|  |  |
| --- | --- |
|  |  |
| Test Script  SAP S/4HANA - 18-09-20 | public |
| Enablement of SAP Cloud Platform Excise Tax (4LO) |

Table of Contents

[1 Purpose 2](#_Toc51415293)

[2 Prerequisites 3](#_Toc51415294)

[2.1 System Access 3](#_Toc51415295)

[2.2 Roles 3](#_Toc51415296)

[2.3 Master Data, Organizational Data, and Other Data 4](#_Toc51415297)

[2.4 Additional Manual Configuration 5](#_Toc51415298)

[2.5 Business Conditions 5](#_Toc51415299)

[2.6 Preliminary Steps 5](#_Toc51415300)

[2.6.1 Prerequisite 5](#_Toc51415301)

[2.6.2 System Requirements 6](#_Toc51415302)

[2.6.3 Preprocessing Steps 6](#_Toc51415303)

[3 Test Procedures 7](#_Toc51415304)

[3.1 Replication of Organizational Data 7](#_Toc51415305)

[3.2 Replication of Master Data 8](#_Toc51415306)

[3.3 Replication of Material Documents 10](#_Toc51415307)

[3.4 Excise Tax: Pricing Integration to SAP S/4HANA 11](#_Toc51415308)

# Purpose

The integration scenario described here deals with the SAP S/4HANA Cloud APIs for integration with the SAP Excise Tax Management, which are in the areas of Master Data (business partners, materials, organizational data), materials Management (Material Documents), Logistics Execution (Delivery for EMCS (Excise Movement and Control System)), Sales (pricing in Sales Order and Billing), Financials (posting of excise taxes to Accounting).

Country- and customer-specific details are not covered and must be implemented on an individual basis to meet both legal and customer requirements.

This document provides a detailed procedure for testing this scope item after solution activation, reflecting the predefined scope of the solution. Each process step, report, or item is covered in its own section, providing the system interactions (test steps) in a table view. Steps that are not in scope of the process but are needed for testing are marked accordingly. Project-specific steps must be added.

# Prerequisites

This section summarizes all the prerequisites for conducting the test in terms of systems, users, master data, organizational data, other test data and business conditions.

## System Access

|  |  |
| --- | --- |
|  | Details |
| SAP Cloud Platform | Your system administrator provides you with the URL to access the various apps assigned to your role. |

## Roles

Assign the following business roles to your individual test users. Alternatively, if available, you can create business roles using the following spaces with pages and predefined apps for the SAP Fiori launchpad and assign the business roles to your individual test users.

Note These roles or spaces are examples provided by SAP. You can use them as templates to create your own roles or spaces.

For more information about business roles, refer to Assigning business roles to a user in the [Administration Guide to Implementation of SAP S/4HANA with SAP Best Practices](https://help.sap.com/viewer/S4HANA2020_AdminGuide) .

Customer has to create a role for the 4LO integration or enhance an already existing role by the content described below:

|  |  |
| --- | --- |
| Object Type | TADIR Service |
| IWSG SAP Gateway: Service Group Metadata | ZAPI\_BUSINESS\_PARTNER\_0001 |
| ZAPI\_STORAGELOCATION\_SRV\_0001 |
| ZAPI\_PRODUCT\_SRV\_0001 |
| ZAPI\_EXCISETAXPLANT\_SRV\_0001 |
| ZAPI\_EXCISETAXMATDOCITM\_SRV\_0001 |
| ZAPI\_COMPANYCODE\_SRV\_0001 |
| ZAPI\_EXCISETAXACCDOCPOST\_SRV\_0001 |
| ZAPI\_GLACCOUNTINCHARTOFACCOUNTS\_SRV |
| ZAPI\_ET\_UNITOFMEASURE\_SRV\_0001 |
| IWSV SAP Gateway Business Suite Enablement | API\_BUSINESS\_PARTNER 0001 |
| API\_STORAGELOCATION\_SRV 0001 |
| API\_PRODUCT\_SRV 0001 |
| API\_EXCISETAXPLANT\_SRV 0001 |
| API\_EXCISETAXMATDOCITM\_SRV 0001 |
| API\_COMPANYCODE\_SRV 0001 |
| API\_EXCISETAXACCDOCPOST\_SRV 0001 |
| API\_GLACCOUNTINCHARTOFACCOUNTS\_SRV |
| API\_ET\_UNITOFMEASURE\_SRV 0001 |

## Master Data, Organizational Data, and Other Data

The organizational structure and master data of your company have been created in your system during implementation. The organizational structure reflects the structure of your company. The master data represents materials, customers, and suppliers, for example, depending on the operational focus of your company.

Use your own master data or the following sample data to go through the test procedure.

|  |  |  |  |
| --- | --- | --- | --- |
| Data | Sample Value | Details | Comments |
| Company Code | all available company codes |  |  |
| Storage Location | all available storage location |  |  |
| Material Master | all available |  |  |
| Business Partner | all available |  |  |
| Material Document | All available |  |  |

## Additional Manual Configuration

Before you can test this scope item, you must have completed the additional configuration steps that are described in the Set-Up Instructions for this scope item. These configuration steps are specific for your implementation and include mandatory settings that are not delivered by SAP and must be created by you. For more information, refer to the Set-Up Instructions for this scope item on [SAP Best Practices Explorer](https://rapid.sap.com/bp) (https://rapid.sap.com/bp/#/browse/scopeitems/<enter the scope item ID>).

## Business Conditions

Before you can test this scope item, the following business conditions must be met.

|  |  |
| --- | --- |
| Scope Item ID | Business Condition |
| J45 - Procurement of Direct Materials | There must be material master records available meeting the excise tax condition (e.g. alcohol, tobacco). The relevance for the excise tax will be defined in the SAP Cloud Platform Excise Tax app.  Material documents for the related material master records (e.g. purchase order, sales order). |

## Preliminary Steps

### Prerequisite

Use

Create material master record.

Procedure

Copy an existing material master record in the SAP S/4HANA system to a new material master record (all views etc.) and rename it to, for example, Alcohol, unit of measure: Liter.

### System Requirements

* SAP S/4HANA system connected to SAP Cloud Platform Excise Tax (SM59-Configuration of RFC Connections: HTTP Connection to External Server)
* OAuth2 authentication (SE80-Object Navigator: OAuth 2.0 Client Profile; OA2C\_CONFIG-OAuth 2.0 Client: OAuth 2.0 Configuration)

### Preprocessing Steps

* Create the condition type ET01 based on the predelivered formula for excise tax calculation
* Enhance the pricing procedure in use for sales orders and customer invoices for excise tax materials by the condition type ET01

# Test Procedures

This section describes test procedures for each process step that belongs to this scope item.

## Replication of Organizational Data

Test Administration

Customer project: Fill in the project-specific parts.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case ID | <X.XX> | Tester Name |  | Testing Date | Enter a test date. |
| Business Role(s) |  | | | | |
| Responsibility | <State the Service Provider, Customer or Joint Service Provider and Customer> | | | Duration | Enter a duration. |

Purpose

The configuration of the Excise Tax solution on SAP Cloud Platform requires access to a minimal set of organizational data. On SAP Cloud Platform-Excise Tax side, the integration is realized via value helps synchronously integrated to the connected SAP S/4HANA tenant. By value picking, in some use cases, organizational data are directly transferred from the value help result list into SAP Cloud Platform-Excise Tax instances. The SAP S/4HANA Excise Tax Integration Layer provides the means to synchronously access Company Codes, Plants and Storage Locations.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Log on to the SAP Cloud Platform Excise Tax tenant. You need to have the role of Configuration Expert or Tax Responsible assigned to your user . . | The Fiori launch pad should be loaded and various apps should be seen. |  |
| 2 | Check Company Codes | Use the Master Data Change Logs. Choose the value helps for Company Code and Plant in the filter area and choose Go on the subsequent dialog boxes. | A list of the company codes and plants available in the SAP S/4HANA system is displayed:  Company Code: e.g. 1010, 1710 etc.  Plant: e.g. 1010, 1710 etc. |  |
| 3 | Check Storage Locations | For the test of the Storage Location integration, use the Warehouse Assignments app. Choose the value help for Storage Location in the filter area and choose Go on the subsequent dialog boxes. | As a result, you see all storage locations with its description and with its assignment to a plant, which are maintained in the connected SAP S/4HANA client.  Storage Location: <any> |  |
| 4 | Create New Warehouse Assignment | To create a new warehouse assignment (in your test system), use the Warehouse Assignments app. Choose Create and select individual values from the Plant and Storage Location value helps. In addition, select a Tax Type and a corresponding Warehouse ID and enter a Plant Warehouse Number. Save the new warehouse assignment. | Check the created Warehouse.  Verify its existence and correct assignment to the plant and storage location via the search functionality on the initial screen of the Warehouse Assignment app. |  |

## Replication of Master Data

Test Administration

Customer project: Fill in the project-specific parts.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case ID | <X.XX> | Tester Name |  | Testing Date | Enter a test date. |
| Business Role(s) |  | | | | |
| Responsibility | <State the Service Provider, Customer or Joint Service Provider and Customer> | | | Duration | Enter a duration. |

Purpose

Running the SAP Cloud Platform Excise Tax solution in terms of configuration, evaluations and data processing requires the synchronization of some master data with the connected SAP S/4HANA client. In particular, the replication of business partners (in their roles as vendors and customers/ship-to parties) and materials, which are excise tax relevant, are of importance.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Log on to the SAP Cloud Platform Excise Tax tenant. You need to have the role of Tax Responsible assigned to your user. . | The Fiori launchpad should be loaded and various apps should be seen. |  |
| 2 | Replication of Master Data | Open the Synchronize Data and View Changes app and choose Synchronize Master Data’ on the Master Data Synchronization tab. | This triggers the master data replication from the SAP S/4HANA client to the SAP Cloud Platform Excise Tax tenant. In order to see the result of the replication, choose Go on the same screen in the filter area and check the status for the replication of the different master data objects. To further check the integration, change a field in a master data instance and the trigger the replication.  This triggers the master data replication from the SAP S/4HANA client to the SAP Cloud Platform Excise Tax tenant.. The following objects are replicated with the attributes as mentioned.   * \* Vendor Data – BP Number, Name, City, Street * \* Customer Data - – BP Number, Name, City, Street * \* Company Code - Description * \* Storage Location - Description * \* Plant - Description * \* Unit of Measure for Material – Additional Unit of * Measures for Material Master * \* Material Description – Description * \* PRODCOM – Prodcom Number   If there are changed which are replicated, you can navigate in the logs to check them. |  |
| 3 | Replication of Material Documents | Start the document selection in the Execute Document Selection app.  Pay special attention to the number of documents that are due for selection in the header of this app. After fetching the documents from the SAP S/4HANA client, the documents are valuated asynchronously. | As a result, in the processing overview, the number of documents is monitored that are fetched from the SAP S/4HANA client in a certain time frame, as well as their classification is taken over to stock ledger, rejected, disregarded, or still in process. In the Stock Ledger app, you can view all material documents that are considered to be excise tax relevant. |  |

## Replication of Material Documents

Test Administration

Customer project: Fill in the project-specific parts.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case ID | <X.XX> | Tester Name |  | Testing Date | Enter a test date. |
| Business Role(s) |  | | | | |
| Responsibility | <State the Service Provider, Customer or Joint Service Provider and Customer> | | | Duration | Enter a duration. |

Purpose

The material documents are the basis for the excise tax calculation. Therefore, its replication from the SAP S/4HANA client to the SAP Cloud Platform Excise Tax solution plays a central role in the integration between both systems. In the course of the material document replication, all sorts of material movements are replicated to SAP Cloud Platform Excise Tax. Depending on its movement type, the documents are sorted in SAP Cloud Platform Excise Tax and evaluated regarding its relevance for excise tax, depending on the SAP Cloud Platform Excise Tax configuration. The central process step is the calculation of the excise tax amount for each movement, which in turn is the basis for the excise tax declaration to the legal authorities.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Log on to the SAP Cloud Platform Excise Tax tenant as an Administrator. |  |  |
| 2 | Replication of Material Documents | Start the document selection in the Execute Document Selection app.  Pay special attention to the number of documents that are due for selection in the header of this app. After fetching the documents from the SAP S/4HANA client, the documents are valuated asynchronously. | As a result, in the processing overview, the number of documents is monitored that are fetched from the SAP S/4HANA client in a certain time frame, as well as their classification is taken over to stock ledger, rejected, disregarded, or still in process. In the Stock Ledger app, you can view all material documents that are considered to be excise tax relevant. |  |

## Excise Tax: Pricing Integration to SAP S/4HANA

Test Administration

Customer project: Fill in the project-specific parts.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case ID | <X.XX> | Tester Name |  | Testing Date | Enter a test date. |
| Business Role(s) |  | | | | |
| Responsibility | <State the Service Provider, Customer or Joint Service Provider and Customer> | | | Duration | Enter a duration. |

Purpose

Proof that excise tax amount is considered in pricing schema of sales orders and customer invoices for excise tax relevant materials.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Log on to the SAP Fiori launchpad as an internal sales representative.  Note Sales representative is responsible for creating and maintaining of sales orders. It is a generic term. |  |  |
| 2 | Transaction VA01 (Create Sales Order) | Enter Order Type, Sales Organization, Distribution Channel, and Division. Choose Enter. | The Create Sales Order: Overview screen is displayed. |  |
| 3 | Create Sales Order: Overview | Enter Customer, Customer Reference, Material, Quantity. Choose Save. | The sales order is posted. |  |
| 4 | Transaction VA03 (Display Sales Order) | Enter the number of the previously created sales order. |  |  |
| 5 | Item Detail | Mark one line item with an excisable material and choose Item details. |  |  |
| 6 |  | Go to the Conditions tab. | The excise tax amount is displayed as part of the pricing schema. |  |
| 7 | Transaction VA02 (Change Sales Order) | Enter the number of the previously created sales order and choose Enter. | The Sales Order Overview is displayed. |  |
| 8 | Create Delivery | In the menu, choose Sales Document - Deliver. On the Picking tab, enter the quantity and choose Save. | The delivery is created. |  |
| 9 | Transaction VL02 (Change Outbound Delivery) | Enter the number of the previously created delivery. Choose Post Goods Issue. | The goods issue is posted. |  |
| 10 | Transaction VF01 (Create Billing Document) | Choose the billing typeF2 Invoice and enter the billing date. |  |  |
| 11 | Create Invoice | Enter the previously created delivery in the list of documents. Choose Save- | The customer invoice is created. |  |

Typographic Conventions

|  |  |
| --- | --- |
| Type Style | Description |
| Example | Words or characters quoted from the screen. These include field names, screen titles, pushbuttons labels, menu names, menu paths, and menu options.  Textual cross-references to other documents. |
| Example | Emphasized words or expressions. |
| EXAMPLE | Technical names of system objects. These include report names, program names, transaction codes, table names, and key concepts of a programming language when they are surrounded by body text, for example, SELECT and INCLUDE. |
| Example | Output on the screen. This includes file and directory names and their paths, messages, names of variables and parameters, source text, and names of installation, upgrade and database tools. |
| Example | Exact user entry. These are words or characters that you enter in the system exactly as they appear in the documentation. |
| <Example> | Variable user entry. Angle brackets indicate that you replace these words and characters with appropriate entries to make entries in the system. |
| EXAMPLE | Keys on the keyboard, for example, F2 or ENTER. |

|  |
| --- |
|  |
| www.sap.com/contactsap |
| © 2020 SAP SE or an SAP affiliate company. All rights reserved.  No part of this publication may be reproduced or transmitted in any form or for any purpose without the express permission of SAP SE or an SAP affiliate company. The information contained herein may be changed without prior notice.  Some software products marketed by SAP SE and its distributors contain proprietary software components of other software vendors. National product specifications may vary.  These materials are provided by SAP SE or an SAP affiliate company for informational purposes only, without representation or warranty of any kind, and SAP or its affiliated companies shall not be liable for errors or omissions with respect to the materials. The only warranties for SAP or SAP affiliate company products and services are those that are set forth in the express warranty statements accompanying such products and services, if any. Nothing herein should be construed as constituting an additional warranty.  SAP and other SAP products and services mentioned herein as well as their respective logos are trademarks or registered trademarks of SAP SE (or an SAP affiliate company) in Germany and other countries. All other product and service names mentioned are the trademarks of their respective companies.  See [www.sap.com/copyright](http://www.sap.com/copyright) for additional trademark information and notices. |

