Tungsten APAgility ERP Connector

Oracle Financials Cloud Getting Started Guide

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TUNGSTEN AUTOMATION

Document revision history

Date	Revision	Description
23 November, 2022	1.0	Initial Version released with Tungsten AP Agility 2.6.0.
02 January, 2023	1.1	Updates to vendor master data length restrictions.
22 April, 2024	1.2	Branding update due to company name change.

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Preface

This guide contains information about installing the Oracle Financials Cloud ERP Connector. This guide is intended for solution integrators who need a description of the installation and integration procedures.

This guide assumes that you have a thorough understanding of Tungsten TotalAgility and some knowledge of Oracle Financials Cloud.

Training

Tungsten Automation offers both on-demand and instructor-led training to help you make the most of your product. To learn more about training courses and schedules, visit the Tungsten Automation Learning Cloud.

Getting help with Tungsten Automation products

The Tungsten Automation Knowledge Portal repository contains articles that are updated on a regular basis to keep you informed about Tungsten Automation products. We encourage you to use the Knowledge Portal to obtain answers to your product questions.

To access the Tungsten Automation Knowledge Portal, go to https://knowledge.tungstenautomation.com/.

> The Tungsten Automation Knowledge Portal is optimized for use with Google Chrome, Mozilla Firefox, or Microsoft Edge.

The Tungsten Automation Knowledge Portal provides:

- Powerful search capabilities to help you quickly locate the information you need.

  Type your search terms or phrase into the **Search** box, and then click the search icon.
- Product information, configuration details and documentation, including release news.

  To locate articles, go to the Knowledge Portal home page and select the applicable Solution Family for your product, or click the View All Products button.

From the Knowledge Portal home page, you can:

- Access the Tungsten Automation Community (for all customers).

  On the Resources menu, click the **Community** link.
- Access the Tungsten Automation Customer Portal (for eligible customers).

  Go to the Support Portal Information page and click **Log in to the Customer Portal**.
- Access the Tungsten Automation Partner Portal (for eligible partners).

Go to the Support Portal Information page and click **Log in to the Partner Portal**.

- Access Tungsten Automation support commitments, lifecycle policies, electronic fulfillment details, and self-service tools.

  Go to the Support Details page and select the appropriate article.

Chapter 1

Integrate with Enterprise Resource Planning systems

Tungsten AP Agility exports all validated and approved invoices to the Enterprise Resource Planning system (ERP) through a connector plugin. The ERP Agnostic connector is installed automatically as part of the Tungsten AP Agility installation. The ERP Agnostic connector provides an ERP-neutral way of integration by transferring data to and from folders.

In addition to the ERP Agnostic connector Tungsten Automation provides a plugin for the Oracle Financials Cloud ERP system.

For more information on installing ERP connectors, see the *Tungsten AP Agility Installation Guide* or the *Tungsten AP Agility On-Premise Multi-Tenant Installation Guide*.

The Tungsten AP Agility ERP Connector for Oracle Financials Cloud does not suppose one-time vendors.

For more information on configuring ERP connectors in Tungsten AP Agility, see the *Tungsten AP Agility Configuration Help*.

Install the Oracle Financials Cloud ERP plugin

The Oracle Financials Cloud ERP connector is hosted by Tungsten TotalAgility.

You can install the Oracle Financials Cloud ERP plugin so that it is hosted by Tungsten TotalAgility by following these steps:

1. Download and extract the contents of the `TungstenAPAgilityERPConnector-1.0.0_For_OFC.ZIP` file.
2. Launch the TotalAgility Designer.
3. On the menu, select **Import**.
   The **Import** page is displayed.
4. Click **Browse**, navigate to your extract files, and then select `\KTA\ERP Connector Oracle Financials Cloud.ZIP`.
   A list of artifacts for import is displayed for that package.
5. Click **Import**.
   When prompted to confirm the import, click **OK**.
   When the ERP plugin is imported successfully a message is displayed. It is now possible to configure your Tungsten AP Agility solution to use the Oracle Financials Cloud ERP system.

Configure Oracle Financials Cloud for use with AP Agility

Before you can use the Oracle Financials Cloud ERP connector integration with AP Agility you must first create a user account that AP Agility uses to access Oracle Financials Cloud.

The user account in Oracle Financials Cloud should have the appropriate permissions needed to enable cooperation between AP Agility and OFC. AP Agility uses the following endpoints in Oracle Financials Cloud.

Rest_API	
Endpoint	**Method**
`purchaseOrders`	GET
`invoices`	GET/POST/PATCH
`accountCombinationsLOV`	GET
`finBusinessUnitsLOV`	GET
`expenditureTypesLOV`	GET
`projects`	GET
`ledgersLOV`	GET
`legalEntitiesLOV`	GET
`receivingTransactionsHistory`	GET
`payablesOptions`	GET
`paymentsExternalPayees`	GET
`payablesPaymentTerms`	GET
`locationsLov`	GET
`suppliers`	GET
`unitsOfMeasure`	GET

Chapter 2

Configure Tungsten AP Agility

After installing the Oracle Financials Cloud ERP plugin it is necessary to configure AP Agility to use this plugin. You can add an ERP connector manually or edit an on-demand ERP connector that was created when an organization was created.

Register your Oracle Financials Cloud plugin in AP Agility

Before you can work with the Oracle Financials Cloud plugin it is necessary to register and then configure that plugin in Tungsten AP Agility

You can register your Oracle Financials Cloud plugin by following these steps:

1. Log on to Tungsten AP Agility as a user with Administrator permissions.
2. On the menu, select **Settings** > **ERP Connections**.
   The **ERP Connections** page is displayed.
3. Click **Register ERP Plugins**.
   Any unregistered ERP plugins that are installed are registered with Tungsten AP Agility. This may take a few minutes.

Add an Oracle Financials Cloud ERP connection

An ERP connection is required for an organization that is created using an ERP-based template or another ERP-based organization. If you are planning on using the Oracle Financials Cloud ERP connection for multiple organizations, it is more efficient to create the Oracle Financials Cloud ERP connection before creating any organizations.

Before creating an ERP connection the Oracle Financials Cloud must first be registered.

You can create an ERP connection by following these steps:

1. Log on to Tungsten AP Agility as a user with Administrator permissions.
2. On the menu, select **Settings** > **ERP Connections**.
   The **ERP Connections** page is displayed.
3. Click **New**.
   The **Create new ERP Connection** page is displayed.
4. From the **Connection Type** list select the Oracle Financials Cloud ERP connection.
   The description is updated with read-only information.
5. Click **Next**.

The **ERP Connection: New, Type 'Oracle Financials Cloud'** page is displayed where you can specify details for your ERP connection.

6. Create an ERP connection as follows:
   a. Enter a descriptive name for the **ERP Connection Name**.
   b. Enter a **Description** that explains your ERP connection.
      This step is not mandatory, but recommended.
   c. Enter the **User** name used to connect to your Oracle Financials Cloud ERP system. This user must have privileges to perform the required function in Oracle Financials Cloud, such as creating invoices, reading suppliers and purchase orders, etc.
   d. Enter the **Password** of the Oracle Financials Cloud user.
   e. Enter a value for the **System URL**.
      The URL you use to connect to the Oracle Financials Cloud ERP system.
      For example, `https://fa-eqdw-test-saasfaprod1.fa.ocs.oraclecloud.com/`.
   f. Enter a value for the **Distribution Combination Template**.
      This is a data template that determines the format of distribution combinations and should match the **API Name** of the corresponding segments in Oracle Financials Cloud.
      This template should contain the name of parts of the distribution combination, separated by the chosen delimiter. This setting is necessary to properly load the GL segment master data.
      For example, `company-lob-account-costcenter-product-intercompany`.
      The **Distribution Combination Template** setting and the **Distribution Combination Separator** setting work together. If you modify the separator it is necessary to modify the template. If you modify the template using another separator, the connection does not work.
   g. Enter a value for the **Distribution Combination Separator**. *(Default: - (hyphen))*
      In order for GL Segments to work for this ERP connection it is necessary that the corresponding GL structure has the same separator and the same exact segments as the **Distribution Combination Template** in Oracle Financials Cloud. See Configure GL code structure for more information.
      1. Log on to Tungsten AP Agility.
      2. Navigate to **Settings** > **Workflow**.
      3. Create or select your **GL Segment Structure.**.
         A GL segment structure can be created or modified via **Settings** > **Workflow** > **GL Account Structures**.
      4. Ensure that the **Segment Separator** matches the character used as the **Distribution Combination Separator**.
   h. Optionally, edit the list of **EU Countries** if needed.
      The list of countries that are members of the EU or that use the same rules for taxes as EU countries. *(Default: AT, BE, BG, CY, CZ, DE, DK, ES, EE, FI, FR, GB, GR, HR, HU, IE, IT, LT, LU, LV, MT, NL, PL, PT, RO, SK, SI, SE)*
   i. You must choose either **Use Default PO Header Status** or **Custom PO Header Status**.

If you select **Use Default PO Header Status** then all POs with OPEN, CLOSED FOR RECEIVING, CLOSED statuses are included in the master data.

If you choose to use the **Custom PO Header Status** setting, this is a comma-separated list of purchase order statuses that are used by Oracle Financials Cloud for purchase orders. Example statuses include INCOMPLETE, OPEN, CLOSED FOR RECEIVING, or CLOSED.

You can select **Use Default PO Header Status** and manually enter statuses in the **Custom PO Header Status**. However, when this occurs, the values entered for the **Custom PO Header Status** setting are ignored and purchase orders with the OPEN, CLOSED FOR RECEIVING, CLOSED statuses only are included in the master data.

j. If you want the OFC InvoiceCurrency and PaymentCurrency to match the extracted value from AP Agility, select **Payment and Invoice Currency are Same**.

   Otherwise, only InvoiceCurrency is populated with the extracted value from AP Agility.

k. Select **Always Try to Validate Invoice** if you want to validate invoices that are passed to the Oracle Financials Cloud ERP system without being validated previously.

   If cleared, invoices may require manual validation in Oracle Financials Cloud.

l. Optionally, select **Show Mapping to DFF** to configure descriptive Flexfields.

   If selected, several custom fields and custom line item fields are available.

   The custom fields must be mapped to the API name of the segments in the Oracle Financials Cloud ERP system. Any custom fields must also be activated in ***Settings*** > ***Invoice Processing*** > ***Capture Profiles*** > ***Field Settings***.

m. Optionally, select **Use LineItems.Custom field for ShipToLocation**.

   When selected, it is necessary to enter "ShipToLocation" in one of the LineItems.Custom fields. This then uses that value as the ship to address.

n. Enter a **Page Size**. *(Default: 1000)*

o. Select a date from the **Start Data Load From** setting.

   Each time the `AP Data Import` process runs, the **Start Data Load From** date and time stamp is updated with the current date and time. This ensures that the entire ERP is not loaded each time, only the changes since the last import.

p. Optionally, select a date from the **Start Data Load To** setting.

q. Optionally, clear the **Use Default Null Values for Data Import** setting.

   When selected, this setting converts any values that are equal to "NULL," "Null," or "null" into actual null values when the data is imported.

7. Click **Save**.

   Your changes are saved.

8. Click **Test** to ensure that the values you entered are correct.

   If your test fails, edit your settings and then try the test again.

   If the test is successful, click **Close**.

What next:

Add a new organization or update an existing organization to use your new ERP connection.

- Configure GL code structure
- Configure CompanyCode field

- Configure work breakdown structures

See the *Tungsten AP Agility Configuration Help* for more information about configuring Tungsten AP Agility.

Vendor master data length restrictions

For the fields listed below Oracle Financials Cloud allows you to enter longer strings as value. When the master data is loaded into AP Agility these longer values are truncated to the maximum length allowed by AP Agility.

The VendorName field in AP Agility (Supplier in Oracle Financials Cloud) is used when sending an invoice, so its length should not exceed 100 characters. Otherwise, the value is truncated when the master data is loaded and this truncated value results in an error during export.

The affected fields and their maximum character length are as follows:

Field name	Maximum Length
VendorCity	50
VendorState	50
VendorZip	50
VendorCountry	50
Telephone	50
Fax	50
VendorName	100
VendorStreet1	100
VendorStreet2	100
Email	250
Plant ID	50

In addition, the Location name in Oracle Financials Cloud maps to the STATE_CODE column in the Plants table in the AP Agility database. The Name of the Location must not exceed 50 characters. An error is encountered when this value is greater than 50 characters.

Organization configuration

The mapping between AP Agility organizations and Oracle Financials Cloud's legal entity is achieved by mapping the following fields in Oracle Financials Cloud to the AP Agility organization fields:

Oracle Financials Cloud Field	AP Agility Organization Field
Legal Entity	ERP Organization Name
Legal Identity Identifier	ERP Organization ID

Business unit configuration

When adding a business unit to an organization in AP Agility, the ERP Business Unit Name and ERP Business Unit ID must both match the names of the corresponding business unit in Oracle Financials Cloud.

Enable live access

Live access is the only way to get the complete purchase order information. If you are not processing purchase order invoices or if you are not using line pairing, you can skip these steps.

You can enable live access to load PO data on-demand by following these steps:

1. Log on to Tungsten AP Agility as a user with Administrator permissions.
2. On the menu select **Settings** > **Invoice Processing** > **Capture Profiles** and then select your profile from the list.
   A list of capture profiles is selected for your profile.
3. On the menu, select **Line Pairing Settings**.
4. From the **Get PO Lines From** setting, select the **ERP Connector Live Access** value.
5. Click **Save**.
   The **Line Pairing Settings** are saved, and your ERP connector now has live access.
6. On the menu, select **PO Number Settings** and then select the **PO Number Validation** tab.
7. From the **Validate From** setting, select the **ERP Connector Live Access** value.
8. Click **Save**.
   The **PO Number Validation** settings are saved and validation is now performed live via your ERP connector.

Additional configuration

Edit the following configuration settings to ensure that your integration with the Oracle Financials Cloud works effectively.

Activate SiteID field

When working with Oracle Financials Cloud it is necessary to activate the SiteID field by following these steps:

1. Log on to Tungsten AP Agility as a user with Administrator permissions.
2. On the menu select **Settings** > **Invoice Processing** > **Capture Profiles** and then select your organization from the list.
   A list of settings is displayed for the selected organization.
3. On the menu, select **Field Settings**.
4. In the list of fields, select the row for the **SiteID** field and click **Edit**.

5. In the edit window, select **Active**.
6. Click **Save**.
   The **SiteID** field is now active.
   Next, make the SiteID field visible in the AP Workflow.

Make Site ID visible for an organization

After activating the SiteID field it is necessary to make that field visible in the AP Workflow for all relevant organizations.

You can make the SiteID field visible for an organization by following these steps:

1. On the menu select **Settings** > **Organizations** and then select your organization from the list.
   A list of settings is displayed for the selected organization.
2. Select the **Field Configuration** tab.
3. Scroll down to the **Site ID** field and select **Visible** from the list in the **Visible/Mandatory** column.
4. Optionally, select **Apply status to other languages** if your solution is localized into another language.
5. Click **Update**.
   A message is displayed when the field is updated. The SiteID field is now visible for the selected organization.
6. Click **Close**.
   You are returned to the list of organizations.
7. Repeat these steps for other organizations, as needed.

Configure GL code structure

You can configure the GL code structure needed to load the master data from the Oracle Financials Cloud by following these steps:

1. Log on to Tungsten AP Agility.
2. Navigate to **Settings** > **Workflow**.
3. Create or select your **GL Segment Structure**.
   A GL segment structure can be created or modified via **Settings** > **Workflow** > **GL Account Structures**.
4. Ensure that the **Segment Separator** matches the separation character used as the **Distribution Combination Separator** and the delimiter in Oracle Financials Cloud.
5. Optionally, if you use Tungsten AP Agility 2.6.0 or later, select the **Autofill GL Code Hierarchy Lists** setting.
   Selecting this setting means that users have to select the first segment from the GL code and then all other segments are populated automatically.
6. Click **Save**.
7. Add several segments. These segments must match the **Distribution Combination Template**.
   The names of the segments are found in Oracle Financials Cloud in the "Manage Chart of Accounts Structures". The individual segment names must match the corresponding **API Name** of the segment in Oracle Financials Cloud.

8. Click **Close**.
   Your GL code is saved.

Configure CompanyCode field

Since the ERP Business Unit ID is mapped to the Business Name in Oracle Financials Cloud, it may be long and contain spaces. Because of this it makes sense to configure the CompanyCode field by following these steps:

1. Log on to Tungsten AP Agility as a user with Administrator permissions.
2. On the menu select **Settings** > **Invoice Processing** > **Capture Profiles** and then select your organization from the list.
   A list of settings is displayed for the selected organization.
3. On the menu, select **Field Settings**.
4. In the list of fields, select the row for the **CompanyCode** field and click **Edit**.
5. In the edit window, do the following:
   a. Increase the value of the **Max Length** setting to 120 or more.
   b. Clear the **Remove Spaces** setting.
6. Click **Save**.

Configure work breakdown structures

In order to use a work breakdown structure with Oracle Financials Cloud it is necessary to configure the work breakdown segment structure in Tungsten AP Agility. The WBS in Tungsten AP Agility must match the Project Line fields for an invoice line in Oracle Financials Cloud.

You can configure a WBS by following these steps:

1. Log on to Tungsten AP Agility as a user with Administrator permissions.
2. On the menu, select **Settings** > **Workflow** > **Work Breakdown Structures**.
   The **Work Breakdown Structures** page is displayed.
3. Click **New**.
   The **Work Breakdown Segment Structure: New** page is displayed.
4. Enter a **Structure Name** and **Description**.
5. Optionally, if you use Tungsten AP Agility 2.6.0 or later, select the **Autofill WBS Hierarchy Lists** setting.
   Selecting this setting means that users have to select the first segment from the WBS and then all other segments are populated automatically.
6. Set the **Segment Separator** to a hyphen (-).
7. Click **Save**
   This saves the main WBS information before you add your segments.
8. Add the following four segments in the order provided:

Segment Number	Visible Name
Segment1	ProjectName
Segment2	Task

Segment Number	Visible Name
Segment3	Organization
Segment4	ExpenditureType

9. Click **Close**
   Your WBS is created and you are returned to the **Work Breakdown Structures** page.

Ignore PO vendors

Since Oracle Financials Cloud supports different sites for purchasing and payments, it means that purchase order vendors as they are used in AP Agility do not have any purpose. When purchase order vendors are disabled in AP Agility, users can invoice different vendors based on the SiteID, which is already part of the PO header master data.

You can disable PO vendors in AP Agility by following these steps:

1. Log on to Tungsten AP Agility as a user with Administrator permissions.
2. On the menu, select **Settings** > **Invoice Processing** > **Capture Profile Settings** and then select your organization from the drop-down list.
3. Select **Vendor Settings**.
   The vendor settings for the selected organization are displayed.
4. Select **Ignore PO Vendor**
5. Optionally, repeat these steps for any other organizations that are using the Oracle Financials Cloud ERP connector.
6. Click **Save**.
   Your organization now ignores PO vendors in AP Agility so that invoices can be sent to different vendors based on their SiteID.