

GTD Adapter for PeopleSoft



Installation Guide

Welcome to PeopleSoft Version 9.1

Consult this document to learn the features, functionalities, and standard operating instructions for the PeopleSoft Solution.

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CHAPTER

About This Guide

Overview

This chapter provides the following information:

- [Audience](#)
- [Before You Begin](#)
- [System Requirements](#)
- [Conventions](#)
- [Support and Service](#)

Audience

This guide is written for users responsible for administration of PeopleSoft and its integration with Global Tax Determination (GTD).

It is recommended that the user performing this install be comfortable with code analysis and merging.

Before You Begin

Before beginning the process of integrating *PeopleSoft* with Global Tax Determination, users must have access to make configuration changes in both *PeopleSoft Web Server* and their corresponding settings in Global Tax Determination.

They must also have:

- Already setup an organization unit in Sovos.

Note: The organization code within Global Tax Determination must match the Business Unit (organization code) within *PeopleSoft*.

- Already setup a Sovos API user ID/password, which will be used by *PeopleSoft*.

It is also recommended that you have access to the *PeopleSoft* UI with Super User access to make changes to the integration broker settings.

Sovos PS can provide additional help with training and configuration of both *Global Tax Determination* and the *PeopleSoft Adapter*.

System Requirements

The current version of the PeopleSoft Adapter from Sovos supports *PeopleSoft* version 9.1 and higher.

Conventions

This guide may contain the following conventions for formatting text and code examples:

Typeface	Description	Example
<i><Italics></i>	A variable to be replaced by another name or value.	<i><user_name></i>
‘Single Quotes’	Information to be input into a field or system.	Enter ‘123’ as the password
“Double Quotes”	Written out message, such as an error or confirmation message.	“Error(s) found upon import”
Code	Any examples of code.	Code
Bold	Names of columns, buttons, screen names, and other elements that appear on-screen.	Sovos Parameters
Menu > Item > Selection	Menu item selection.	Organization Administration > Setup > Organization > Legal Entities

Support and Service

If you experience issues or have questions regarding this product, please contact Sovos Support or submit a case in the Sovos Portal through the following URL: <https://sovos.com/portal>.

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CHAPTER

Overview

Overview

Sovos Compliance recommends that you plan all aspects of your installation before installing your Adapter. This chapter contains information to help you plan the installation of the Global Tax Determination Adapter for *PeopleSoft*. It includes the following sections:

- [Installation Roles](#)
- [Architecture Overview](#)
- [Reading and Writing Data from PeopleSoft](#)

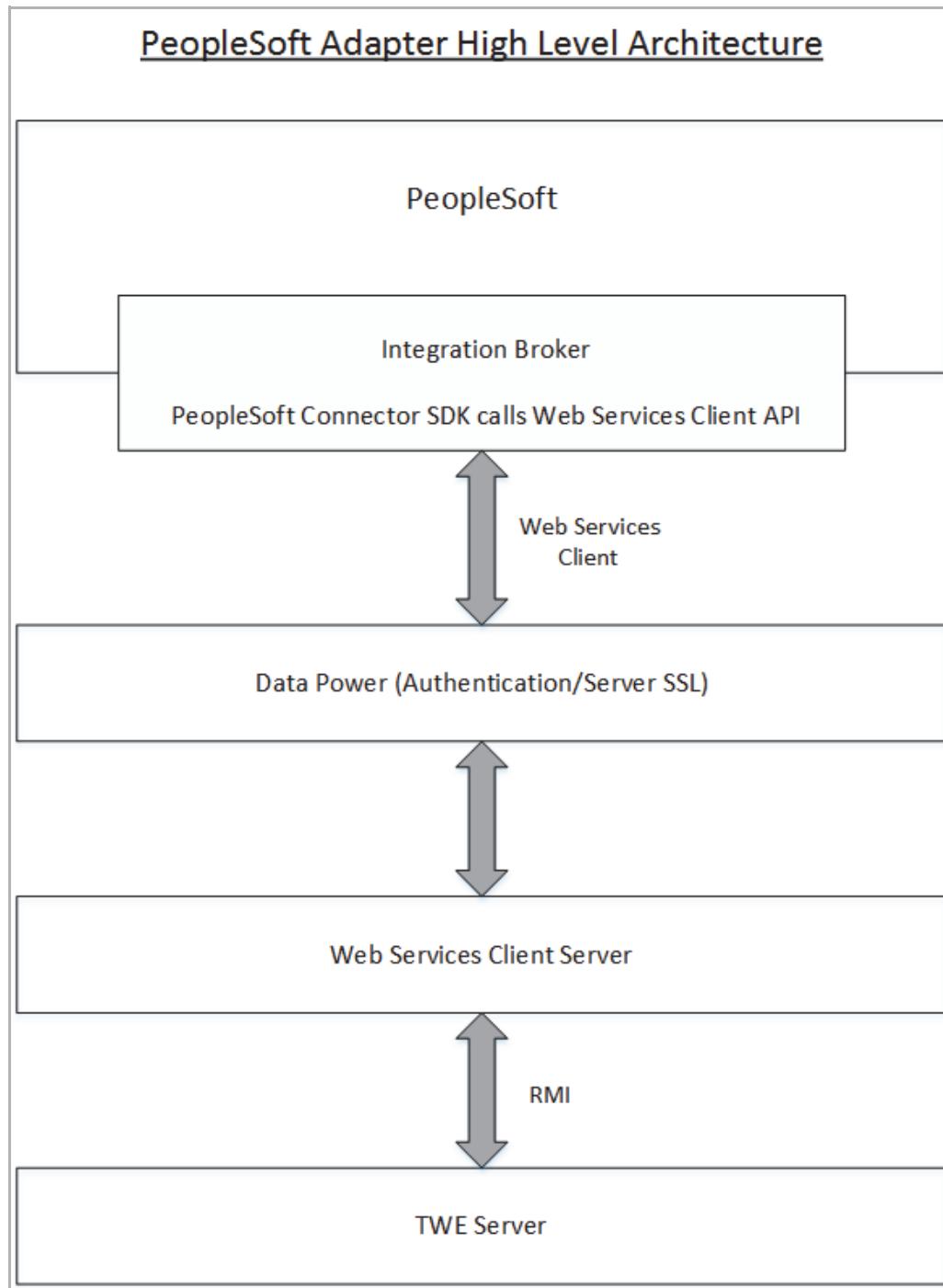
Installation Roles

The following table describes the user roles that can install the GTD Adapter for *PeopleSoft*.

Installation Role	Description
Operating System Administrator	<ul style="list-style-type: none">Creates operating system-level users, modifies disk quotas, and manages file security. Controls remote connections (port assignment).Has <code>root</code> or <code>administrator</code> account password.
Oracle Database Administrator (DBA)	<p>Administers the database that contains the Oracle 11i and Global Tax Determination data.</p> <p>Creates Oracle users, manages system-level database settings, and manages table spaces and grants.</p> <p>Has detailed knowledge of SQL*Plus commands and running scripts.</p>
Application Server User/Owner	<p>An operating system-level login with permissions to install the Application Server used by Global Tax Determination, if needed, or modify the Application Server file structure.</p> <p>This user runs the Global Tax Determination installation. Some knowledge of the Application Server is required.</p>
Tax Professional	Understands the company's current taxing procedures and its direction. This user directs the post-installation configuration, and may advise on the intended use of the Global Tax Determination system.

Architecture Overview

The following figure illustrates how Global Tax Determination can be integrated with *PeopleSoft* through the *PeopleSoft Adapter* for Global Tax Determination.



Reading and Writing Data from PeopleSoft

All *PeopleSoft*-enabled function modules use IntegrationBroker and **GET_GEOCODE_REQ** Service Operation of the **DO_TAXCALC_REQ** Service Operation to exchange data between *PeopleSoft* and Global Tax Determination.

Reporting Errors to PeopleSoft

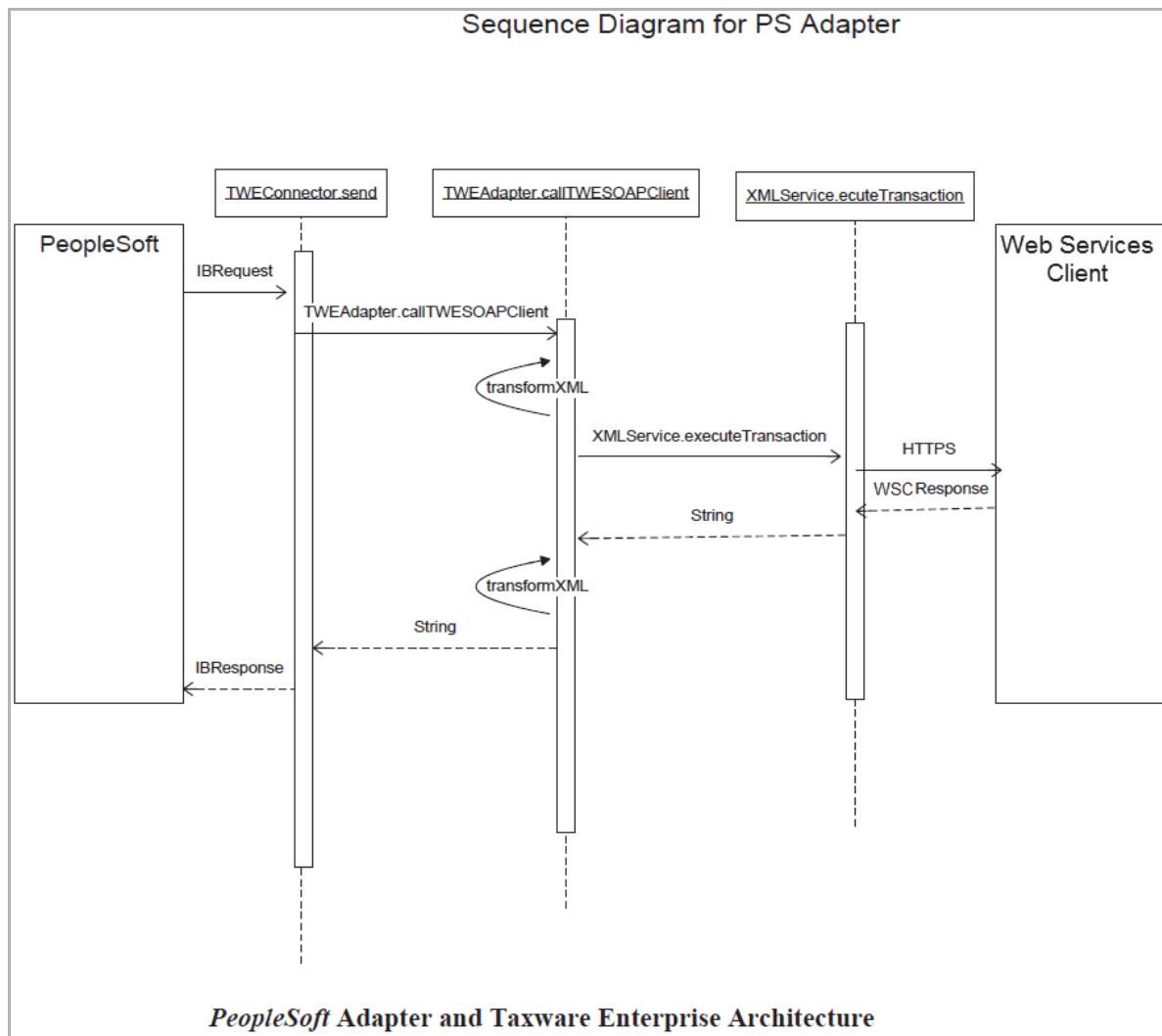
All errors from the Global Tax Determination Server will be sent back to *PeopleSoft* based on the error message from the Web Services Client.

Logging

The Adapter uses Log4J for logging and will use Web Services Client Log files to log from the Adapter.

PeopleSoft Basic Calls

PeopleSoft can call Global Tax Determination to determine jurisdiction (GeoCode), to calculate taxes, to update taxes, and to force taxes. The following figure illustrates the calls that *PeopleSoft* can make to Global Tax Determination.



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CHAPTER

Installation

Overview

This chapter explains how to install the *PeopleSoft* Adapter for Global Tax Determination. The tax interface is standard for *PeopleSoft* Systems version 8.8 and higher, and for *PeopleTools* systems version 8.49 and higher. The adapter supports *PeopleSoft* version 9.1 and higher. This chapter includes the following sections:

- [Pre-Installation Instructions](#)
- [Installing the PeopleSoft Adapter](#)
- [Configuring the Global Tax Determination Adapter for PeopleSoft](#)
- [Testing the PeopleSoft Adapter](#)

Pre-Installation Instructions

Before you install and configure the *PeopleSoft* Adapter, verify that the following criteria are met:

- *PeopleTools* version is 8.48 or higher.
- Global Tax Determination and Sovos Web Services Client are installed and running.
- JDK/JRE 1.5 or greater version should be installed in the PeopleSoft Web server to use the adapter.

Installing the PeopleSoft Adapter

To install the PeopleSoft Adapter, extract *TWEPeopleSoftAdapter.zip* to a temporary directory and do the following:

- Copy Kit\PeopleSoft<8.x/9.x>\bin\TweConnector.class to
<PS_CFG_HOME>\webserv\PeopleSoft\applications\PeopleSoft\PSIGW\WEB-INF\classes\com\PeopleSoft\pt\integrationgateway\targetconnector
- Copy Kit\PeopleSoft<8.x/9.x>\bin\TweConnector.jar to
<PS_CFG_HOME>\webserv\PeopleSoft\applications\PeopleSoft\PSIGW.war\WEB-INF\lib
- Edit the file
<PS_CFG_HOME>\webserv\PeopleSoft\bin\setEnv.cmd
and append the following to the CLASSPATH environment variable:
 - <<WEBSERVICESCLIENT>>\lib\soapclient.jar;
 - <<WEBSERVICESCLIENT>>\lib;
 - <<WEBSERVICESCLIENT>>\properties
- Copy <<WEBSERVICESCLIENT>>\properties to
<PS_CFG_HOME>\webserv\PeopleSoft

For Hosted Global Tax Determination Integration, Perform These Additional Steps

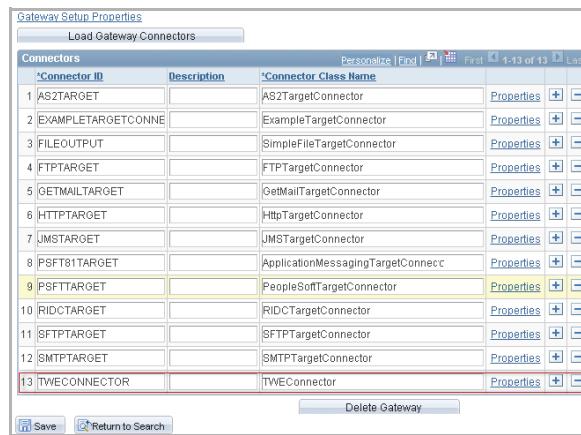
- Copy the *certs* and *keystores* folders from <<WEBSERVICESCLIENT>> to
<<PS_CFG_HOME>>\webserv\PeopleSoft
- Append the following to the CLASSPATH environment variable:
 - <<PS_CFG_HOME>>\webserv\PeopleSoft\certs;
 - <<PS_CFG_HOME>>\webserv\PeopleSoft\keystores

Note: When you complete installing the adapter, reset your PIA web server.

Configuring the Global Tax Determination Adapter for PeopleSoft

Loading TWEConnector Gateway Connector into PeopleSoft

1. Navigate to **Main Menu > PeopleTools > Integration Broker > Configuration > Gateways**.
2. Click **Search**.
3. Click **Load Gateway Connectors** button and confirm that **TWECONNECTOR** appears in the **Connectors** list.



Connector ID	Description	*Connector Class Name	Properties
1 AS2TARGET		AS2TargetConnector	[Properties]
2 EXAMPLETARGETCONNE		ExampleTargetConnector	[Properties]
3 FILEOUTPUT		SimpleFileTargetConnector	[Properties]
4 FTPTARGET		FTPTargetConnector	[Properties]
5 GETMAILTARGET		GetMailTargetConnector	[Properties]
6 HTTPTARGET		HttpTargetConnector	[Properties]
7 JMSTARGET		JMSTargetConnector	[Properties]
8 PSFT811TARGET		ApplicationMessagingTargetConnec	[Properties]
9 PSFTTARGET		PeopleSoftTargetConnector	[Properties]
10 RIDCTARGET		RIDCTargetConnector	[Properties]
11 SFTPTARGET		SFTPTargetConnector	[Properties]
12 SMTPTARGET		SMTPTargetConnector	[Properties]
13 TWECONNECTOR		TWEConnector	[Properties]

Note: If **TWECONNECTOR** does not appear, the *TweConnector.class* file may not have been properly installed. See [Installing the PeopleSoft Adapter](#) for more information.

4. Click **Save**.

Configuring Service Operations to Utilize TWEConnector

Once TWEConnector has been loaded into the gateway, it must be connected to the following service operations: **GET_GEOCODE_REQ** and **DO_TAXCALC_REQ**.

1. Navigate to **Main Menu > PeopleTools > Integration Broker > Integration Setup > Service Operations**.

2. Enter **GET_GEOCODE_REQ** in the **Service Operation** field and click the **Search** button.

The screenshot shows the 'Service Operations - Search' interface. In the 'Search Criteria' section, the 'Service Operation' field contains 'GET_GEOCODE_REQ'. Below the search results table, there is a note: 'First 1 of 1 Last'.

Service	Service Operation	Operation Type	Operation Alias
GET_GEOCODE_REQ	GET_GEOCODE_REQ	Synchronous	

3. Click **GET_GEOCODE_REQ** from the **Service Operations** list.
4. To activate the service operation, select the **Active** check box on the **General** tab and click **Save**.

The screenshot shows the 'Default Service Operation Version' configuration. On the 'General' tab, the 'Version' field is set to 'VERSION_1', the 'Description' is 'Get Geocode Request', and the 'Comments' field is empty. The 'Routing Status' section shows 'Any-to-Local' and 'Local-to-Local' both set to 'Does not exist'. Under 'Runtime Schema Validation', there are checkboxes for 'Request Message', 'Response Message', and 'Non-Reputation'. Under 'Routing Actions Upon Save', there are checkboxes for 'Generate Any-to-Local', 'Generate Local-to-Local', and 'Transactional'. The 'Active' checkbox is checked.

5. To activate Routing, click the **Routings** tab, select **GET_GEOCODE_REQ_TAX** from the **Routing Definitions** list, select the **Active** check box, and click **Save**.

The screenshot shows the 'Routing Definitions' configuration. The 'Routing Name' is 'GET_GEOCODE_REQ_TAX', the 'Service Operation' is 'GET_GEOCODE_REQ', the 'Version' is 'VERSION_1', and the 'Description' is 'Get Geocode Request'. The 'Comments' field is empty. Under 'Sender Node', it shows 'PSFT_EP' and 'Receiver Node' shows 'PSFT_TAX'. The 'Operation Type' is 'Synchronous', 'Owner ID' is 'Billing', and 'Log Detail' is 'No Logging'. The 'Active' checkbox is checked. There is also a 'User Exception' checkbox which is unchecked.

6. Repeat steps 2-5 for **DO_TAXCALC_REQ**.

Note: Select **DO_TAXCALC_REQ_V2** from the **Routing Definitions** list to activate routing for **DO_TAXCALC_REQ**.

Creating Service Operations

Two Service Operations, **GET_GEOCODE_RES** and **DO_TAXCALC_RES**, must be created in order to proceed.

1. Navigate to **PeopleTools > Integration Broker > Integration Setup > Service Operations** and click the **Add a New Value** link.

2. To set up **GET_GEOCODE_RES**, enter the following information for the corresponding fields in the **Add New Service Operation** screen and click **Add**:

- **Service:** GET_GEOCODE_REQ
- **Service Operation:** GET_GEOCODE_RES
- **Operation Type:** Synchronous

3. On the following screen, enter the following information for the corresponding fields and click **Save** to continue:

- **Operation Description:** Get Geocode Response
- **Operation Comments:** Get Geocode Response
- **Version Description:** Get Geocode Response
- **Version Comments:** Get Geocode Response
- **Owner ID:** Billing
- **Type Request:** GET_GEOCODE_REQ.VERSION_1
- **Type Response:** GET_GEOCODE_RES.VERSION_1

4. Navigate to the **Routings** tab in the **Service Operations** screen and enter the following information for the corresponding fields:

- **Routing Name:** GET_GEOCODE_RES
- **Description:** Get Geocode Response
- **Sender Note:** PSFT_EP
- **Receiver Node:** PSFT_Tax
- **Owner ID:** Billing

To proceed, click the **Save** button followed by **Return**.

5. Under the **Routing** tab, select **GEOCODE_RES** from the **Routing Definitions** list. Click **Activate Selected Routings** and click **Save**.

6. To set up the **DO_TAXCALC_RES**, perform steps 1 through 5 above. Enter **DO_TAXCALC_RES** in place of **GET_GEOCODE_RES** and “Calculate Tax” for the necessary description and comment fields.

Configuring Routings to Utilize TWEConnector

1. Navigate to **Main Menu > PeopleTools > Integration Broker > Integration Setup > Routings**.

-
- To open the **Routing** page, enter **GET_GEOCODE_REQ** or **DO_TAXCALC_REQ** in the **Routing Name** field, click the **Search** button and click the proper **Routing Name** from the **Search Results** list.

Routing Definitions

Enter any information you have and click Search. Leave fields blank for a list of all values.

Find an Existing Value

Search Criteria

Routing Name: Service Operation:

Include History Correct History

Search Results

View All				First	1 of 1	Last
Routing Name	Service Operation	Service	Description			
GET_GEOCODE_REQ TAX GET_GEOCODE_REQ GET_GEOCODE_REQ GetGeocode Request						

Note: To open the **DO_TAXCALC_REQ** routing page, select **DO_TAXCALC_REQ_V2** from the **Search Results** list.

- Click the **Connector Properties** tab.
- Change the **Connector ID** to **TWECONNECTOR** and set the **Properties** to the following values:

Routing Name	Property ID	PropertyName	Value
GET_GEOCODE_REQ_TAX	TWECONNECTOR	ServiceName	GetGeoCode
DO_TAXCALC-REQ_V2	TWECONNECTOR	ServiceName	CalculateTax

- Click **Save**.

Configuring PSFT_TAX Node to Utilize TWECONNECTOR

- Navigate to **Main Menu > PeopleTools > Integration Broker > Integration Setup > Nodes**.
- Enter **PSFT_TAX** and click the **Search** button.
- Click the **Connectors** tab.

Node Definitions **Connectors** **Portal** **WS Security** **Routings**

Node Name: PSFT_TAX **Ping Node**

Details

Gateway ID: LOCAL

Connector ID: TWECONNECTOR

*Delivery Mode: Guaranteed Delivery

Properties

Properties	Personalize	Find	1 of 1	Last
Properties	Data Type / Description			
1 HEADER	sendUncompressed	<input checked="" type="checkbox"/> Y	<input type="button" value=""/>	<input type="button" value=""/>

Password Encryption

- Change the **Connector ID** to **TWECONNECTOR**.
- In the **Properties** window, set the **Property ID** to **HEADER**.

6. Set the **Property Name** to **sendUncompressed**.
7. Click **Save**.

Setting TAX_INTEGRATION Queue Status to Run

1. Navigate to **Main Menu > PeopleTools > Integration Broker > Integration Setup > Queues**.
2. Enter **TAX_INTEGRATION** in the **Search by** field and click the **Search** button.
3. On the **Queue Definitions** page, from the **Queue Status** drop-down list, select **Run**.

The screenshot shows the 'Queue Definitions' page. It includes fields for Queue Name (TAX_INTEGRATION), Description (Tax Integration Msg Channel), Comments (This will be used for communication with 3rd party tax products), Archive (checkbox checked), Unordered (checkbox unchecked), Queue Status (dropdown set to 'Run'), and Owner ID (Billing dropdown).

4. Click **Save**.

Setting Sovos As Third Party Tax Provider

1. Navigate to **Main Menu > Set Up Financials/Supply Chain > Install > Installation Options**.
2. Click **Overall** from the **General Options** window.
3. From the **Tax Vendor** drop-down list, select **Taxware**.

The screenshot shows the 'Installation Options - Overall' tab. It includes fields for Last Journal Number Assigned (171), Default Country (USA), Last VAT Authority Number, SubCustomer Usage (Use Both SubCustomer Fields dropdown), Tax Vendor (dropdown set to 'Taxware'), Reconciliation Level (dropdown set to 'Taxware'), InterUnit Method (dropdown set to 'Direct'), and various checkboxes for document sequencing, alternate accounts, and tax provider setup.

4. Click **Save**.

Editing the TweConnector.properties File

1. Extract *TweConnector.properties* from *TweConnector.jar* file.
2. Verify that you have write privileges for the *TweConnector.properties* configuration file.
3. Open *TweConnector.properties*.

-
4. Update the parameters in *TweConnector.properties*, as described in the following table.

Parameter	Description	Value to Substitute
USERID	UserID to be used in the SecurityToken	<UserID>
PASSWORD	UserID to be used in the SecurityToken	<Password>

5. Update *TweConnector.jar* file with the updated *TweConnector.properties* file.

Testing the PeopleSoft Adapter

Starting the Adapter

Before running a smoke test, ensure that Global Tax Determination is set up and the Web Services Client is configured with the Global Tax Determination Server or the data power information.

Running the Smoke Test

1. Navigate to **Main Menu > Set Up Financials/Supply Chain > Install > Tax Provider Installation**.
2. Click the **Test Tax Install** button.
3. Enter your Organization ID in the **Organization** field.
4. Click OK. A **Geocode** and **Tax Amount** should appear.

The screenshot shows the 'Tax Provider Installation' screen with the following details:

- Taxware Installation Options** section:
 - Taxware Tax Application: Taxware Enterprise
 - Tax Vendor Call - Payables: Line Level
 - Tax Vendor Call - Sales: Line Level
 - Message Node Name: PSFT_TAX
 - Tax Exemption Override Allowed
- Test Tax Install** button
- Geocode:** 17127
- Tax Amount:** \$5.000

