

ONESOURCE™

TAX PROVISION FOR SAP S/4 HANA

CONFIGURATION AND USER GUIDE

VERSION NUMBER 1.0.0.1

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DOCUMENT HISTORY

VERSION NUMBER	VERSION DATE	SUMMARY
1.0.0.0	September 2022	Initial Release
1.0.0.1	February 2023	Insert sections <i>Technical Architecture</i> and <i>Additional SAP Cloud Integration Parameterization (S/4HANA On-Premise)</i>

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INTEGRATION OVERVIEW

ONESOURCE® Tax Provision is now integrated with SAP S/4HANA using SAP® Business Technology Platform to compute income tax provision postings and generate the respective tax provision journal entries. This reduces risk and time spent on tax provision processes during the financial close.

By automating the extract of trial balances in SAP S/4HANA and generating income tax provision journal entries, this integration increases the efficiency of the financial period close and reduces manual intervention and inaccuracies.

With ONESOURCE Tax Provision being fully integrated with SAP S/4HANA, allows tax departments to have complete confidence in their data strategy, improved efficiencies in their financial close, and the assurance that reports are easily auditable by external advisors.

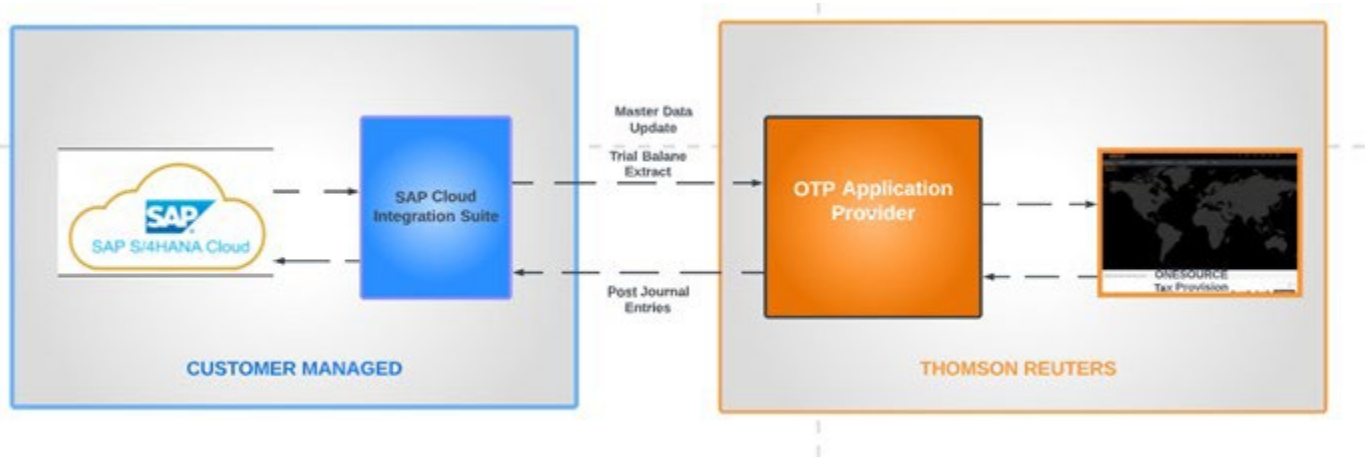
PREREQUISITES

This guide serves to highlight the configuration steps in the customer's S/4HANA and Cloud Integration Suite environment. You must have access to an SAP Cloud Integration Suite service on an SAP Business Technology Platform (SAP BTP) account, and a valid subscription to ONESOURCE Tax Provision solution and Integration apps.

Persons carrying out these configuration items should have technical knowledge and experience working in this area.

ARCHITECTURE AND DESIGN OVERVIEW

High Level Architecture



The solution consists of the following components:

Customer Managed S/4HANA System

Both S/4HANA Cloud and On-Prem systems are supported for this integration. Here, you will install the communication user and communication arrangements to connect to your Cloud Integration Suite.

Customer Managed Cloud Integration Suite

You are required to have an existing subscription to SAP Business Technology Platform (SAP BTP) to host the Integration Flows (iFlows) and set up value mapping tables.

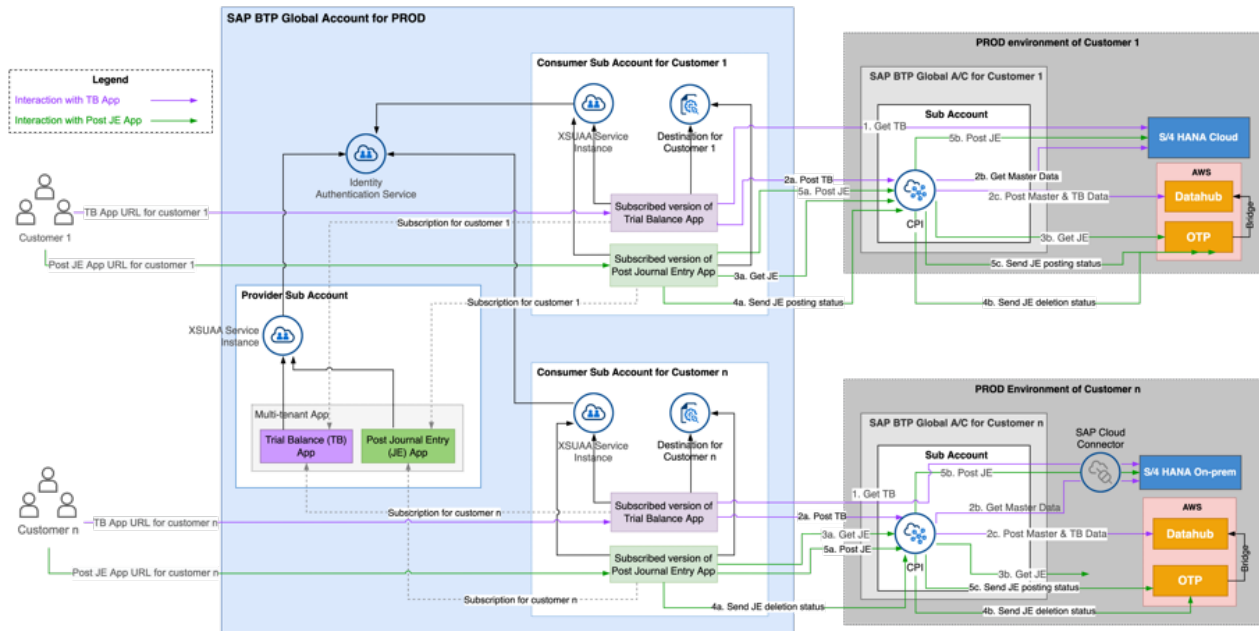
Thomson Reuters OTP Application Provider

Thomson Reuters develops and operates the applications and publishes updates to customers. Each customer has a dedicated subaccount in Thomson Reuters' provider global account.

ONESOURCE Tax Provision

ONESOURCE Tax Provision helps speed up the process of reporting your company's current and deferred income taxes for the current year. All steps are automated in a single, user-friendly platform. Thomson Reuters ONESOURCE Tax Provision software calculates corporate tax estimates in seconds, and lets you quickly review data with filtering and drill-down capabilities.

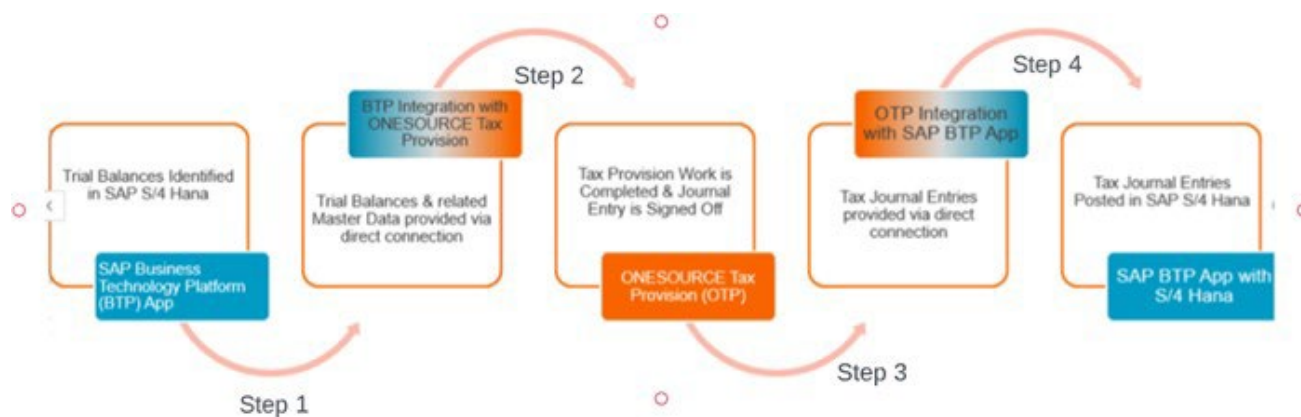
Technical Architecture and Landscape



Key Highlights

- Provider and Subscriber/consumer subaccounts may be provisioned in different regions e.g., US East, EMEA.
- Being multi-tenant application, both the Fiori applications (Trial Balance app, Post Journal Entry app) would be deployed into the “Provider subaccount”.
- For each customer, a separate “subscriber or consumer” subaccount will be provisioned by TR with subscription of these apps resulting in a unique URL used every time.
- Data of each customer will be completely separated from each other.
- Access to the Trial Balance app and Post Journal Entry app will be managed through “role-based access control”.
- Customers must bring their own SAP Integration Suite tenant to use this solution.
- Customers will be downloading the integration package published by Thomson Reuters in the SAP API Business Hub and configure the relevant settings to connect with the Fiori applications running in in Thomson Reuters’ SAP BTP environment.

Supported Business Processes and Workflow



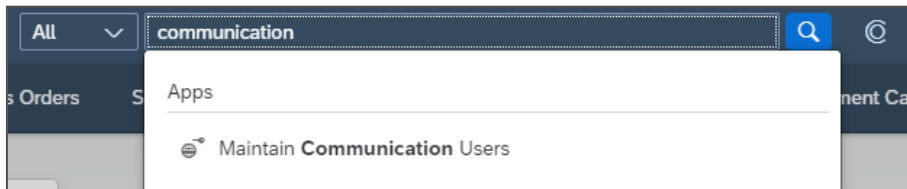
- **Step 1:** SAP S/4HANA Trial Balance data is first identified and reviewed. Business Technology Platform (BTP) calls the SAP **GET Trial Balance** and **GET Master Data** APIs.
- **Step 2:** Trial balance data is selected and transferred to ONESOURCE Tax Provision.
- **Step 3:** Trial balance data is processed and reviewed, and tax provision-related processes are performed in ONESOURCE Tax Provision. The resulting computed Tax Provision Journal Entries output in OTP is reviewed and transferred to SAP BTP.
- **Step 4:** Review and post the tax provision journal entries to SAP S/4HANA using SAP POST Journal Entries API calls.

CONFIGURATION ITEMS IN S/4HANA

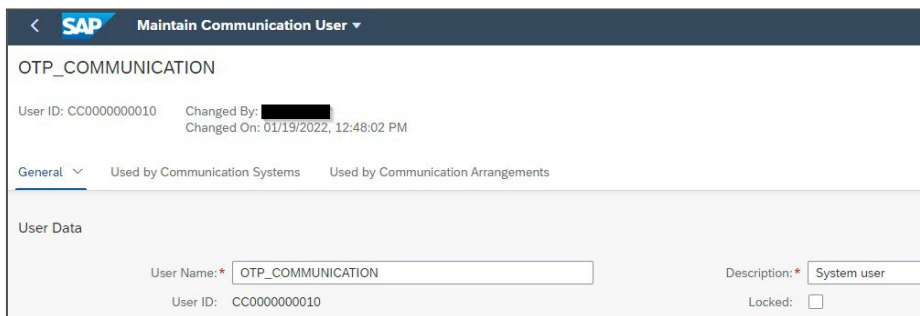
This section outlines the configuration items required within your S/4HANA system to establish the connection to your SAP Integration Suite and the TR applications. For S/4HANA On-Premise deployments, refer to the supplementary configuration document.

Create the Communication User

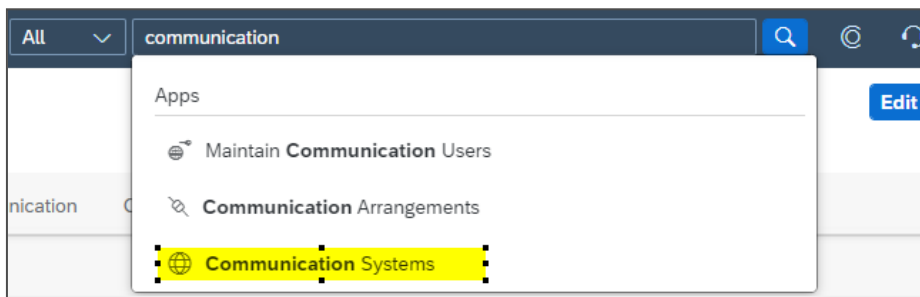
1. Navigate to the **Communication Users** app in your S/4HANA system.



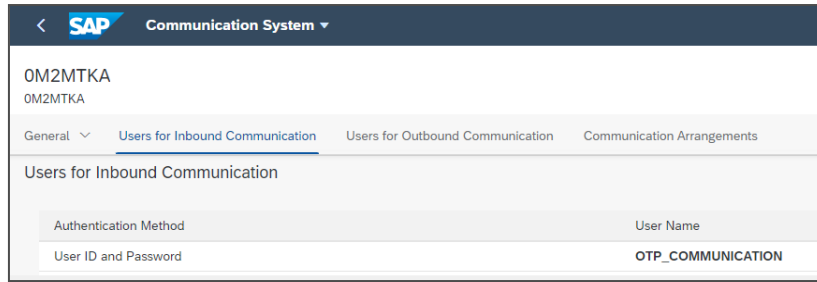
2. Provide a username to establish the Communication User for the integration.



3. Open the **Communication Systems** app.



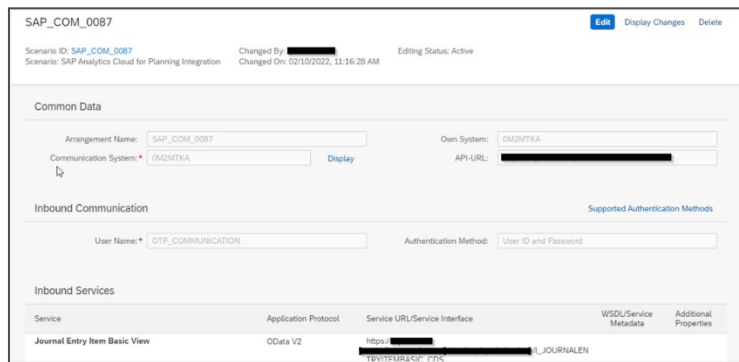
4. Add the user in the **Communication System** app for inbound communication.



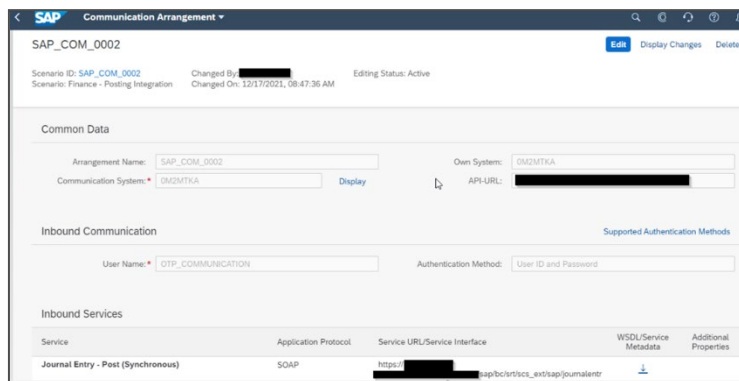
Create the Communication Arrangement

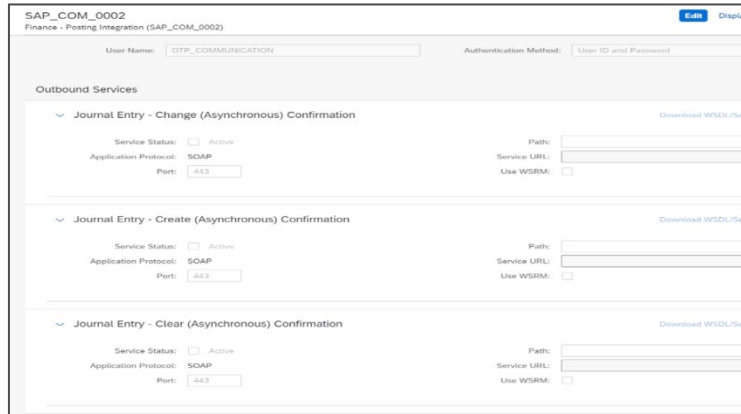
For this integration, set up the following arrangements:

- **SAP_COM_0087 - Company Code / G/L Account / Chart of Accounts**

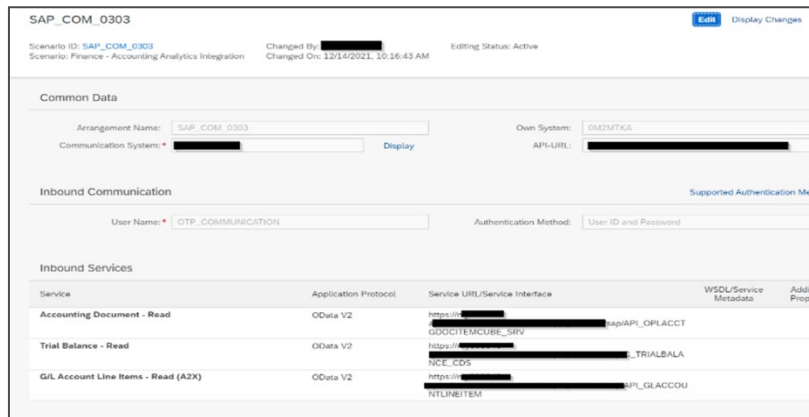


- **SAP_COM_0002 - Journal Entry - Post (Synchronous)**



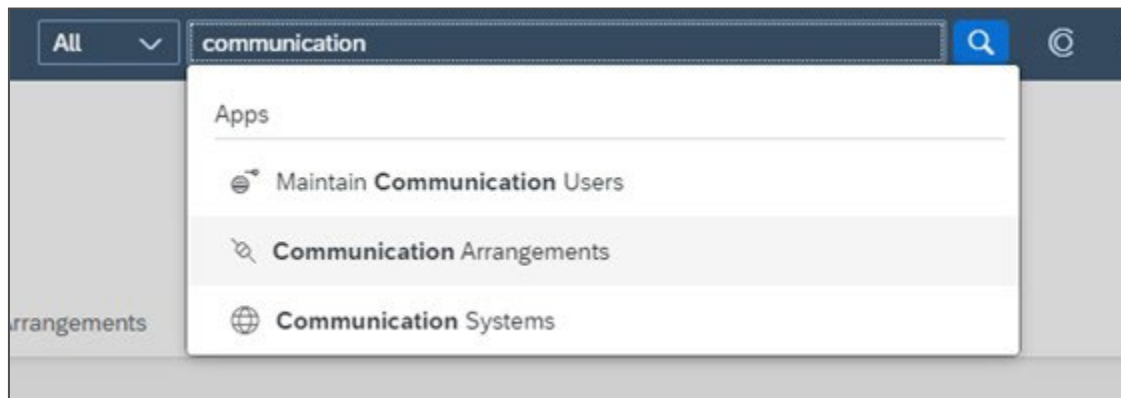


- **SAP_COM_0303 - Trial Balance – Read**

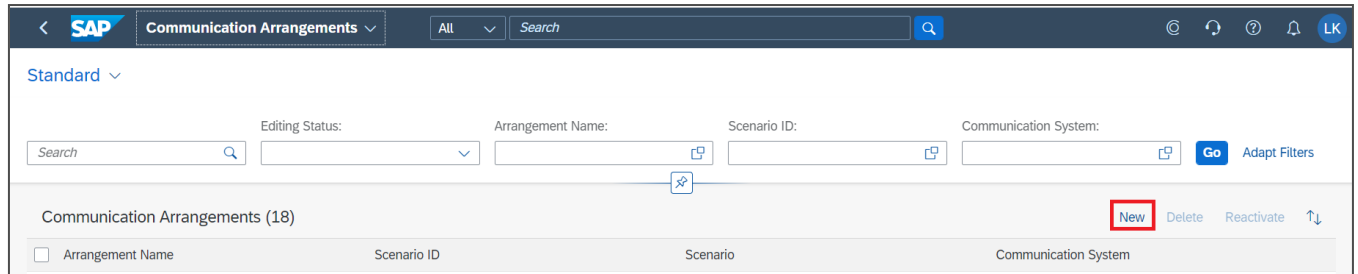


To create the communication arrangement:

1. Navigate to the **Communication Arrangement** app.



2. Select the **New** button and create all three communication systems as shown below.



3. Select **Save**.

4. Under **Communication System**, select the appropriate S/4HANA System.

5. Under **Inbound Communication**, enter the Communication User you created previously.

CONFIGURATION ITEMS IN THE CLOUD INTEGRATION SUITE

This section explains the configuration items required within your SAP Cloud Integration Suite.

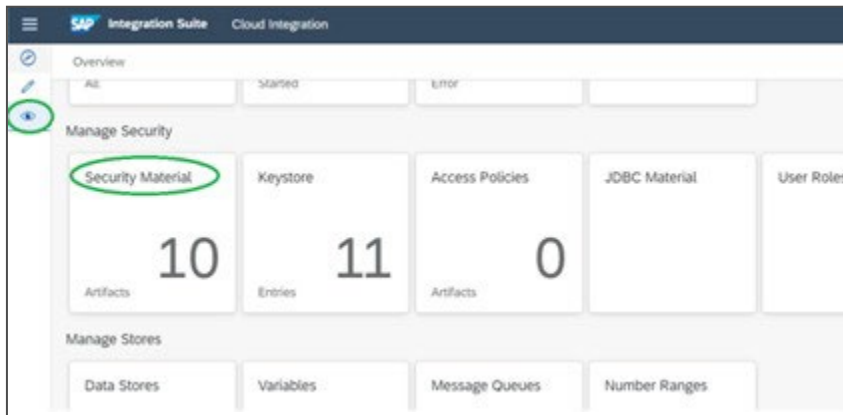
Creating User Credentials

The following credentials will be deployed in CI Security Material:

- S/4 System User Credentials
- OTP/ONESOURCE System User Credentials.

To create user credentials:

1. Open the **Monitoring** tiles in Cloud Integration (CI), then navigate to the **Security Material** tile.



2. Navigate to **Create > User Credentials**.

3. On the pop-up screen, enter the following details:

FIELD	DESCRIPTION
Name	Enter a name for your user.
Type	Select User Credentials .
User	Obtain the user and password from your Thomson Reuters' Professional Services team to access the OTP application
Password	

Create User Credentials

Name: *

Description:

Type: *

User: *

Password:

Repeat Password:

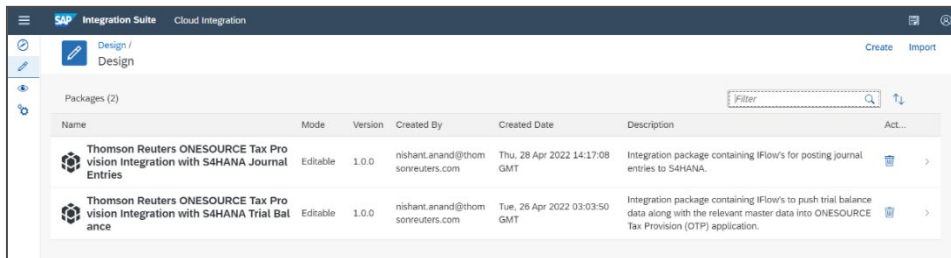
Deploy Cancel

4. Deploy the credentials to the SAP Cloud Integration security materials.

Import Packages

To make the Thomson Reuters integration content available, import the iFlow Packages and configure the relevant settings.

1. Open the **Design** tab of the Cloud Integration Suite and select **Import**.



2. Import or upload the same package available to you in .zip format.



3. Verify that the integration package was successfully uploaded to CI.

Configure Tenant Related Value Mappings

To configure the necessary packages, you must pass relevant values to the iFlows. This process helps to connect the accurate credentials that are linked to your tenant. From there, the iFlows will use the credentials for further processing.

You will set up the values in the Value mapping table. You must set up three values for reach tenant ID in the value mapping tables.

1. Locate your tenant ID.

You will be provided with two separate URLs for the apps. The tenant ID is the prefix within your URL. In this example below the tenant ID is otpqa-nt1qhwiu.

otpqa-nt1qhwiu:otppqa-saastrialbalanceapp.cfapps.eu10-004.hana.ondemand.com/index.html
otpqa-nt1qhwiu:otppqa-saaspostjeapp.cfapps.eu10-004.hana.ondemand.com/index.html

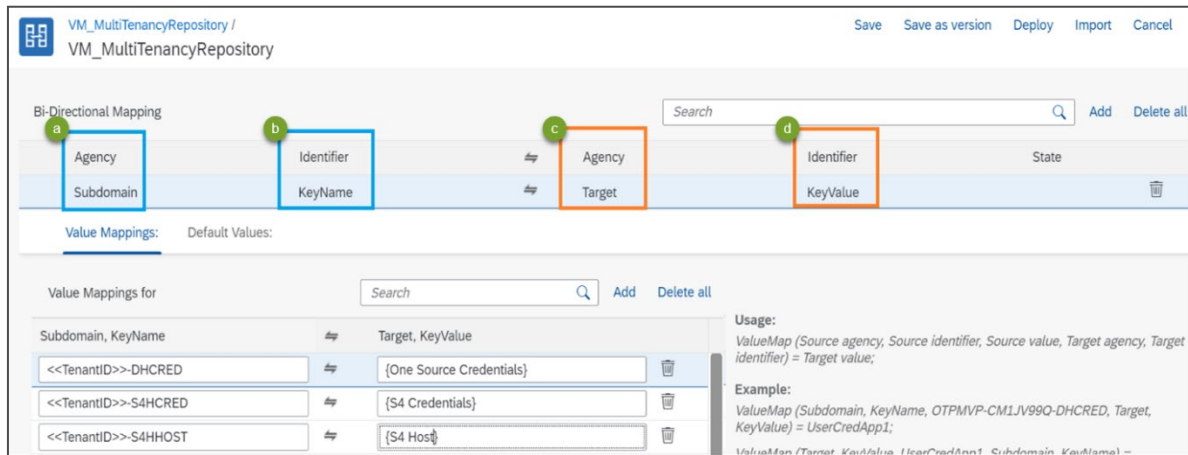
2. Within the Integration package, navigate to the artifact **VM_MultiTenancyRepository**.

The screenshot shows the SAP Integration Suite interface for a package named 'Thomson Reuters ONESOURCE Tax Provision Integration with S4HANA Trial Balance'. The 'Artifacts (6)' tab is selected, displaying a table of artifacts. The artifact 'VM_MultiTenancyRepository' is highlighted with a red box, and a red arrow points to it from the left sidebar.

Name	Type	Version	Actions
MasterDataUpdate_S4H_OTP Fetch Master Data Created	Integration Flow	Draft	[Edit]
PD_Check_ChartOfAccountID Created	Integration Flow	1.0.3	[Edit]
PD_Check_TenantID Check Valid Tenant ID Request Modified	Integration Flow	1.0.4	[Edit]
PD_CheckID_TrialBalance PD_CheckID_TrialBalance Modified	Integration Flow	1.0.1	[Edit]
PushTrialBalance_S4_OTP Post the file content to OTP Latest Version:24/12/2021 Modified	Integration Flow	1.0.44	[Edit]
VM_MultiTenancyRepository Modified	Value Mapping	Draft	[Edit]

3. Create a value mapping for the agency and identifier combination.

4. a. **Source Agency:** Subdomain
- b. **Source Identifier:** KeyName
- c. **Target Agency:** Target
- d. **Target Identifier:** KeyValue

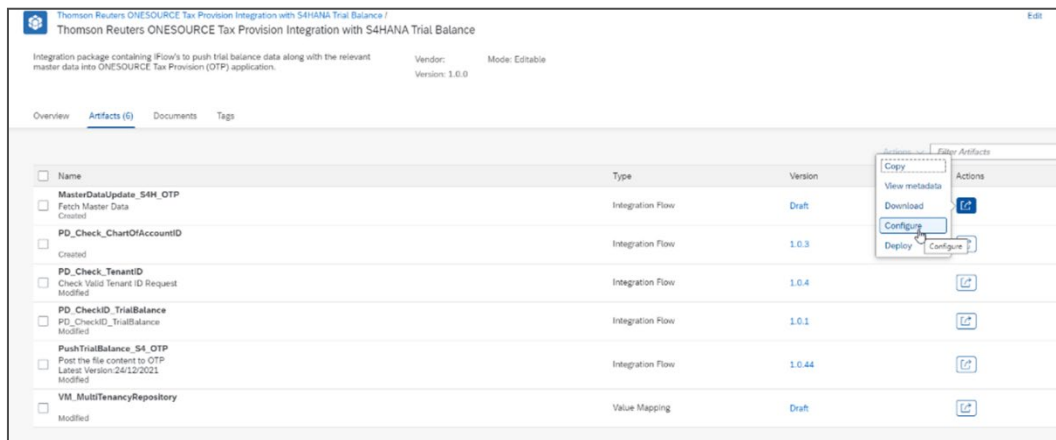


SUBDOMAIN KEYNAME	TARGET KEYVALUE
Tenant ID-DHCRED	Refers to One Source Credentials, as deployed in Security Material
Tenant ID-S4HCRED	Refers to S4HANA Credentials, as deployed in Security Material
Tenant ID-S4HOST	Refers to S4HANA Host name – as provisioned by SAP

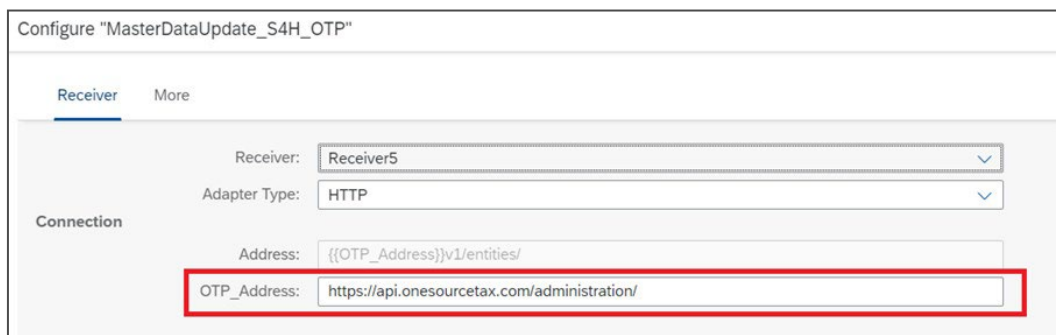
Configure CI Artifacts

In this step, you need to maintain the configurations for all the artifacts provided within the two Integration package.

1. For each artifact, select **Actions > Configure**.



2. Under the **Receiver** tab, review the OTP_Address against the relevant receiver item.



OTP_Address is the ONESOURCE URL to access the bearer token to authenticate the call.

Additional SAP Cloud Integration Parameterization (S/4HANA On-Premise)

If you are connecting from your S/4HANA On-Premise, this section applies to you. This is an additional step to maintain the Cloud Connector location id for the receiver adapter configuration of the iFlows.

1. Within the iFlow package, for each artifact, click on *Configure*.

SAP Integration Suite

Integrations / Thomson Reuters ONESOURCE Tax Provision Integration with S4HANA Trial Balance / Edit Export Delete Package

Thomson Reuters ONESOURCE Tax Provision Integration with S4HANA Trial Balance

Integration package containing IFlow's to push trial balance data along with the relevant master data into ONESOURCE Tax Provision (OTP) application. Vendor: Mode: Editable
Version: 1.0.0

Overview **Artifacts (6)** Documents Tags

Name	Type	Version	Actions
MasterDataUpdate_S4H_OTP			
Fetch Master Data Modified	Integration Flow	1.0	Copy View metadata Download Configure Deploy
PD_Check_ChartOfAccountID			
Unmodified	Integration Flow	1.0	Configure Deploy
PD_Check_TenantID			
Check Valid Tenant ID Request Unmodified	Integration Flow	1.0.5	Configure
PD_CheckID_TrialBalance			
PD_CheckID_TrialBalance Unmodified	Integration Flow	1.0.1	Configure
PushTrialBalance_S4_OTP			
Post the file content to OTP Latest Version:24/12/2021 Modified	Integration Flow	1.0.48	Configure
VM_MultiTenancyRepository			
Modified	Value Mapping	1.0.12	Configure

2. Ensure that the location-id matches the location ID of the cloud connector configuration:

Configure "MasterDataUpdate_S4H_OTP"

Receiver More

Receiver: OTP_GetTokenCode

Adapter Type: HTTP

Connection

Address: http://{{S4HCloud_Address}}(P_FromPostingDate=date...

S4HCloud_Address: \${header.S4H_URL}/sap/opu/odata/sap/C_TRIALBALA...

Location ID: <<Location ID in customer cloud connector>>

Credential Name: \${header.S4H_Cred}

3. Save and deploy the artifact.
4. Repeat the same setup for the others iFlow objects of the two packages:

Deploy Integration Artifacts

Once the configuration of Integration Artifacts is completed, you will need to deploy all artifacts. Every artifact is to be deployed one at a time, in no specific order.

You have two options to deploy the artifact.

1. Deploy each artifact individually from the package under **Actions > Deploy**.

The screenshot shows the SAP Integration Suite interface for a package named "Thomson Reuters ONESOURCE Tax Provision Integration with S4HANA Trial Balance". The package description is "Integration package containing iFlow's to push trial balance data along with the relevant master data into ONESOURCE Tax Provision (OTP) application." The vendor is "Mode: Editable" and the version is "1.0.0".

The interface displays a table of artifacts:

Name	Type	Version	Actions
<input type="checkbox"/> MasterDataUpdate_S4H_OTP Fetch Master Data Modified	Integration Flow	Draft	[Copy] [View metadata] [Download] [Configure] [Deploy] [Link]
<input type="checkbox"/> PD_Check_ChartOfAccountID Unmodified	Integration Flow	1.0.4	[Copy] [Link]
<input type="checkbox"/> PD_Check_TenantID Check Valid Tenant ID Request Unmodified	Integration Flow	1.0.5	[Copy] [Link]

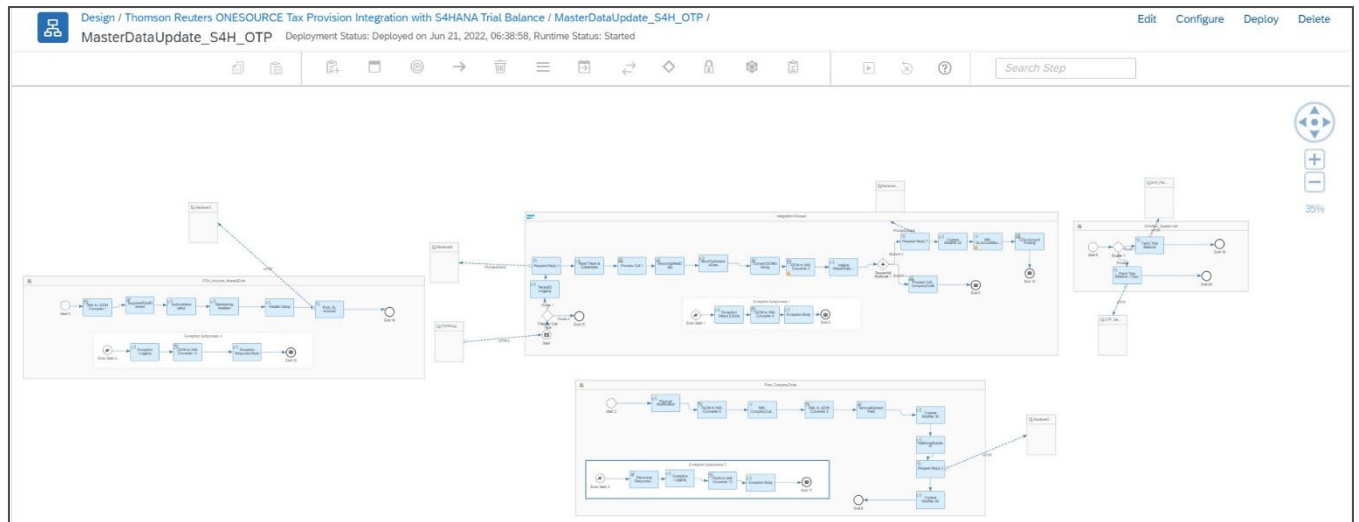
2. Open each iFlow and select **Deploy**.

The screenshot shows the SAP Integration Suite interface for the iFlow "MasterDataUpdate_S4H_OTP". The deployment status is "Deployed on Jun 21, 2022, 06:38:58, Runtime Status: Started". The "Deploy" button in the top right corner is highlighted with a red box.

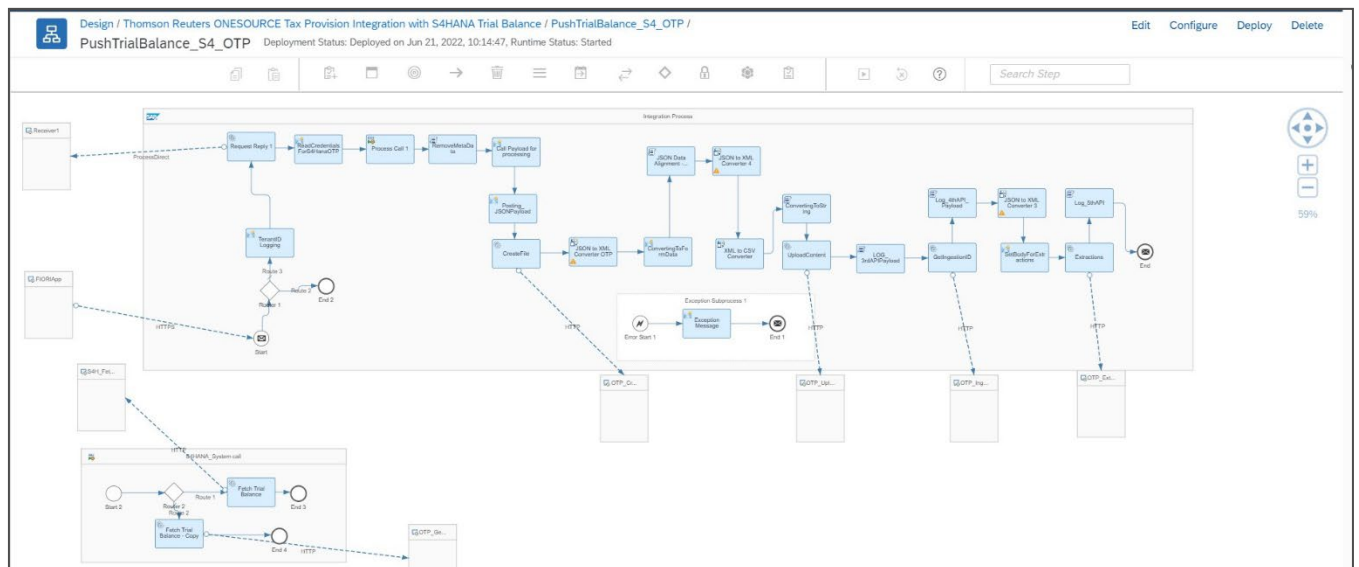
CI Artifacts Snapshots

The screen shots below show the iFlows for each artifact. This is for your review, and no further action is required.

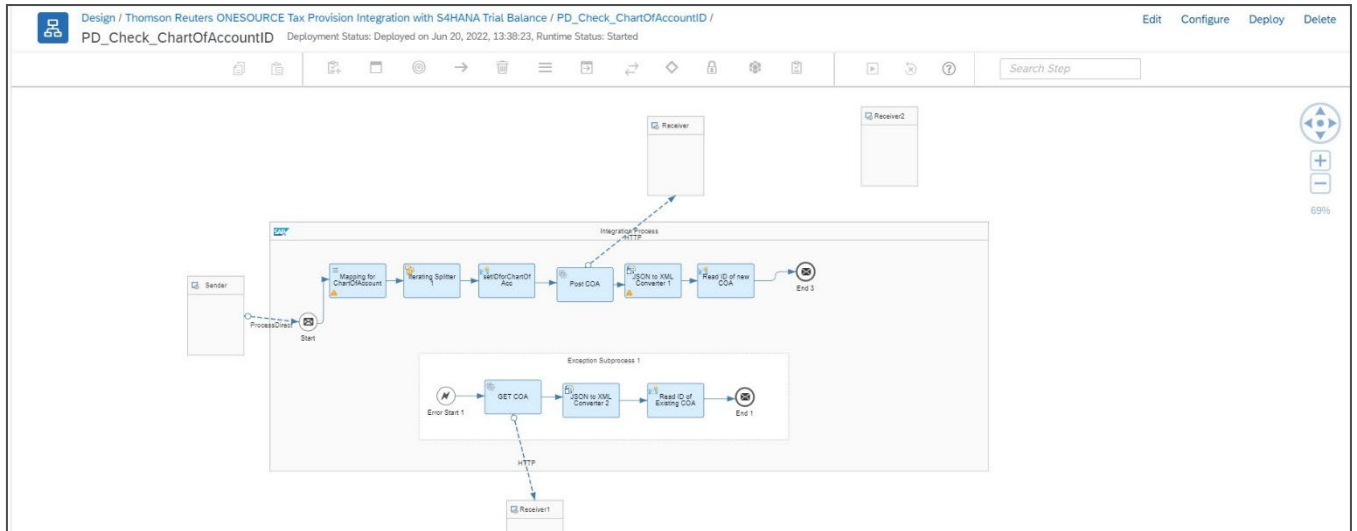
1. MasterData Update: **MasterDataUpdate_S4H_OTP**



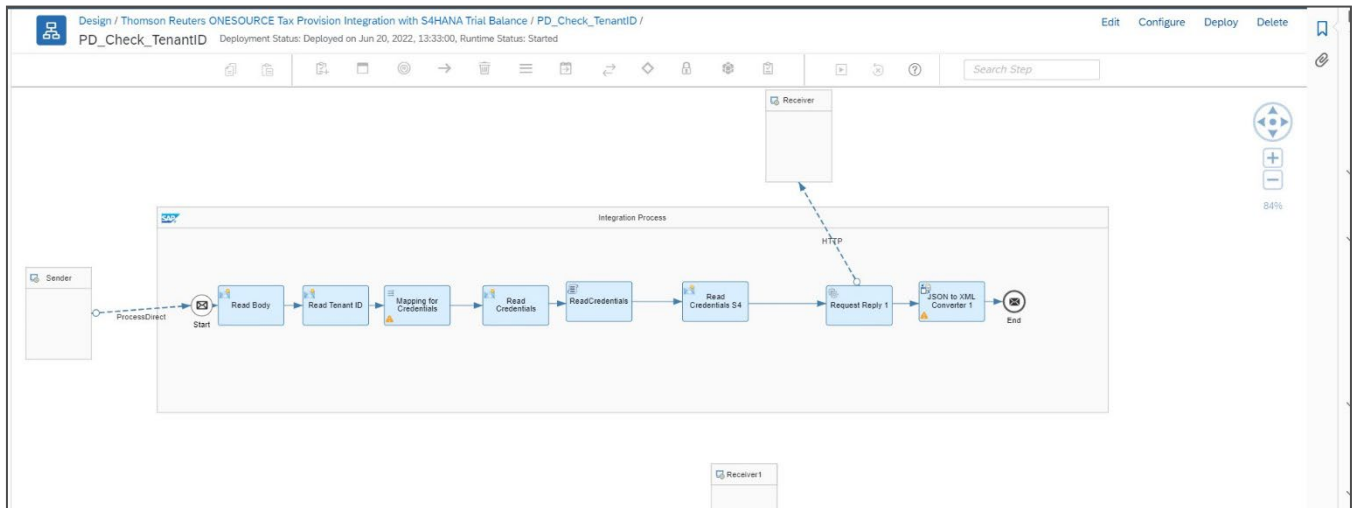
2. Trial Balance to OTP Update: **PushTrialBalance_S4_OTP**



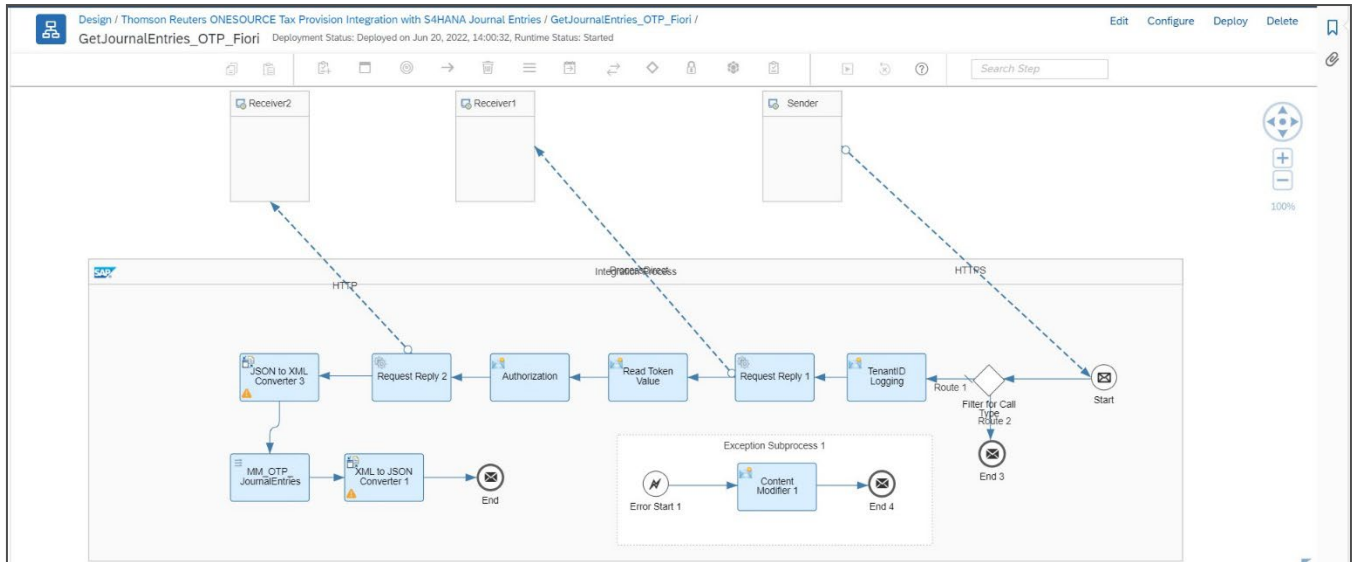
3. Process Direct [Get ChartOfAccountID]: PD_Check_ChartOfAccountID



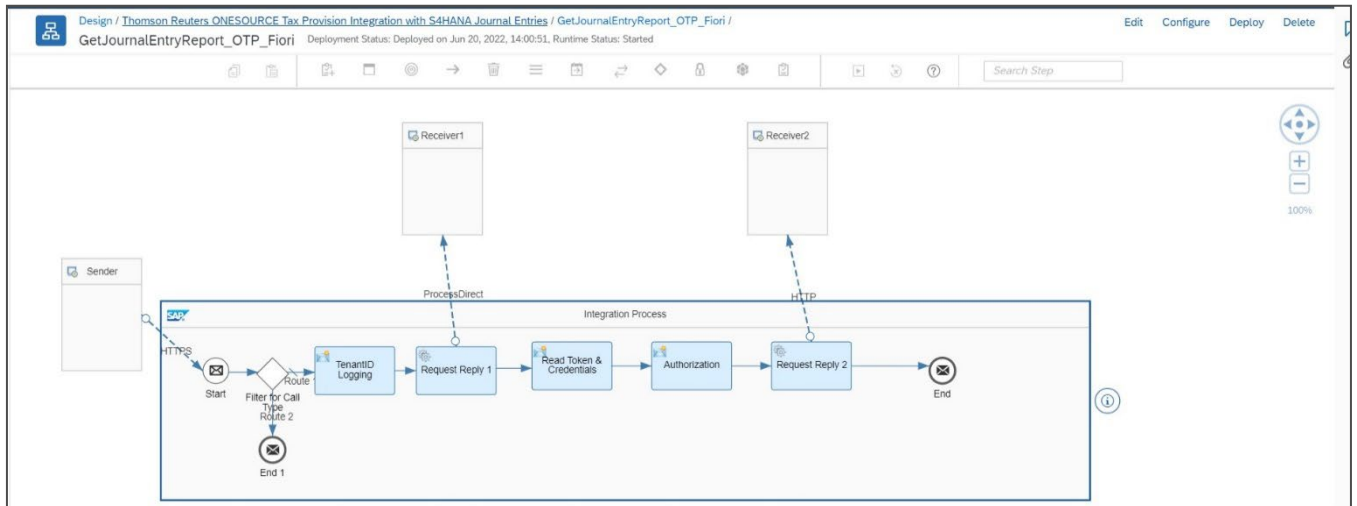
4. Process Direct [Token]: PD_Check_TenantID



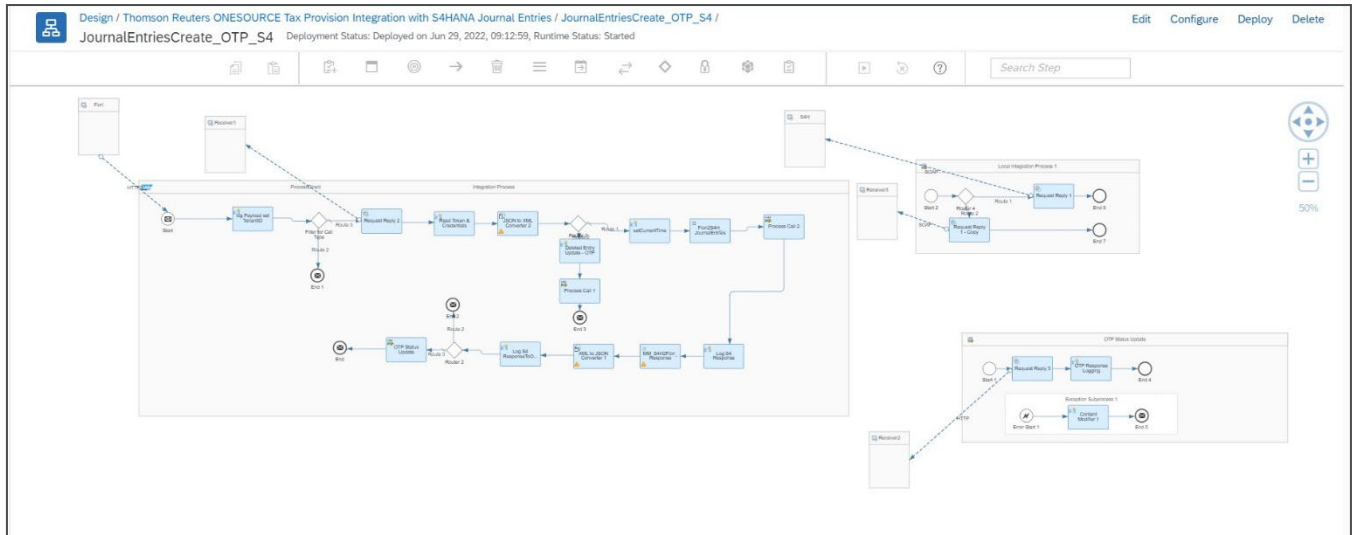
5. Get GetJournalEntries OTP: **GetJournalEntries_OTP_Fiori**



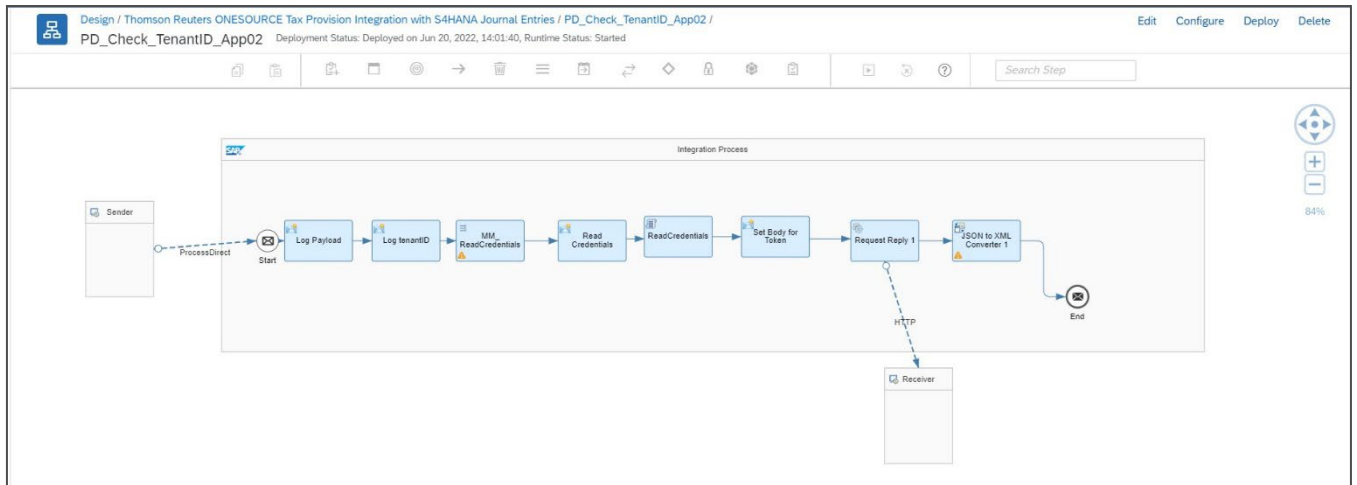
6. Get GetJournalEntryReport OTP: **GetJournalEntryReport_OTP_Fiori**



7. Get Post JournalEntryReport OTP: **JournalEntriesCreate_OTP_S4**



8. Process Direct [Get Token]: **PD_CHECK_TENANTID_APP02**

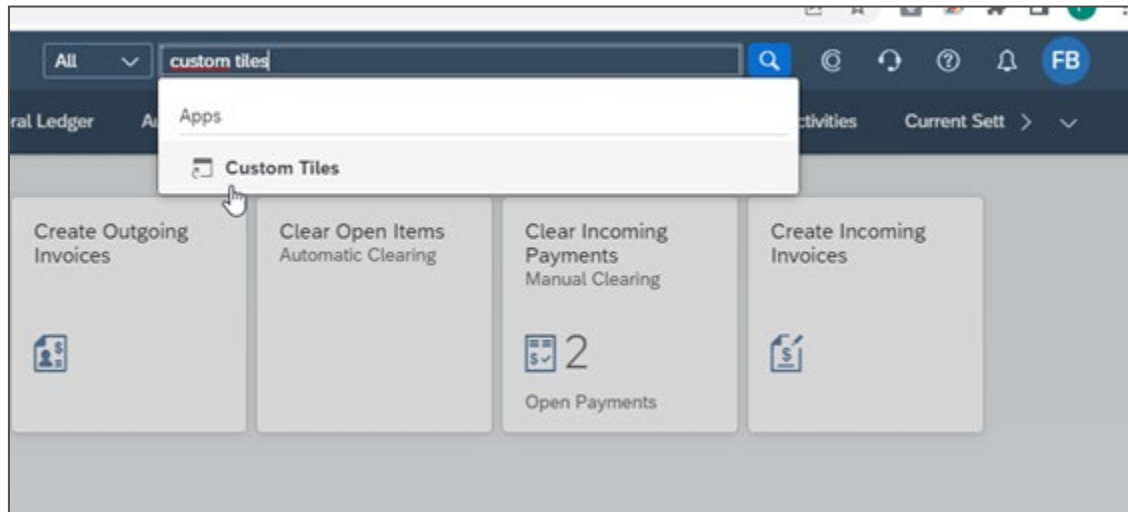


PLACING THE LAUNCHPAD LINK

You will be provided with a URL that represents the launchpad link, which enables you to access the two apps from your S/4HANA system. Follow the steps below to complete this process:

Create Custom Tiles

1. Go to the **Custom Tiles** app.



2. Select **Add**.

3. Enter a title for your app.

Create Tile

Title: *

ID: *

YY1_	THOMSONREUTERSONESOURCE	_CAP
------	-------------------------	------

[Create](#) [Close](#)

4. Insert the URL link provided by Thomson Reuters.

YY1_THOMSONREUTERSONESOURCE_CAP

Original Language: English
Changed By: [REDACTED]
Changed On: 08/04/2022
Exported: No

Details

Title: Thomson Reuters Onesource
Subtitle: Onesource Applications
URL: https://[REDACTED].launchpad.cfapps.ap10.hana.ondemand.com/site...
Hash: #
Final URL: https://[REDACTED].launchpad.cfapps.ap10.hana.ondemand.com/site?siteId:aa8f1418-bc47-4f62-a703-d777be62059#Shell-home
Icon: sap-icon://expense-report

Preview

Thomson Reuters Onesource Onesource Applicati...

URL Parameter

Parameter	Value
<input type="checkbox"/>	No data

5. Select **Save**.

Assign Catalogs

In this step, you assign catalogs.

1. Select **Assign Catalogs**.

2. Select **Add** and select an appropriate catalog where the apps will be stored.

Thomson Reuters Onesource
YY1_THOMSONREUTERSONESOURCE_CAP

Type: Custom Tile
Last Changed On: 08/04/2022, 02:05:03 AM
Last Changed By: [REDACTED]

Used in Business Catalog (0)

Business Catalog ID	Status	Exported	Inventory
No data			

Buttons: Search, Add, Remove, Publish, Refresh

The following example uses the Journal Entry Processing catalog:

Add Business Catalog

journal

Selected: 1

Catalog Roles	Catalog Role ID
<input type="checkbox"/> General Ledger - Cash Journal Entries	SAP_FIN_BC_GL_CASHJE_PC
<input type="checkbox"/> General Ledger - Cash Journal Entries for Hungary	SAP_FIN_BC_GL_CASHJE_HU_PC
<input type="checkbox"/> General Ledger - Journal Entry Clearing	SAP_FIN_BC_GL_JE_CLRING_PC
<input checked="" type="checkbox"/> General Ledger - Journal Entry Processing	SAP_FIN_BC_GL_JE_PROC_PC
<input type="checkbox"/> General Ledger - Journal Entry Templates	SAP_FIN_BC_GL_JE_TEMP_PC
<input type="checkbox"/> General Ledger - Submit Journal Entries for Verification	SAP_FIN_BC_GL_PARKDCPRE_PC
<input type="checkbox"/> General Ledger - Verify Journal Entries	SAP_FIN_BC_GL_PARKDCPST_PC
<input type="checkbox"/> Journal Entry - Configuration	SAP_CA_BC_GL_JE_CONFIG_PC
<input type="checkbox"/> Journal Entry - Current Settings	SAP_CA_BC_GL_JE_CURR_SET_PC

3. Select **Publish**, then select **OK**.

Thomson Reuters Onesource
YY1_THOMSONREUTERSONESOURCE_CAP

Type: Custom Tile
Last Changed On: 08/04/2022, 10:05:03 AM
Last Changed By: [REDACTED]

Used in Business Catalog (1)

Business Catalog	Business Catalog ID	Status	Exported	Inventory
<input checked="" type="checkbox"/>	General Ledger - Journal Entry Processing	SAP_FIN_BC_GL_JE_PROC_PC	Unpublished	No



It may take a while for the apps to be published.

4. Return to the home screen and refresh the page. The apps appear in your chosen catalog.

5. You can now navigate to the ONESOURCE applications from your S/4HANA system.

SAP Home

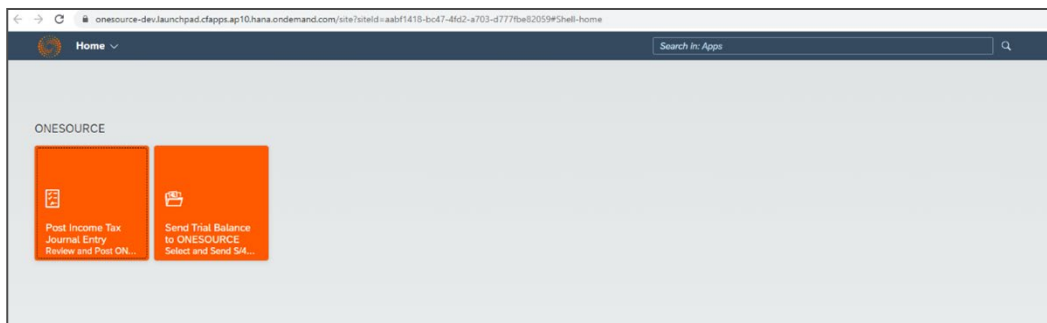
Journal Entries | Implementation Cockpit | Advanced Compliance Reporting | User Interface Configuration | Accountant Overview for General Ledger | Master Data for General Ledger | Periodic Activities for General Ledger | Analytics for General Ledger

Post General Journal Entries	Upload General Journal Entries	Manage Journal Entries	Post Cash Journal Entries	Clear GL Accounts Manual Clearing	Clear Open Items Automatically	Reset Cleared Items	Change Journal Entries Cross-Company Code	Reverse Journal Entries Cross-Company Code
Display Process Flow Accounts Receivable	Display Process Flow Accounts Payable	Application Log for CJ Entries Hungary	Application Jobs: Exch. Rates for CJ Hungary	Create Outgoing Invoices	Calculate Exchange Rates for Cash Journals Hungary	Display Historical Data of Exch. Rates Hungary	Calculate Exchange Rates for Cash Journals Hungary	Thomson Reuters Onesource Onesource Applic...

When you select the Thomson Reuters app, a new window opens for access to the following applications:

- Send Trial Balance to ONESOURCE
- Post Income Tax Journal Entry

See the section [User Guide \(page 23\)](#) in this document for guidance to use the two apps.



USER ROLES

As part of the onboarding process, you will be asked to complete a questionnaire to identify which of your users require access to User roles and Administrator roles. Thomson Reuters Professional Services team will create your user IDs in the customer subaccounts in the Thomson Reuters environment and assign the relevant roles.

The table below shows the different access between the roles:

ROLE	ACCESS
User	Users with this role will have access to display and review Trial Balance and Journal Entry data.
Administrator	Users with this role will have access to display, review and post Trial Balance and Journal Entry data.

USER GUIDE

This section explains the steps and procedures to using the ONESOURCE Tax Provision S/4 HANA applications.

Trial Balance Application

This application retrieves the trial balance data from your S/4HANA system and sends it to the ONESOURCE Tax Provision product.

1. From the Thomson Reuters app on your Fiori launchpad, select the **Send Trial Balance** app.

TrialBalance

Ledger:* Company Code:* Posting Date From:* Posting Date To:*

Ledger Company Code 01/04/2022 30/04/2022

Go Hide Filter Bar Clear

Records

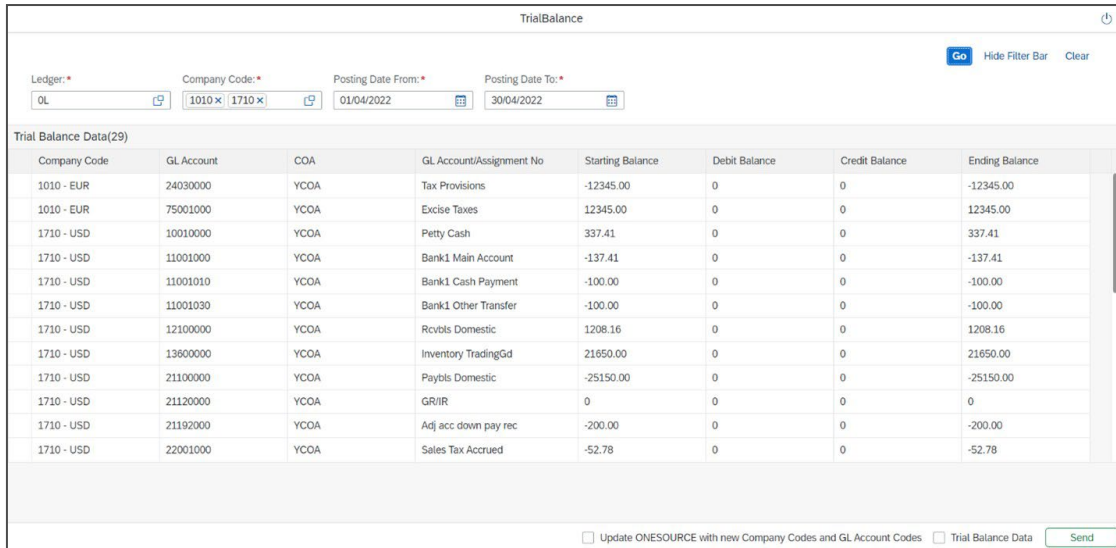
Company Code	GL Account	COA	GL Account/Assignment No	Starting Balance	Debit Balance	Credit Balance	Ending Balance
No data							

Update ONESOURCE with new Company Codes and GL Account Codes Trial Balance Data

2. Complete the mandatory fields as explained below:

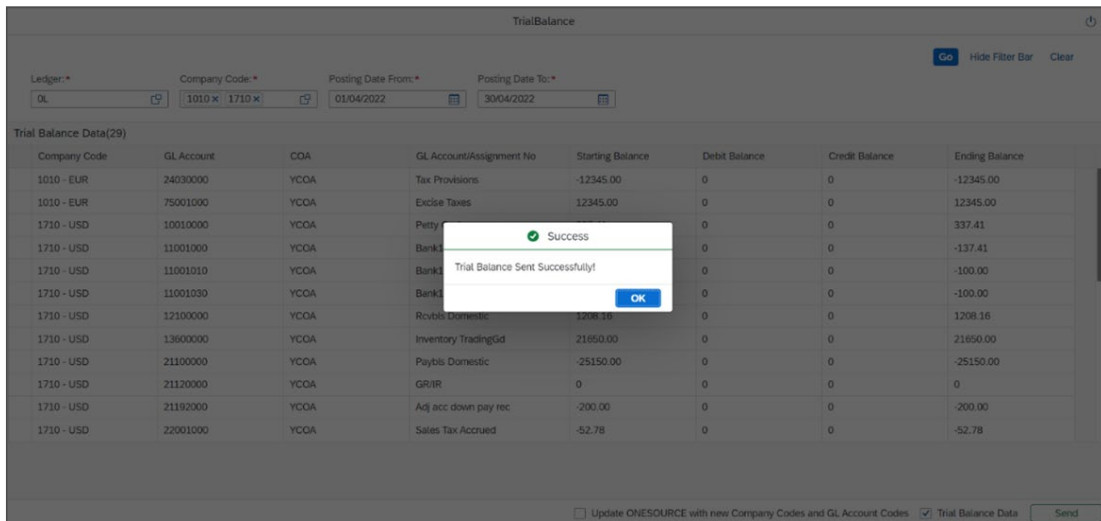
FIELDS	DESCRIPTION
Ledger	Select the relevant ledger. This is usually the leading ledger.
Company Code	Select the relevant company code(s).
Data Range	Select the relevant date range per your financial periods. This is defaulted to the current month.

3. Once you enter selection parameters, select the **Go** button to open the trial balance data.



4. At the bottom right side of the page, select the check box for **Trial Balance Data**, then select **Send**.

A message appears, confirming the data has been sent to the OTP application successfully.



Update ONESOURCE with Co Code and GL Account

In the Trial Balance app, customers using the ONESOURCE central administration of entities have the ability to send the SAP Company Code and G/L Account Codes to ONESOURCE. To use this feature, you must be assigned the administrator role.

Select the checkbox **Update ONESOURCE with new Company Codes and GL Account Codes**, then select **Send**. It may be necessary to complete this update periodically to ensure the entities and G/L accounts for both ONESOURCE and your SAP accounts are in sync.



This feature is not supported for customers managing entities within the ONESOURCE Tax Provision product.

Once the data is pushed and received by the OTP application, the tax provision process will be completed. The relevant journal entries to account for the tax provision will be available for posting in your S/4HANA system.

Post Journal Entries Application

1. Open the **Post Income Tax Journal Entry** app on the Fiori launchpad.
2. On the initial screen, you will see the journal entries ready for posting into S/4HANA with the computed tax provision amounts. Each set of journal entries are identified with a unique reference number.

Post Income Tax Journal Entry						
Reference	GL Account	Cost Center	Profit Center	Debit	Credit	
0958221448301182						
1102						

3. Expand the entry to see the line-item details and maintain the relevant cost center and profit center information.
4. Select the **Details** button.

