Clay Tablet Connector for Oracle WebCenter Sites

Installation and Configuration Guide

Version 1.1.4

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1 Welcome to the Clay Tablet Connector for Oracle WebCenter Sites

Welcome to the Clay Tablet Connector for Oracle WebCenter Sites (OWCS) ("Connector"). This is Clay Tablet's connector between Oracle WebCenter Sites and the Clay Tablet Platform.

1.1 Terminology

Amazon AWS	Amazon Web Services. A suite of web application products developed and sold by Amazon.com. Clay Tablet uses various AWS offerings in order to leverage their infrastructure and build rich, dynamic solutions for its customers, specifically, the Clay Tablet Platform. For details, see http://aws.amazon.com.
Amazon S3	Amazon Simple Storage Service. For details, see: http://aws.amazon.com/s3/. The Connector and the Clay Tablet Platform use Amazon S3 to provide temporary storage services for the content sent to and from translation.
Amazon SQS	Amazon Simple Queue Service. For details, see: http://aws.amazon.com/sqs/. The Connector uses Amazon SQS to provide Message Queue Services.
Asset	A content item that you manage using WebCenter Sites, for example, articles, product descriptions, advertisements, photos, and video clips. Assets are instances of asset types.
Asset type	An object that you use to create assets of that type. An asset type is represented by a content entry form, where the set of fields define the type of content you will provide. For example, an Article asset type may have fields "Headline," "Abstract," "Author," "Post Date," and "Body," which are the content that composes the article.
Clay Tablet (CTT)	Clay Tablet Technologies, the corporate entity that publishes the Clay Tablet Connector and the Clay Tablet Platform.
Clay Tablet Connector for OWCS ("Connector")	The connector software that Clay Tablet Technologies has developed and provides, which plugs into your Oracle WebCenter Sites (OWCS) installation to provide connectivity to our hosted Platform. In this document it is referred to as the Connector. This is the software you are installing and configuring as you work through this document.
Clay Tablet Platform	The hosted (IaaS) connectivity platform that receives and routes content from content systems, including content management systems (CMSs), to translation providers and back during implementation. Clay Tablet Technologies configures the Platform based on the number and nature of systems involved in your system architecture.
Freeway	The name of the Lionbridge translation portal for submitting content to and retrieving content from the Lionbridge translation provider.

FTP Server	File Transfer Protocol (FTP) is a standard network protocol used to transfer files from one host to another host over a TCP-based network, such as the Internet. Translation providers may receive and send files for translation using an FTP server.
IaaS	Infrastructure as a Service. The Clay Tablet Platform is an IaaS, because it is a hosted platform.
Keys	The Connector uses keys to establish a secure, discrete connection between the Connector instance and the Platform. **Very important:** Do not copy the CMS address keys to multiple Oracle WebCenter Sites (OWCS) instances, because this is a violation of the Clay Tablet License Agreement. Using the same CMS address keys on multiple OWCS instances will cause the Connector to behave unexpectedly, which can result in lost translation content, orphaned projects, and inaccurate translation status reports. Clay Tablet will only support technical issues caused by duplicating or incorrectly installing CMS address keys on a time and materials basis.
Lionbridge	The publisher of the Freeway translation portal and a translation provider. Users connect to the Freeway translation portal to submit content to and retrieve content from the Lionbridge translation provider.
MT	Machine translation. The translation provider can be a machine translation service, such as Google Translate.
On-Premise Platform	A version of the Clay Tablet Platform that is hosted and managed by the Clay Tablet client, instead of hosted on AWS by Clay Tablet.
Producer	CMS or another system that sends content or documents out for translation. In this case, this is your Oracle WebCenter Sites (OWCS).
Provider	A provider of translation services. The delivery of assets to the provider may be via an FTP server or a TMS connector.
Support Asset	Supporting documents and their metadata. Support assets are not translated by the translation provider, but they provide helpful context for the translator.
TMS	Translation management system that the translation provider uses.

1.2 About the Clay Tablet Translation Platform

Clay Tablet's translation connectivity platform is the easiest, most flexible way to integrate content systems, including content management systems (CMSs) and other content producers, with translation providers and translation technologies.

Clay Tablet Platform is the hosted (IaaS) connectivity platform that receives and routes content from content management systems to translation providers and back. It is hosted on Amazon Web Services (AWS). During

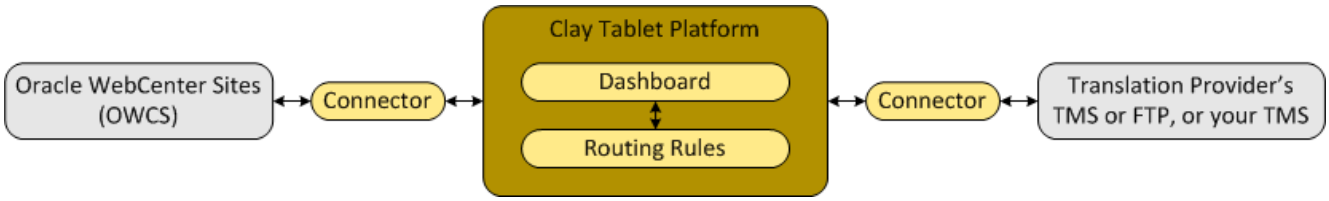
implementation, Clay Tablet Technologies configures the Platform for your translation solution, based on the translation providers or systems you use. The Clay Tablet Platform uses the following services on AWS:

- S3 (Amazon Simple Storage Service), which provides storage services for the content sent to and from translation.
- SQS (Amazon Simple Queue Service), which provides message queue services.

1.3 How the Connector Works with Oracle WebCenter Sites

The Clay Tablet Connector ("Connector") is an important part of the Clay Tablet translation solution.

The Connector is installed on your system as an add-in to Oracle WebCenter Sites (OWSC). Its functionality is displayed to the users as part of OWCS.



Your translation systems architecture might look like the configuration above. It may have additional CMSs or translation providers, but the core concepts remain the same.

During implementation, Clay Tablet works with you and your translation providers to configure and test the other elements of your translation solution, which are the Clay Tablet Platform's connections to your translation providers' systems.

1.4 Using this Guide

Purpose of this guide

This guide describes everything you need to know to install and configure the Clay Tablet Connector ("Connector") for Oracle WebCenter Sites (OWCS). It describes the delivery package contents, system requirements, installation instructions, and configuration procedures.

Recommendation: Review the user guide to fully understand the powerful features of the Connector.

Who should use this guide

This guide is intended for OWCS administrators and system integrators.

What you should already know

This document assumes that your company already has an installed instance of OWCS. It assumes that you have a strong working knowledge of OWCS and its features.

How to find out more about the Clay Tablet Connector for OWCS

For information on using the Clay Tablet Connector to send and receive content for translation from OWCS, read the *Clay Tablet Connector for Oracle WebCenter Sites User Guide*.

Documentation conventions

This guide uses the following conventions:

Convention	Description
Bold	Highlights screen elements such as buttons, menu items, and fields.
`Courier`	Highlights input, file names, and paths.
Italics	Highlights terms for emphasis, variables, or document titles.
>	Indicates a menu choice. For example, "Select **Translation > Translate Asset**."

1.5 How to Contact Clay Tablet Support

Email @: support@clay-tablet.com

Telephone: +1-416-363-0888

How to submit a support ticket:

1. Email support@clay-tablet.com, and cc (carbon copy) anyone to include in the ticket correspondence.

   Important: Include the information and attachments in your email that are listed in the following sub-sections.

   Zendesk automatically creates a ticket and responds to everyone included in the cc field.

2. Everyone in the original cc receives updates unless they request to be removed from the ticket.

   Important: Check your email spam folder (especially first-time Zendesk users) as sometimes email notifications from Zendesk are marked as spam.

When the issue is resolved, Clay Tablet closes the ticket.

Information to include in the support ticket:

- client name
- CMS or content system name and version
- Connector or App version installed
- name of job for which the issue occurs

- date of job submission
- detailed description of the issue
- any error text–copy and paste, if applicable

Files to attach to the support ticket:

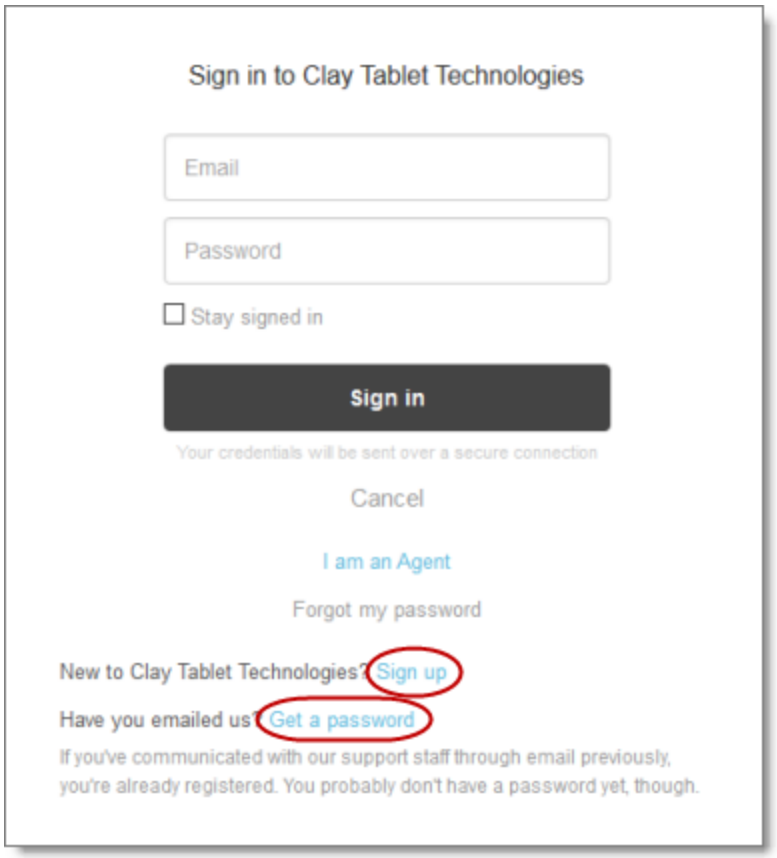
- CMS log files for the date the issue occurred
- Clay Tablet log files for the date the issue occurred
- screen capture of the issue

How to view and update your support ticket in Zendesk:

You must log into Zendesk to view your support tickets there.

1. Open the Clay Tablet Zendesk page in your browser: https://claytablet.zendesk.com.
2. In the top-right corner, click **Sign in**, and enter your credentials.

   Note: If you do not have credentials yet, then click either **Sign up** or **Get a password**, and follow the onscreen instructions.



3. After signing in, click **My activities** to view the tickets you opened or where you are cc'd.

4. To update tickets, you can reply or attach files.

For more information, refer to "Submitting and tracking support requests" in Zendesk's *Help Center guide for end-users*, at: https://support.zendesk.com/hc/en-us/articles/203664386-Help-Center-guide-for-agents-and-end-users.

Important: Zendesk refers to a *support ticket* as a *support request*. These terms are interchangeable.

2 Before You Install

Before you begin to install the Clay Tablet Connector ("Connector") for Oracle WebCenter Sites (OWCS), please review the system requirements, described below, and perform the following pre-installation procedures:

1. "Setting Your System Date, Time, and Time Zone Correctly" on page 11.
2. "Creating or Modifying the User Who Will Install the Connector" on page 12.
3. "Enabling the Java Persistence API (JPA) 2.0" on page 12. Required only when OWCS is hosted on the Oracle WebLogic 11g application server.

2.1 System Requirements

The Clay Tablet Connector for inRiver PIM supports inRiver PIM versions 6.x.

The Clay Tablet Connector for inRiver PIM has no additional hardware or software requirements beyond those of inRiver PIM. For detailed requirements, refer to the inRiver PIM documentation, available at: http://www.inriver.com/about/wiki.

Recommendation: Use the Firefox browser with the Connector.

2.1.1 Supported Databases

The Connector does not require its own database installation. By default, the Connector uses the same database that OWCS uses to store its content. The first time a user opens the Connector, it builds the required tables.

The Connector supports the following databases:

- Oracle 10g and 11g
- MySQL
- HyperSQL

Notes: The Connector does not support Microsoft SQL Server. When using the Oracle WebLogic application server, the Connector supports only the Oracle database.

Note about workflow: If you configure workflow for the Connector, as described on page 45, the tables in the database whose names start with `Workflow` hold all the information about assets that are in workflow, including history.

2.2 Setting Your System Date, Time, and Time Zone Correctly

The Clay Tablet Connector sends content to and receives content from the Clay Tablet Platform, which is hosted in the Amazon Web Services (AWS) environment. AWS requires any machines that connect to its applications to have the correct system time and date settings.

Important: Before proceeding, ensure that the system date, time, and time zone are set correctly on any systems that will run the Clay Tablet Connector. If these settings are incorrect, the following error message is displayed: `Error. The difference between the request time and the current time is too large.`

2.3 Creating or Modifying the User Who Will Install the Connector

Before installing the Connector, you create the user you will use to install the Connector. This user must have permission to perform the following actions:

- Create subfolders and copy files into the OWCS web application folder.
- Run CatalogMover and connect to your OWCS instance to import elements.
- Restart your OWCS instance.
- Import elements into OWCS using WSDT (formerly CSDT).
- Create OWCS roles in the OWCS **Admin** interface .
- Create OWCS system events (either manually with Sites Explorer or by creating a CSElement/Site Entry pair).

For detailed instructions on creating or modifying a user within OWCS, refer to Oracle's *Fusion Middleware WebCenter Sites Administrator's Guide*, which is available at: http://www.oracle.com/technetwork/middleware/webcenter/sites/documentation/index.html.

2.4 Enabling the Java Persistence API (JPA) 2.0

When OWCS is hosted on the Oracle WebLogic 11g application server, you must enable JPA 2 (Java Persistence API 2) on WebLogic 11g, which does not support JPA 2 by default.

Before you install the Connector, enable JPA 2.0 on WebLogic 11g, as described here: https://docs.oracle.com/cd/E21764_01/web.1111/e13720/using_toplink.htm#EJBAD1311

3 Installing the Clay Tablet Connector

This section describes how to install the Connector installation package into your OWCS system.

Important: If you are upgrading from a previous version of the Connector, please follow the instructions in "Upgrading from a Previous Version of the Connector" on page 18.

Before you install the Connector, verify that you have reviewed the system requirements, and created or modified the user who will install the Connector, as described in "Before You Install" on page 11.

These instructions refer to the following directories:

Directory	Description
<OWCS_ROOT>	The root directory of your OWCS installation. For example: `<D:\Oracle\Sites>`. **Note:** The `futuretense.ini` file is in this directory.
<cs-webapp-root>	The root directory for the cs webapp hosted by your application server. ■ For example, for JSK (JumpStart Kit): `D:\Oracle\WebCenter\Sites\11gR1\App_Server\apache-tomcat-6.0.32\webapps\cs`. ■ For example, for WebLogic: `D:\Oracle\Middleware\user_projects\domains\sitesDomain\cs` **Note:** The *cs webapp* is the main UI web application for OWCS. The Connector adds on to the cs webapp by enhancing the Contributor interface and adding the Clay Tablet Dashboard interface.
<install-working-folder>	The directory where you download and extract all the content of the Clay Tablet Connector installation package, for example: `<D:\CTT\wcs-connector>`.

To install the Connector into OWCS:

1. Download the Clay Tablet Connector ("Connector") delivery package, `CTC-OracleWCS-v1.0.10.zip`, from the link that Clay Tablet Technologies sends you.

2. Unzip the `CTC-OracleWCS-v1.10.zip` installation package into any working folder on your server, which is referred to as `<install-working-folder>`.

   Note: Alternatively, you can unzip the installation package on your local machine, and transfer the unzipped files to your server, later, when required.

   Important: Delete any previous installation packages from this folder.

3. WebLogic 11g application server only. Modify `persistence.xml` based on the data source type.

   Modify `<install-working-folder>/installer/cs/WEB-INF/classes/META-INF/persistence.xml` so that its configuration matches the properties of the data source, where the data

for the Connector will be stored. There are pre-configured, commented-out sections for WebLogic with the Oracle data source and WebLogic with the SQLServer data source in `persistence.xml`. Uncomment the appropriate section and save your change.

4. Deploy the Connector library and web resources to `<cs-webapp-root>`. The Connector requires some jar files and web resource files from the `<install-working-folder>/installer/cs` directory.

   - Copy all the subdirectories from `<install-working-folder>/installer/cs`, into your web application's `<cs-webapp-root>` folder.

5. Perform the following steps:
   a. Rename `<cs-webapp-root>\js\fw\fw_ui.js` to `fw_ui.js.bak`.
   b. Copy `<cs-webapp-root>\js\fw\fw_ui.js.uncompressed.js` to `<cs-webapp-root>\js\fw\fw_ui.js`.
   c. Open the following file for editing: `<cs-webapp-root>\js\fw\fw_ui.js`.
   d. Search for the following line: case `"checkincheckout":`

      Tip: This line should be at or around line 81752 in an OWCS 11.1.1.8 installation, and at or around line 76704 in OWCS 11.1.1.6.1 installation.

   e. Insert the following block before that line:

```
case "bulktranslate":
   nextViewType = "bulktranslation";
   break;
```

   f. Save your change.

6. Update the web application's `web.xml` file to configure the Connector's Java application context and its servlet filter. If Clay Tablet is involved in an HTTP session, this releases Clay Tablet resources and closes the database connection at the end of the session.
   a. Add the following lines to `<cs-webapp-root>/WEB-INF/web.xml` immediately before the first `<context-param>` entry:

```
<context-param>
      <param-name>gsf-contexts</param-name>
      <param-value>com.claytablet.wcs.AppContext</param-value>
</context-param>
```

   b. Add the following lines to `<cs-webapp-root>/WEB-INF/web.xml` immediately before the first `<filter>` entry:

```
<filter>
   <filter-name>CTSessionFilter</filter-name>
   <filter-class>com.claytablet.wcs.CTSessionFilter</filter-class>
</filter>
```

c. Add the following lines to `<cs-webapp-root>/WEB-INF/web.xml` just before the first `<filter-mapping>` entry:

```
<filter-mapping>
   <filter-name>CTSessionFilter</filter-name>
   <url-pattern>/ContentServer/*</url-pattern>
</filter-mapping>
```

d. Save your `web.xml` file.

7. Optional. Specify the database to use for the Connector.

The Connector stores data in a data source provided by the application server. By default, the Connector stores data in the same data source that OWCS uses, and it creates new tables in the data source alongside the tables that OWCS creates and manages. However, you can configure OWCS to use a separate database to store its data, which separates the Connector's data from OWCS's data. To specify a separate database:

a. Open `<OWCS_ROOT>/futuretense.ini` for editing.

b. Add the following new line: `csct.dbconnpicture=<jndi_name_of_the_data_source>`

c. Save your change.

Important: Do not restart your OWCS instance until you perform the next step.

8. Import the Connector's custom elements using WSDT (Oracle WebCenter Sites Developer Tools), formerly CSDT, into your OWCS instance.

Note: The Connector is built with a series of `CSElements`/`SiteEntry` pairs, as well as one `FW_View` asset and one `FW_Application` asset. You must import all these into your OWCS instance using the WebCenter Sites Developer Tools (WSDT, formerly CSDT).

Use WSDT to connect to your OWCS instance, and import all the elements in the `<install-working-folder>/installer/csdt/export/envision/cs_workspace/`.

Note about Eclipse: If you use the OWCS plugin for Eclipse, you can use the **Sync to WebCenter Sites** feature. Otherwise, import the elements using the command-line tool, as described below:

a. Edit `<OWCS_ROOT>/futuretense.ini` to point your WSDT folder to `<install-working-folder>/installer/csdt/export`.

I. Locate the line starting with `cs.csdtfolder`.

II. Change the path to `<install-working-folder>/installer/csdt/export`.

III. In your path, replace back slashes (`\`) with forward slashes (`/`), and add a back slash (`\`) before a colon (`:`), for example: `D\:/CTT/wcs-connector/installer/csdt/export`.

IV. Save your change and close the file.

V. Restart your application server.

b. In the `<install-working-folder>/installer/csdt/` folder, edit `csdt.bat`.

I. Edit line 8 to set `<OWCS_ROOT>`.

II. Edit line 9 to set `CS_WEBAPP_ROOT=<cs-webapp-root>`.

III. Edit lines 20-22 to specify the server address, username, and password for your specific OWCS instance.

IV. Save your changes and close the file.

V. In Windows Explorer, press the `Shift` button and right-click, and select **Open command window here** from the context menu.

VI. In the **Command Prompt** window, type `csdt.bat` and press `Enter`. This tests whether the path is correctly specified.

A few hundred lines of output will be displayed. The last two lines start with `FW_Application` and `FW_View`, respectively.

c. To perform the actual importing, in the same **Command Prompt** window, type `csdt.bat import` and press `Enter`.

A few hundred lines of output will be displayed. `Success` will be displayed on the last line.

9. This step is required only for OWCS version 11.1.1.6.1. Use the CatalogMover to install support for context menus.

a. In Windows Explorer, open the `<OWCS_ROOT>` directory, for example `D:\Oracle\WebCenter\Sites\11gR1\Sites\11.1.1.6.1`.

b. Double-click `catalogmover.bat`.

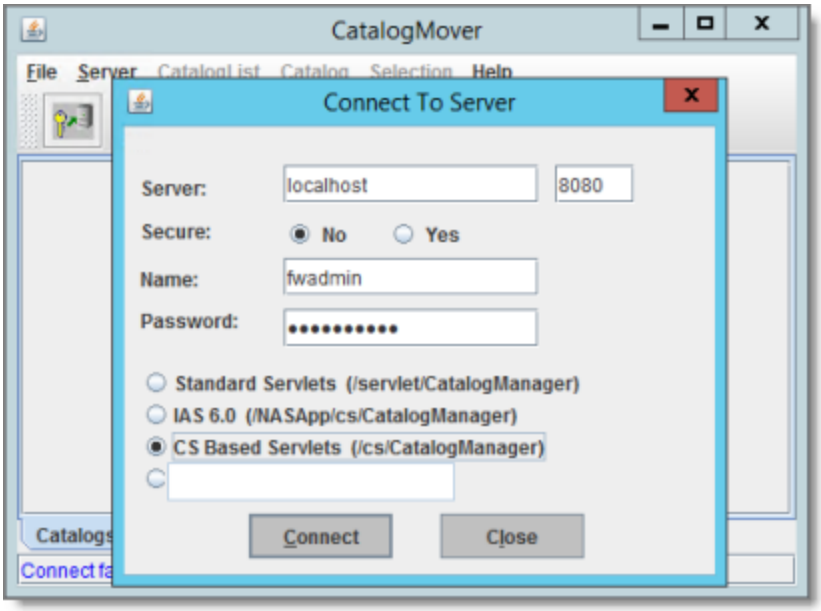
The **CatalogMover** window opens.

Important: Ensure that OWCS is running before you open the **Catalog Mover**.

c. Select **Server > Connect** from the menu.

d. Use `fwadmin` or the ContentServer user to log in to to connect to your OWCS instance.

Notes: The default password for `fwadmin` is `xceladmin`. Select the last connection option, **CS Based Servlets (/cs/CatalogManager)**.



e. After you are connected, select **Catalog > Import Catalog** from the menu.

f. In the **Catalog Data** window, select the `<install-working-folder>/BP-addon/BP-context-menu.zip` file, and click **Save**.

g. Click **OK** to import the file, accepting all the defaults when prompted by the CatalogMover.

h. Scan the output results in the **Results for Import Catalogs** window to verify that the elements were imported correctly. If there are no errors, then the elements were imported correctly.

i. You can close the **CatalogMover** now.

10. Create the `CTUser`, `CTSiteAdmin`, and `CTAdmin` user roles. The Connector uses these roles in OWCS for authorization:

- Any user with the `CTUser` role sees the **Translation** menu in the **Contributor** application icon and the corresponding interface for the specified sites.
- Any user with the `CTSiteAdmin` role can access both of the following interfaces for *assigned* sites:
  - the **Clay Tablet Dashboard** application icon and the corresponding interface for site-specific configuration such as jobs, translation queue, and PO number
  - the **Translation** menu in the **Contributor** application icon and the corresponding interface for the specified sites
- Any user with the `CTAdmin` role can access both of the following interfaces for *all* sites (globally):
  - the **Clay Tablet Dashboard** application icon and the corresponding interface
  - the **Translation** menu in the **Contributor** application icon and the corresponding interface

Important: This step is required to display the **Translation** menu in the Contributor interface .

To create these user roles:

a. Log in again to OWCS.

b. In the Oracle **Admin** interface , create the `CTUser`, `CTSiteAdmin`and `CTAdmin` roles.

c. Assign your own user the `CTAdmin` role to `AdminSite` and to any other site where you will use the Connector.

d. Assign any users who will be site administrators the `CTSiteAdmin` role to the sites they will manage.

For detailed instructions on creating user roles and assigning roles to users, refer to Oracle's *Fusion Middleware WebCenter Sites Administrator's Guide*, which is available at: http://www.oracle.com/technetwork/middleware/webcenter/sites/documentation/index.html.

11. Assign the `CTAdmin` role to the OWCS batch user for all sites. This enables the batch user to perform translation-related tasks in the background.

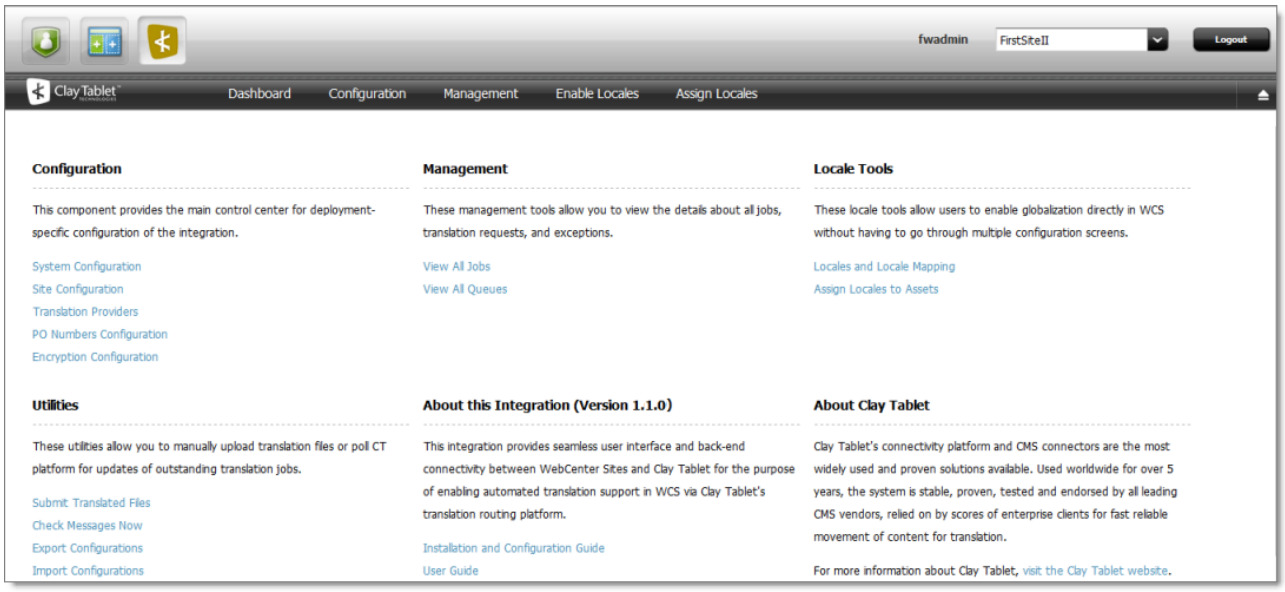
Note: The `fwadmin` user and the OWCS batch user is specified by the `xcelerate.batchuser` entry in the `futuretense_xcel.ini` file.

12. To verify that the installation was successful:

a. Log in to OWCS.

b. Click the **Clay Tablet Dashboard** application icon .

c. Verify that the Clay Tablet Dashboard interface is displayed as expected, and that it looks like the screen capture below.



3.1 Upgrading from a Previous Version of the Connector

Important: If you edited `futuretense.ini` in the original clean installation process, and you put the upgrade installation files into the same folder where the original installation files were in a clean installation, then you can use the instructions below to upgrade from a previous version of the Connector.

If you are upgrading your version of the Connector from a previous version, use the following instructions:

1. Download the Clay Tablet Connector ("Connector") delivery package, `CTC-OracleWCS-v1.0.10.zip`, from the link that Clay Tablet Technologies sends you.

2. Unzip the `CTC-OracleWCS-v1.10.zip` installation package into any working folder on your server, which is referred to as `<install-working-folder>`.

   Note: Alternatively, you can unzip the installation package on your local machine, and transfer the unzipped files to your server, later, when required.

   Important: Delete any previous installation packages from this folder.

3. WebLogic 11g application server only. Modify `persistence.xml` based on the data source type.

   Modify `<install-working-folder>/installer/cs/WEB-INF/classes/META-INF/persistence.xml` so that its configuration matches the properties of the data source, where the data for the Connector will be stored. There are pre-configured, commented-out sections for WebLogic with the

Oracle data source and WebLogic with the SQLServer data source in `persistence.xml`. Uncomment the appropriate section and save your change.

4. Deploy the Connector library and web resources to `<cs-webapp-root>`. The Connector requires some jar files and web resource files from the `<install-working-folder>/installer/cs` directory.

   - Copy all the subdirectories from `<install-working-folder>/installer/cs`, into your web application's `<cs-webapp-root>` folder.

5. Import the Connector's custom elements using WSDT (Oracle WebCenter Sites Developer Tools), formerly CSDT, into your OWCS instance.

   Note: The Connector is built with a series of `CSElements`/`SiteEntry` pairs, as well as one `FW_View` asset and one `FW_Application` asset. You must import all these into your OWCS instance using the WebCenter Sites Developer Tools (WSDT, formerly CSDT).

   Use WSDT to connect to your OWCS instance, and import all the elements in the `<install-working-folder>/installer/csdt/export/envision/cs_workspace/`.

   Note about Eclipse: If you use the OWCS plugin for Eclipse, you can use the **Sync to WebCenter Sites** feature. Otherwise, import the elements using the command-line tool, as described below:

   a. Edit `<OWCS_ROOT>/futuretense.ini` to point your WSDT folder to `<install-working-folder>/installer/csdt/export`.
      I. Locate the line starting with `cs.csdtfolder`.
      II. Change the path to `<install-working-folder>/installer/csdt/export`.
      III. In your path, replace back slashes (`\`) with forward slashes (`/`), and add a back slash (`\`) before a colon (`:`), for example: `D\:/CTT/wcs-connector/installer/csdt/export`.
      IV. Save your change and close the file.
      V. Restart your application server.

   b. In the `<install-working-folder>/installer/csdt/` folder, edit `csdt.bat`.
      I. Edit line 8 to set `<OWCS_ROOT>`.
      II. Edit line 9 to set `CS_WEBAPP_ROOT=<cs-webapp-root>`.
      III. Edit lines 20-22 to specify the server address, username, and password for your specific OWCS instance.
      IV. Save your changes and close the file.
      V. In Windows Explorer, press the `Shift` button and right-click, and select **Open command window here** from the context menu.
      VI. In the **Command Prompt** window, type `csdt.bat` and press `Enter`. This tests whether the path is correctly specified.

      A few hundred lines of output will be displayed. The last two lines start with `FW_Application` and `FW_View`, respectively.

c. To perform the actual importing, in the same **Command Prompt** window, type `csdt.bat import` and press `Enter`.

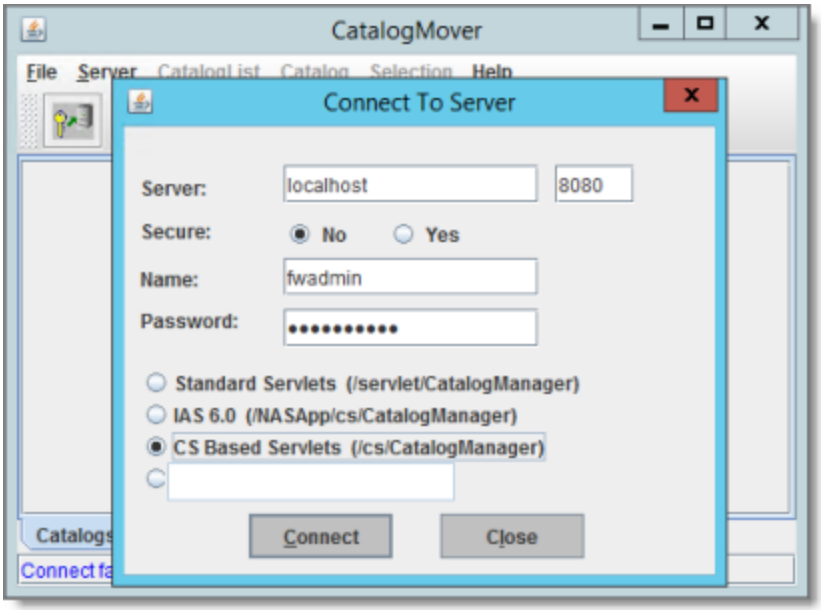
A few hundred lines of output will be displayed. `Success` will be displayed on the last line.

6. This step is required only for OWCS version 11.1.1.6.1. Use the CatalogMover to install support for context menus.
   a. In Windows Explorer, open the `<OWCS_ROOT>` directory, for example `D:\Oracle\WebCenter\Sites\11gR1\Sites\11.1.1.6.1`.
   b. Double-click `catalogmover.bat`.

   The **CatalogMover** window opens.

   Important: Ensure that OWCS is running before you open the **Catalog Mover**.
   c. Select **Server > Connect** from the menu.
   d. Use `fwadmin` or the ContentServer user to log in to to connect to your OWCS instance.

   Notes: The default password for `fwadmin` is `xceladmin`. Select the last connection option, **CS Based Servlets (/cs/CatalogManager)**.



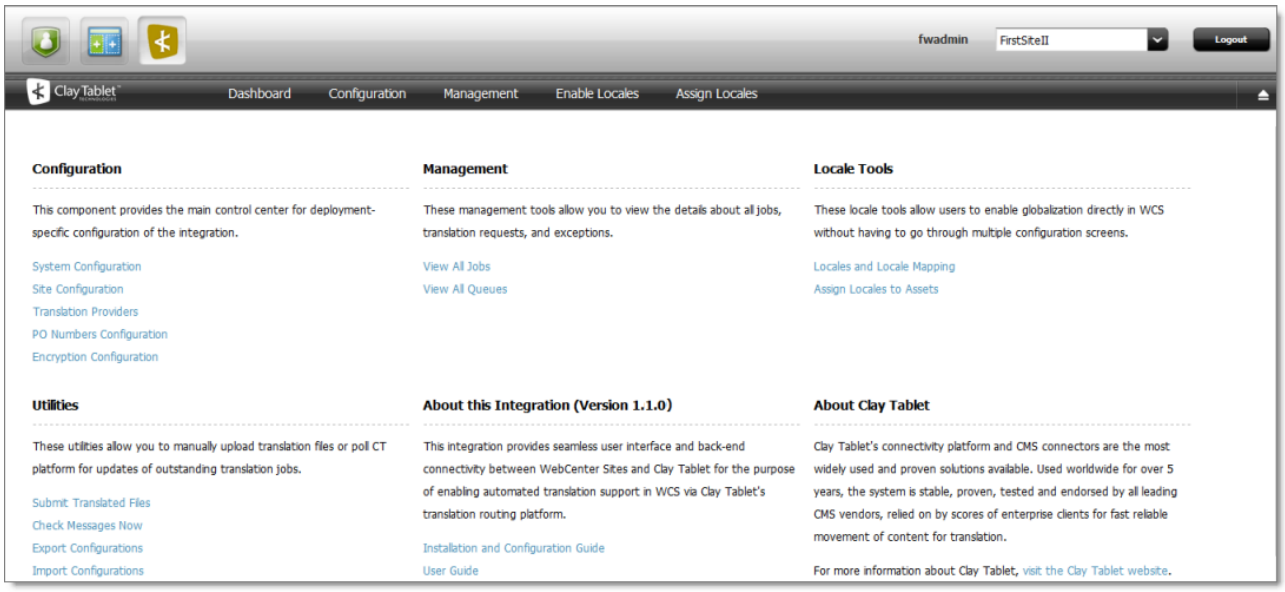
   e. After you are connected, select **Catalog > Import Catalog** from the menu.
   f. In the **Catalog Data** window, select the `<install-working-folder>/BP-addon/BP-context-menu.zip` file, and click **Save**.
   g. Click **OK** to import the file, accepting all the defaults when prompted by the CatalogMover.
   h. Scan the output results in the **Results for Import Catalogs** window to verify that the elements were imported correctly. If there are no errors, then the elements were imported correctly.
   i. You can close the **CatalogMover** now.

7. To verify that the installation was successful:

a. Log in to OWCS.

b. Click the **Clay Tablet Dashboard** application icon .

c. Verify that the Clay Tablet Dashboard interface is displayed as expected, and that it looks like the screen capture below.



4 Configuring the Clay Tablet Connector

After you install the Connector, you log in to the **Clay Tablet Dashboard** interface as `fwadmin` and you perform the following steps to configure your Connector installation:

1. "Configuring Sites for Site Administrators" on page 22. Optional. If you have site administrators in addition to a global administrator, you assign the **Clay Tablet Dashboard** app to the `CTSiteAdmin` role.
2. "Enabling Sites, Asset Types, and Attributes for Translation" on page 23. This requires the following tasks:
   - Enabling the Connector for the desired OWCS sites.
   - Enabling asset types that can be translated.
   - Enabling attributes for each asset type that can be translated.

   Important: This step is required to display the **Translation** menu in the Contributor interface .
3. "Configuring Java Key Encryption for the Platform Key and Passwords" on page 25. Optional. You can configure Java KeyStore encryption for the platform key and passwords stored on the Connector.
4. "Setting Up the CMS Address Key and the Platform Keys" on page 28. Examples of translation providers include Lionbridge Freeway, Machine Translation, etc.
5. "Configuring Global Connector Settings" on page 30. Optional.
6. "Configuring Workflow" on page 45. Optional. This sets up a workflow process that moves assets:
   - when you send them out for translation
   - when they return from translation
7. "Configuring Connector Languages" on page 34. This includes the following tasks:
   - Mapping Connector languages.
   - Adding a new locale to the Connector. Optional.
   - Assigning a target language to sites, asset types, and assets. Optional.
8. "Configuring Purchase Order Numbers" on page 41. Optional. You can configure the Connector so that a purchase order (PO) number is required when sending out content for translation.
9. "Managing Your Configurations" on page 43. Optional. You can export your configuration settings to an XML file and then import it to this or another OWCS instance.

Important: You must log in to the **Clay Tablet Dashboard** interface to perform all configuration steps. To view the **Clay Tablet Dashboard** application icon immediately after logging in and in the top-left corner of OWCS, the `CTAdmin` role must be assigned to your current user.

4.1 Configuring Sites for Site Administrators

If you have site administrators in addition to a global administrator, you assign the **Clay Tablet Dashboard** app to the `CTSiteAdmin` role you created earlier during step 10 in the installation process.

Any user with the `CTSiteAdmin` role can access both of the following interfaces for *assigned* sites:

- the **Clay Tablet Dashboard** application icon and the corresponding interface for site-specific configuration such as jobs, translation queue, and PO number
- the **Translation** menu in the **Contributor** application icon and the corresponding interface for the specified sites

To assign the Clay Tablet Dashboard app to the CTSiteAdmin role:

1. Log in to OWCS and click the **Admin** application icon .
2. In the dropdown list in the top-right corner, select `AdminSite`, if it is not already selected.
3. Click the **Apps** menu.

   The **Apps** page opens, displaying the list of apps.
4. Mouseover the **Clay Tablet Dashboard** app, and click **Manage App** in the pop-up menu that opens.

   The **Manage App** page opens, displaying the list of sites.
5. Mouseover the site to which you want to assign the `CTSiteAdmin` role, and click **Assign Roles to App** in the pop-up menu that opens.

   The **Assign Roles to App** page opens.
6. In the **Available** list, select the `CTSiteAdmin` role and use the right arrow button to move this to the **Selected** list.
7. Click **Save and Close**.

   For detailed instructions on assigning user roles to sites, refer to Oracle's *Fusion Middleware WebCenter Sites Administrator's Guide*, which is available at: http://www.oracle.com/technetwork/middleware/webcenter/sites/documentation/index.html.

4.2 Enabling Sites, Asset Types, and Attributes for Translation

After you installed the Connector, you log in to the **Clay Tablet Dashboard** interface to enable the Connector for certain sites. Then you enable asset types and attributes for translation for each site. Only the sites, asset types, and attributes that you enable for translation will be available for selection by users who send out content for translation.

- An *asset type* is a type of content.
- An *attribute* is a field within a specific asset type.

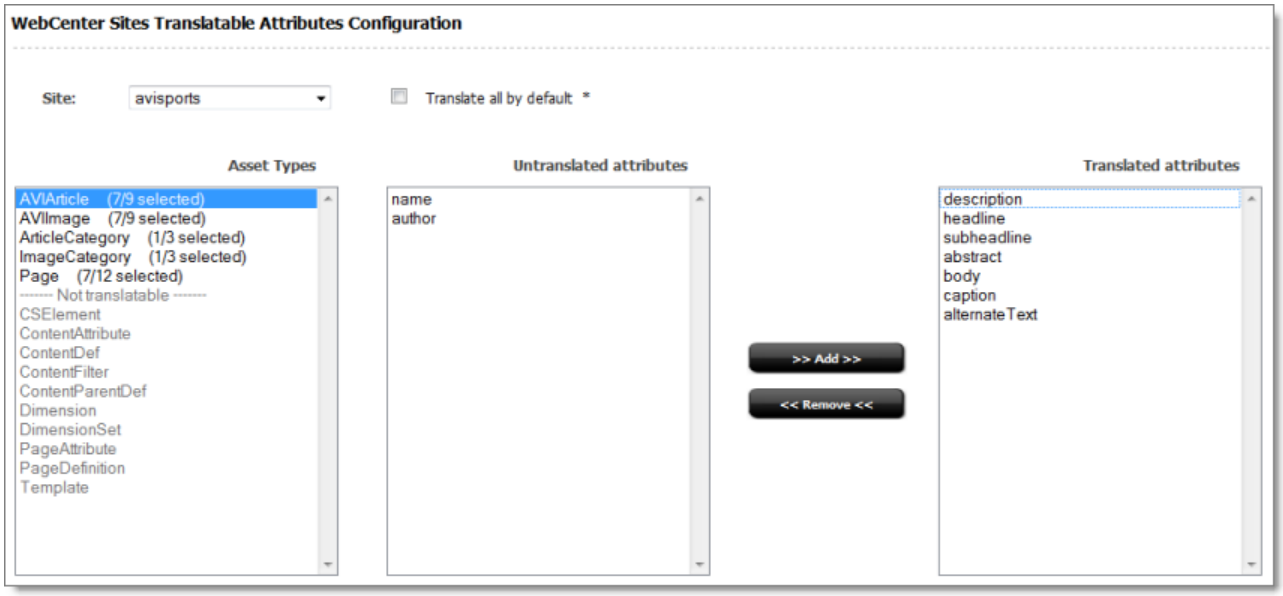
Important: The Connector creates the **Translation** menu in the OWCS Contributor interface . However, if your site has menu customization in the Contributor interface, this may override the Connector's customization, which can prevent the **Translation** menu from being displayed. In this case, you must enhance the menu customization in the Contributor interface, so that the site displays the **Translation** menu. For

example, the `avisports` site, which is included in the OWSC installation, has menu customization that overrides the Connector's customization.

To select the sites, asset types, and attributes to enable for translation:

1. Log in to OWCS and click the **Clay Tablet Dashboard** application icon .
2. Under **Configuration**, click **Site Configuration**.

   The **WebCenter Sites Translatable Attributes Configuration** page opens.



3. Select a site to configure for translation. For example, to select the AviSports Demo site, select `avisports` from the **Site** dropdown list.

   This populates the **Asset Types** list. There are two types of asset types:

   - The asset types at the top of the list are translatable, and they *will be* available for selection.
   - The asset types at the bottom of the list, under **Not translatable**, are not translatable. Therefore, they are grayed out, and they *will not be* available for selection. These non-translatable asset types either:
     - do not have any corresponding text fields
     - are system text fields

4. Click an asset type in the list to select it. For example, click the `AVIArticle` asset type. This displays all the attributes of the asset type. There are two types of attributes:

   - **Untranslated attributes:** Attributes that *will not* be available for translation for the selected asset type.
   - **Translated attributes:** Attributes that *will* be available for translation for the selected asset type.

5. Use the **Add** and **Remove** buttons to move the attributes between the **Untranslated attributes** and **Translated attributes** columns. Ensure that:

- All the attributes that *will* be available for translation are in the **Translated attributes** column.
- All the attributes that *will not* be available for translation are in the **Untranslated attributes** column.

6. Alternatively, select the **Translate All by Default** check box to specify that all asset types of the site will be available for translation.
7. When the **Translate All by Default** check box is selected, and one or more translatable asset types are selected, then the **Use default** check box is displayed in the middle of the page:
   - If you *do not select* the **Use default** check box, then you can specify which translatable attributes for the selected asset type will be translated.
   - If you *select* the **Use default** check box, then all translatable attributes for the selected asset type will be translated. All translatable attributes for the selected asset type automatically move from the **Untranslated attributes** column to the **Translated attributes** column.

     Important: An asterisk (*) following an asset type indicates that all its translatable attributes will be available for translation.

Your changes are automatically saved, and **Change saved** is displayed at the top of the page in green for several seconds after each change.

4.3 Configuring Java Key Encryption for the Platform Key and Passwords

By default, the Connector uses a key that it generates to encrypt the following information with DES (Data Encryption Standard):

- your company's platform key, which is its license for the Clay Tablet Platform
- passwords, such as your company's password to Lionbridge Freeway

The Connector never stores the platform key or passwords in clear text.

Alternatively, you can configure the Connector to use a secret key in a Java KeyStore file to encrypt the platform key and passwords. You can generate a new key or use an existing key. You can create a KeyStore and generate a key either in the Connector or by using Java's built-in key tool.

The Connector supports only the AES (Advanced Encryption Standard) key and the JCEKS (Java Cryptography Extension) KeyStore type.

Note: By default, the JDK supports only AES 128-bit encryption. However, you can configure your JDK to support 192-bit and 256-bit encryption as well.

To configure the Connector to use a key in a Java KeyStore to encrypt the platform key and passwords:

1. Log in to OWCS and click the **Clay Tablet Dashboard** application icon .
2. Under **Configuration**, click **Encryption Configuration**.

   The **Configure Encryption Key** page opens.

3. Enter the following information about your encryption configuration:

Field	Description
Keystore type	Select the Java KeyStore type. Currently `JCEKS` (Java Cryptography Extension) is the only supported KeyStore type.
Keystore path	Enter the path to the Java KeyStore file, including the filename. **Note:** When creating a new Java KeyStore, ensure that the corresponding directory is already created, and that you have write permissions to it.
Keystore password	Enter the password for the Java KeyStore file: ■ If you are creating a new KeyStore file, enter the password to use. ■ If you are accessing an existing KeyStore file, enter the password you used to create the file.
Key alias	Enter the alias for the key in the KeyStore file: ■ If you are generating a new key, enter the alias to use. ■ If you are accessing an existing key, enter the alias you used to generate the key.
Key password	Enter the password for the key in the KeyStore file: ■ If you are generating a new key, enter the password to use. ■ If you are accessing an existing key, enter the password you used to generate the key. **Note:** If a password is not specified for the key, then it uses the same password of the KeyStore that contains it.

Field	Description
Supported key types	By default, the JDK supports only AES 128-bit encryption, which is the `AES 128bits` key type. However, if you configure your JDK to support unlimited key length, as described in the following note, you can configure 192-bit or 256-bit encryption. **Note about configuring 192-bit or 256-bit encryption:** If you want to configure 192-bit or 256-bit encryption, you must configure your JDK to support unlimited key length. You can download `Java Cryptography Extension (JCE) Unlimited Strength Jurisdiction Policy Files` from http://www.oracle.com/technetwork/java/javase/downloads/index.html.
Generate Key	If you are generating a key, select the encryption level of the key to generate from the dropdown list. The only supported default key type is `AES 128bits`. If you configured your JDK to support unlimited key length, as described above, you can also select `AES 192bits` or `AES 256bits` from the list.

4. Do one of the following:

   - To generate a new key, click **Generate Key**. A message box prompts you to confirm that you want to create a new encryption key. Click **OK** to proceed.

     The Connector generates a new key of the specified encryption level, with the specified alias and password, and inserts it either into an existing JCEKS KeyStore file, or into a new KeyStore file that it creates. The Connector configures itself to use the new key to encrypt the platform key and passwords.

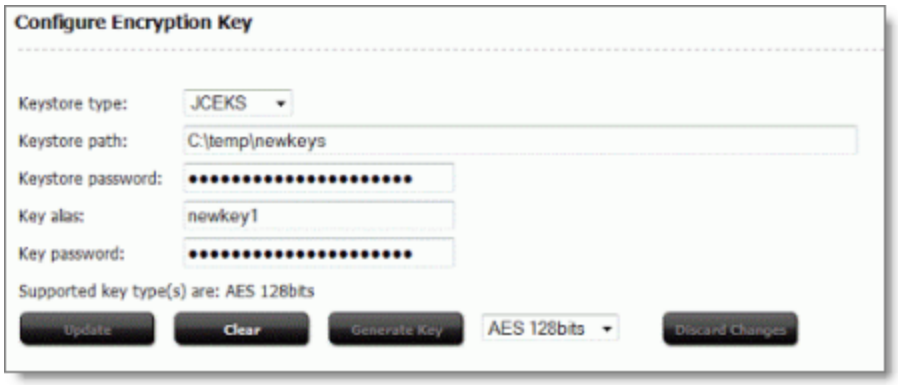
   - To use an existing key in an existing KeyStore, click **Update**. A message box prompts you to confirm that you want to use the specified encryption key. Click **OK** to proceed.

     The Connector configures itself to use the specified key to encrypt the platform key and passwords.

   - To clear all the data from the screen and revert to the default Connector encryption, click **Clear**. A message box prompts you to confirm that you want to revert to the default Connector encryption. Click **OK** to proceed.

   - To cancel any unsaved changes and display your current Java key configuration, click **Discard Changes**. A message box prompts you to confirm that you want to revert to your last saved configuration. Click **OK** to proceed.

   After you have configured the Connector to use an encryption key, the page is displayed as follows:



4.4 Setting Up the CMS Address Key and the Platform Keys

Very important: Do not copy the CMS address keys to multiple Oracle WebCenter Sites (OWCS) instances, because this is a violation of the Clay Tablet License Agreement. Using the same CMS address keys on multiple OWCS instances will cause the Connector to behave unexpectedly, which can result in lost translation content, orphaned projects, and inaccurate translation status reports. Clay Tablet will only support technical issues caused by duplicating or incorrectly installing CMS address keys on a time and materials basis.

- The Connector uses the CMS address key, which is in `source.xml`, to move the files your company exports from OWCS to the Clay Tablet Platform. The Platform then forwards your exported files to your translation provider. If you have multiple OWCS installations, there must be one key (file) for each environment. If you are using multiple translation providers, there must be one key (file) for each provider.

  Note: The Connector always initiates calls to the Clay Tablet Platform. However, the CMS address keys enable establishing a secure, discrete connection between the Connector instance and the Platform. They also support the return of files from translation.

- Your company's platform key is in `target.xml`. This is your company's license for the Clay Tablet Platform.

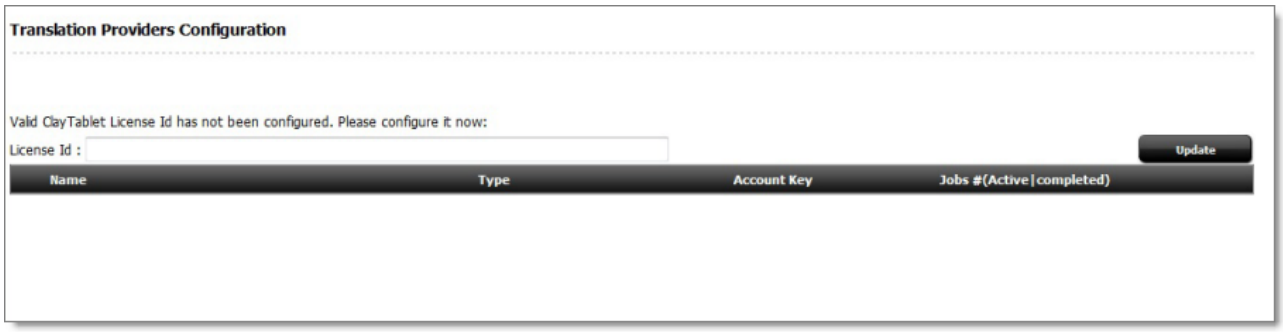
Before you can send assets for translation, you must set up your Clay Tablet license key and your translation providers.

Important: Before starting, ensure you obtain your license key from Clay Tablet. Verify that Clay Tablet has set up your *account license keys* for each of your translation providers.

To set up the keys:

1. Log in to OWCS and click the **Clay Tablet Dashboard** application icon .
2. Under **Configuration**, click **Translation Providers**.

   The **Translation Providers Configuration** page opens.

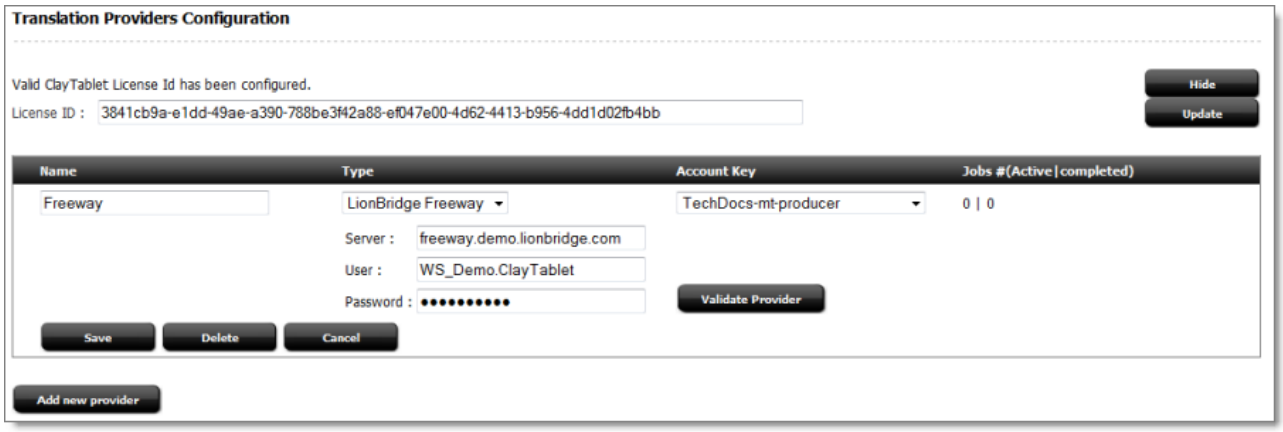


3. In the **License ID** field, enter the license key you obtained from Clay Tablet.
4. Click **Add**.

   The license key is hidden, and instead, `Valid Clay Tablet License ID has been configured` is displayed.

   Now you are ready to add and configure the translation providers.
5. Click **Add new provider**.

   The page expands.



6. Add the following information about the translation provider:

Field	Description
Name	Your company's name for the translation provider. This name will be displayed when users select a translation provider while sending out content for translation.

Field	Description
Type	Select one of the following translation providers: ■ Generic ■ Lionbridge Freeway ■ Lionbridge TMS ■ SDL WorldServer ■ SDL TMS ■ Sajan **Notes:** If your translation provider is not displayed in the list, select `Generic`. If you select `Lionbridge Freeway`, you can configure additional server connection information in additional fields, which are displayed below. This enables users to specify additional information, such as the project name, PO reference, special instructions, and analysis codes, when sending out content for translation. For details, refer to the *Clay Tablet Connector for Oracle WebCenter Sites User Guide*.
Account Key	Select an account key for this translation provider from the list. Keys that are already in use are grayed out and they are not available for selection. **Note:** Clay Tablet configures these keys. If you do not see any keys available, please contact Clay Tablet.
The following fields and button are displayed only if `Lionbridge Freeway` is selected as **Type**, above.	
Server	The URL of the Freeway server.
User	The login name for the Freeway server.
Password	The login password for the Freeway server.
Validate Provider	Click this to test the Freeway login credentials, above. After testing, a message above the button indicates whether the credentials passed the test.

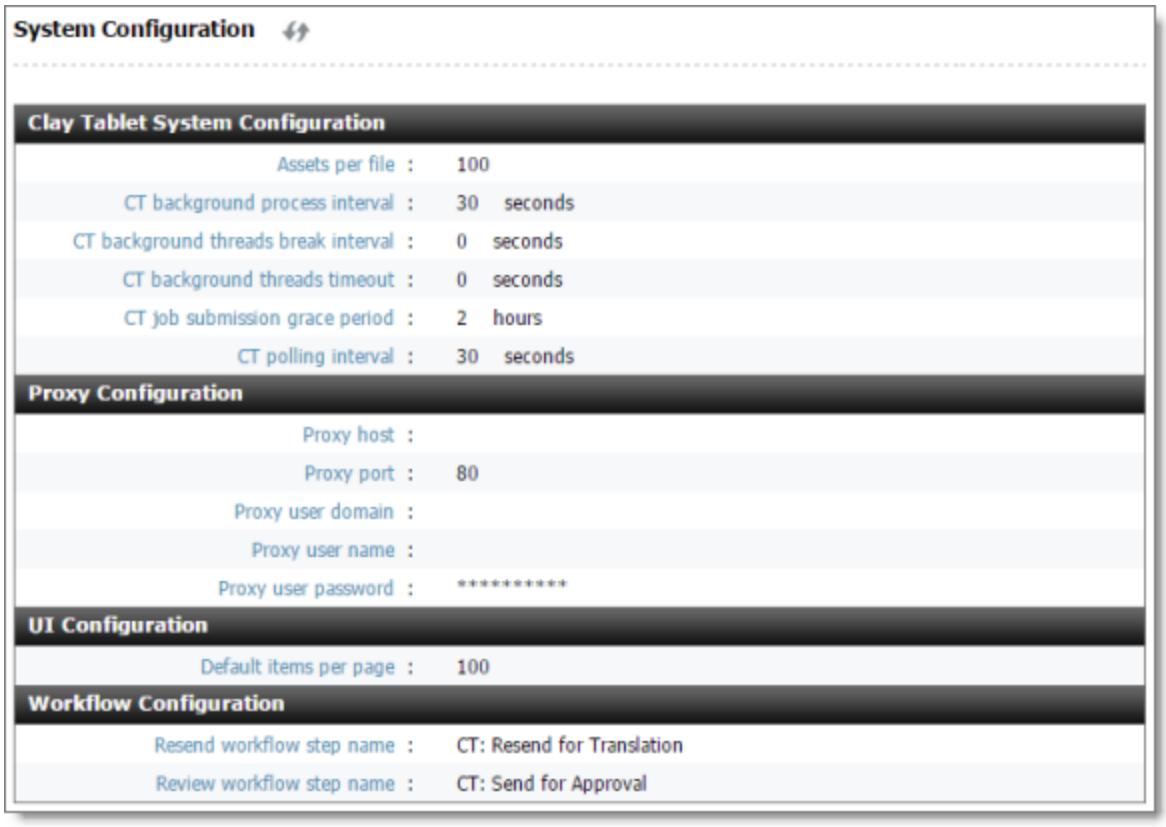
7. Click **Save**.
8. Repeat the previous three steps for each translation provider you add.

4.5 Configuring Global Connector Settings

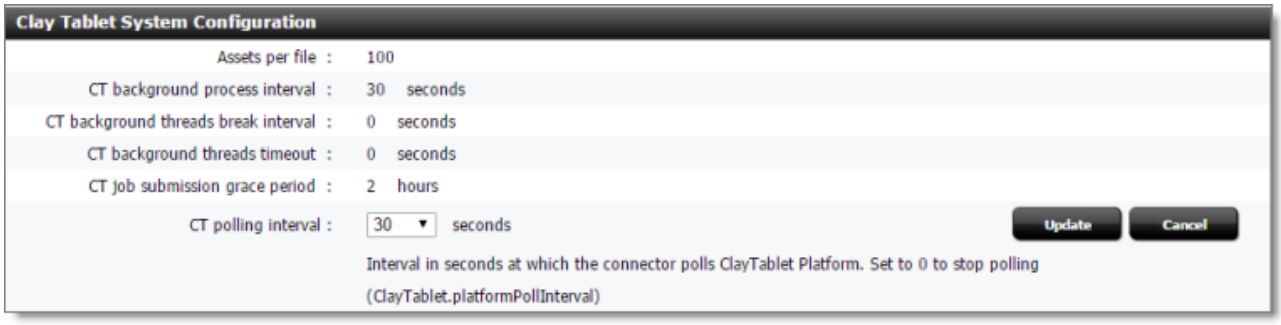
You can configure global Connector settings on the System Configuration page:

1. Log in to OWCS and click the **Clay Tablet Dashboard** application icon .
2. Under **Configuration**, click **System Configuration**.

   The **System Configuration** page opens.



3. To edit a configuration value, click the setting name, which is a link. For example, click **CT polling interval**. The page now displays a description of the configuration parameter and the name of the parameter in the configuration file.



4. Change the value of the configuration parameter.
5. After you edit the value, click **Update**.

Note: You can also edit these parameters in the configuration file.

The following table lists the configuration values and their descriptions:

Setting Name	Description	Sample Value	Paramater Name in the Configuration File
Clay Tablet System Configuration section			
Assets per file	The maximum number of assets in each XML file that the Connector sends out for translation.	100	ClayTablet.maxReqsPerFile
CT background process interval	The interval, in seconds, during which the Connector processes jobs in the background to send to the Clay Tablet Platform. Set to 0 to stop sending jobs. **Note:** If you do not want the Connector to send jobs to the Clay Tablet Platform, set this value to zero (`0`).	30 seconds	WCS.backgroundProcessInterval
CT background threads break interval	The interval, in seconds, that the Connector's background thread must wait before resuming a long-running process that has timed out.	0 seconds	WCS.backgroundThreadsBreakInterval
CT background threads timeout	The duration, in seconds, that the Connector's background thread can run before it breaks and returns control to OWCS. To enable the background threads to run indefinitely, set this value to zero (`0`).	0 seconds	WCS.backgroundThreadsTimeout
CT job submission grace period	The maximum amount of time, in hours, allowed for the content for translation to reach the translation provider. After this period passes, if the asset still does not have the `IN_TRANSLATION` status, then its status changes to `Error`.	24 hours	ClayTablet.jobSubmissionGracePeriod

Setting Name	Description	Sample Value	Paramater Name in the Configuration File
CT polling interval	The frequency, in seconds, that the Connector checks the Clay Tablet Platform for new translations. **Note:** If you do not want the Connector to check the Clay Tablet Platform for new translations, set this value to zero (0).	30 seconds	ClayTablet.platformPollInterval
Proxy Configuration section Optional. If the host OWCS instance requires a proxy server to connect to the Internet, configure these settings so that the Connector will also use the proxy server to connect to the Clay Tablet Platform, which is hosted on AWS.			
Proxy host	The host name of the proxy server for connecting to the Clay Tablet Platform. If you are not using a proxy server, leave this blank.		ClayTablet.proxyHost
Proxy port	The port number of the proxy server for connecting to the Clay Tablet Platform.		ClayTablet.proxyPort
Proxy user domain	If the proxy server requires a login, this is its domain name.		ClayTablet.proxyDomain
Proxy user name	If the proxy server requires a login, this is the username that logs in.		ClayTablet.proxyUser
Proxy user password	If the proxy server requires a login, this is the password for the username that logs in.		ClayTablet.proxyPassword
UI Configuration section			

Setting Name	Description	Sample Value	Paramater Name in the Configuration File
Default items per page	The maximum number of items to display per page in the Job Details page or the Translation Queue in the Contributor interface . **Tip:** Depending on the number of assets you typically have in your queue and jobs, you may want to increase this to 100 or 250. The higher the number, the slower these pages will load.	10	WCS.maxItemsPerPage
Workflow Configuration section			
Resend workflow step name	The name of the workflow step for resending an existing asset for translation. **Important:** If you did not use the default name for this step when creating the workflow process, as described in "Creating the Workflow Process and Steps" on page 48, then you must change it here.	CT: Resend for Translation	WCS.workflowStepnameResend
Review workflow step name	The name of the workflow step for sending an asset for approval. **Important:** If you did not use the default name for this step when creating the workflow process, as described in "Creating the Workflow Process and Steps" on page 48, then you must change it here.	CT: Send for Approval	WCS.workflowStepnameReview

4.6 Configuring Connector Languages

Both OWCS and the Connector use a *locale* to define a language. A *locale* is a set of parameters that includes both a language identifier and a region identifier.

The Connector requires OWCS to operate in multilingual mode, because each asset must have a locale before it can be translated. There are two scenarios:

Note: *Site*, below, refers to the OWCS content-management site, and not the website that the visitors access.

- The site is unilingual, so a locale is not assigned to the assets. You must assign locales to the assets before you can send them out for translation. In this scenario, you must complete the following steps:

  1. Add new OWCS locales to the Connector, and enable them on the site, as described in "Adding a New OWCS Locale to the Connector" on page 35.

     Recommendation: Use the standard convention of `languagecode_territorycode` to create an OWCS locale. This facilitates the default mapping of your locale to the Clay Tablet language code. For example, use the two-letter ISO 639-1 language code (such as `fr` for French) for `languagecode`, and use the two-letter ISO country code (such as `CA` for Canada) for `territorycode`.

  2. Map the OWCS locales to the Clay Tablet language codes, as described in "Mapping OWCS Locales to Clay Tablet Languages" on page 37. For detailed instructions on creating locales in OWCS, refer to the appropriate version of the OWCS documentation at http://www.oracle.com/technetwork/middleware/webcenter/sites/documentation/index.html.

     Note: If you leave the Clay Tablet language code empty, the Connector creates a default mapping.

  3. Assign the assets and asset types in an OWCS site to a locale, as described in "Assigning an OWCS Locale to Sites, Asset Types, and Assets" on page 39.

- The site is already multilingual, like `FirstSiteII`:

  - If the locales use the standard convention of `languagecode_territorycode`, additional steps may not be required.
  - If the locales *do not* use the standard convention of `languagecode_territorycode`, you must map the OWCS locales to the Clay Tablet language codes, as described in "Mapping OWCS Locales to Clay Tablet Languages" on page 37.

4.6.1 Adding a New OWCS Locale to the Connector

As described in "Configuring Connector Languages" on page 34, all assets in OWCS require a locale so that you can send them out for translation. The OWCS locale maps to a Clay Tablet language code.

For detailed instructions on creating locales in OWCS, refer to the appropriate version of the OWCS documentation at http://www.oracle.com/technetwork/middleware/webcenter/sites/documentation/index.html.

Recommendation: Use the standard convention of `languagecode_territorycode` to create an OWCS locale. This facilitates the default mapping of your locale to the Clay Tablet language code. For example, use the two-letter ISO 639-1 language code (such as `fr` for French) for `languagecode`, and use the two-letter ISO country code (such as `CA` for Canada) for `territorycode`.

To add a new OWCS language to the Connector:

1. Log in to OWCS and click the **Clay Tablet Dashboard** application icon .

   The Clay Tablet Dashboard opens.

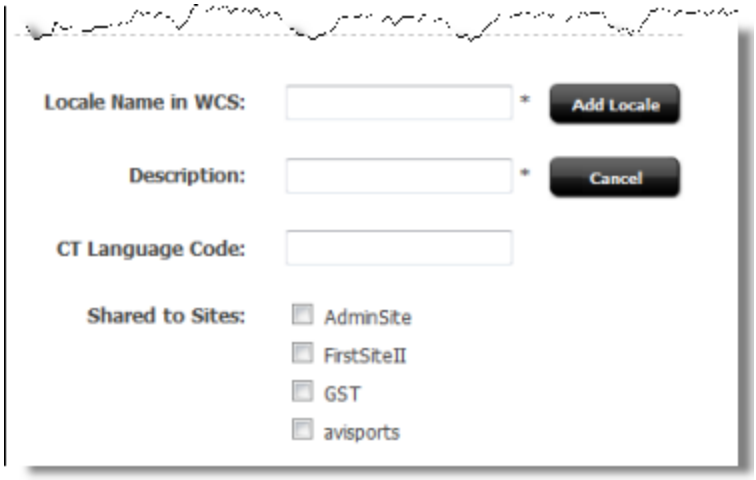
2. Do one of the following:

   - Under **Locale Tools**, click **Locales and Locale Mapping**.
   - Click the **Enable Locales** menu item.

   The **Locales and Locale Mapping** page opens. For a description of this page, see page 37.

3. At the top-right corner of the page, click **Add New Locale**.

   The page expands.



4. Enter the following information about the locale to add to the Connector:

Field	Description
Locale Name in WCS	The name of the locale in OWCS. For detailed instructions on creating a locale in WCS and enabling the Locale subtype of the `Dimension` asset type on your site, refer to the OWCS documentation, available at: http://www.oracle.com/technetwork/middleware/webcenter/sites/documentation/index.html. **Recommendation:** Use the standard convention of `languagecode_territorycode` to create an OWCS locale. This facilitates the default mapping of your locale to the Clay Tablet language code. For example, use the two-letter ISO 639-1 language code (such as `fr` for French) for `languagecode`, and use the two-letter ISO country code (such as `CA` for Canada) for `territorycode`.

Field	Description
Description	A description of the locale.
CT Language Code	The corresponding Clay Tablet language code. **Note:** If you leave the Clay Tablet language code empty, the Connector creates a default mapping.
Shared to Sites	Select the OWCS sites for applying this locale.

5. Click **Add Locale**.

4.6.2 Mapping OWCS Locales to Clay Tablet Languages

All assets in OWCS require a locale so that you can send them out for translation, as described in "Configuring Connector Languages" on page 34. The OWCS locale maps to a Clay Tablet language code.

For detailed instructions on creating locales in OWCS, refer to the appropriate version of the OWCS documentation at http://www.oracle.com/technetwork/middleware/webcenter/sites/documentation/index.html.

Recommendation: Use the standard convention of `languagecode_territorycode` to create an OWCS locale. This facilitates the default mapping of your locale to the Clay Tablet language code. For example, use the two-letter ISO 639-1 language code (such as `fr` for French) for `languagecode`, and use the two-letter ISO country code (such as `CA` for Canada) for `territorycode`.

To map OWCS languages to Connector languages:

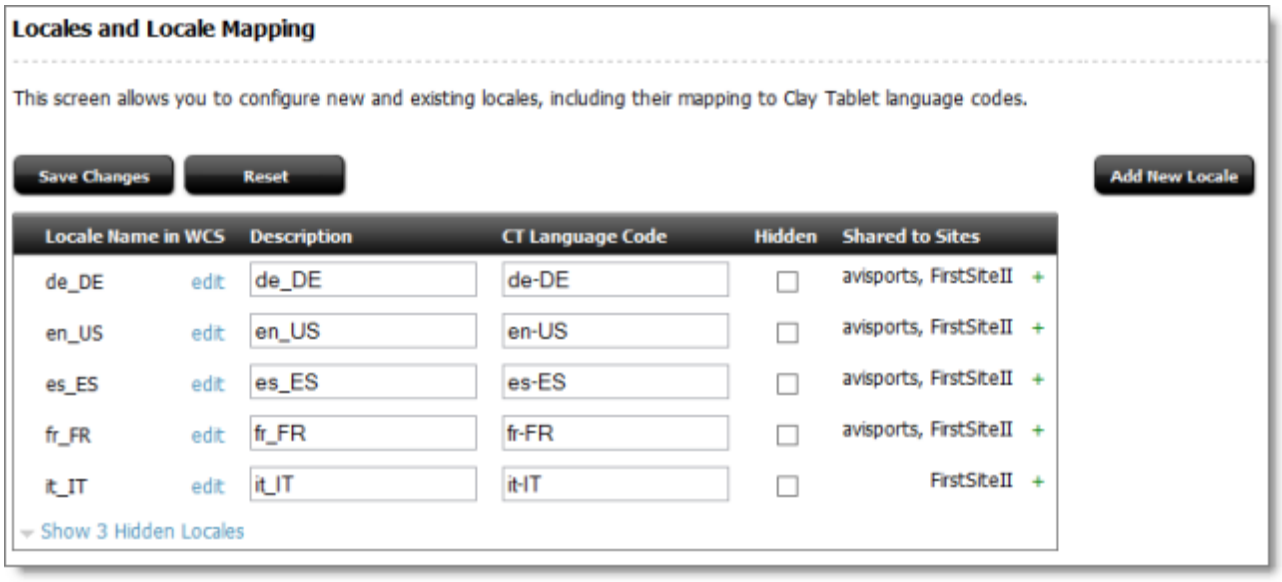
1. Log in to OWCS and click the **Clay Tablet Dashboard** application icon .

   The Clay Tablet Dashboard opens.

2. Do one of the following:

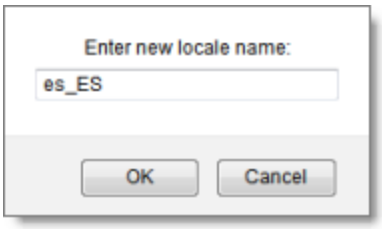
   - Under **Locale Tools**, click **Locales and Locale Mapping**.
   - Click the **Enable Locales** menu item.

   The Locales and Locale Mapping page opens.



3. Optional. To edit the OWCS locale:
   a. Click the corresponding **edit** link.

      The **Enter new locale name** dialog box opens.



   b. Enter an new name for the OWCS locale, and click **OK**. For detailed instructions on creating a locale in OWCS and enabling the Locale subtype of the `Dimension` asset type on your site, refer to the OWCS documentation, available at: http://www.oracle.com/technetwork/middleware/webcenter/sites/documentation/index.html.

      Recommendation: Use the standard convention of `languagecode_territorycode` to create an OWCS locale. This facilitates the default mapping of your locale to the Clay Tablet language code. For example, use the two-letter ISO 639-1 language code (such as `fr` for French) for `languagecode`, and use the two-letter ISO country code (such as `CA` for Canada) for `territorycode`.

4. In the **CT Language Code** field, enter the Clay Tablet language code. For a list of Clay Tablet language codes, see "Appendix: Language Codes" on page 59.

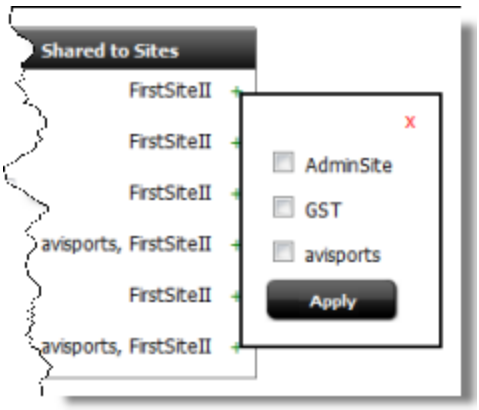
   Note: If you leave the Clay Tablet language code empty, the Connector creates a default mapping.

5. Optional. You can hide locales that are not frequently used so that by default they are not displayed on this page or when selecting target locales while collecting assets for translation. To hide a locale so that it is not displayed by default, select the corresponding check box in the **Hidden** column.

Tip: To display hidden locales, click the **Show X Hidden Locales** link at the bottom-left corner of the page, where X is the number of hidden locales. The previously hidden locales are displayed at the bottom of the page. To hide them again, click the **Hide X Locales** link.

6. Optional. Share the OWCS locale and mapping to a Connector language with additional OWCS sites.
   a. Click the **Add more sites** icon .

      A dialog box opens.



   b. Select the check boxes for the additional OWSC sites where you want to apply this OWCS locale, and click **Apply**.

   Until you save your changes, the OWCS sites you added are displayed in red.

7. When you are done, click **Save Changes**, at the top of the page.

4.6.3 Assigning an OWCS Locale to Sites, Asset Types, and Assets

As described in "Configuring Connector Languages" on page 34, an OWCS site must be assigned to an OCWS locale, which maps to a Clay Tablet language code, so that you can send assets from that site out for translation. You can map a specific OWCS site and asset types, and assets within that site to a specific OWCS locale. This means that the corresponding Clay Tablet language code is supported in the Connector as either a source language or a target language.

Note: By default, an OWCS site is unilingual, so there is no locale enabled. You must ensure that you enable locales to support a multilingual site with multiple locales. This means that the target site must have the Dimension asset type enabled. Do not complete this section until you have created OWCS locales and mapped them to Clay Tablet languages.

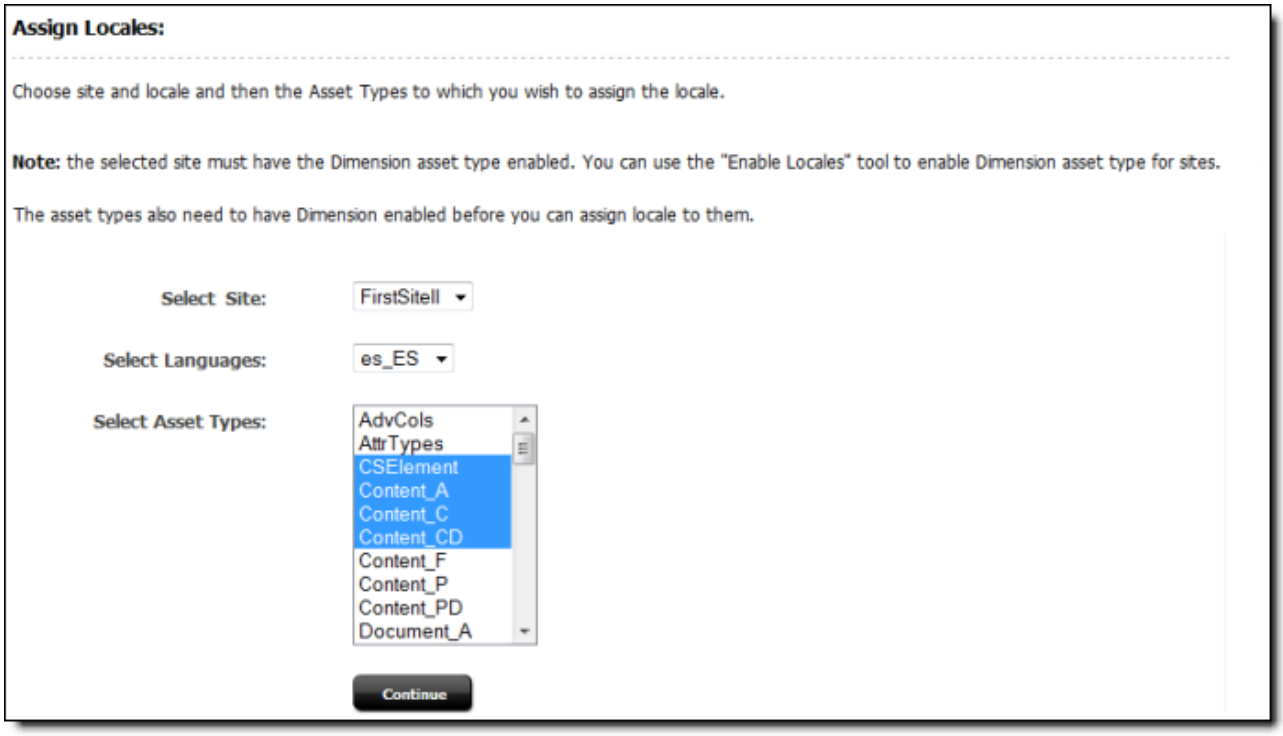
To assign an OWCS locale to asset types and assets for a specific OWCS site:

1. Log in to OWCS and click the **Clay Tablet Dashboard** application icon .

   The Clay Tablet Dashboard opens.

2. Do one of the following:
   - Under **Locale Tools**, click **Assign Locales to Assets**.
   - Click the **Assign Locales** menu item.

   The **Assign Locales** page opens.

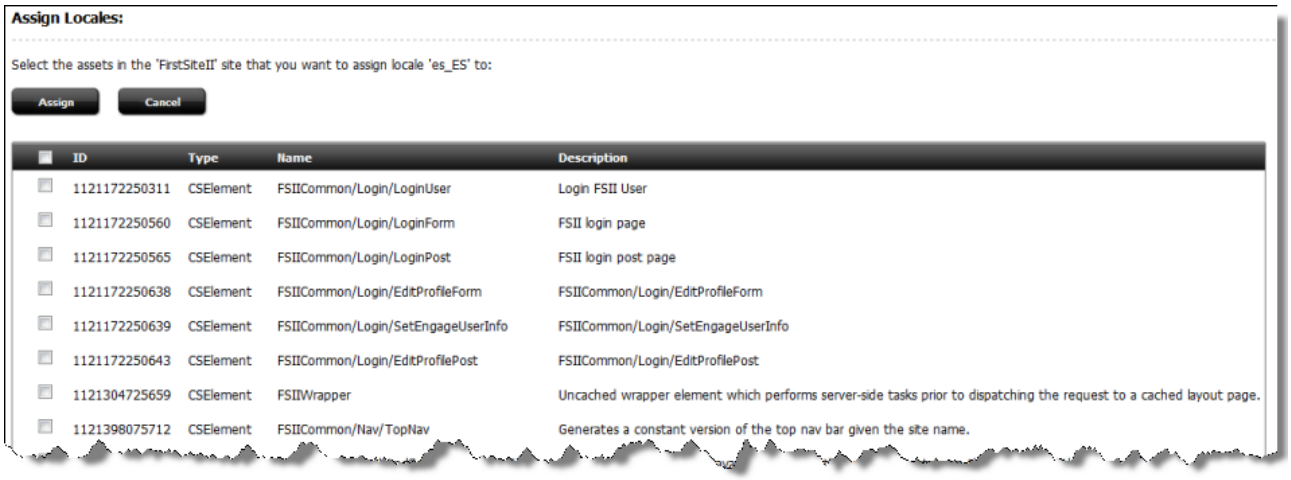


3. In the **Select Site** list, select a site.
4. In the **Select Languages** list, select the locale of the language.

   Note: You can repeat this procedure for additional target sites.
5. In the **Select Asset Types** list, select one or more asset types from the list, so that they are highlighted.
   - To select multiple contiguous asset types, press the `Shift` key.
   - To select multiple non-contiguous asset types, press the `Ctrl` key.
6. Click **Continue**.

   A message confirms that the locale was assigned to the specified assets and sites.
7. Click **OK**.

   The **Assign Locales** page updates itself to display all the assets of the specified asset types for the target site.



The following information is displayed about each asset:

Column	Description
ID	The unique identifier of the asset.
Type	The asset type of the asset.
Name	The name of the asset.
Description	Optional. The description of the asset.

8. Select the check boxes for the assets to which you want to assign the specified target language in the specified target site. This means that all selected assets in the specified site can be translated into the specified target language.
9. Click **Submit**.

   The page updates again and the following message is displayed: `Assets updated successfully.`

4.7 Configuring Purchase Order Numbers

You can configure the Connector so that a purchase order ("PO") is required whenever you send out content for translation. This is a site-specific configuration. You must also enter the PO numbers that will be available for selection when sending out assets for translation.

Important: If you do not configure this feature, users cannot specify a PO when sending out assets for translation.

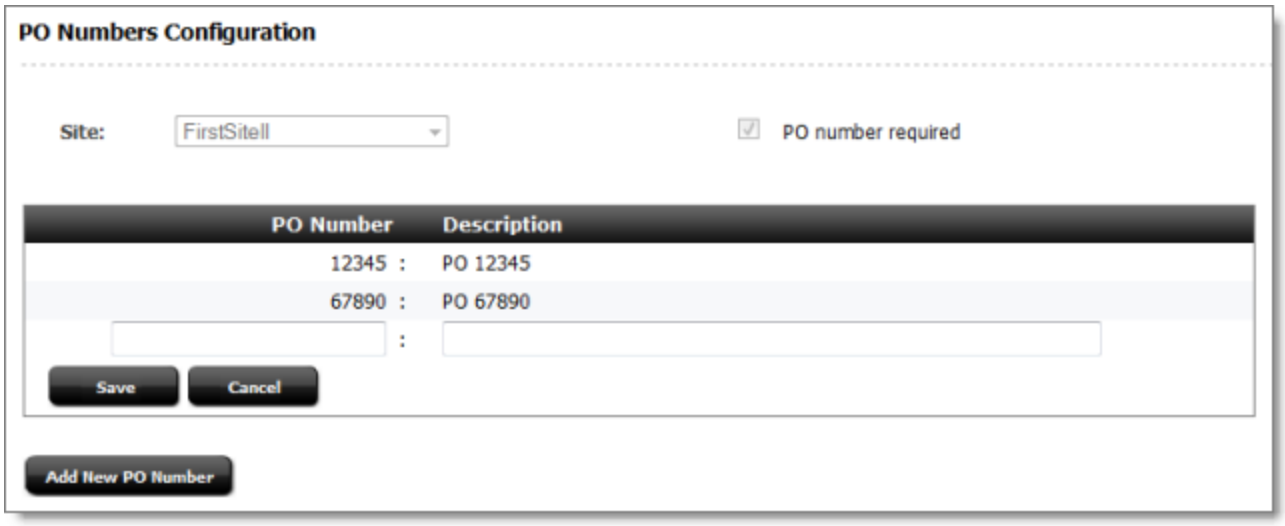
To configure purchase-order numbers:

1. Log in to OWCS and click the **Clay Tablet Dashboard** application icon .
2. Under **Configuration**, click **PO Numbers Configuration**.

   The **PO Numbers Configuration** page opens.
3. Optional. Select the **PO number required** check box.
   - If you select this check box, a PO number is required when sending out assets for translation.
   - If this check box is cleared, a PO number is optional when sending out assets for translation.

   The message `Change saved` is displayed in green for a few seconds.
4. Click **Add New PO Number**.

   The page expands.



5. Add a new PO number:
   a. In the **PO Number** column, enter the PO number.
   b. In the **Description** column, enter the description of the PO number.
   c. Click **Save**.

      The message `Change saved` is displayed in green for a few seconds.
6. Repeat the previous step for each PO number to add.

4.8 Managing Your Configurations

Optional. You can export your configuration settings to an XML file for backup and recovery purposes. You can also import the settings into another OWCS instance.

An exported configuration file includes the following settings:

- system configuration
- site configuration
- PO (purchase order) number configuration
- locale mapping
- license ID

Notes: Only changes to the default factory settings are exported – the default factory settings are not exported. Configured translation providers are not exported. For security reasons, passwords are not usable if the configuration file is imported into an instance that is not the original instance from which it was exported. If you import the configuration settings into a different instance, you must re-enter the passwords.

To export your Connector configuration as an XML file:

1. Log in to OWCS and click the **Clay Tablet Dashboard** application icon .
2. Under **Utilities**, click **Export Configurations**.

   The **Export Configuration** page opens.
3. Click the **Export Configurations** link at the bottom of the page.

   Your Web browser prompts you to open or save the XML configuration file. The default file name is `CT_OWCS_Config<date>-<time>.xml`, where:

   - *date* is the day the file was exported, in `YYYYMMDD` format
   - *time* is the time the file was exported, in `HHmmss` format, in GMT

To import a Connector configuration file into an OWCS instance:

1. Log in to OWCS and click the **Clay Tablet Dashboard** application icon .
2. Under **Utilities**, click **Import Configurations**.

   The **Import Configuration** page opens.
3. Click **Browse**, navigate to the XML configuration file to import, select it, and click **Open** or similar in your browser's dialog box.
4. Click **Submit**.

   A message box opens, confirming that you want to import the configuration file and overwrite your current configuration.

5. Optional. Select or clear the **Merge with existing configuration** check box. (It is selected by default.)
   - Select this check box to merge the imported configuration with your current configuration. This overwrites configuration settings that were previously exported, but it does not modify configuration settings that were previously not exported. This enables you to import individual settings from one OWCS instance to another without overwriting other settings.
   - Clear this check box to overwrite your current configuration. This is useful when cloning the settings of one OWCS instance in another instance.
6. Click **OK** to proceed.

   The **Import Configuration** page confirms that the configuration file was successfully imported, and the configuration was updated for the specified sites.

5 Configuring Workflow

You can configure a workflow process, steps, and states for your site in the **Admin** interface . If properly configured:

- When you send out assets for translation, you specify the workflow process, and the target OWCS asset is inserted into the workflow in the `CT: Pending Translation` state.
- When the translated asset returns from translation, the OWCS asset automatically advances to the `CT: Translated, Pending Approval` state.
- When you resend the asset for translation, it reverts to the `CT: Pending Translation` state.

To configure a workflow, you perform the following general steps:

1. In the sites where you will enable the workflow, assign the `CTUser` role to the `DefaultReader` and `ContentReader` users. The background process uses these users to advance the workflow between steps. For detailed instructions, see "Assigning the CTUser Role to Users" on page 45.
2. In the sites where you will enable the workflow, assign the `CTUser` role to the users who will use the workflow. The instructions are similar to those in the previous step.
3. In the sites where you will enable the workflow, assign the `CTAdmin` role to the users who will set up the workflow and reassign assets that get stuck in the workflow to other users. The instructions are similar to those in step 1.
4. Log in to OWCS as a user to whom you assigned the `CTAdmin` role, so that you can set up the workflow.
5. Create the `CT: Pending Translation` and `CT: Translated, Pending Approval` workflow states. For detailed instructions, see "Creating the Workflow States" on page 46.
6. Create the `CT: Approval for Content` workflow process and the four steps within it. For detailed instructions, see "Creating the Workflow Process and Steps" on page 48.
7. If you did not use the default names for the `CT: Resend for Translation` and `CT: Send for Translation` steps, then in the **Clay Tablet Dashboard** interface , change these names also in the System Configuration page, as described in "Configuring Global Connector Settings" on page 30.

5.1 Assigning the CTUser Role to Users

In the sites where you will enable the workflow,you assign the `CTUser` role to the `DefaultReader` and `ContentReader` users. The background process uses these users to advance the workflow between steps.

To assign the CTUser role to the DefaultReader and ContentReader users:

1. Log in to OWCS and click the **Admin** application icon .

Important: Ensure that Java is up to date and running, and that you create a security exception that allows Java to run in the **Admin** interface.

2. In the dropdown list in the top-right corner, select `AdminSite`, if it is not already selected.
3. Click the **Users** menu.

   The **Users** page opens.
4. Assign the `CTUser` role to the system `ContentReader` user in the site where your workflow is enabled.
   a. Mouseover the `ContentReader` user, and select **Manage User** from the context menu that opens.

      The **Manage User** page opens.
   b. Click **Assign to Sites**.

      The **Select Sites for User** page opens.
   c. In the **Available** column, select your site, and click the arrow to move it to the **Selected** column. For example, select the `FirstSiteII` site.
   d. Click **Continue**.

      The **Assign Roles to User** page opens.
   e. In the **Available** column, select the `CTUser` role, and click the arrow to move it to the **Selected** column.
   f. Click **Save and Close**.

   The **Manage User** page reopens, displaying a green check mark and the message `SuccessUser assignment successful` at the top of the page.
5. Repeat the previous step to assign the `CTUser` role to the system `DefaultReader` user in the site where your workflow is enabled.

5.2 Creating the Workflow States

You create the following workflow states:

Workflow State	Description
CT: Pending Translation	An asset is in this state when you add it to the workflow process, before it is translated.
CT: Translated, Pending Approval	An asset is in this state after it is translated, and before the translation is approved.

The steps in the workflow process you create later will move the assets into and out of these states.

Note: You must use the default names of the workflow states: `CT: Pending Translation` and `CT: Translated, Pending Approval`.

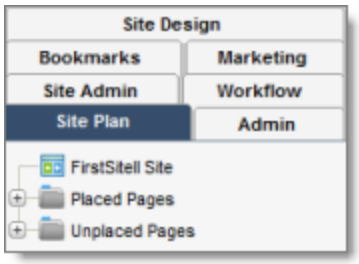
To create the workflow states:

1. Log in to OWCS and click the **Admin** application icon .

   Important: Ensure that Java is running, and that you create a security exception that allows Java to run in the **Admin** interface. You can do this by opening the **Java Control Panel** and in the **Security** tab, adding the URL of your OWCS instance, which may include a port number, to the **Exception Site List**.

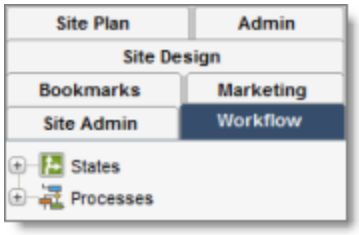
2. In the dropdown list in the top-right corner, select the relevant site.

   The Admin menu (a Java applet) is displayed in the left pane.



3. In the menu in the left pane, click the **Workflow** tab.

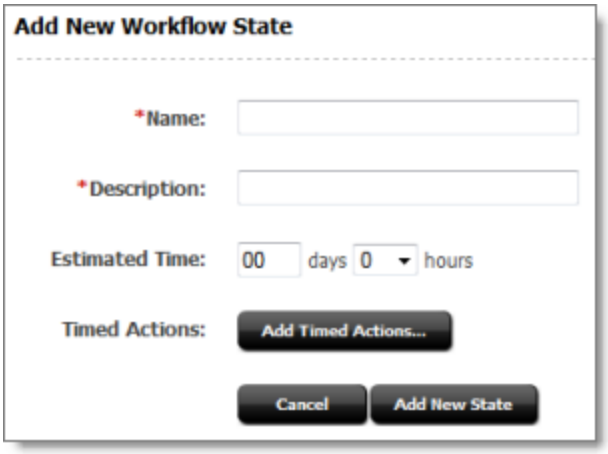
   The **States** and **Processes** trees are displayed below the tab.



4. Create the `CT: Pending Translation` state:

   a. Expand the **States** tree, and double-click **Add New**.

   The **Add New Workflow State** page opens.



b. In the **Name** field, type `CT: Pending Translation`.

c. In the **Description** field, type `CT: Pending Translation`.

d. Click **Add New State**.

e. If a warning message asks if you want to block the tree applet, click **No**.

A confirmation message confirms that you created the state, and the new state is now displayed in the **State** tree.

5. Repeat the previous step to create the `CT: Translated, Pending Approval` states, substituting `CT: Translated, Pending Approval` in sub-steps b and c.

5.3 Creating the Workflow Process and Steps

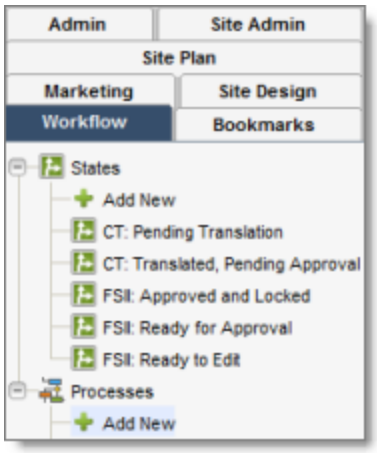
Create the `CT: Approval for Content` workflow process. While creating this process, you will also create the following four workflow steps:

Workflow Step	Description
CT: Send for Translation	This step moves assets into the workflow in the `CT: Pending Translation` state, where they have not been translated.
CT: Send for Approval	This step moves assets from the `CT: Pending Translation` state, where they have not been translated, into the `CT: Translated, Pending Approval` state, where the assets have been translated, but they have not yet been reviewed.
CT: Approve Translation	This step moves assets from the `CT: Translated, Pending Approval` state, where they have not been translated but not yet reviewed, out of the workflow. If your company has an existing workflow, instead of moving assets out of the translation workflow, you can add custom steps to include that workflow. For example, you can add another step to the workflow to require legal approval of content. **Note:** This workflow step is not related to approving translations in the Contributor interface.
CT: Resend for Translation	This step sends assets that have already been translated back to translation. This step ois useful if the translation is not satisfactory or if many changes are required.

To create the CT: Approval for Content workflow process and the four steps:

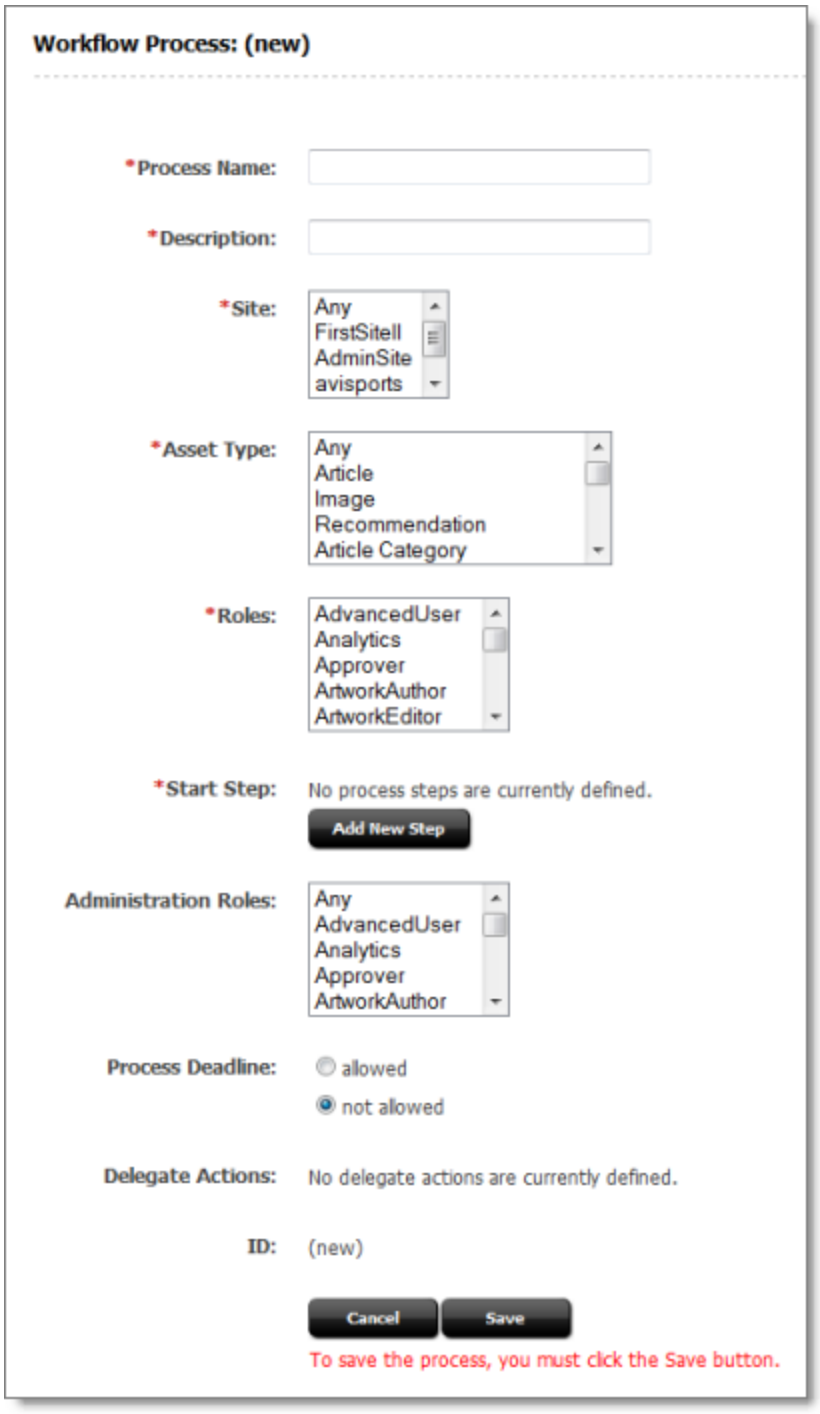
1. In the menu in the left pane, ensure that the **Workflow** tab is selected.

   The **States** and **Processes** trees are displayed below the tab.



2. Expand the **Processes** tree, and double-click **Add New**.

   The **Workflow Process (New)** page opens.



3. Enter the following information about the workflow process:

Field	Description	Value to Enter or Select
Process Name	The name of the workflow process.	`CT: Approval for Content`

Field	Description	Value to Enter or Select
Description	The description of the workflow process.	`CT: Approval for Content`
Site	The sites where this workflow process will be enabled.	To enable this workflow process on all sites, select `Any`. Otherwise, select the desired sites. Use the `Shift` or `Ctrl` buttons to select multiple sites.
Asset Type	The types of assets that users can put into this workflow.	To enable this workflow process on all asset types, select `Any`. Otherwise, select the desired asset types. Use the `Shift` or `Ctrl` buttons to select multiple asset types.
Roles	Only users assigned to this role can move assets through this workflow.	`CTUser`
Start Step	Enables you to create steps within the workflow process.	Do not click the **Add New Step** button yet. This is described in the following step.
Administration Roles	Only users assigned to this role can set up this workflow. If assets get stuck in this workflow, for example, if assets are assigned to someone who is on vacation, then users with this role can reassign assets in this workflow to another user.	`CTAdmin`
Process Deadline	This option enables users to assign deadlines for completing the steps in the workflow by a specified deadline, and to create timed actions, such as sending out email notifications two days before the due date.	If you are not sure what to do, you can leave this as the default setting.
Delegate Actions	This option enables users to delegate an assigned action to someone else.	If you are not sure what to do, you can leave this as the default setting.
ID	This will be automatically assigned when you finish creating the process.	

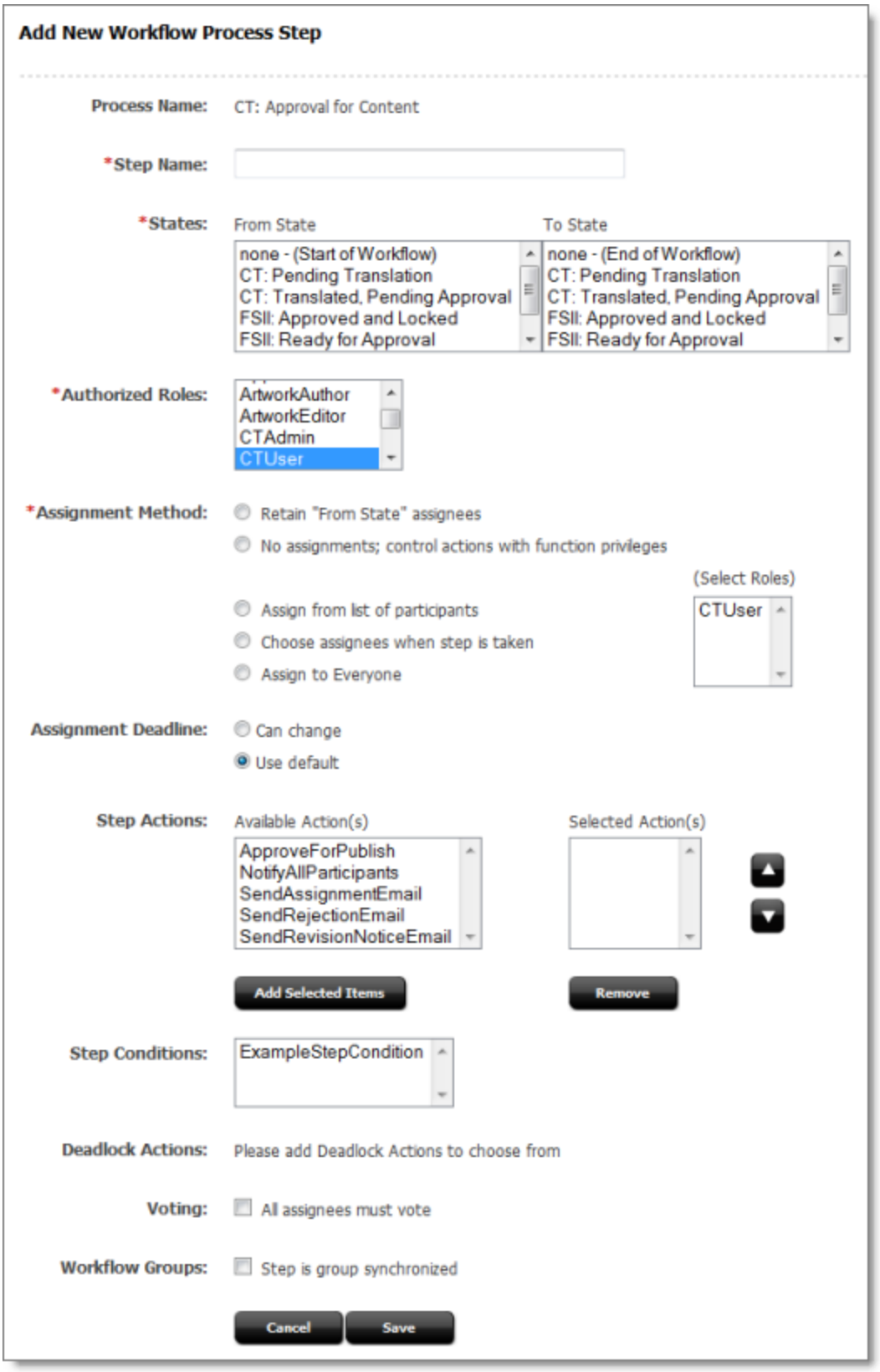
For general information about these settings, refer to the appropriate version of the OWCS documentation at http://www.oracle.com/technetwork/middleware/webcenter/sites/documentation/index.html.

Important: You cannot save this process until you add at least one step, as described below.

Note: In the following procedural steps, you can configure **Step Actions** on any workflow step, for example, to send email notifications.

4. Create the `CT: Send for Translation` step.
   a. Under **Start Step**, click **Add New Step**.

      The **Add New Workflow Process Step** page opens.


Add New Workflow Process Step
Process Name:
CT: Approval for Content
*Step Name:
*States:
From State
To State
none - (Start of Workflow)
CT: Pending Translation
CT: Translated, Pending Approval
FSII: Approved and Locked
FSII: Ready for Approval
none - (End of Workflow)
CT: Pending Translation
CT: Translated, Pending Approval
FSII: Approved and Locked
FSII: Ready for Approval
*Authorized Roles:
ArtworkAuthor
ArtworkEditor
CTAdmin
CTUser
*Assignment Method:
Retain "From State" assignees
No assignments; control actions with function privileges
Assign from list of participants
Choose assignees when step is taken
Assign to Everyone
(Select Roles)
CTUser
Assignment Deadline:
Can change
Use default
Step Actions:
Available Action(s)
Selected Action(s)
ApproveForPublish
NotifyAllParticipants
SendAssignmentEmail
SendRejectionEmail
SendRevisionNoticeEmail
Add Selected Items
Remove
Step Conditions:
ExampleStepCondition
Deadlock Actions:
Please add Deadlock Actions to choose from
Voting:
All assignees must vote
Workflow Groups:
Step is group synchronized
Cancel
Save

b. In the **Step Name** field, type `CT: Send for Translation`.
c. In the **States - From State** list, select `none - (Start of Workflow)`.
d. In the **States - To State** list, select `CT: Pending Translation`.
e. In the **Authorized Roles** list, select `CTUser`.
f. In the **Assignment Method** list, click `Choose assignees when step is taken`.
g. In the **Select Roles** list, select `CTUser`.
h. For all other fields, you can accept the default values.
i. Click **Save**.

The **Steps for Workflow Process: CT: Approval for Content** page opens.

5. Create the `CT: Send for Approval` step.
   a. Click **Add New Step**.

      The **Add New Workflow Process Step** page opens.
   b. In the **Step Name** field, type `CT: Send for Approval`.

      Note: If you change this name, you must also change it in the System Configuration page, as described in "Configuring Global Connector Settings" on page 30.
   c. In the **States - From State** list, select `CT: Pending Translation`.
   d. In the **States - To State** list, select `CT: Translated, Pending Approval`.
   e. In the **Authorized Roles** list, select `CTUser`.
   f. In the **Assignment Method** list, click `Retain "From State" assignees`.
   g. For all other fields, you can accept the default values.
   h. Click **Save**.

   The **Steps for Workflow Process: CT: Approval for Content** page updates.

6. Create the `CT: Approve Translation` step.
   a. Click **Add New Step**.

      The **Add New Workflow Process Step** page opens.
   b. In the **Step Name** field, type `CT: Approve Translation`.
   c. In the **States - From State** list, select `CT: Translated, Pending Approval`.
   d. In the **States - To State** list, select `none - (End of Workflow)`.

      Note: Alternatively, you can create a custom state and highlight it here, instead of the workflow. This is useful if you want to add another step to integrate into an existing workflow, for example, a review by your legal department. However, if you create a custom state for legal review, and you enable that reviewer to send the asset back to translation, you should also create a corresponding step to resend assets to translation from that custom state. For example, suppose you create the `CT: Legal Approve Translation` step, which changes the asset from the custom `CT: Translation Approved` state to `none - (End of Workflow)`. You should also create the custom `CT: Legal Resend for`

`Translation` step, which changes the state from your custom `CT: Translation Approved` state back to the `CT: Pending Translation` state. This is similar to step 7, below.

e. In the **Authorized Roles** list, select `CTUser`.

f. In the **Assignment Method** list, click `Retain "From State" assignees`. because it is a required field, although it will be ignored because it is the end of the workflow.

g. For all other fields, you can accept the default values.

h. Click **Save**.

The **Steps for Workflow Process: CT: Approval for Content** page opens.

7. Create the `CT: Resend for Translation` step.

a. Click **Add New Step**.

The **Add New Workflow Process Step** page opens.

b. In the **Step Name** field, type `CT: Resend for Translation`.

Note: If you change this name, you must also change it in the System Configuration page, as described in "Configuring Global Connector Settings" on page 30.

c. In the **States - From State** list, select `CT: Translated, Pending Approval`.

d. In the **States - To State** list, select `CT: Pending Translation`.

e. In the **Authorized Roles** list, select `CTUser`.

f. In the **Assignment Method** list, click `Retain "From State" assignees`.

g. For all other fields, you can accept the default values.

h. Click **Save**.

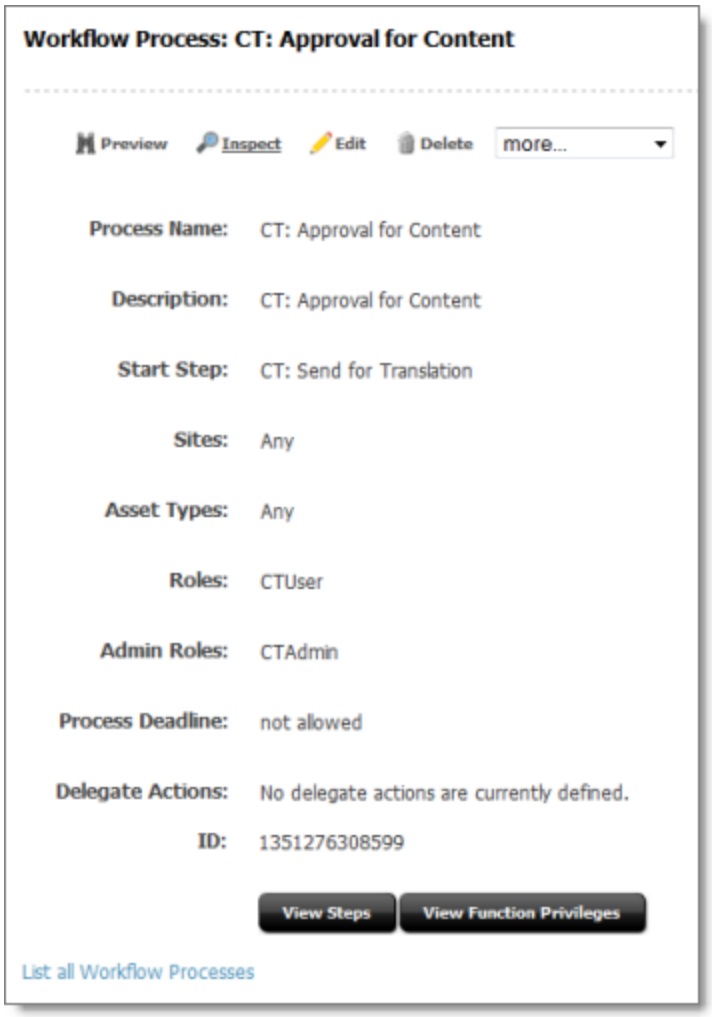
The **Steps for Workflow Process: CT: Approval for Content** page opens.

8. Click **Save**.

Important: If you skip this step, you will lose all your work creating the process and steps.

The following message is displayed: `Save successful. Additional actions required: Update the workflow participant list in any Start Menu that is using the workflow process.` You do not need to do this, because this is already integrated with the `CTUser` user role.

9. In the current page (now called **Workflow Process**), the top of the page is displayed as follows:



The values in the **Sites** and **Asset Types** fields may be different, depending on the values you specified earlier. The **ID** is a unique value assigned by OWCS.

10. To verify that you set up the steps properly, scroll down to the bottom of the page and click **View Steps**.

    The **Steps for Workflow Process: CT: Approval for Content** page opens.

11. Scroll down to the bottom of the page to display the step list, and verify that the steps you created match those in the following screen capture:

Step Name	From State	To State	Authorized	Assignees	Assignment Method	Assignment Dea
CT: Approve Translation	CT: Translated, Pending Approval	(End of Workflow)	CTUser	-	-	Use default
CT: Send for Translation	(Start of Workflow)	CT: Pending Translation	CTUser	CTUser	Choose assignees when step is taken	Use default
CT: Send for Approval	CT: Pending Translation	CT: Translated, Pending Approval	CTUser	Current assignees	Retain "From State" assignees	Use default
CT: Resend for Translation	CT: Translated, Pending Approval	CT: Pending Translation	CTUser	Current assignees	Retain "From State" assignees	Use default

- The **Actions**, **Conditions**, and **Deadlock Actions** columns to the right of those displayed in the above screen capture should display `None` in all rows.

- The **All Voting** and **Group Synchronized** columns to the right of those displayed in the above screen capture should display `false` in all rows.

Note: The `CT: Resend for Translation` and `CT: Send for Translation` steps can have different names. However, you must change these names also in the System Configuration page, as described in "Configuring Global Connector Settings" on page 30.

6 Pre-Production Testing

After you complete the configuration, your Clay Tablet Connector for Oracle WebCenter Sites installation is ready for testing. We recommend sending only a few pages for translation in one language as an initial test. For detailed instructions, refer to the*Clay Tablet Connector for Oracle WebCenter Sites User Guide*. Once successful, you can send as many languages as required.

Please coordinate with your translation provider for this test process.

If you have any concerns or questions, please contact Clay Tablet Support. For details, see "How to Contact Clay Tablet Support" on page 8.

7 Appendix: Language Codes

For detailed instructions on mapping OWCS locales to Clay Tablet languages, see "Mapping OWCS Locales to Clay Tablet Languages" on page 37.

The Clay Tablet Connector has the following language codes:

Language Identifier	Language Code
Afrikaans	"af-ZA"
Albanian	"sq-AL"
Amharic	"am-ET"
Arabic_Algeria	"ar-DZ"
Arabic_Bahrain	"ar-BH"
Arabic_Egypt	"ar-EG"
Arabic_Iraq	"ar-IQ"
Arabic_Jordan	"ar-JO"
Arabic_Kuwait	"ar-KW"
Arabic_Lebanon	"ar-LB"
Arabic_Libya	"ar-LY"
Arabic_MiddleEast	"ar-XR"
Arabic_Morocco	"ar-MA"
Arabic_Oman	"ar-OM"
Arabic_Qatar	"ar-QA"
Arabic_Saudi_Arabia	"ar-SA"
Arabic_Syria	"ar-SY"
Arabic_Tunisia	"ar-TM"
Arabic_UAE	"ar-AE"
Arabic_Yemen	"ar-YE"

Language Identifier	Language Code
Armenian	"hy-AM"
Assamese	"as-IN"
Basque	"eu-ES"
Belarusian	"be-BY"
Bengali_Bangladesh	"bn-BD"
Bengali_India	"bn-IN"
Bosnian_Bosnia_Herzegovina	"bs-BA"
Bulgarian	"bg-BG"
Burmese	"my-MM"
Catalan	"ca-ES"
Chinese_Hong_Kong	"zh-HK"
Chinese_Macao	"zh-MO"
Chinese_PRC	"zh-CN"
Chinese_Singapore	"zh-SG"
Chinese_Taiwan	"zh-TW"
Croatian	"hr-HR"
Croatian_Bosnia_Herzegovina	"hr-BA"
Czech	"cs-CZ"
Danish	"da-DK"
Divehi	"dv-MV"
Dutch	"nl-NL"
Dutch_Belgium	"nl-BE"
English_Australia	"en-AU"

Language Identifier	Language Code
English_Belize	"en-BZ"
English_Canada	"en-CA"
English_HongKong	"en-HK"
English_India	"en-IN"
English_Indonesia	"en-ID"
English_Ireland	"en-IE"
English_Jamaica	"en-JM"
English_Malaysia	"en-MY"
English_New_Zealand	"en-NZ"
English_Philippines	"en-PH"
English_Singapore	"en-SG"
English_South_Africa	"en-ZA"
English_Trinidad	"en-TT"
English_UK	"en-GB"
English_US	"en-US"
English_Zimbabwe	"en-ZW"
Estonian	"et-EE"
Faroese	"fo-FO"
Farsi	"fa-IR"
Filipino	"fil-PH"
Finnish	"fi-FI"
French	"fr-FR"
French_Belgium	"fr-BE"

Language Identifier	Language Code
French_Cameroon	"fr-CM"
French_Canada	"fr-CA"
French_Cote_d_Ivoire	"fr-CI"
French_Democratic_Rep_Congo	"fr-CD"
French_Haiti	"fr-HT"
French_Luxembourg	"fr-LU"
French_Mali	"fr-ML"
French_Monaco	"fr-MC"
French_Morocco	"fr-MA"
French_Reunion	"fr-RE"
French_Senegal	"fr-SN"
French_Switzerland	"fr-CH"
Frisian_Netherlands	"fy-NK"
Fulfulde_Nigeria	"ff-NG"
FYRO_Macedonian	"mk-MK"
Gaelic_Ireland	"gd-IE"
Gaelic_Scotland	"gd-GB"
Gallegan	"gl-ES"
Georgian	"ka-GE"
German	"de-DE"
German_Austria	"de-AT"
German_Liechtenstein	"de-LI"
German_Luxembourg	"de-LU"

Language Identifier	Language Code
German_Switzerland	"de-CH"
Greek	"el-GR"
Guarani	"gn-PY"
Gujarati	"gu-IN"
Hausa	"ha-NE"
Hawaiian	"haw-US"
Hebrew	"he-IL"
Hindi	"hi-IN"
Hungarian	"hu-HU"
Icelandic	"is-IS"
Igbo	"ig-NG"
Indonesian	"id-ID"
Inuktitut	"iu-CA"
Italian	"it-IT"
Italian_Switzerland	"it-CH"
Japanese	"ja-JP"
Kannada	"kn-IN"
Kanuri	"kr-TD"
Kashmiri	"ks-IN"
Kazakh	"kk-KZ"
Khmer	"km-KH"
Konkani	"kok-IN"
Korean	"ko-KR"

Language Identifier	Language Code
Kyrgyz	"ky-KZ"
Lao	"lo-LA"
Latin	"la-XL"
Latvian	"lv-LV"
Lithuanian	"lt-LT"
Malay	"ms-MY"
Malay_Brunei_Darussalam	"ms-BN"
Malayalam	"ml-IN"
Maltese	"mt-MT"
Maori	"mi-NZ"
Marathi	"mr-IN"
Mongolian	"mn-MN"
Nepali	"ne-NP"
Nepali_India	"ne-IN"
Norwegian	"nb-NO"
Norwegian_Nynorsk	"nn-NO"
Oriya	"or-IN"
Oromo	"om-ET"
Panjabi	"pa-PK"
Polish	"pl-PL"
Portuguese	"pt-PT"
Portuguese_Brazil	"pt-BR"
Punjabi_Pakistan	"pa-PK"

Language Identifier	Language Code
Pushto	"ps-AF"
Quechua_Ecuador	"qu-EC"
Quechua_Peru	"qu-PE"
Rhaeto_Romance	"rm-IT"
Romanian	"ro-RO"
Romanian_Moldova	"ro-MD"
Russian	"ru-RU"
Russian_Moldava	"ru-MD"
Sami	"se-NO"
Sanskrit	"sa-IN"
Serbian_Cyrillic	"sr-RS"
Serbian_Latin	"sr-SP"
Sindhi_India	"sd-IN"
Sindhi_Pakistan	"sd-PK"
Sinhala	"si-LK"
Slovak	"sk-SK"
Slovenian	"sl-SI"
Somali	"so-ET"
Sorbian	"wen-DE"
Spanish	"es-ES"
Spanish_Argentina	"es-AR"
Spanish_Bolivia	"es-BO"
Spanish_Chile	"es-CL"

Language Identifier	Language Code
Spanish_Colombia	"es-CO"
Spanish_Costa_Rica	"es-CR"
Spanish_Dominican_Republic	"es-DO"
Spanish_Ecuador	"es-EC"
Spanish_El_Salvador	"es-SV"
Spanish_Honduras	"es-HN"
Spanish_LatinAmerica	"es-XL"
Spanish_Mexico	"es-MX"
Spanish_Nicaragua	"es-NI"
Spanish_Panama	"es-PA"
Spanish_Paraguay	"es-PY"
Spanish_Peru	"es-PE"
Spanish_Puerto_Rico	"es-PR"
Spanish_Uruguay	"es-UY"
Spanish_US	"es-US"
Spanish_Venezuela	"es-VE"
Swahili	"sw-TZ"
Swedish	"sv-SE"
Swedish_Finland	"sv-FI"
Syriac	"syr-SY"
Tajik	"tg-TJ"
Tamil	"ta-IN"
Tatar	"tt-RU"

Language Identifier	Language Code
Telugu	"te-IN"
Thai	"th-TH"
Tibetan	"bo-CN"
Tigrinya_Eritrea	"ti-ER"
Tigrinya_Ethiopia	"ti-ET"
Tsonga	"ts-ZA"
Tswana	"tn-BW"
Turkish	"tr-TR"
Turkmen	"tk-TM"
Uighur	"ug-CN"
Ukrainian	"uk-UA"
Urdu	"ur-PK"
Urdu_India	"ur-IN"
Uzbek	"uz-UZ"
Venda	"ve-ZA"
Vietnamese	"vi-VN"
Welsh	"cy-GB"
Xhosa	"xh-ZA"
Yi	"ii-CN"
Yiddish	"yi-MD"
Yoruba	"yo-NG"
Zulu	"zu-ZA"

8 Appendix: Database Tables

The Connector creates the following tables in the database:

Table	Description
CT_CONFIGURATION	Stores Connector configuration data.
CT_TEAM	Stores team profile data. **Note:** The team feature is not currently implemented.
CT_TEAM_SITES	Stores the association between teams and sites. **Note:** The team feature is not currently implemented.
CT_TRANSLATION_JOB	Stores translation jobs.
CT_TRANSLATION_ASSET	Stores translation assets.
CT_TRANSLATION_REQUEST	Stores translation requests.
CT_SOURCE_TRANSLATION_CONTENT	Stores source content sent out for translation.
CT_TARGET_TRANSLATION_CONTENT	Stores translated content that has returned from translation.
CT_TRANSLATION_PROVIDER	Stores translation-provider data.
CT_PROVIDER_SITES	Stores the association between translation providers and sites.
CT_TRANSLATION_TEAM_PROVIDERS	Stores the association between teams and translation providers. **Note:** The team feature is not currently implemented.
CT_DB_VERSION	Stores the version of the database schema.

The Connector creates the following table in the OWCS database:

Table	Description
CT_queue	Storing jobs that have been sent out for translation and await background processing

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