the used Condition Type to set up the promotions for the material/product in SAP S4HANA Public Cloud. For Example:</p> <ul style="list-style-type: none"> • ZM01 	
SAP S4HANA Cloud Sales Order Type	<p>The Sales Order type For Example:</p> <ul style="list-style-type: none"> • OR 	M
SAP S4HANA Cloud Price Condition Code	<p>The default condition code for the Price comes from Shopify. The customer can choose a different one, but it needs to allow manual input.</p>	M

Externalized Parameter	Description	Mandatory / Optional
	For Example: <ul style="list-style-type: none"> • PPRO 	
SAP S4HANA Cloud Shipping Scenario Code	Shipping Scenario Code For Example: <ul style="list-style-type: none"> • 01 	M
SAP S4HANA Cloud Shipping Condition Code	The Condition Code for Shipping amount. For Example: <ul style="list-style-type: none"> • YBHD 	M
SAP S4HANA Cloud Tax Condition Code	Condition code for Tax amount, also need to allow manual input For Example: <ul style="list-style-type: none"> • TTX1 	M
SAP S4HANA Cloud Discount Condition Code	This is the Condition Code used to store the discount coming from Shopify. Customer can choose different one associated with his environment, but it needs to allow manual input. For Example: <ul style="list-style-type: none"> • YK07 	M
Shopify GraphQL Order Custom Filter	Filter that will narrow down the Orders that are extracted form Shopify and replicated to SAP S4HANA Cloud For Example: <ul style="list-style-type: none"> • financial_status:paid • fulfillment_status:unfulfilled 	O
Create Partner Flow	This parameter will give the flow the correct address for the Create Partner flow. We Advise not to change its default value.	O

Externalized Parameter	Description	Mandatory / Optional
	For Example: <ul style="list-style-type: none"> • /replicateSingleCustomerToS4HANA 	
SAP S4HANA Cloud Distribution Channel	Customer Distribution Channel For Example: <ul style="list-style-type: none"> • 10 	M
SAP S4HANA Cloud Division	Customer Division For Example: <ul style="list-style-type: none"> • 00 	M
SAP S4HANA Cloud Sales Organization	Customer Sales Organization For Example: <ul style="list-style-type: none"> • 3810 	M
Shopify Customer Query Limit	Customer should choose a value that corresponds to his Shopify Store Rate Limit for GraphQL API's. This limit is used when we obtain information from Shopify and can affect the performance. For Example: <ul style="list-style-type: none"> • 10 	O
Customer Post-Exit Flow	Link to the Customer Post-Exit Integration Flow. Mandatory in case " Customer Post-Exit Flow Enabled " is set to " true " For Example: <ul style="list-style-type: none"> • /generic_post_exit_process_direct 	O
Customer Post-Exit Flow Enabled	Indicates whether the Customer Post-Exit flow is Enabled	O
Customer Pre-Exit Flow	Link to the Customer Pre-Exit Integration Flow. Mandatory in case " Customer Pre-Exit Flow Enabled " is set to " true "	O

Externalized Parameter	Description	Mandatory / Optional
	For Example: <ul style="list-style-type: none"> • /generic_pre_exit_process_direct 	
Customer Pre-Exit Flow Enabled	Indicates whether the Customer Pre-Exit flow is Enabled	O
Log Exceptions	Indicates whether logging of Exceptions, as attachments, is enabled. Default Value: true Valid values: <ul style="list-style-type: none"> • true • false 	O
Logging Enabled	Indicates whether logging of System Payloads is enabled. This is not recommended to be enabled in a live environment unless necessary. Valid values: <ul style="list-style-type: none"> • true • false 	O
Single SAP S4HANA Cloud Customer	Business partner number. If provided, this will be used as a SoldToParty customer for all Shopify orders. If this configuration remains empty, the default behavior is for each Customer from Shopify to be represented as a Business Partner within SAP S/4HANA Cloud Public Edition and linked to their Sales Orders. For Example: <ul style="list-style-type: none"> • 1234567 	O
HTTP Session Reuse	Configure the session handling scope for HTTP based endpoints.	O

Externalized Parameter	Description	Mandatory / Optional
	<p>Choose one of the following options:</p> <ul style="list-style-type: none"> • None - Session handling is switched off. • On Exchange - Each exchange corresponds to a single session (use this option for stateful services). • On Integration Flow - Only one session will be used across the whole integration flow (only use this option for stateless services). <p>Default Value: On Exchange</p>	

- Configure the S4HANA Cloud to work with the needed Condition Types

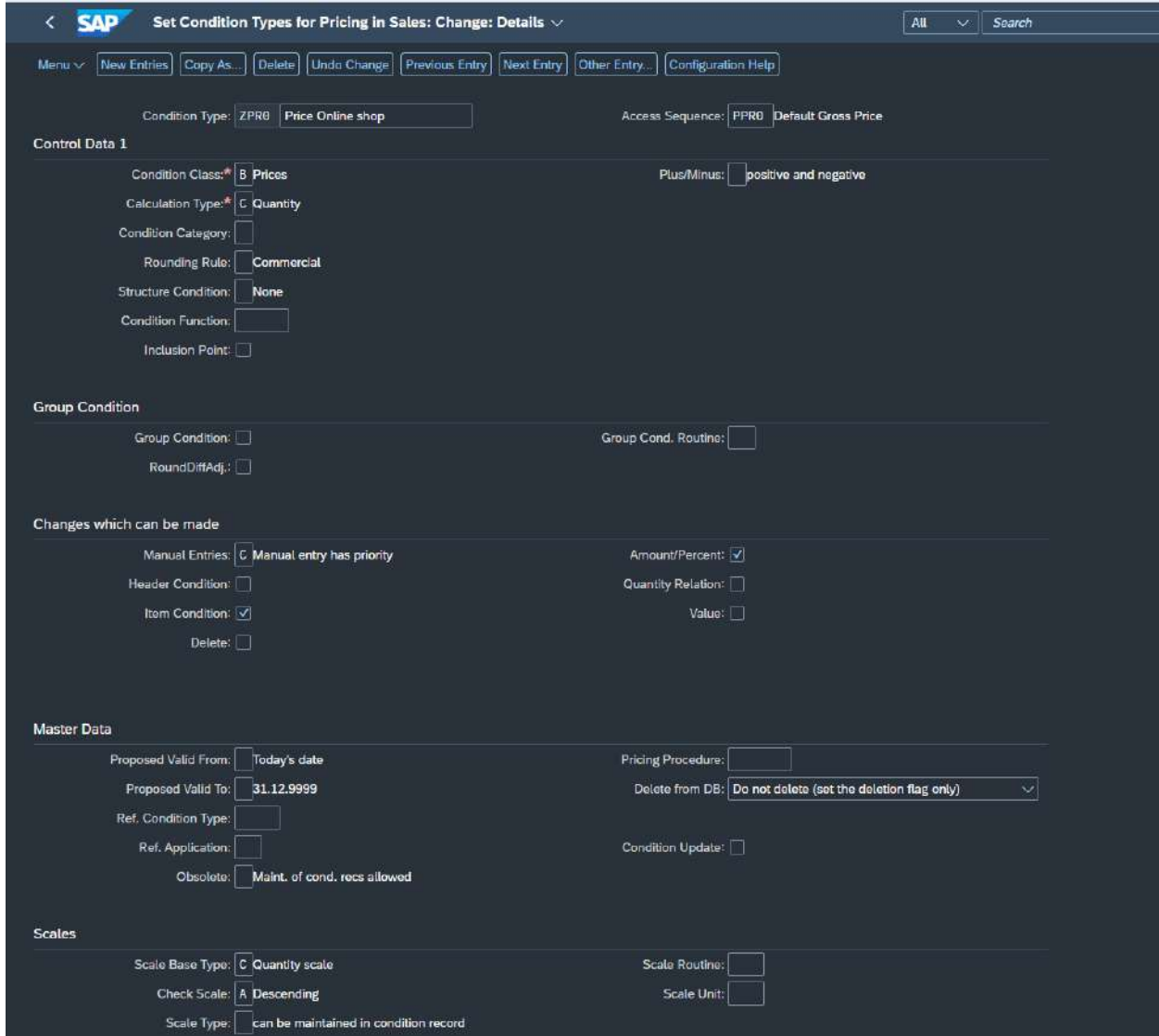


Figure 4.3.7.7 Configuring the Replicate Shopify Order to SAP S4HANA Cloud Public Edition Integration Flow's S4HANA Custom Condition Type ZPRO

Configuration for Condition: ZPRO

Parameter	Value
Condition class	B - Prices
Condition type	C - Quantity
Condition category	None (Empty)
Plus/Minus	positive and negative

Parameter	Value
Manual entries	C - Manual entry has priority
Header condition	No
Item condition	Yes
Amount/Percent	Yes



Figure 4.3.7.8 Configuring the Replicate Shopify Order to SAP S4HANA Cloud Public Edition Integration Flow's S4HANA Custom Condition Type ZM01

Configuration for Condition: ZM01

Parameter	Value
Condition class	A - Discount or Surcharges
Condition type	A - Percentage
Condition category	None (Empty)

Parameter	Value
Plus/Minus	positive and negative
Manual entries	C - Manual entry has priority
Header condition	No
Item condition	Yes
Amount/Percent	Yes

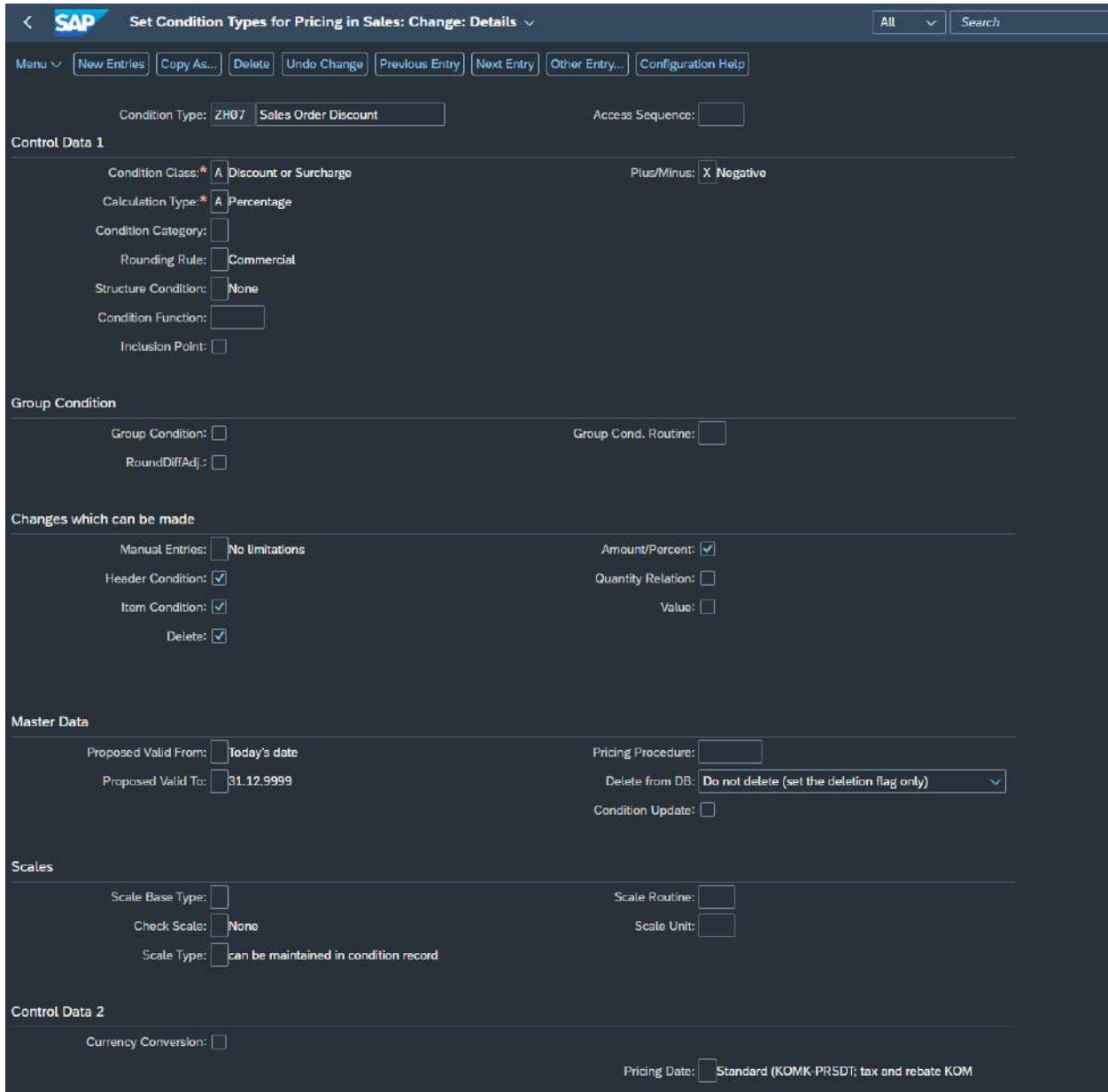


Figure 4.3.7.9 Configuring the Replicate Shopify Order to SAP S4HANA Cloud Public Edition Integration Flow's S4HANA Custom Condition Type ZH07

Configuration for Condition: ZH07

Parameter	Value
Condition class	A - Discount or Surcharges
Condition type	A - Percentage

Parameter	Value
Condition category	None (Empty)
Plus/Minus	X - Negative
Manual entries	No limitations
Header condition	Yes
Item condition	Yes
Amount/Percent	Yes

The screenshot displays the SAP S/4HANA configuration interface for a custom condition type. The title bar reads "Set Condition Types for Pricing in Sales: Change: Details". The condition type is identified as "ZBHD Freight".

Control Data 1:

- Condition Class: **A** Discount or Surcharge
- Calculation Type: **B** Fixed Amount
- Condition Category: **F** Freight
- Plus/Minus: **A** Positive
- Rounding Rule: Commercial
- Structure Condition: None
- Condition Function: (empty)
- Inclusion Point: (empty)

Group Condition:

- Group Condition:
- Group Cond. Routine: (empty)
- RoundDiffAdj.:

Changes which can be made:

- Manual Entries: No limitations
- Header Condition:
- Item Condition:
- Delete:
- Amount/Percent:
- Quantity Relation:
- Value:

Master Data:

- Proposed Valid From: Today's date
- Proposed Valid To: 31.12.9999
- Pricing Procedure: (empty)
- Delete from DB: Do not delete (set the deletion flag only)
- Condition Update:

Scales:

- Scale Base Type: (empty)
- Check Scale: None
- Scale Type: can be maintained in condition record
- Scale Routine: (empty)
- Scale Unit: (empty)

Control Data 2:

- Currency Conversion:
- Pricing Date: Standard (KOMK-PRSDT; tax and rebate KOM)

Figure 4.3.7.10 Configuring the Replicate Shopify Order to SAP S4HANA Cloud Public Edition Integration Flow's S4HANA Custom Condition Type ZBHD

Configuration for Condition: ZBHD

Parameter	Value
Condition class	A - Discount or Surcharges
Condition type	B - Fixed amount

Parameter	Value
Condition category	F - Freight
Plus/Minus	A - Positive
Manual entries	No limitations
Header condition	Yes
Item condition	No
Amount/Percent	Yes
Group condition	Yes

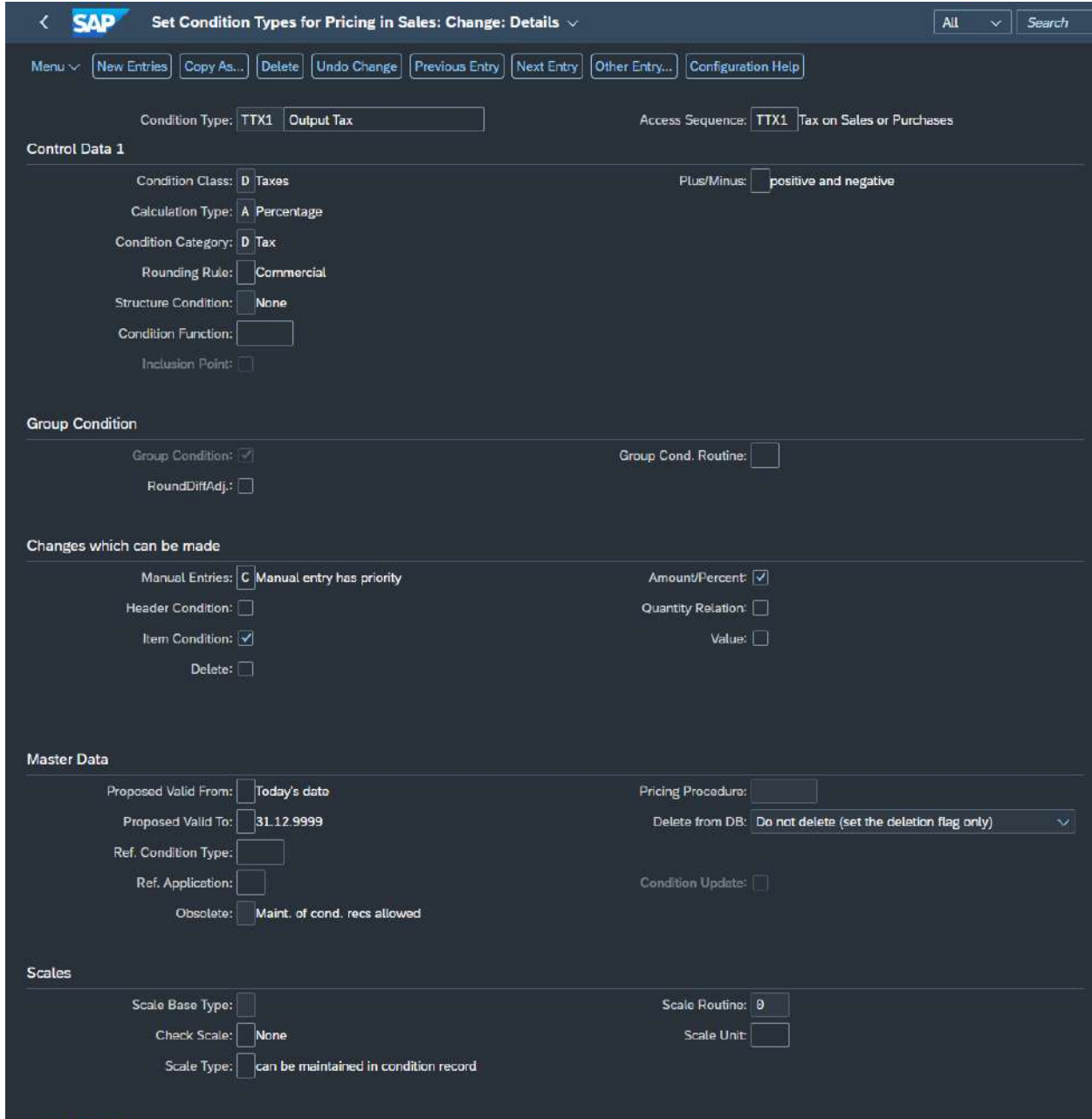


Figure 4.3.7.11 Configuring the Replicate Shopify Order to SAP S/4HANA Cloud Public Edition Integration Flow's S/4HANA Custom Condition Type TTX1

Configuration for Condition: TTX1

Parameter	Value
Condition class	D - Taxes
Condition type	A - Percentage

Parameter	Value
Condition category	D - Tax
Plus/Minus	positive and negative
Manual entries	C - Manual entry has priority
Header condition	No
Item condition	Yes
Amount/Percent	Yes
Group condition	Yes

Custom Pricing Procedure (the following figures are just for reference to give a better picture how the condition types are used):

Procedures - Control Data

View: V_T683S
Client: 090
Datum: 12.12.2024

U	App	Procedure	Step	Ctrl	Ctrl	From	To	Manual	Requirement	Subtotal	Statist.	All.Amount	AICB/V	Acc Key	Accruals	Print Ty	Mandatory	Description	Acc/Detn	Acc. Lvl	Copy	Steps
A	V	Z38101	10		PC01			X	2	B				ERL				Actual Costs				
A	V	Z38101	20		ZPR0				2					ERL			X	Price Online shop				
A	V	Z38101	60		PMP0			X	2					ERL				Manual Price				
A	V	Z38101	100						1			2						Gross Value				
A	V	Z38101	120		DPG1				2					YB2			a	Cust. Grp / Material				
A	V	Z38101	130		DCM1				2					YB2			a	Customer/Material				
A	V	Z38101	135		DCH1				2					YB2			a	Customer Hierarchy				
A	V	Z38101	140		DC01				2					YB2			a	Division / Customer				
A	V	Z38101	145		ZK07				2					YB2			b	Customer Discount				
A	V	Z38101	150		ZM01				2					YB1			a	Material Discount				
A	V	Z38101	160		DPG2				2					YB2			a	Customer Price Group				
A	V	Z38101	170		DPG3				2					YB1			a	Material Price Group				
A	V	Z38101	180		DPG4				2					YB2			a	Customer/Mat.Pr.Grp				
A	V	Z38101	190		DPG5				2					YB2			a	Cust. Grp/Mat.Pr.Grp				
A	V	Z38101	195		DPH1				2					YB1			a	Product Hierarchy				
A	V	Z38101	200		DRG1	100		X	2					YB3			a	% Gross Amount 1				
A	V	Z38101	210		DRN1			X	2					YB3			a	% Net Amount 1				
A	V	Z38101	211		ZH07			X	2					YB3			a	Sales Order Discount				
A	V	Z38101	220		DRQ1			X	2					YB3			a	+/- as to Quantity 1				
A	V	Z38101	230		DRV1			X	2					YB3			a	Fixed Amount 1				
A	V	Z38101	240		DRW1			X	2					YB3			a	+/- as to Grss Wght1				
A	V	Z38101	300			101	299											Sum Surcharges/Discounts				
A	V	Z38101	310		PMP0			X	2			6	3	ERL				Net Price				
A	V	Z38101	290		D100				55	G				28	ERS		a	100% discount				
A	V	Z38101	700						2			2						Net Value 1				
A	V	Z38101	701		DRE1				2					2	ERS		a	Refund Deduction				
A	V	Z38101	740											RZ				Stat.Value without Freight				
A	V	Z38101	745		FPA1			X	2	4				ERF			B	Packaging fee				
A	V	Z38101	750		ZBHD			X	2	4				13	ERF		B	Freight				
A	V	Z38101	770		FIN1			X	2	4				ERF			B	Insurance fee				
A	V	Z38101	780		DRP1			X			X							Price-Related Diff.				
A	V	Z38101	781		DQU1			X			X							Qty.-Related Diff.				
A	V	Z38101	785		DT01	780	781					285		ERS				Total Difference				
A	V	Z38101	800						3			2						Net Value 2				
A	V	Z38101	840		VZWR				2			48		ERL			B	Down Pay/Settlement				

Figure 4.3.7.12a Configuring the Replicate Shopify Order to SAP S4HANA Cloud Public Edition Integration Flow's S4HANA Custom Pricing Procedure

U	App	Procedure	Step	Ctrl	CnTy	From	To	Manual	Requirement	Subtotal	Statid	All.Amount	AltCBV	Acct Key	Accruals	Print Ty	Mandatory	Description	AcctDebn	Acc. Lvl	Copy Steps
A	V	Z38101	195		DPH1				2					YB1	a			Product Hierarchy			
A	V	Z38101	200		DRG1	100		X	2					YB3	a			% Gross Amount 1			
A	V	Z38101	210		DRN1			X	2					YB3	a			% Net Amount 1			
A	V	Z38101	211		ZH07			X	2					YB3	a			Sales Order Discount			
A	V	Z38101	220		DRG1			X	2					YB3	a			+/- as to Quantity 1			
A	V	Z38101	230		DRV1			X	2					YB3	a			Fixed Amount 1			
A	V	Z38101	240		DRW1			X	2					YB3	a			+/- as to Grss Wght1			
A	V	Z38101	300			101	299											Sum Surcharges/Discounts			
A	V	Z38101	310		PNP0			X	2			6	3	ERL				Net Price			
A	V	Z38101	390		D100				55	G			28	ERS				100% discount			
A	V	Z38101	700						2			2						Net Value 1			
A	V	Z38101	701		DRE1				2				2	ERS				Refund Deduction			
A	V	Z38101	740									02						Stat.Value without Freight			
A	V	Z38101	745		FFA1			X	2	4				ERF				Packaging fee			
A	V	Z38101	750		ZBHD			X	2	4				13	ERF			Freight			
A	V	Z38101	770		FIN1			X	2	4				ERF				Insurance fee			
A	V	Z38101	780		DPRI			X			X							Price-Related Diff.			
A	V	Z38101	781		DQU1			X			X							Qty-Related Diff.			
A	V	Z38101	785		DTD1	780	781					285		ERS				Total Difference			
A	V	Z38101	800						3			2						Net Value 2			
A	V	Z38101	840		YZWR				2			48		ERL		B		Down Pay/Settlement			
A	V	Z38101	849		DCD2				14	D	X		2					Cash Discount Net			
A	V	Z38101	850		TTX1				10				16	MWS		A	X	Output Tax			
A	V	Z38101	859		DRD1				13			16	4	ERS			X	Rounding Off			
A	V	Z38101	900						A			4						Total Value			
A	V	Z38101	910		DCD1				9		X		11					Cash Discount Gross			
A	V	Z38101	922		DFAD				23		X		2	ERS				Factoring Discount			
A	V	Z38101	923		TFAD	922			21		X			MWS			X	Factoring Disc. Tax			
A	V	Z38101	925		GRWR	740	770		91	C	X							Statistical value			
A	V	Z38101	930		PCIP				4	B	X							Internal Price			
A	V	Z38101	950									11						Profit Margin			
A	V	Z38101	960		PSAM				99		X							Standalone (Mat.)			
A	V	Z38101	965		DCEV						X							Tolerance f.Exp.Val.			
A	V	Z38101	970		PCE1			X			X		8					Cust.-Expected Price			
A	V	Z38101	971		PCE2			X			X		8					Cust.-Expected Value			

Figure 4.3.7.12b Configuring the Replicate Shopify Order to SAP S4HANA Cloud Public Edition Integration Flow's S4HANA Custom Pricing Procedure

- Configuring Single SAP S4HANA Cloud Customer

If the "Single SAP S4HANA Cloud Customer" configuration field is filled in, that customer will be designated as the Sold-To-Party for the order. Consequently, a new business partner will not be created for the Shopify customer. This applies even if the Shopify customer has already been replicated.

The shipping and billing addresses will only be available as Bill-To-Party and Ship-To-Party. They will not be attached to the Single SAP S4HANA Cloud Customer address information.

The Single SAP S4HANA Cloud Customer should be configured correctly:

- Must have a name
- Must have an address
- Must have a valid sales organization
- Must have a valid business partner grouping
- Must have business partner role types corresponding to the configured **SAP S/4HANA Cloud Business Partner Role 1 and Role 2**

- Must have a valid tax type, category and number
- Save and deploy the iFlow

Let's look at one order from Shopify and how the Condition Types in S4HANA are used to represent the amounts from Shopify:

Shopify Order :

← #1031
● Paid ○ Unfulfilled
Refund

December 10, 2024 at 3:17 am from Online Store

⚠ Test order

Your payment gateway was in test mode when this order was created.

📦 Unfulfilled (1)
...

Location
Shop location

Delivery method
Standard

📦

BlizzardX Snowboard ~~BGN 20.00~~ BGN 18.60 × 1 BGN 18.60

SKU: MAT2

🔗 7.0 % Off Automatic Discount on Product MAT2 (-7%)

Fulfill item

📄 Paid
...

Subtotal	1 item	BGN18.60
Discount	7.0 % Off Automatic Discount on Product MAT2	-BGN1.40
Shipping	Standard (0.0 kg: Items 0.0 kg, Package 0.0 kg)	BGN0.00
Total		BGN18.60
Paid		BGN18.60

Metafields

SAP S/4HANA Cloud...

SAP S/4HANA Cloud Order...

SAP S/4HANA Cloud Order ID

SAP S/4HANA Cloud...

[View all](#)

Figure 4.3.7.13 Configuring the Replicate Shopify Order to SAP S4HANA Cloud Public Edition Integration Flow - Shopify Order

Here We can see that the Price of the item is 20 BGN (the price is configured in Condition Type “ZPRO” in S4HANA), and there is a Discount of 7% (this discount is configured in S4HANA in Condition Type “ZM01”) for the product “MAT2”)

Representation in S4HANA Cloud Public Edition:

L	Cnly	Description	Amount	Crcy	per	UoM	Condition Value	Crcy	Status	NumC...	ATOMITS Component	OUn	CConDe	Un	Condition Value	CrcC	Stat
	▲	ZPR0 Price Online shop	20,00	BGN		1 PC	20,00	BGN		1		PC		1 PC	0,00		
	■	ZPR0 Price Online shop	20,00	BGN		1 PC	20,00	BGN		1		PC		1 PC	0,00		
		Gross Value	20,00	BGN		1 PC	20,00	BGN		1		PC		1 PC	0,00		
	■	ZK07 Customer Discount	1,40	BGN			1,40	BGN		0				0	0,00		
	▲	ZM01 Material Discount	7,000	%			1,30	BGN		0				0	0,00		
	■	ZM01 Material Discount	0,001	%			0,00	BGN		0				0	0,00		
		Sum Surcharges/Discounts	1,40	BGN		1 PC	1,40	BGN		1		PC		1 PC	0,00		
		Net Value 1	18,60	BGN		1 PC	18,60	BGN		1		PC		1 PC	0,00		
		Stat.Value without Freight	18,60	BGN		1 PC	18,60	BGN		1		PC		1 PC	0,00		
	■	ZBHD Freight	0,00	BGN			0,00	BGN		0				0	0,00		
		Net Value 2	18,60	BGN		1 PC	18,60	BGN		1		PC		1 PC	0,00		
	■	Y2WR Down Pay/Settlement	0,00	BGN			0,00	BGN		0				0	0,00		
	▲	TTX1 Output Tax	20,000	%			3,46	BGN		0				0	0,00		
	■	TTX1 Output Tax	0,000	%			0,00	BGN		0				0	0,00		
		Total Value	18,60	BGN		1 PC	18,60	BGN		1		PC		1 PC	0,00		
	■	PC1P Internal Price	30,00	BGN		1 PC	30,00	BGN		1		PC		1 PC	30,00	BGN	
		Profit Margin	11,40	BGN		1 PC	11,40	BGN		1		PC		1 PC	0,00		

Figure 4.3.7.14 Configuring the Replicate Shopify Order to SAP S4HANA Cloud Public Edition Integration Flow - S4HANA Sales Order Item Level View

Here we can see on the Item level that we have several overridden amounts (the condition types with orange triangle). We set the price in ZPR0, we set the ZK07 (this is the overall discount in exact amount coming from Shopify, all discounts from Shopify will be accumulated in this condition type), we set the Tax (in that particular case there is no tax in Shopify order, so we set 0 in TTX1) and we set the ZM01 to 0 (technically it's 0.001%) because the discount is already kept in ZK07.

NOTE: Please be sure that the checkbox "Include sales tax in product price and shipping rate" in Shopify tax configuration is disabled, otherwise the replication in S4HANA may have an unexpected behavior.

Duties and import taxes ⓘ
 Help international customers avoid unexpected fees by collecting duties and import taxes at checkout.

Collection managed by store
 29 countries/regions Manage

The [transaction fee](#) is 1.5%, or 0.85% if Shopify Payments is used.

Global settings

- Include sales tax in product price and shipping rate
■ [Learn more](#) about when to use this setting
- Include or exclude tax based on your customer's country
[Go to Markets preferences](#) to turn this setting on
- Charge sales tax on shipping
 Automatically calculated for Canada, European Union, and United States
- Charge VAT on digital goods
 VAT will be applied to products in the [Digital Goods VAT Tax](#) collection at checkout (for European customers)

Digital Goods VAT Tax [change collection](#)

[Learn more about sales tax](#)

Figure 4.3.7.14 Configuring the Replicate Shopify Order to SAP S4HANA Cloud Public Edition Integration Flow – Shopify Tax Settings

4.3.8 Replicate Delivery Details from SAP S4HANA Cloud Public Edition to Shopify

This Integration Flow enables the replication of Delivery Details from SAP S/4HANA Cloud to Shopify. Typically, the Integration Flow must be scheduled, based on your business processes. The Integration Flow synchronizes the state of completed Outbound Deliveries for Sales Order from SAP S/4HANA Cloud Public Edition to Shopify Fulfillments, after the last execution of the Integration Flow. The figure below depicts the business process that is implemented

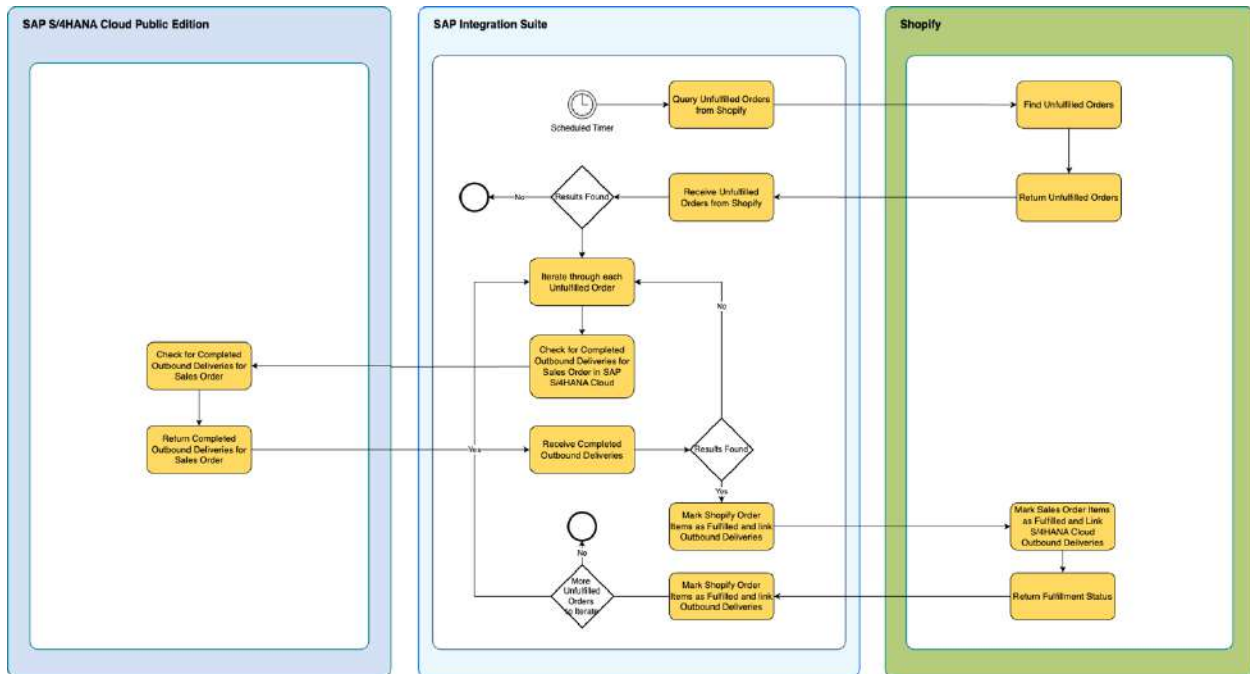


Figure 4.3.8 Replicate Delivery Details from SAP S/4HANA Cloud Public Edition to Shopify

4.3.8.1 Prerequisites

The following actions must be performed as a prerequisite:

- Deploy the security artifacts that are required during the configuration of the Integration Content

4.3.8.2 Configuration

Follow the steps below to configure the Integration Flow:

- Open the “Replicate Delivery Details from SAP S4HANA Cloud Public Edition to Shopify” Integration Flow
- Click on Configure
- Configure the Timer as per business operation expectations and requirements

Configure "Replicate Delivery Details from SAP S4HANA Cloud to Shopify"

Timer Receiver More

Timer: Start Timer [StartEvent_4]

Schedule to Recur

Run Once

Schedule on Day

Schedule to Recur

Advanced

Schedule to Recur

Daily

On Time

Every

Time Zone

01:14 PM

1 hr

Between 00:00 and 24:00

(UTC 0:00) Greenwich Mean Time(Etc/GMT)

Figure 4.3.8.1 Configuring the Delivery Details Integration Flow's Timer

- Configure the "S4HANA_CLOUD" Receiver

Configure "Replicate Delivery Details from SAP S4HANA Cloud to Shopify"

Timer Receiver More

Receiver: S4HANA_CLOUD

Adapter Type: HCIOData

Connection

Address: {{SAP S/4HANA Cloud Base URL}}/sap/opu/odata/sap/API_OUTBOUND_DELIVERY_SRV;v=2

SAP S/4HANA Cloud Base URL: https://myxxxxxxx-api.s4hana.cloud.sap

Proxy Type: Internet

Authentication: Basic

Credential Name: s4hana_dl_credentials

CSRF Protected:

Figure 4.3.8.2 Configuring the Delivery Details Integration Flow's SAP S/4HANA Cloud Configuration

The description of each of the fields in Figure 4.2.8.2 is presented in the table below

Externalized Parameter	Description	Mandatory / Optional
SAP S/4HANA Cloud Base URL	Specify the SAP S/4HANA Cloud API Base URL For Example: <ul style="list-style-type: none"> https://xxxxxxx-api.s4hana.cloud.sap 	M
Proxy Type	The type of proxy you want to use for establishing connection with the OData V2 service. Default value: Internet	M
Authentication	Authentication method that you want to use for connecting to the OData V2 service. Default value: Basic	M
Credential Name	Specify the name of the deployed User Credentials Security Material that holds the username and password used to authenticate with SAP S/4HANA Cloud	M

Externalized Parameter	Description	Mandatory / Optional
CSRF Protected	Keep this option selected (default setting). It ensures that your integration flow is protected against Cross-Site-Request-Forgery, a kind of attack where a malicious party can perform harmful actions by masquerading as the logged in user	O
Location ID	It is visible only when On-Premise is selected for Proxy type. Used to connect Cloud SAP Connector with your account.	O
Private Key Alias	It is visible only when Client Certificate is selected for Authentication. Enter the alias of the deployed private key.	O

- Configure the “Shopify” Receiver

Figure 4.3.8.3 Configuring the Delivery Details Integration Flow’s Shopify Configuration

The description of each of the fields in Figure 4.2.8.3 is presented in the table below

Externalized Parameter	Description	Mandatory / Optional
Shopify Base Url	Base URL of Shopify Store For Example: <ul style="list-style-type: none"> • https://xxxxxxx.myshopify.com 	M
Authentication Type	Specify the authentication type Supported values: <ul style="list-style-type: none"> • Access Token • OAuth2 Client Credentials 	M

Externalized Parameter	Description	Mandatory / Optional
Shopify Security Material	Provide the name of the Security Material containing the authorization information used for the Shopify connection	M

- Configure “More” as shown in the figure below



Figure 4.3.8.4 Configuring the Delivery Details Integration Flow’s More Configuration

The description of each of the fields in Figure 4.3.8.4 is presented in the table below

Externalized Parameter	Description	Mandatory / Optional
Customer Post-Exit Flow Enabled	Indicates whether a custom Customer Post-Exit Flow is enabled. If this is enabled the “CustomerPostExitFlow” Receiver must be configured. Valid values: <ul style="list-style-type: none"> • true • false 	O
Customer Pre-Exit Flow Enabled	Indicates whether a custom Customer Pre-Exit Flow is enabled. If this is enabled the “CustomerPreExitFlow” Receiver must be configured. Valid values: <ul style="list-style-type: none"> • true • false 	O

Externalized Parameter	Description	Mandatory / Optional
Log Exceptions	<p>Indicates whether logging of Exceptions, as attachments, is enabled.</p> <p>Default Value: true</p> <p>Valid values:</p> <ul style="list-style-type: none"> • true • false 	O
Logging Enabled	<p>Indicates whether logging of System Payloads is enabled. This is not recommended to be enabled in a live environment unless necessary.</p> <p>Valid values:</p> <ul style="list-style-type: none"> • true • false 	O
Notify Shopify Customer for Order Fulfillment	<p>Indicates whether the Shopify Customer will be notified by Shopify when a fulfilment is created, by the Integration Flow, in Shopify.</p> <p>Valid values:</p> <ul style="list-style-type: none"> • true • false 	O
Shopify Order Query Limit	<p>Represents the number of Shopify Orders that will be retrieved in each query to Shopify during the execution of the Integration Flow.</p> <p>This number must be aligned with your Shopify Store's API limits - https://shopify.dev/docs/api/usage/rate-limits</p> <p>The maximum value is 250.</p>	O
HTTP Session Reuse	<p>Configure the session handling scope for HTTP based endpoints.</p>	O

Externalized Parameter	Description	Mandatory / Optional
	<p>Choose one of the following options:</p> <ul style="list-style-type: none"> None - Session handling is switched off. On Exchange - Each exchange corresponds to a single session (use this option for stateful services). On Integration Flow - Only one session will be used across the whole integration flow (only use this option for stateless services). <p>Default Value: On Exchange</p>	

- Configure the “CustomerPreExitFlow” Receiver

Configure "Replicate Delivery Details from SAP S4HANA Cloud to Shopify"

The screenshot shows a configuration window with three tabs: 'Timer', 'Receiver', and 'More'. The 'Receiver' tab is active. Under the 'Connection' section, there are three fields: 'Receiver:' with a dropdown menu showing 'CustomerPreExitFlow', 'Adapter Type:' with a dropdown menu showing 'ProcessDirect', and 'Address:' with a text input field containing '/generic_pre_exit_process_direct'.

Figure 4.3.8.5 Configuring the Delivery Details Integration Flow’s CustomerPreExitFlow Receiver

The description of each of the fields in Figure 4.3.8.5 is presented in the table below

Externalized Parameter	Description	Mandatory / Optional
Address	<p>Contains the Integration Flow address which will be triggered during the execution of the Pre-Exit Integration Flow Step. For Example:</p> <ul style="list-style-type: none"> /generic_pre_exit_process_direct <p>Note: This will be taken into consideration only if Customer Pre-Exits are enabled, denoted by the “Customer Pre-Exit Flow Enabled” Parameter mentioned above</p>	O

- Configure the “CustomerPostExitFlow” Receiver

Configure "Replicate Delivery Details from SAP S4HANA Cloud to Shopify"

Timer **Receiver** More

Receiver:

Adapter Type:

Address:

Figure 4.3.8.6 Configuring the Delivery Details Integration Flow's CustomerPostExitFlow Receiver

The description of each of the fields in Figure 4.3.8.6 is presented in the table below

Externalized Parameter	Description	Mandatory / Optional
Address	<p>Contains the Integration Flow address which will be triggered during the execution of the Post-Exit Integration Flow Step.</p> <p>For Example:</p> <ul style="list-style-type: none"> • /generic_post_exit_process_direct <p>Note: This will be taken into consideration only if Customer Post-Exits are enabled, denoted by the "Customer Post-Exit Flow Enabled" Parameter mentioned above</p>	O

- Save and deploy

4.3.9 Replicate Order Returns from Shopify to S4HANA Cloud Public Edition

This Integration Flow enables the replication of Order Returns from Shopify to SAP S/4HANA Cloud Public Edition. Typically, the Integration Flow must be scheduled, based on your business processes. The Integration Flow replicates newly created Shopify Order Returns, after the last execution of the Integration Flow. The figure below depicts the business process that is implemented.

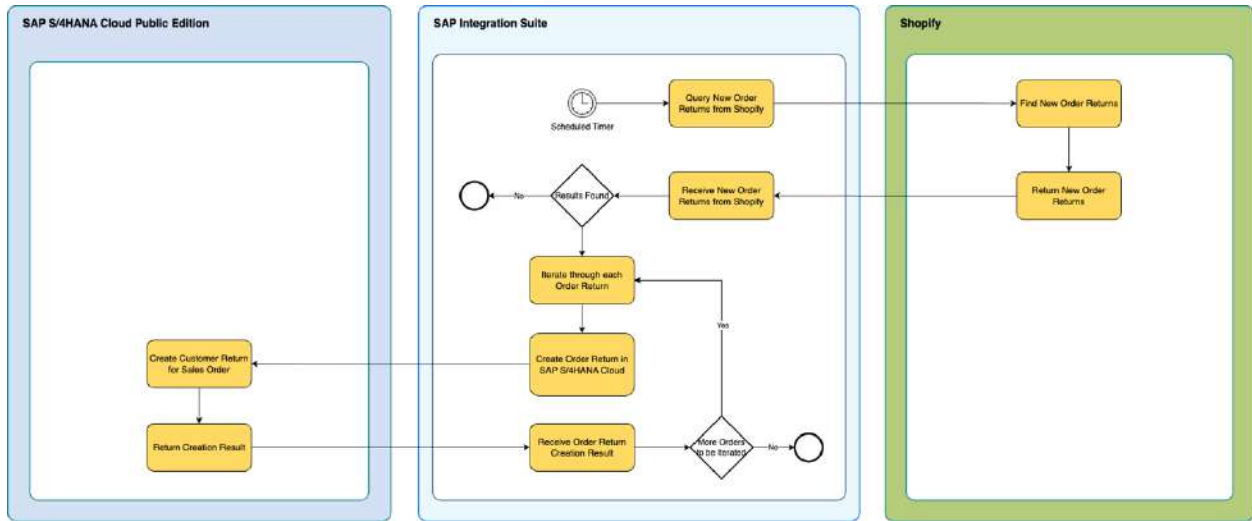


Figure 4.3.9 Replicate Order Returns from Shopify to SAP S/4HANA Cloud Public Edition

4.3.9.1 Prerequisites

The following actions must be performed as a prerequisite:

- Deploy the security artifacts that are required during the configuration of the Integration Content

4.3.9.2 Configuration

Follow the steps below to configure the Integration Flow:

- Open the “Replicate Order Returns from Shopify to SAP S/4HANA Cloud Public Edition” Integration Flow
- Click on Configure
- Configure the Timer as per business operation expectations and requirements

Configure "Replicate Order Returns from Shopify to SAP S/4HANA Cloud"

Timer Receiver More

Timer: Start Timer [StartEvent_4]

Run Once
 Schedule on Day
 Schedule to Recur
 Advanced

Schedule to Recur
 Daily
 On Time
 Every
 Time Zone

03:29 PM

1 hr Between 00:00 and 24:00

(UTC 0:00) Greenwich Mean Time(Etc/GMT)

Figure 4.3.9.1 Configuring the Integration Flow's Timer

- Configure the “S4HANA_CLOUD” Receiver.

Configure "Replicate Order Returns from Shopify to SAP S4HANA Cloud"

Timer Receiver **More**

Connection

Receiver: S4HANA_Cloud_POST_Customer_Return

Adapter Type: HCIOData

Address: {{SAP S/4HANA Cloud Base URL}}/sap/opu/odata/sap/API_CUSTOMER_RETURN_SRV

SAP S/4HANA Cloud Base URL: https://xxxx-api.s4hana.cloud.sap

Proxy Type: Internet

Authentication: Basic

Credential Name: s4hana_dl_credentials

CSRF Protected:

Figure 4.3.9.2 Configuring the Integration Flow's SAP S/4HANA Cloud Configuration

The description of each of the fields in Figure 4.3.9.2 is presented in the table below

Externalized Parameter	Description	Mandatory / Optional
SAP S/4HANA Cloud Base URL	Specify the SAP S/4HANA Cloud API Base URL For Example: <ul style="list-style-type: none"> https://xxxxxxx-api.s4hana.cloud.sap 	M
Proxy Type	The type of proxy you want to use for establishing connection with the OData V2 service. Default value: Internet	M
Authentication	Authentication method that you want to use for connecting to the OData V2 service. Default value: Basic	M
Credential Name	Specify the name of the deployed User Credentials Security Material that holds the username and password used to authenticate with SAP S/4HANA Cloud	M
CSRF Protected	Keep this option selected (default setting). It ensures that your integration flow is protected against Cross-Site-Request-Forgery, a kind of attack where a malicious party can perform	O

Externalized Parameter	Description	Mandatory / Optional
	harmful actions by masquerading as the logged in user	
Location ID	It is visible only when On-Premise is selected for Proxy type. Used to connect Cloud SAP Connector with your account.	O
Private Key Alias	It is visible only when Client Certificate is selected for Authentication. Enter the alias of the deployed private key.	O

- Configure at least one of the “Shopify” Receivers. The configuration is externalized and change in one of the Shopify Receivers’ Configurations will propagate the updated configuration within the rest.

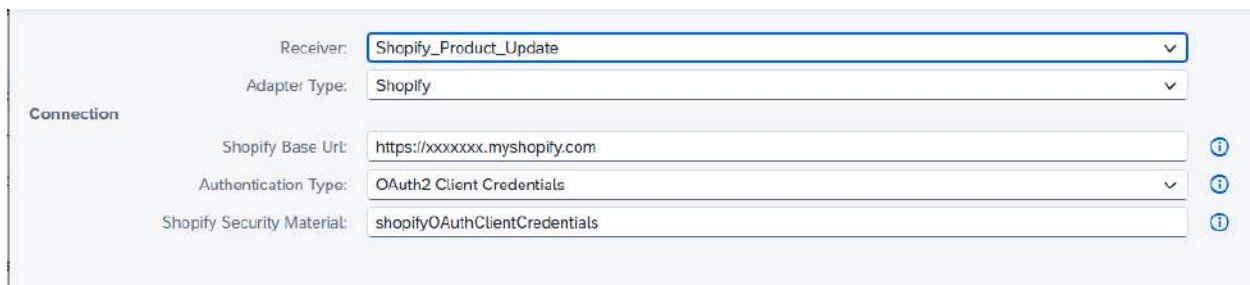


Figure 4.3.9.3 Configuring the Integration Flow’s Shopify Configuration

The description of each of the fields in Figure 4.3.9.3 is presented in the table below

Externalized Parameter	Description	Mandatory / Optional
Shopify Base Url	Base URL of Shopify Store For Example: <ul style="list-style-type: none"> • https://xxxxxxx.myshopify.com 	M
Authentication Type	Specify the authentication type Supported values: <ul style="list-style-type: none"> • Access Token • OAuth2 Client Credentials 	M
Shopify Security Material		M

Externalized Parameter	Description	Mandatory / Optional
	Provide the name of the Security Material containing the authorization information used for the Shopify connection	

- Configure “More” as shown in the figure below

Configure “Replicate Order Returns from Shopify to SAP S4HANA Cloud Public Edition”



Figure 4.3.9.4 Configuring Integration Flow’s More Configuration

The description of each of the fields in Figure 4.3.9.4 is presented in the table below

Externalized Parameter	Description	Mandatory / Optional
Customer Post-Exit Flow Enabled	Indicates whether a custom Customer Post-Exit Flow is enabled. If this is enabled the “CustomerPostExitFlow” Receiver must be configured. Valid values: <ul style="list-style-type: none"> • true • false 	O
Customer Pre-Exit Flow Enabled	Indicates whether a custom Customer Pre-Exit Flow is enabled. If this is enabled the “CustomerPreExitFlow” Receiver must be configured. Valid values: <ul style="list-style-type: none"> • true • false 	O

Externalized Parameter	Description	Mandatory / Optional
Log Exceptions	<p>Indicates whether logging of Exceptions, as attachments, is enabled.</p> <p>Default Value:</p> <ul style="list-style-type: none"> • true <p>Valid values:</p> <ul style="list-style-type: none"> • true • false 	O
Logging Enabled	<p>Indicates whether logging of System Payloads is enabled. This is not recommended to be enabled in a live environment unless necessary.</p> <p>Valid values:</p> <ul style="list-style-type: none"> • true • false 	O
SAP S/4HANA Cloud Customer Return Type	<p>Indicates the SAP S/4HANA Cloud Customer Return Type for creation of new Customer Returns in SAP S/4HANA Cloud.</p> <p>Default value:</p> <ul style="list-style-type: none"> • CBAR 	M
Shopify Default Initial Request Timestamp	<p>Taken into consideration during Initial Load/ First Execution of the Integration Flow. Indicates the timestamp after which Order Returns have been created and should be replicated during the Initial Load / First Execution of the Integration Flow</p> <p>Valid Values are timestamps in the following format:</p> <ul style="list-style-type: none"> • yyyy-MM-dd'T'HH:mm:ss'Z' <p>For Example:</p> <ul style="list-style-type: none"> • 1970-01-01T00:00:00Z 	O
Shopify Order Query Limit		O

Externalized Parameter	Description	Mandatory / Optional
	<p>Represents the number of Shopify Orders that will be retrieved in each query to Shopify during the Execution of the Integration Flow.</p> <p>Default Value:</p> <ul style="list-style-type: none"> • 15 <p>This number must be aligned with your Shopify Store’s API limits - https://shopify.dev/docs/api/usage/rate-limits</p> <p>The maximum value is 250.</p>	
HTTP Session Reuse	<p>Configure the session handling scope for HTTP based endpoints.</p> <p>Choose one of the following options:</p> <ul style="list-style-type: none"> • None - Session handling is switched off. • On Exchange - Each exchange corresponds to a single session (use this option for stateful services). • On Integration Flow - Only one session will be used across the whole integration flow (only use this option for stateless services). <p>Default Value: On Exchange</p>	O

- Configure the “CustomerPreExitFlow” Receiver

Configure "Replicate Order Returns from Shopify to SAP S4HANA Cloud"

Timer **Receiver** More

Receiver:

Adapter Type:

Connection

Address:

Figure 4.3.9.5 Configuring the Integration Flow’s CustomerPreExitFlow Receiver

The description of each of the fields in Figure 4.3.9.5 is presented in the table below

Externalized Parameter	Description	Mandatory / Optional
Address	<p>Contains the Integration Flow address which will be triggered during the execution of the Pre-Exit Integration Flow Step.</p> <p>For Example:</p> <ul style="list-style-type: none"> • /generic_pre_exit_process_direct <p>Note: This will be taken into consideration only if Customer Pre-Exits are enabled, denoted by the "Customer Pre-Exit Flow Enabled" Parameter mentioned above</p>	O

- Configure the "CustomerPostExitFlow" Receiver



Figure 4.3.9.6 Configuring the Integration Flow's CustomerPostExitFlow Receiver

The description of each of the fields in Figure 4.3.9.6 is presented in the table below

Externalized Parameter	Description	Mandatory / Optional
Address	<p>Contains the Integration Flow address which will be triggered during the execution of the Post-Exit Integration Flow Step.</p> <p>For Example:</p> <ul style="list-style-type: none"> • /generic_post_exit_process_direct <p>Note: This will be taken into consideration only if Customer Post-Exits are enabled, denoted by the "Customer Post-Exit Flow Enabled" Parameter mentioned above</p>	O

- Save and deploy

4.3.10 Replicate Order Cancellation from Shopify to S4HANA Cloud Public Edition

This Integration Flow enables the replication of Cancelled Orders from Shopify to SAP S/4HANA Cloud Public Edition. Typically, the Integration Flow must be scheduled, based on your business processes. The Integration Flow synchronizes newly cancelled Shopify Orders, after the last execution of the Integration Flow. The figure below depicts the business process that is implemented.

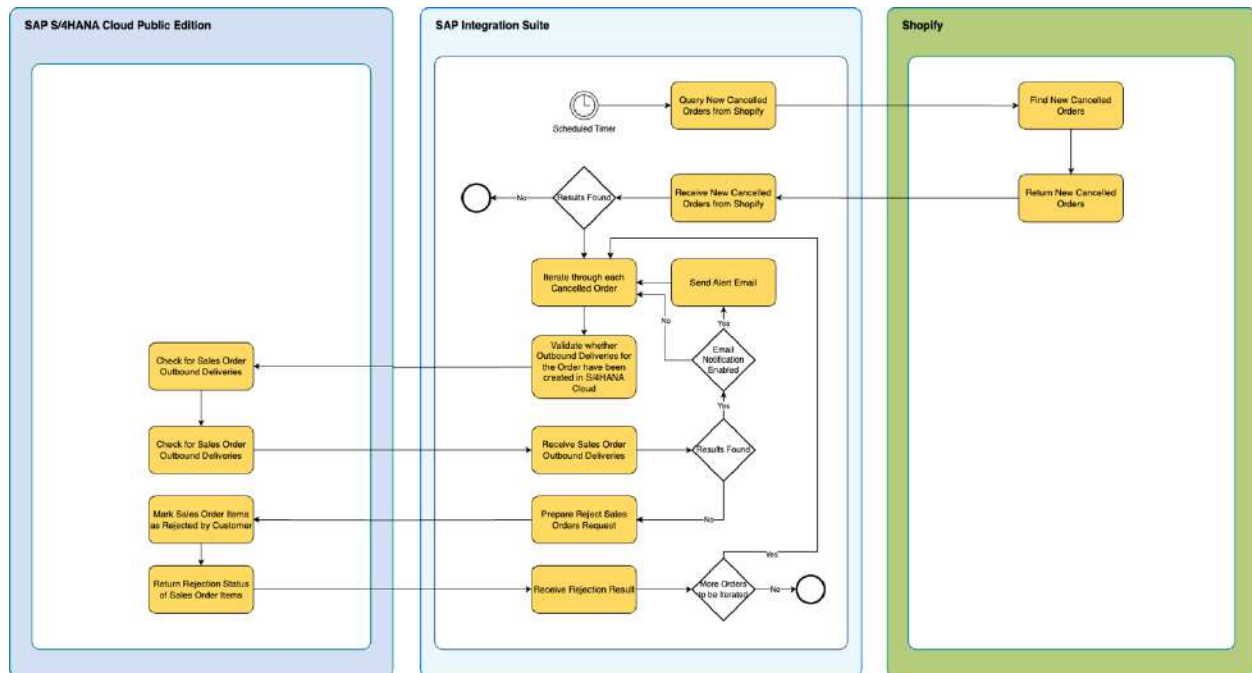


Figure 4.3.10 Replicate Order Cancellation from Shopify to SAP S/4HANA Cloud Public Edition

4.3.10.1 Prerequisites

The following actions must be performed as a prerequisite:

- Deploy the security artifacts that are required during the configuration of the Integration Content

4.3.10.2 Configuration

Follow the steps below to configure the Integration Flow:

- Open the “Replicate Order Cancellation from Shopify to SAP S/4HANA Cloud Public Edition” Integration Flow
- Click on Configure
- Configure the Timer as per business operation expectations and requirements

Configure "Replicate Order Cancellation from Shopify to SAP S4HANA Cloud"

Timer Receiver More

Timer: Start Timer [StartEvent_4]

Run Once
 Schedule on Day
 Schedule to Recur
 Advanced

Schedule to Recur:

Daily

On Time: 02:12 PM

Every: 10 min

Between: 00:00 and 24:00

Time Zone: (UTC 0:00) Greenwich Mean Time(Etc/GMT)

Figure 4.3.10.1 Configuring the Integration Flow's Timer

- Configure at least one of the "S4HANA_CLOUD" Receivers. The configuration is externalized and change in one of the S/4HANA Receivers will propagate the updated configuration within the rest.

Configure "Replicate Order Cancellation from Shopify to SAP S4HANA Cloud"

Timer Receiver More

Receiver: S4HANA_Cloud_GET_Sales_Order_SubProcFlow

Adapter Type: HCIOData

Connection

Address: {{SAP S/4HANA Cloud Base URL}}/sap/opu/odata/sap/API_SALES_ORDER_SRV

SAP S/4HANA Cloud Base URL: https://myxxxxxx-api.s4hana.cloud.sap

Proxy Type: Internet

Authentication: Basic

Credential Name: s4hana_credentials

CSRF Protected:

Figure 4.3.10.2 Configuring the Integration Flow's SAP S/4HANA Cloud Configuration

The description of each of the fields in Figure 4.3.10.2 is presented in the table below

Externalized Parameter	Description	Mandatory / Optional
SAP S/4HANA Cloud Base URL	Specify the SAP S/4HANA Cloud API Base URL For Example: <ul style="list-style-type: none"> https://xxxxxxx-api.s4hana.cloud.sap 	M
Proxy Type	The type of proxy you want to use for establishing connection with the OData V2 service. Default value: Internet	M

Externalized Parameter	Description	Mandatory / Optional
Authentication	Authentication method that you want to use for connecting to the OData V2 service. Default value: Basic	M
Credential Name	Specify the name of the deployed User Credentials Security Material that holds the username and password used to authenticate with SAP S/4HANA Cloud	M
CSRF Protected	Keep this option selected (default setting). It ensures that your integration flow is protected against Cross-Site-Request-Forgery, a kind of attack where a malicious party can perform harmful actions by masquerading as the logged in user	O
Location ID	It is visible only when On-Premise is selected for Proxy type. Used to connect Cloud SAP Connector with your account.	O
Private Key Alias	It is visible only when Client Certificate is selected for Authentication. Enter the alias of the deployed private key.	O

- Configure at least one of the “Shopify” Receivers. The configuration is externalized and change in one of the Shopify Receivers’ Configurations will propagate the updated configuration within the rest.

Figure 4.3.10.3 Configuring the Integration Flow’s Shopify Configuration

The description of each of the fields in Figure 4.3.10.3 is presented in the table below

Externalized Parameter	Description	Mandatory / Optional
Shopify Base Url	Base URL of Shopify Store For Example: <ul style="list-style-type: none"> https://xxxxxxx.myshopify.com 	M
Authentication Type	Specify the authentication type Supported values: <ul style="list-style-type: none"> Access Token OAuth2 Client Credentials 	M
Shopify Security Material	Provide the name of the Security Material containing the authorization information used for the Shopify connection	M

- Configure “More” as shown in the figure below

Configure "Replicate Order Cancellation from Shopify to SAP S4HANA Cloud Public Edition"

Timer Receiver **More**

Type: All Parameters

Customer Post-Exit Flow Enabled: false

Customer Pre-Exit Flow Enabled: false

Default SAP S/4HANA Cloud Sales Order Rej... : 70

Enable Email Notifications: false

Final Email Message Body Content: <!DOCTYPE html> <html lang="en"> <head> <meta charset="UTF-8"> <meta name="viewport" content="width=de...

Final Email Message Body Type: expression

HTTP Session Reuse: onExchange

Log Exceptions: true

Logging Enabled: false

Shopify Default Initial Request Timestamp: 1970-01-01T00:00:00Z

Shopify Order Query Limit: 250

Figure 4.3.10.4 Configuring Integration Flow’s More Configuration

The description of each of the fields in Figure 4.3.10.4 is presented in the table below

Externalized Parameter	Description	Mandatory / Optional
Customer Post-Exit Flow Enabled		O

Externalized Parameter	Description	Mandatory / Optional
	<p>Indicates whether a custom Customer Post-Exit Flow is enabled. If this is enabled the “CustomerPostExitFlow” Receiver must be configured.</p> <p>Valid values:</p> <ul style="list-style-type: none"> • true • false 	
Customer Pre-Exit Flow Enabled	<p>Indicates whether a custom Customer Pre-Exit Flow is enabled. If this is enabled the “CustomerPreExitFlow” Receiver must be configured.</p> <p>Valid values:</p> <ul style="list-style-type: none"> • true • false 	O
Default SAP S/4HANA Cloud Sales Order Reject Reason	<p>Refers to the Rejection Reason ID within SAP S/4HANA Cloud, which will be used when Order Cancellation is replicated from Shopify to SAP S/4HANA Cloud.</p> <p>Default Value:</p> <ul style="list-style-type: none"> • 70 <p>Default Description of the Reason for Rejection in SAP S/4HANA Cloud:</p> <ul style="list-style-type: none"> • “Rejected by Customer” 	M
Enable Email Notifications	<p>Indicates whether email notifications are sent when there is an alert during the Integration Flow Execution.</p> <p>Example case when an alert will be sent: An Order is Shopify had been cancelled whereas an Outbound Delivery has already been created in SAP S/4HANA Cloud.</p> <p>Default Value: true</p> <p>Valid values:</p> <ul style="list-style-type: none"> • true 	O

Externalized Parameter	Description	Mandatory / Optional
	<ul style="list-style-type: none"> • false 	
Final Email Message Body Content	Contains the Email Body in HTML format that will be sent during alerts.	O
Final Email Message Body Type	Indicates the message body type in SAP Integration Suite. Body Type “expression” is used when the “Final Email Message Body Content” contains dynamically evaluated values Default Value: expression	O
Log Exceptions	Indicates whether logging of Exceptions, as attachments, is enabled. Default Value: true Valid values: <ul style="list-style-type: none"> • true • false 	O
Logging Enabled	Indicates whether logging of System Payloads is enabled. This is not recommended to be enabled in a live environment unless necessary. Valid values: <ul style="list-style-type: none"> • true • false 	O
Shopify Default Initial Request Timestamp	Taken into consideration during Initial Load/ First Execution of the Integration Flow. Indicates the timestamp after which Orders have been created and should be replicated during the Initial Load / First Execution of the Integration Flow Valid Values are timestamps in the following format: <ul style="list-style-type: none"> • yyyy-MM-dd'T'HH:mm:ss'Z' For Example: <ul style="list-style-type: none"> • 1970-01-01T00:00:00Z 	O

Externalized Parameter	Description	Mandatory / Optional
Shopify Order Query Limit	Represents the number of Shopify Orders that will be retrieved in each query to Shopify during the execution of the Integration Flow. This number must be aligned with your Shopify Store's API limits - https://shopify.dev/docs/api/usage/rate-limits The maximum value is 250.	O
HTTP Session Reuse	Configure the session handling scope for HTTP based endpoints. Choose one of the following options: <ul style="list-style-type: none"> • None - Session handling is switched off. • On Exchange - Each exchange corresponds to a single session (use this option for stateful services). • On Integration Flow - Only one session will be used across the whole integration flow (only use this option for stateless services). Default Value: On Exchange	O

- Configure the "CustomerPreExitFlow" Receiver

Configure "Replicate Order Cancellation from Shopify to SAP S4HANA Cloud"

The screenshot shows a configuration window with three tabs: 'Timer', 'Receiver', and 'More'. The 'Receiver' tab is active. Under the 'Receiver' section, there are two dropdown menus: 'Receiver' is set to 'CustomerPreExitFlow' and 'Adapter Type' is set to 'ProcessDirect'. Below this, under the 'Connection' section, there is a text input field for 'Address' containing the value '/generic_pre_exit_process_direct'.

Figure 4.3.10.5 Configuring the Integration Flow's CustomerPreExitFlow Receiver

The description of each of the fields in Figure 4.3.10.5 is presented in the table below

Externalized Parameter	Description	Mandatory / Optional
Address		O

Externalized Parameter	Description	Mandatory / Optional
	<p>Contains the Integration Flow address which will be triggered during the execution of the Pre-Exit Integration Flow Step.</p> <p>For Example:</p> <ul style="list-style-type: none"> • /generic_pre_exit_process_direct <p>Note: This will be taken into consideration only if Customer Pre-Exits are enabled, denoted by the “Customer Pre-Exit Flow Enabled” Parameter mentioned above</p>	

- Configure the “CustomerPostExitFlow” Receiver

Configure "Replicate Order Cancellation from Shopify to SAP S4HANA Cloud"

The screenshot shows a configuration window with three tabs: 'Timer', 'Receiver', and 'More'. The 'Receiver' tab is active. Under the 'Connection' section, there are three fields: 'Receiver' set to 'CustomerPostExitFlow', 'Adapter Type' set to 'ProcessDirect', and 'Address' set to '/generic_post_exit_process_direct'.

Figure 4.3.10.6 Configuring the Integration Flow’s CustomerPostExitFlow Receiver

The description of each of the fields in Figure 4.3.10.6 is presented in the table below

Externalized Parameter	Description	Mandatory / Optional
Address	<p>Contains the Integration Flow address which will be triggered during the execution of the Post-Exit Integration Flow Step.</p> <p>For Example:</p> <ul style="list-style-type: none"> • /generic_post_exit_process_direct <p>Note: This will be taken into consideration only if Customer Post-Exits are enabled, denoted by the “Customer Post-Exit Flow Enabled” Parameter mentioned above</p>	O

- Configure the “Email” Receiver

Note: The Email receiver should be configured only if “Enable Email Notifications” is enabled

Configure "Replicate Order Cancellation from Shopify to SAP S4HANA Cloud"

Timer Receiver More

Connection

Receiver: Email

Adapter Type: Mail

Address: smtp.gmail.com:587

Proxy Type: Internet

Timeout (in ms): 30000

Protection: STARTTLS Mandatory

Authentication: Plain User/Password

Credential Name: OrderCancellationFlowEmailCredentials

Processing

From: orderCancellationSender@xxxx.xxx

To: orderCancellationRecipient@xxxx.xxx

Cc:

Bcc:

Subject: [Shopify Accelerator] Alert for "Replicate Order Cancellation from Shopify to SAP S/4HANA Cloud"

Body Mime-Type: Text/HTML

Body Encoding: UTF-8

Figure 4.3.10.7 Configuring the Integration Flow’s Email Receiver

The description of each of the fields in Figure 4.3.10.7 is presented in the table below

Externalized Parameter	Description	Mandatory / Optional
Address	<p>Specify the hostname and port of your SMTP Server.</p> <p>For Example:</p> <ul style="list-style-type: none"> smtp.gmail.com:587 <p>For more details, refer to the official Mail Adapter configuration https://help.sap.com/docs/cloud-integration/sap-cloud-integration/configure-mail-receiver-adapter</p>	O

Externalized Parameter	Description	Mandatory / Optional
Proxy Type	The type of proxy you want to use for establishing connection with the SMTP server. Default value: Internet	O
Timeout (in ms)	Specify the timeout duration for establishing a connection with the mail server. If the connection is not established within this time, the adapter raises an error Default Value: 30000	O
Protection	Specify the security protocol for transmitting emails Valid Values: <ul style="list-style-type: none"> • Off – No encryption • SMTPS – Enforces SSL/TLS • STARTTLS Mandatory – Fails if encryption cannot be established • STARTTLS Optional – Falls back to unencrypted if not supported 	O
Authentication	Specify the authentication mechanism to be used when connecting to the SMTP server Valid Values: <ul style="list-style-type: none"> • Encrypted User/Password • Plain User/Password • OAuth2 Authorization Code • None 	O
Credential Name	Specify the name of a deployed User Credentials artifact that holds the Username and Password used to authenticate with the mail server	O
From	Specify the email address from which the Email notification should be sent. For more details, refer to the official Mail Adapter configuration https://help.sap.com/docs/cloud-integration/sap-cloud-integration/configure-mail-receiver-adapter	O
To		O

Externalized Parameter	Description	Mandatory / Optional
	Specify the email address where to send the exception notification. For more details, refer to the official Mail Adapter configuration https://help.sap.com/docs/cloud-integration/sap-cloud-integration/configure-mail-receiver-adapter	
Cc	Specify email address to receive a carbon copy (Cc) of the exception notification. The Recipient in the Cc field is visible to all other recipients of the email	O
Bcc	Specify address to receive a blind carbon copy (Bcc) of the exception notification. The Recipient in the Bcc field is hidden from all other recipients of the email	O
Subject	The Email Subject Default Value: <ul style="list-style-type: none"> [Shopify Accelerator] Alert for "Replicate Order Cancellation from Shopify to SAP S/4HANA Cloud" 	O
Body Mime-Type	Contains the Email Body in HTML format that will be sent during alerts.	O
Body Encoding	Specify the character encoding to be used for the email content. This ensures that special characters are displayed correctly by the mail client. Default Value: UTF-8	O

- Save and deploy