Clay Tablet Connector for Adobe Experience Manager

Installation and Configuration Guide

Version 2.3.0

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1 Welcome to the Clay Tablet Connector for Adobe Experience Manager

Welcome to the Clay Tablet Connector for Adobe Experience Manager ("Connector"). This is Clay Tablet's connector between Adobe Experience Manager 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	Any content or document being sent for translation, including metadata. Assets are created by the Connector.
Clay Tablet (CTT)	Clay Tablet Technologies, the corporate entity that publishes the Clay Tablet Connector and the Clay Tablet Platform.
Clay Tablet Connector for AEM ("Connector")	The connector software that Clay Tablet Technologies has developed and provides, which plugs into your Adobe Experience Manager (AEM) 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 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.
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 AEM instances, because this is a violation of the Clay Tablet License Agreement. Using the same CMS address keys on multiple AEM 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.
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 on the premises of the Clay Tablet client, instead of on AWS.
Producer	CMS or another system that sends content or documents out for translation. In this case, this is your Adobe Experience Manager.
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 management systems (CMSs) and other content producers with translation providers and translation technologies.

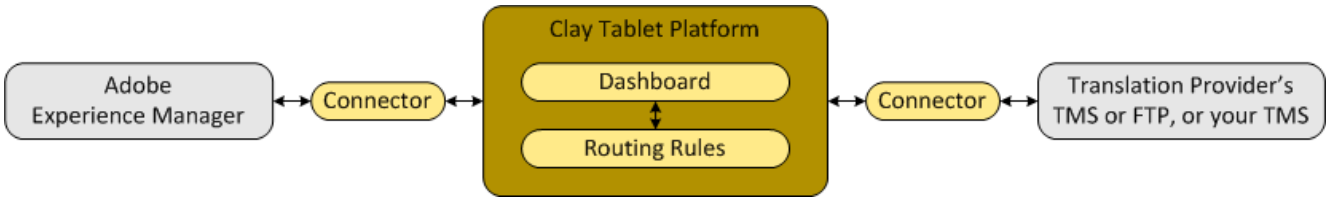
Clay Tablet Platform is the hosted (IaaS) connectivity platform that receives and routes content from content management systems to Lionbridge via Freeway and back. It is hosted on Amazon Web Services (AWS). During implementation, Clay Tablet Technologies configures the Platform for your translation 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 Adobe Experience Manager

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 Adobe Experience Manager (AEM). Its functionality is displayed to the users as part of AEM.



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 AEM. It describes the delivery package contents, system requirements, installation instructions, and configuration procedures.

Note: This guide describes using both the AEM Touch-Optimized UI and the Classic UI. The terminology in this guide is for classic devices, such desktops and laptops, although it is also relevant to mobile devices, such as tablets. For detailed information about the UIs and views, as well as differences in terminology depending on device types, refer to the AEM documentation, available at http://helpx.adobe.com/marketing-cloud/experience-manager.html?t2.

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

Who should use this guide

This guide is intended for AEM administrators and system integrators.

What you should already know

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

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

For information on using the Clay Tablet Connector to send and receive content for translation from AEM, read the *Clay Tablet Connector for Adobe Experience Manager 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 **Admin Tools > Configuration**."

1.5 How to Contact Clay Tablet Support

Email @: support@clay-tablet.com

Telephone: +1-416-363-0888 option "3"

2 Before You Install

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

1. "Setting Your System Date, Time, and Time Zone Correctly" as described below.
2. "Downloading the Delivery Package" as described on page 11.
3. "Creating a Clay Tablet Connector Database on your Database Server Instance" as described on page 11.
4. "Creating the Clay Tablet Connector Folders" as described on page 12. These are the folders where the Connector stores your licensing information and your translation data.

Very important: Do not copy the CMS address keys to multiple AEM instances, because this is a violation of the Clay Tablet License Agreement. Using the same CMS address keys on multiple AEM 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.

Note: If you are installing the Connector in a clustered environment, see "Installing and Configuring the Connector in a Clustered Environment" on page 90.

2.1 System Requirements

The Clay Tablet Connector for Adobe Experience Manager ("AEM") must be installed on the AEM Author server. The Clay Tablet Connector for AEM supports AEM versions 5.6.1 and higher.

The Clay Tablet Connector for AEM has no additional hardware or software requirements beyond those of AEM. For detailed requirements, refer to the appropriate version of the *Adobe Experience Manager Technical Requirements*.

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 Downloading the Delivery Package

1. Download the Clay Tablet Connector ("Connector") delivery package from the link that Clay Tablet Technologies sends you. This is a `.rar` file, which is a zipped file that contains that contains the following five folders:

Folder Name	Description
CTC Database	The Connector database script files for the supported databases: ■ `CTC_MsSQL_Database_.w.x_to_.y.z.sql`, for Microsoft SQL databases; ■ `CTC_MySQL_Database_.w.x_to_.y.z.sql`, for MySQL databases; ■ `CTC_Oracle_Database_.w.x_to_.y.z.sql`, for Oracle databases; where `.w.x_to_.y.z.` is the range of supported versions of the Connector for AEM for the database script.
CQ 5.6.1 V2.0 Solution Package	`com.clay-tablet.cqx.x.x.ctc.client-y.z-yyyy-MMddkkmm.zip`, which is the installation package that you will install into your AEM system using the Package Manager tool, where *x.x.x* is the supported AEM version number and *y.z* is the current version of the Connector for AEM, followed by a date and time stamp, for example: `com.clay-tablet.cq5.6.ctc.cupdate-2.1.0-2014-06181329.zip`. **Note:** The package name for a new installation includes `client`, while a package name for updating an existing installation includes `cupdate`. The update package does not include the `/etc/ctctranslation` node, where configurations are stored. This prevents overwriting your configuration settings while upgrading.
CTC Data	The Connector Data folder zip archive, `CTCData.zip`.
Documents	■ *Clay Tablet Connector for Adobe Experience Manager Installation and Configuration Guide* (this document) ■ *Clay Tablet Connector for Adobe Experience Manager User Guide*
License ID for CTCConfig UI	This is the file containing the license for the configuration UI if the Clay Tablet Platform hosted on AWS. The file name is `License_ID.txt`.

2. Unzip the delivery package file you downloaded, and save its contents to a convenient location.

2.4 Creating a Clay Tablet Connector Database on your Database Server Instance

The Connector requires one of the following databases for its database engine:

- MySQL version 5.0 or higher
- Microsoft SQL Server version 2005 or higher
- Oracle 11g and 12c

Microsoft SQL Server instructions

1. Create a database container, such as `CTCTRANSLATION`.
2. Run the `CTC_MsSQL_Database.sql` script on your Microsoft SQL Server instance to create related tables.

MySQL instructions

1. Run the `CTC_MySQL_Database.sql` script on your MySQL server to create the `CTCTranslation` database and related tables.
2. Optional. You can create a separate SQL login for this database.
3. Ensure this Connector database is active and accessible.

Oracle instructions

1. Create an Oracle database, such as `CTCTRANSLATION`, and set the character set support to multilingual. For detailed instructions, refer to the Oracle documentation. Oracle 10.2 documentation for this feature is available at: http://docs.oracle.com/cd/B19306_01/server.102/b14225/ch6unicode.htm#i1006779.
2. Create the database schema:

   ```
   CREATE USER CTCTRANS IDENTIFIED BY xxxxxxx DEFAULT TABLESPACE users TEMPORARY TABLESPACE temp;
   ```

   Depending on your Oracle settings, you may need to use different default and temporary tablespaces.
3. Run the `CTC_Oracle_Database.sql` script on your Oracle database server to create the related tables.

2.5 Creating the Clay Tablet Connector Folders

This section describes how to create folders that Connector uses to store licensing information and translation data:

1. On your Adobe Experience Manager (AEM) server, navigate to the file system and create a folder called `CTCdata`.
2. Unzip the `CTCData.zip` archive folder from the delivery package you downloaded and unzipped, as described in "Downloading the Delivery Package" on page 11, and extract all the included folders into the target `CTCdata` folder. This creates the following four subfolders in the `CTCdata` folder:

Sub-Folder	Folder Access Permissions	Description
exports	Full	This folder will store cached Excel files that the Connector exports.
files	Full (apply to `source` and `target` sub-folders)	This folder has the following three sub-folders: ■ The `source` folder will contain generated XML files for translation. ■ The `target` folder will contain translated files received back from translation. ■ The `update` folder will contain manually updated translated files. **Note:** Use this feature only if translation providers have edited XML files that were already returned into AEM, or if a file was not successfully inserted back into AEM. By default, the Connector caches all the files for translation and all received translation files. To instruct the Connector *not* to cache these files, edit `/etc/ctcpipelineconfig/ctcTranslationPipes.xml` in CRX and follow the instructions in the comments in that file about how to comment out or enable particular steps in the Pipeline to meet your needs.
logs	Full	This folder will be used by the Connector to store Connector log files.
projects	Full	This folder contains information related to project creation. It prevents Connector project duplication when there are issues with database connectivity.

3. Set the access permission for each folder according to the above table.

3 Installing the Clay Tablet Connector

This section describes how to install the Connector installation package you downloaded earlier into your Adobe Experience Manager (AEM) system, as described in "Downloading the Delivery Package" on page 11.

Before you install the Connector, verify that you have reviewed the system requirements and followed all the pre-installation procedures described in "Before You Install" on page 10.

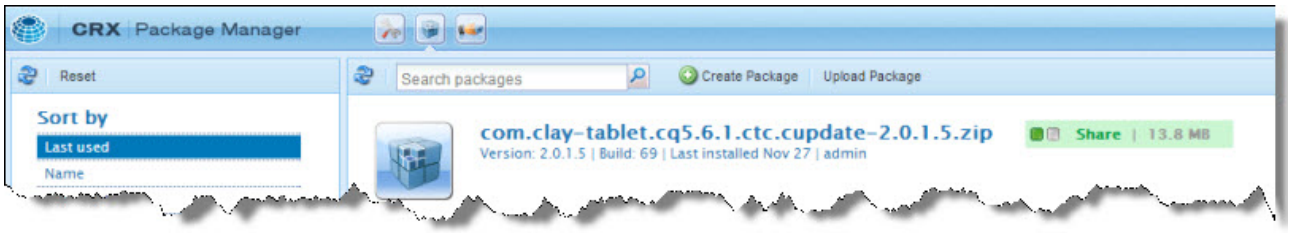
Note: If you are installing the Connector in a clustered environment, see "Installing and Configuring the Connector in a Clustered Environment" on page 90.

To install the Connector into AEM:

1. Do one of the following:

   - In the Touch-Optimized UI of AEM, click **Tools** in the AEM rail. Then, in the **Granite Operations** section, click **Packages**.
   - In the Classic UI of AEM, scroll down and click **Packages** in the right pane.
   - In your Web browser, navigate to `/crx/packmgr/index.jsp` on your AEM instance.

   The **CRX Package Manager** opens.



2. Click **Upload Package** to upload the Clay Tablet Connector package to the AEM server.
3. Click the name of the package you uploaded earlier, and follow the on-screen instructions.

3.1 Installing the Add-In for Configuring Content Encryption and Decryption (SDL TMS only)

You can now generate your own keys to encrypt and decrypt content you send for translation from the Clay Tablet Connector for Adobe Experience Manager ("Connector for AEM") to the Clay Tablet Connector for SDL TMS ("Connector for SDL TMS"). This feature requires installing the Add-In for Configuring Content Encryption and Decryption, as described below:

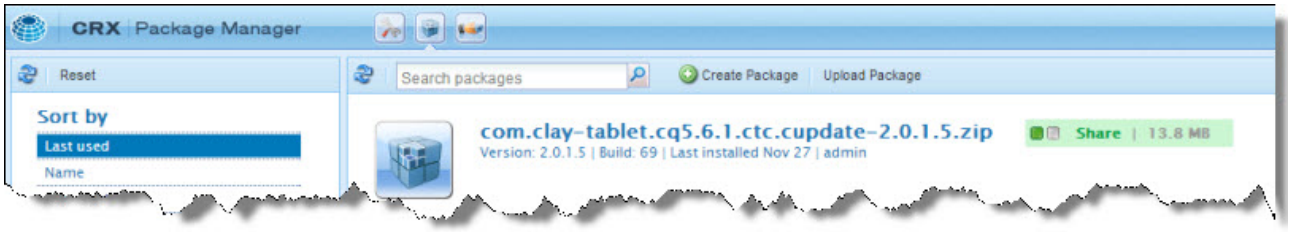
To install the add-in into AEM:

1. Do one of the following:

   - In the Touch-Optimized UI of AEM, click **Tools** in the AEM rail. Then, in the **Granite Operations** section, click **Packages**.

- In the Classic UI of AEM, scroll down and click **Packages** in the right pane.
- In your Web browser, navigate to `/crx/packmgr/index.jsp` on your AEM instance.

The **CRX Package Manager** opens.



2. Click **Upload Package** to upload the `com.clay-tablet.cq5.x.ctc.client.addon.tmssupport-2.x.zip` package to the AEM server.
3. Click `com.clay-tablet.cq5.x.ctc.client.addon.tmssupport-2.x.zip`, and follow the on-screen installation instructions.
4. In your Web browser, navigate to `/content/ctctranslation/status.html#` on your AEM instance to display the Clay Tablet Connector rail.
5. In the Clay Tablet Connector rail, click **Admin Tools > TMS GUID Config**.

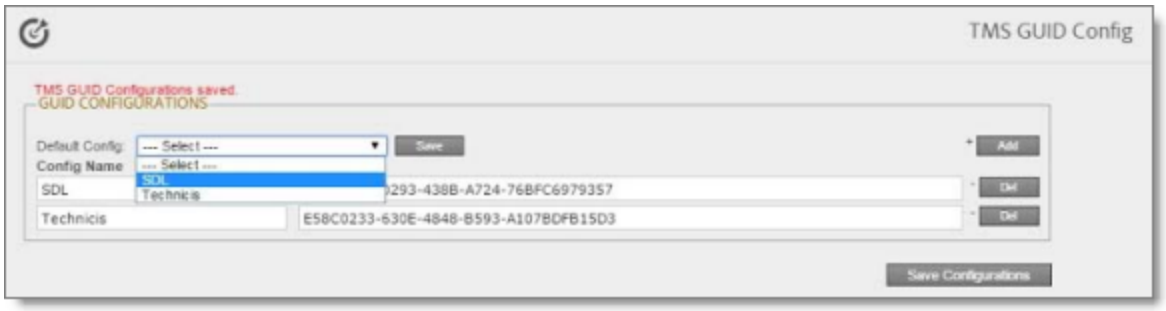
   The **TMS GUID Config** page opens.

   Note: A *GUID* is a Globally Unique Identifier, which is a unique reference number used as an identifier in software.

6. Click **Add** in the top-right corner of the page and enter the following information about your configuration:

Column	Description
Config Name	Your name for the translation provider, for example, `SDL`.
TMS GUID	The translation provider's GUID. which is its unique reference number. The Connector uses this to identify the translation provider.

Note: You can enter multiple configurations, one for each TMS. Repeat this step for each TMS GUID configuration.



7. In the **Default Config** list at the top of the page, select the SDL configuration you created, and click **Save**. For example, select `SDL` from the list.
8. At the bottom of the page, click **Save Configuration**.
9. In the Clay Tablet Connector rail, click **Admin Tools > LSP and Keys**. The LSP and Keys page opens.
10. In the **LSP and Keys** page, click **Edit** beside the SDL configuration.
11. Scroll down to the bottom of the page.
12. In the **Is SDL TMS** field, select `Yes` from the list.

13. At the bottom of the page, click **Update** to save this change.
14. Test this configuration by sending encrypted content for translation. For detailed instructions, refer to the *Clay Tablet Connector for Adobe Experience Manager User Guide*.

Important: When you send a job for translation, in the **Choose LSP** list, verify that all the configurations you added on the **TMS GUID Config** page are displayed.

4 Post-Installation Tasks

After installing the Connector, you complete the tasks below to verify that your installation was successful.

Important: The AEM `admin` user must perform the post-installation and configuration tasks for the first time after installation.

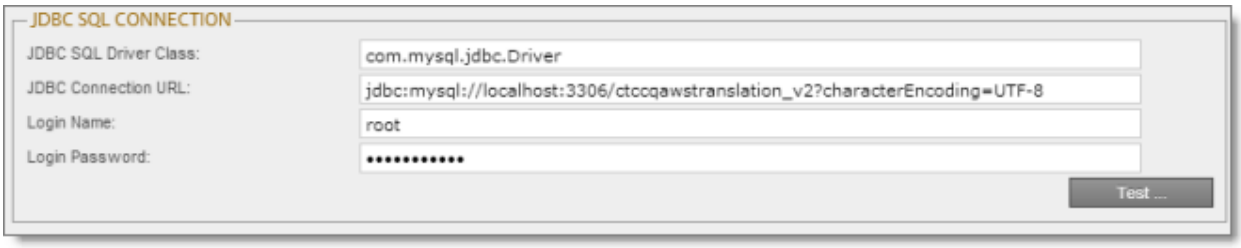
1. "Configuring the Data Folder and Database Connection" on page 17.
2. "Verifying that the Bundle and All Connector Components Are Active" below.
3. "Verifying that the Connector Nodes are Installed" on page 20.
4. "Verifying that All Connector Nodes are Active" on page 21.
5. "Configuring Network Settings for a Firewall" on page 22. (Optional)

4.1 Configuring the Data Folder and Database Connection

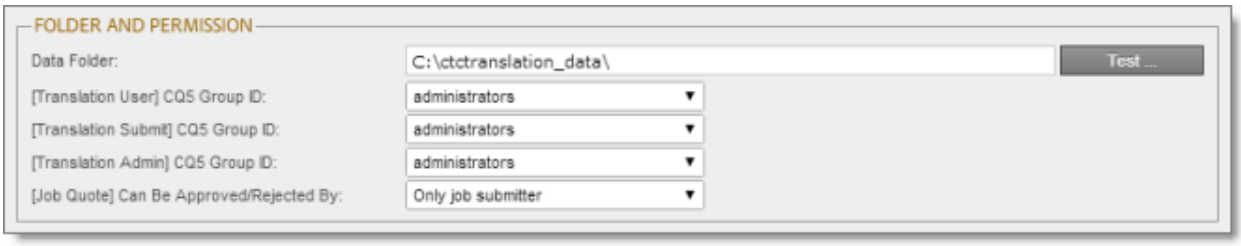
After installing the Connector, you configure the database connection and the data folder, and then you restart the Clay Tablet bundle, so that you can verify that all Connector nodes are active.

1. Click **Admin Tools > Configuration** in the Clay Tablet Connector rail to open the **Configuration** page. For information on opening the Clay Tablet Connector rail, see "Configuring the Connector" on page 24.

   a. In the **JDBC SQL Connection** section, configure the Connector's database connection. For detailed instructions, see "JDBC SQL Connection" on page 29.



   b. In the **Folder and Permissions** section, configure the Connector's data folder. For detailed instructions, see "Folder and Permission" on page 30.



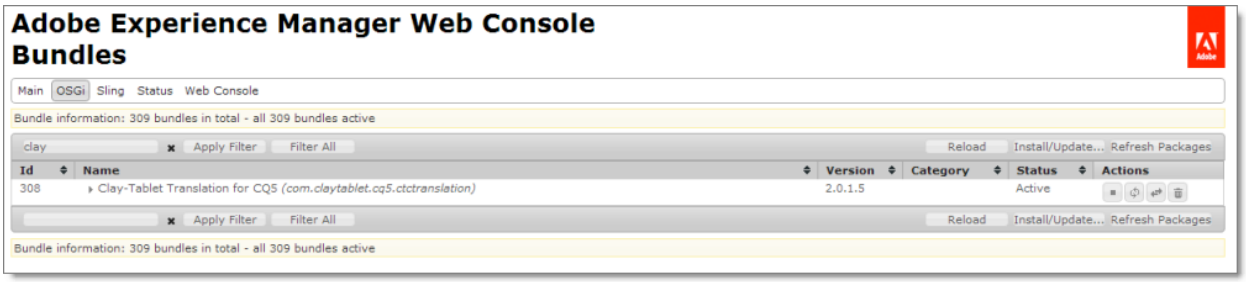
2. Restart the Clay Tablet bundle.

   a. In your browser, navigate to: `/system/console/bundles` on your AEM instance.

      The **Adobe Experience Manager Web Console Bundles** page opens.

   b. In the Search box in the top-left corner of the page, type `clay`, and click **Apply Filter**.

      The Clay Tablet bundle is displayed.



   c. In the **Actions** column, click **Stop**. Wait a few seconds, and then click **Start** to restart the bundle.

4.2 Verifying that the Bundle and All Connector Components Are Active

You must access the Apache Felix Web Console to verify that the bundle and all Connector components are installed and active:

- For AEM 5.6.1, there are 22 Connector components.
- For AEM 6.0, there are 25 Connector components.

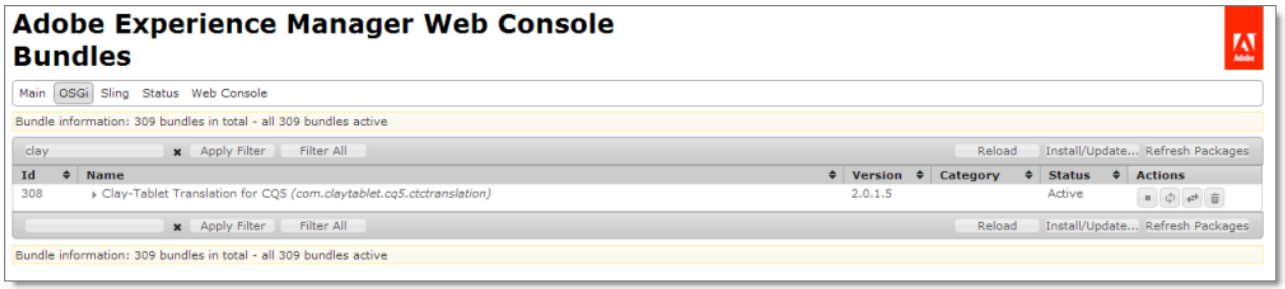
Verifying the bundle

1. In your browser, navigate to: `/system/console/bundles` on your AEM instance.

   The **Adobe Experience Manager Web Console Bundles** page opens.

2. In the Search box in the top-left corner of the page, type `clay`, and click **Apply Filter**.

   The Clay Tablet bundle is displayed.



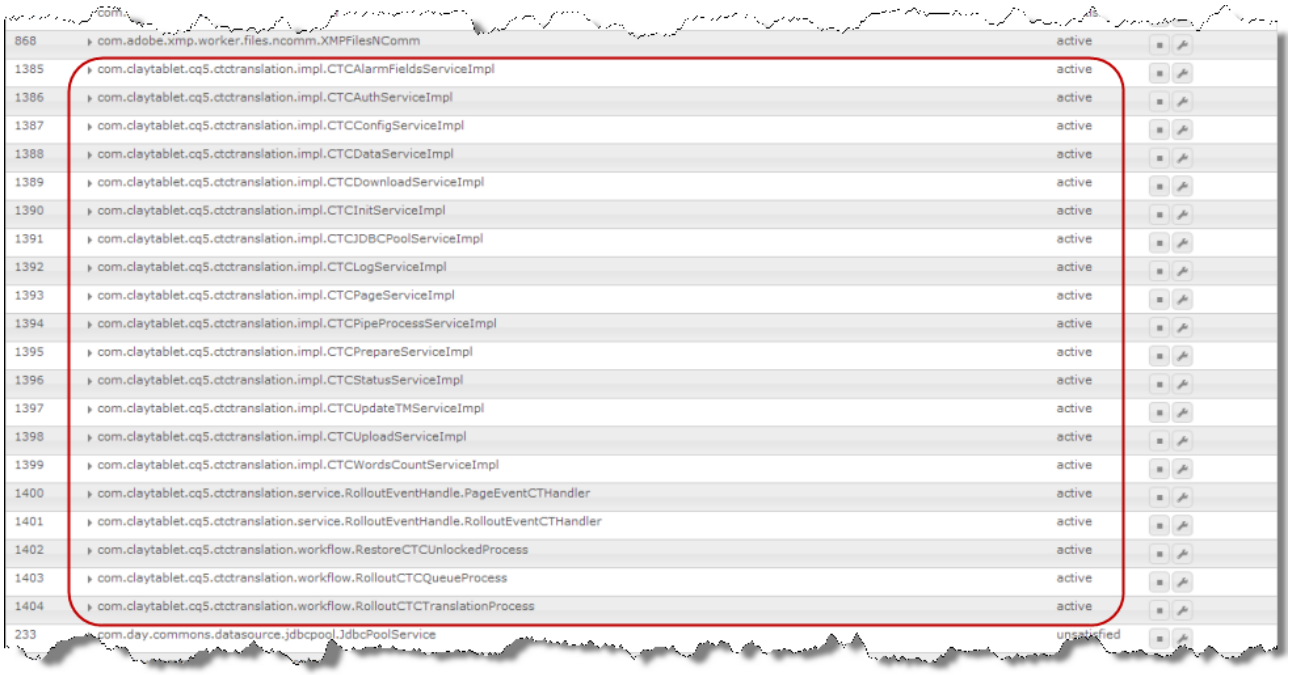
3. Verify that the Clay Tablet bundle has active status.

Verifying the Connector components

1. In your browser, navigate to: `/system/console/components` on your AEM instance.

   The **Adobe Experience Manager Web Console Components** page opens. This page displays all components alphabetically, by name.

2. Scroll down to locate the Connector components, whose names all start with `com.claytablet`.



3. Verify that all the following Connector components are installed and active:
   - com.claytablet.cq5.ctctranslation.impl.CTCAlarmFieldsServiceImpl
   - com.claytablet.cq5.ctctranslation.impl.CTCAuthServiceImpl
   - com.claytablet.cq5.ctctranslation.impl.CTCConfigServiceImpl
   - com.claytablet.cq5.ctctranslation.impl.CTCDataServiceImpl
   - com.claytablet.cq5.ctctranslation.impl.CTCDownloadServiceImpl
   - com.claytablet.cq5.ctctranslation.impl.CTCEventServiceImpl
   - com.claytablet.cq5.ctctranslation.impl.CTCInitServiceImpl
   - com.claytablet.cq5.ctctranslation.impl.CTCJDBCPoolServiceImpl
   - com.claytablet.cq5.ctctranslation.impl.CTCLogServiceImpl
   - com.claytablet.cq5.ctctranslation.impl.CTCPageServiceImpl
   - com.claytablet.cq5.ctctranslation.impl.CTCPipeProcessServiceImpl
   - com.claytablet.cq5.ctctranslation.impl.CTCPrepareServiceImpl
   - com.claytablet.cq5.ctctranslation.impl.CTCStatusServiceImpl
   - com.claytablet.cq6.ctctranslation.impl.CTCTranslateInterceptProcess (installed with AEM 6.0 only)

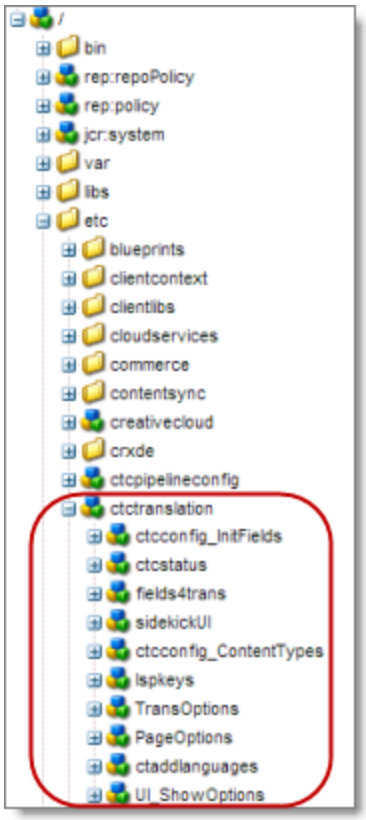
- com.claytablet.cq6.ctctranslation.impl.CTCTranslateSleepProcess (installed with AEM 6.0 only)
- com.claytablet.cq6.ctctranslation.impl.CTCTranslationServiceFactoryImpl (installed with AEM 6.0 only)
- com.claytablet.cq5.ctctranslation.impl.CTCUpdateTMServiceImpl
- com.claytablet.cq5.ctctranslation.impl.CTCUploadServiceImpl
- com.claytablet.cq5.ctctranslation.impl.CTCWordsCountServiceImpl
- com.claytablet.cq6.ctctranslation.impl.CTCWorkflowAdminServiceImpl
- com.claytablet.cq5.ctctranslation.service.RolloutEventHandle.RolloutEventCTHandler
- com.claytablet.cq5.ctctranslation.service.RolloutEventHandle.UTMPageEventCTHandler
- com.claytablet.cq5.ctctranslation.workflow.RestoreCTCUnlockedProcess
- com.claytablet.cq5.ctctranslation.workflow.RolloutCTCQueueProcess
- com.claytablet.cq5.ctctranslation.workflow.RolloutCTCTranslationProcess

4.3 Verifying that the Connector Nodes are Installed

After installing the Connector, you must access the CRXDE Lite interface to ensure that all ten Connector nodes are installed.

1. Do one of the following:
   - In the Touch-Optimized UI of AEM, click **Tools** in the AEM rail. Then, in the **Granite Operations** section, click **CRXDE Lite**.
   - In the Classic UI of AEM, click **CRXDE Lite** in the right pane.
   - In your Web browser, navigate to `/crx/de/index.jsp` on your AEM instance.

   CRXDE opens.
2. In the navigation pane on the left, navigate to `/etc/ctctranslation`.
3. Verify that all ten nodes are present:



4.4 Verifying that All Connector Nodes are Active

After verifying that all Connector nodes are installed, you access the Apache Felix Web Console to verify that to verify that all ten Connector nodes are active.

1. In your browser, navigate to `/system/console/bundles`.

   The **Adobe Experience Manager Web Console Bundles** page opens.

2. Select **OSGi > Services** from the menu.

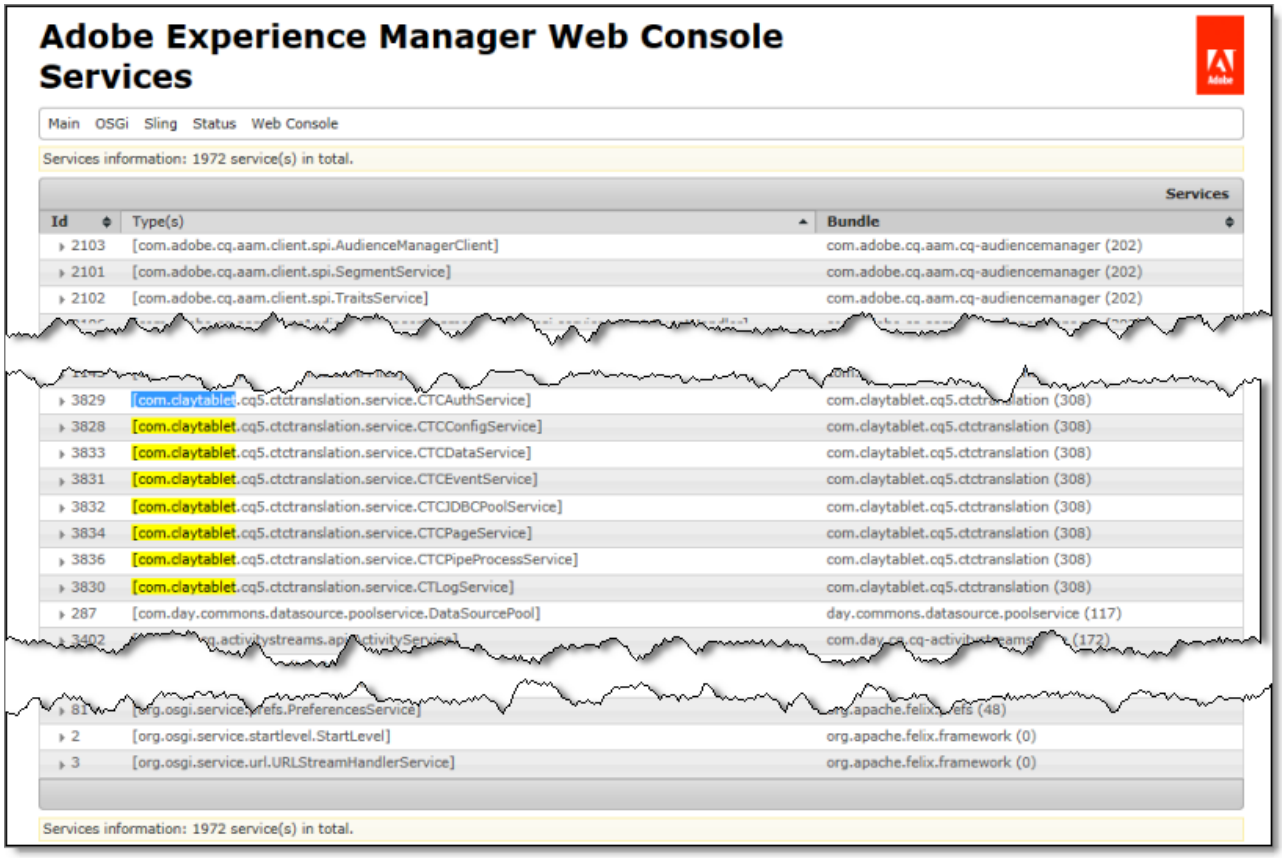
   The **Adobe Experience Manager Web Console Services** page opens.

3. In your browser, search this page for `[com.claytablet`.

   You should see the following eight Connector nodes running:

   - [com.claytablet.cq5.ctctranslation.service.CTCAuthService]
   - [com.claytablet.cq5.ctctranslation.service.CTCConfigService]
   - [com.claytablet.cq5.ctctranslation.service.CTCDataService]
   - [com.claytablet.cq5.ctctranslation.service.CTCEventService]
   - [com.claytablet.cq5.ctctranslation.service.CTCJDBCPoolService]

- [com.claytablet.cq5.ctctranslation.service.CTCPageService]
- [com.claytablet.cq5.ctctranslation.service.CTCPipeProcessService]
- [com.claytablet.cq5.ctctranslation.service.CTLogService]



4.5 Configuring Network Settings for a Firewall

Optional step. If you have a firewall, you must configure your ports so that the Connector can communicate with the Clay Tablet Platform. The Connector must be able to communicate with the Clay Tablet Platform by initiating the following outbound network connections:

Protocol	Port Number	Description	Location
HTTP	Port 80	For access to the Clay Tablet License Server	http://license.clay-tablet.com
HTTP	Port 80	For access to Amazon's AWS S3 XML namespace and XSD file	http://s3.amazonaws.com
HTTP	Port 80	For access to Amazon's AWS SQS XML namespace and XSD file	http://queue.amazonaws.com
HTTPS	Port 443	For secure access to Amazon's AWS S3 service	https://s3.amazonaws.com

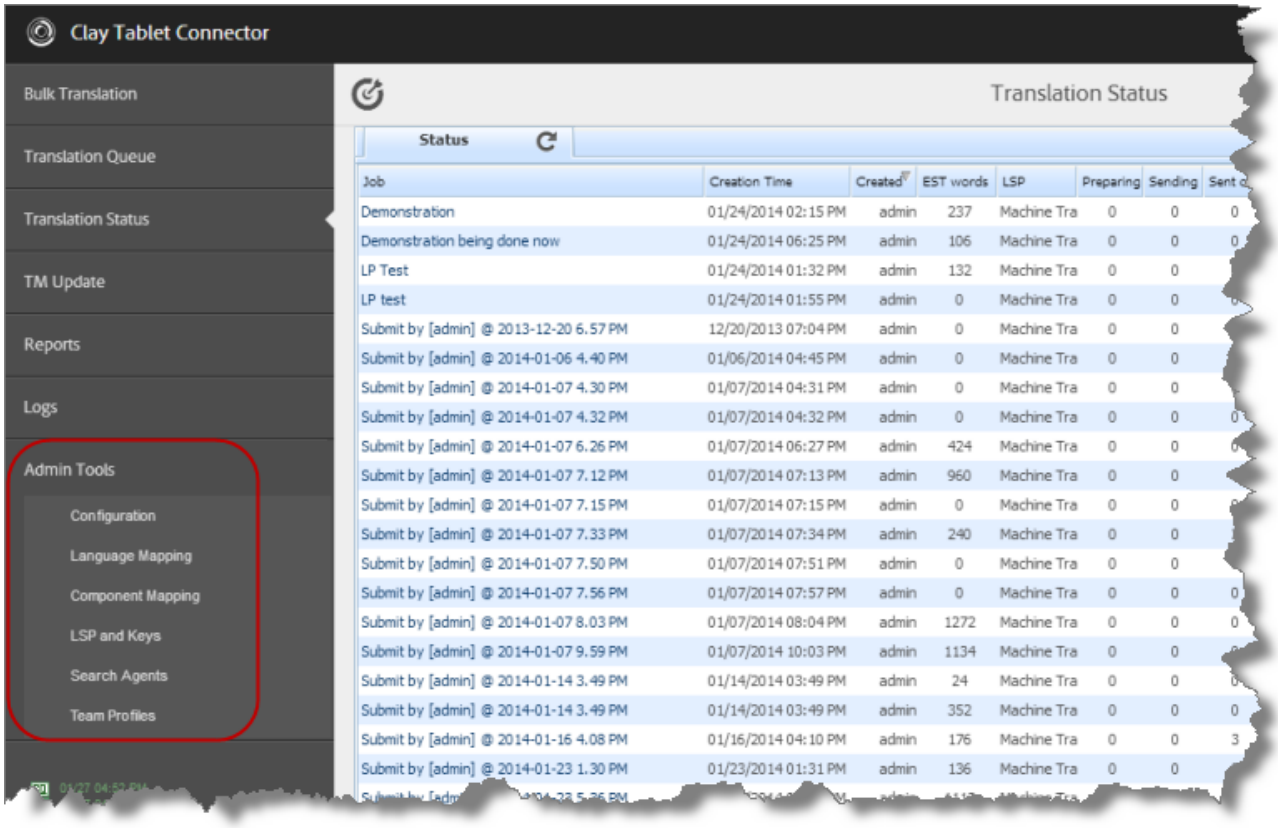
Protocol	Port Number	Description	Location
HTTPS	Port 443	For secure access to Amazon's AWS SQS service	https://queue.amazonaws.com

5 Configuring the Connector

You configure the Connector for AEM mostly via the Clay Tablet Connector rail, as described below.

1. Log in to AEM with the `admin` account to start configuring the Connector.
2. Do one of the following:
   - In the Touch-Optimized UI of AEM 6.0, click **Clay Tablet Connector** in the AEM rail.
   - In the Touch-Optimized UI of AEM, click **Tools** in the AEM rail. Then, in the **Granite Operations** section, click **Clay Tablet Connector**.
   - In the Classic UI of AEM, scroll down and click **Clay Tablet Connector** in the right pane.
   - In your Web browser, navigate to `/content/ctctranslation/status.html` on your AEM instance.

   The **Translation Status** page opens.



3. In the Clay Tablet Connector rail, click **Admin Tools**.

   This displays the **Admin Tools** menu options. You can perform most Connector configuration changes using these tools.

Note: After the Connector is installed, you must start configuring the Connector by selecting **Admin Tools > Configuration**. If you do not begin with this, subsequent configuration options will not be available. For details, see "Configuring Connector Global Settings" on page 25.

The following menu options are available:

Menu Option	Purpose	For Details, See...
Configuration	Configure Connector global settings, including translation options.	"Configuring Connector Global Settings" on page 25
Language Mapping	Configure the language branches in the Web site structure where the Connector returns translated content, and configure the language lists displayed in Sidekick and the Bulk Translation wizard.	"Configuring Connector Languages" on page 48
Component Mapping	Configure the types of components and fields that the Connector can send out for translation when you send out content for translation.	"Configuring which Components and Properties to Send Out for Translation" on page 52
LSP and Keys	Configure the translation provider and the CMS address and platform keys.	"Configuring Translation Providers and the CMS Address and Platform Keys" on page 57
Search Agents	Configure search agents to collect pages for translation in the Bulk Translation wizard.	"Configuring Connector Search Agents" on page 63
Team Profiles	Define sets of Connector users who are allowed to send content out for translation from the specified source languages, to the specified source languages, using the specified translation providers.	"Configuring Team Profiles" on page 66

4. The following configuration steps are optional:

   - You can configure how frequently the Connector checks for processing, sending, and receiving translations. For details, see page 67.
   - You can configure custom content types using CRXDE Lite. For details, see page 68.

5.1 Configuring Connector Global Settings

- To configure Connector global settings, click **Admin Tools > Configuration** in the Clay Tablet Connector rail to open the **Configuration** page. For information on opening the Clay Tablet Connector rail, see "Configuring the Connector" on page 24.

The configuration options are organized into the following sections:

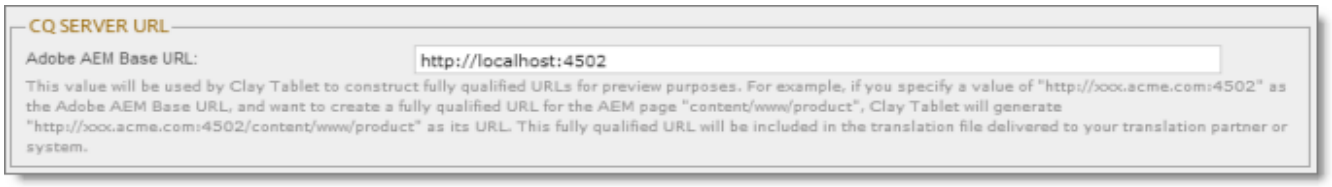
Configuration Section	Purpose
"CQ Server URL" on page 26	Specify the base URL that is used to generate a full page review URL.
"Network Configuration" on page 27	Specify the network configuration details for proxy server implementations.
"Translation Platform" on page 28	Configure the Clay Tablet Platform, which receives and routes content between the Connector and translation providers.
"JDBC SQL Connection" on page 29	Configure the JDBC SQL connection to the Connector database. **Note:** In general, you configure the database connection immediately after installation.
"Folder and Permission" on page 30	Configure the Connector data folder and its permissions. **Note:** In general, you configure the Connector data folder immediately after installation.
"Translation Setting" on page 31	Configure translation-specific options.
"Mail Server Settings" on page 34	Specify the email settings for notification emails that the Connector can send.
"Log Service" on page 35	Specify the Connector log settings.
"Agent Services" on page 36	Configure the settings for the `ctcPrepareService` and `ctcUploadService` services.
"Encryption Keystore (SDL TMS only)" on page 36	Specify the keystore location and password for content encryption and decryption.
"UI and Default Settings" on page 37	Specify the default user interface settings that are displayed to users.

When you are done, you can perform the actions described below. The corresponding buttons are displayed at the bottom of the Configuration page:

- To export your configuration settings (excluding the translation options), as an XML file, click **Export Configuration**. The Connector downloads the file.
- To export your translation options as an XML file, click **Export Translation Options**. The Connector downloads the file.
- To save your changes to the Configuration page, click **Save Configuration**.

5.1.1 CQ Server URL

The **CQ Server URL** section of the **Configuration** page specifies the base URL that is used to generate a full page review URL.



Configuration Option	Description
Adobe AEM Base URL	This is the base URL that is used to generate a full page review URL. For example, if the URL of the AEM server is `http://www.xxx.com:4502`, then the full URL of page `/content/www/product` is `http://www.xxx.com:4502/content/www/product.html` in the file for translation.

5.1.2 Network Configuration

The **Network Configuration** section of the **Configuration** page specifies the network configuration details for proxy server implementations.

Configuration Option	Description
Use Proxy Server	Indicates whether the Connector uses a proxy server. If this is `No`, the other settings in this section are not required.
Proxy Host	The IP address or domain name for the proxy server.
Proxy Port	The port number for the proxy server.
Need Authentication	Indicates whether authentication is required to access the proxy server. If this is `No`, the remaining settings in this section are not required.
[Proxy Auth] User	The user name for authentication to the proxy server.
[Proxy Auth] Password	The password for authentication to the proxy server.
[Proxy Auth] Domain	The domain for authentication to the proxy server.

- To verify the network configuration and credentials for a proxy server, click the **Test** button. After testing, a message box indicates whether your configuration passed the test.

5.1.3 Translation Platform

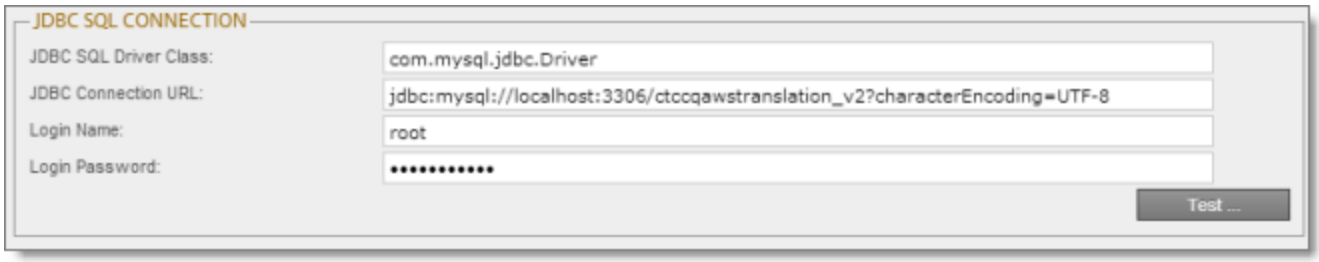
The **Translation Platform** section of the **Configuration** page configures the Clay Tablet Platform, which receives and routes content between the Connector and translation providers.

Configuration Option	Description
Platform Type	This indicates which type of Clay Tablet Platform your installation uses. This is one of the following: ■ `AWS Public Platform`: If your company uses the Clay Tablet Platform hosted on AWS (most common installation), select this. ■ `On Premise Platform`: If your company uses a Clay Tablet Platform that it hosts on its premises, select this.
Internal Platform	
On Premise Server URL	The URL of the server that runs the Clay Tablet Web Service (CTWS). Relevant only if `On Premise Platform` was selected in **Platform Type**, above.

Configuration Option	Description
Source Key XML	Relevant only if `On Premise Platform` was selected in **Platform Type**, above. This file contains the CMS address key.
Platform Key XML	Relevant only if `On Premise Platform` was selected in **Platform Type**, above. This is the Platform key, which is relevant for one translation provider. **Note:** When your company uses the Clay Tablet On Premise Platform, which is hosted on your company's premises, the Connector does not support multiple translation providers.
Test	Relevant only if `On Premise Platform` was selected in **Platform Type**, above. Click this to test the keys in the **Source Key XML** and **Platform Key XML** boxes, above. After testing, a message box indicates whether the keys passed the test.
Public Platform	
License ID	Relevant only if `AWS Public Platform` was selected in **Platform Type**, above. Enter the license ID from the `License_ID.txt` file in the package you downloaded. For details, see "Downloading the Delivery Package" on page 11.

5.1.4 JDBC SQL Connection

The **JDBC SQL Connection** section of the **Configuration** page configures the JDBC SQL connection to the Connector database.



The options in this section configure the JDBC SQL connection to the Connector database. The Connector supports the MySQL, Microsoft SQL Server, and Oracle databases.

Note: The name of the Connector database is either `ctctranslation` or `CTCTRANSLATION`. For details, refer to "Creating a Clay Tablet Connector Database on your Database Server Instance" on page 11.

Important: Every AEM server with the Connector installed needs its own Connector database. Mirrored or load-balanced servers can point to the same Connector database.

Configuration Option	Description
JDBC SQL Driver class	Enter the appropriate configuration parameter for your database implementation: ■ For Microsoft SQL Server, enter: `com.microsoft.sqlserver.jdbc.SQLServerDriver`. ■ For MySql, enter: `com.mysql.jdbc.Driver`. ■ For Oracle, enter: `oracle.jdbc.driver.OracleDriver`.
JDBC Connection URL	Enter the appropriate configuration parameter for your database implementation: ■ For Microsoft SQL Server, the URL should look like: `jdbc:sqlserver://192.168.1.66:1433;databaseName=ctctranslation;`. ■ For MySQL Server, the URL should look like: `jdbc:mysql://192.168.1.90:3306/ctctranslation?characterEncoding=UTF-8`. ■ For Oracle, the URL should look like: `jdbc:oracle:thin:@//192.168.1.66:1521/CTCTRANSLATION`.
Login name	The name for logging in to the SQL database.
Login password	The password for logging in to the SQL database.

General notes: In the examples above, `192.168.1.66` is the IP address of the database server. Alternatively, you can enter the domain name of the database server.

Notes for MySQL users: Ensure that `characterEncoding=UTF-8` is configured for MySQL. `3306` is the default port of MySQL Server. If your database server uses a different port, change the port number in the example to match your port number.

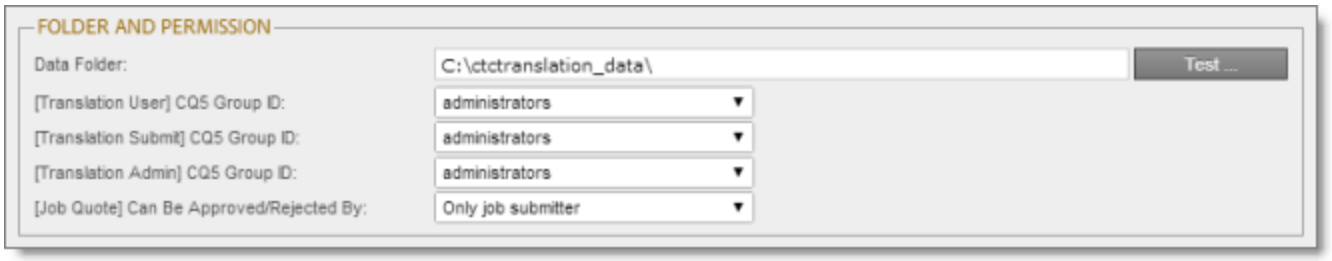
Note for Microsoft SQL Server users: `1433` is the default port of the Microsoft SQL Server. If your database server uses a different port, change the port number in the example to match your port number.

Note for Oracle users: `1521` is the default port of the Oracle DB Server. If your database server uses a different port, change the port number in the example to match your port number.

- To verify the JDBC connection and credentials, click the **Test** button. After testing, a message box indicates whether your configuration passed the test.

5.1.5 Folder and Permission

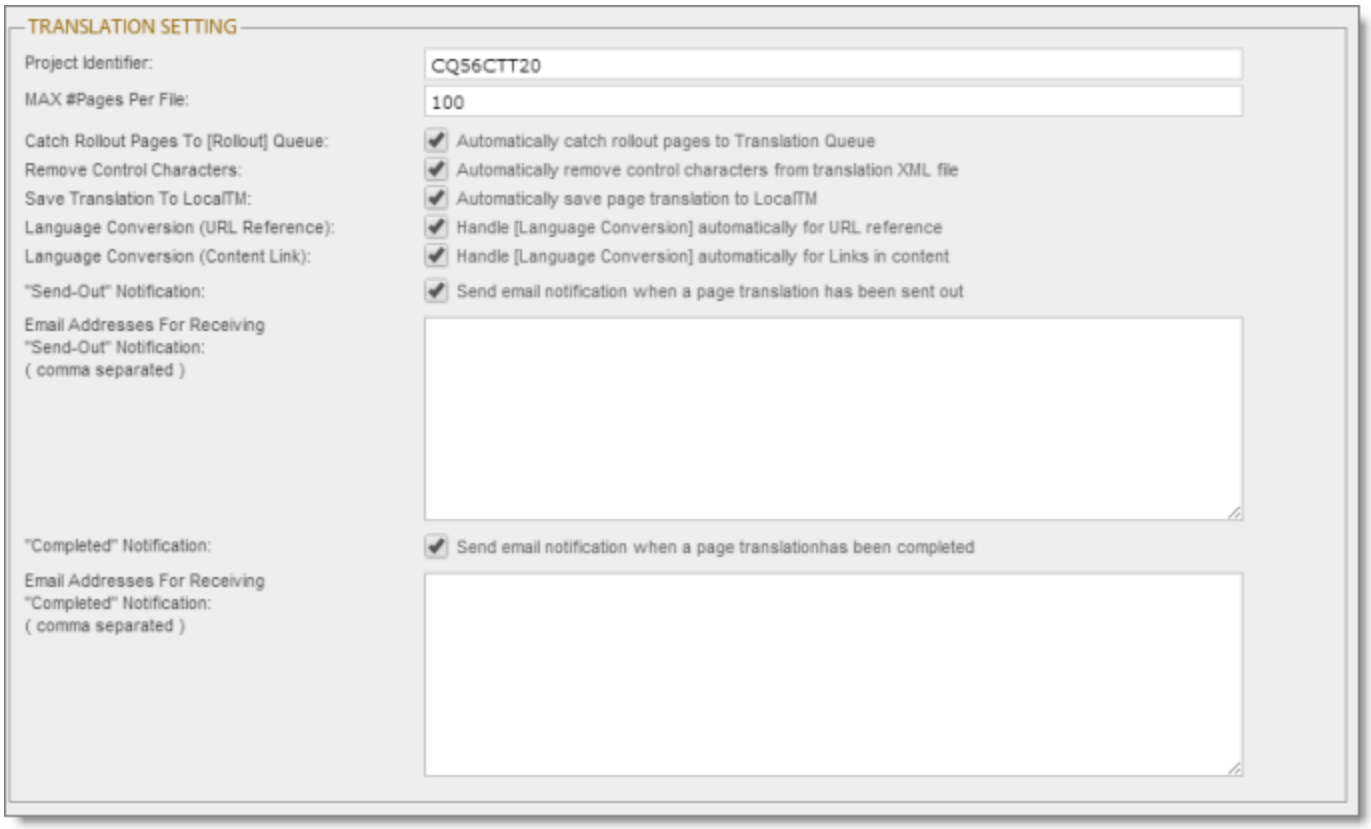
The **Folder and Permission** section of the **Configuration** page configures the Connector data folder and its permissions.



Configuration Option	Description
Data Folder	This is the path to the folder you created, where Connector will store translation data. For details, see "Creating the Clay Tablet Connector Folders" on page 12. ■ For Microsoft Windows, the path must end with `\`, for example, `c:\ctcdata\`. ■ For UNIX, including Linux, or Mac, the path must end with `/`, for example, `/usr/share/ctcdata/`. **Note:** The `files` and `logs` subfolders should have full access permissions for Java processes. ▸ To verify that this path is correct, click the **Test** button. After testing, a message box indicates whether your configuration passed the test.
[Translation User] CQ5 Group ID	Select the ID of the Adobe CQ group whose members are allowed to submit content only to the Translation Queue. The members cannot send out content for translation.
[Translation Submit] CQ5 Group ID	Select the ID of the Adobe CQ group whose members are allowed to submit translation jobs to the Translation Queue and send content out for translation.
[Translation Admin] CQ5 Group ID	Select the ID of the Adobe CQ group whose members are allowed to send out translation jobs for translation, configure the Connector, and remove completed translation jobs and statuses.
[Job Quote] Can be approved/rejected by	Select the user group whose members are allowed to approve or reject translation job quotes.

5.1.6 Translation Setting

The **Translation Setting** section of the **Configuration** page configures translation-specific options.



Configuration Option	Description
Project Identifier	The project name, as it will be displayed in the Translation Status page. If you leave this field blank, the project name is concatenated with the username and the date and time stamps in translation projects your company submits for translation. **Recommendation:** Enter your company name as the project identifier.
MAX #pages per File	This setting determines the maximum number of AEM pages that the Connector packs into a single XML file for translation. You can adjust the number to better suit your translation requirements. **Note:** Translation providers translate an entire XML file before returning it. Therefore, it takes more time to translate an XML file with more pages packed into it than an XML file with fewer pages packed into it. Specifying a lower maximum number of pages per file generally results in a faster turnaround time. The default value is `100`, which means the Connector will package content from 100 AEM pages into a single XML file. **Recommendation:** Discuss this with your translation provider.

Configuration Option	Description
Catch rollout pages to [Rollout] Queue	Select this option to enable users to send content to the Translation Queue when using AEM's MSM Rollout functionality. If this check box is selected, when users roll out pages, the Connector automatically sends content to the Translation Queue. **Note:** Alternatively, you can use the `CTCRolloutTranslation` workflow to enable this functionality. For details, see "Viewing the Rollout Workflow" on page 77. For information about when to use which configuration method, see "Configuring the Rollout Feature" on page 69.
Remove control characters	Some control characters, such as `0X10` and `0X13`, will cause an XML file to be invalid. However, some translation providers and translation management systems may not be able to handle control characters. This option instructs the Connector to automatically remove all control (non-printing) characters (`0x00-0x1F`) from an XML file before sending it out for translation.
Save translation to Local TM	This setting determines whether the translated content is stored at a property level in the local TM (translation memory). You can view these properties in CRXDE Lite. ■ If this check box is selected, the translated content is stored at a property level in the local TM. ■ If this check box is not selected, the translated content is not stored at a property level in the local TM.
Language Conversion (URL Reference)	For fields in AEM pages that contain only internal URLs, the Connector can automatically find the referring target URL and exclude this field from the page translation process. ■ Select this check box if the entire field is a URL reference, for example, `/content/www/en/us/products`, in a field of a page that will be translated to French, and there is no `<a>` link tag. In this scenario, the Connector treats this field as a URL reference field, and it does not send out this field for translation. It automatically converts the URL to `/content/www/fr/fr/products` for the French version of the content. ■ Clear this check box if you want the Connector to send out this field for translation.
Language Conversion (Content Link)	For fields in AEM pages that contain internal links, the Connector can automatically convert these internal links to point to the corresponding pages in the target language. ■ Select this check box to convert the link to the corresponding target page. For example, if you are translating English to French, a link that was previously to another English page will now point at the corresponding French page. ■ Clear this check box to maintain the link to the page in the source language. For example, if you are translating English to French, a link that was previously to another English page will still point at the original English page.

Configuration Option	Description
Send email notification when a page translation has been sent out	Select this check box if you want the Connector to send an email notification when it sends out a page for translation.
Email addresses for receiving "Send-Out" notification	Comma separated email addresses that will receive notification emails when the Connector sends out a page for translation.
Send email notification when a page translation has been completed	Select this check box if you want the Connector to send an email notification when a page translation has been completed.
Email addresses for receiving "Completed" notification	Comma separated email addresses that will receive notification emails when a page translation has been completed.

Note about email notifications: The above settings are global, so the Connector will send email notifications to these addresses for all translation projects. In the Connector, users can also add email notifications on a project basis. For details, refer to the *Clay Tablet Connector for Adobe Experience Manager User Guide*.

5.1.7 Mail Server Settings

The **Mail Server Settings** section of the **Configuration** page specifies the mail-server settings for notification emails that the Connector can send.

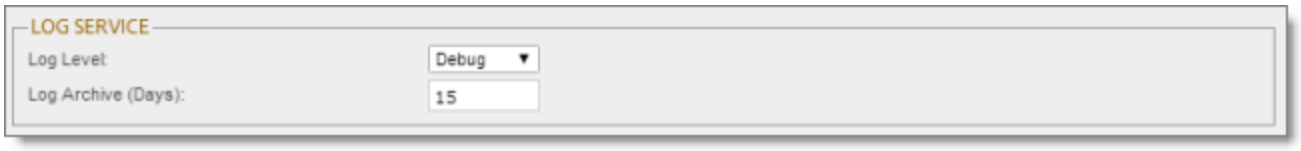
This section is required if you configured the Connector to send notification emails. For details, see "Translation Setting" on page 31.

Configuration Option	Description
SMTP Host	The IP or domain name of your SMTP server.
SMTP Port	The port used by your SMTP service.
Need Authentication	Indicates whether the SMTP server needs authentication. If necessary, contact your network administrator for this information.
[SMTP Auth] User	The login name or account if your SMTP server needs authentication.
[SMTP Auth] Password	The password to login to your SMTP server if it needs authentication.
SMTP STARTTLS	Indicates whether your SMTP server supports the StartTLS protocol. If necessary, contact your network administrator for this information.
Notification email from	The email address from which Connector notification emails will be sent. If this is not specified, the default email address is ctcnotification@clay-tablet.com.

- To verify the email settings, click the **Test** button. After testing, a message box indicates whether your configuration passed the test.

5.1.8 Log Service

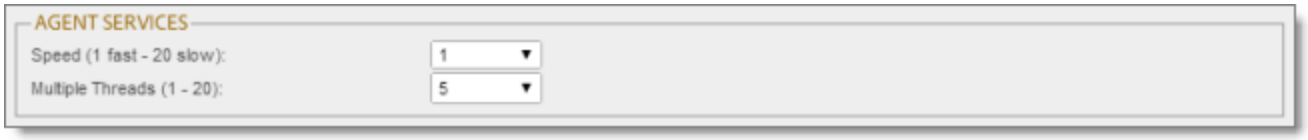
The **Log Service** section of the **Configuration** page specifies Connector log settings.



Configuration Option	Description
Log Level	There are three levels of logging: `Only Error`, `Detail`, and `Debug`. **Recommendation:** Initially set the log level to `Debug`, since this level of logging has all the details of the Connector translation process. This level of detail is required for Clay Tablet Support to assist you with any implementation issues. After the end-to-end translation process is running smoothly, you can change this to `Only Error`, so that only errors are logged.
Log Archive (Days)	By default, the Connector maintains 15 days of logs.

5.1.9 Agent Services

The **Agent Services** section of the **Configuration** page configures the settings for the `ctcPrepareService` and `ctcUploadService` services.



Configuration Option	Description
Speed	You can choose a level from 1 to 20 to adjust the load the `ctcPrepareService` and `ctcUploadService` agent services present to your servers. Setting 1 is very fast and therefore more resource intensive. The default value is 1 (fastest). Based on CTT testing, this setting will push CPU usage to 60% on average. You can monitor your server performance, and if the Connector uses too many server resources, you may need to adjust the speed level. **Note:** This speed setting affects all Clay Tablet agent services.
Multiple Threads	This is the maximum number of threads that the Connector can use for the Clay Tablet JDBC pool, and to concurrently prepare, send, download, and return translations to AEM. It is between 1 and 20.

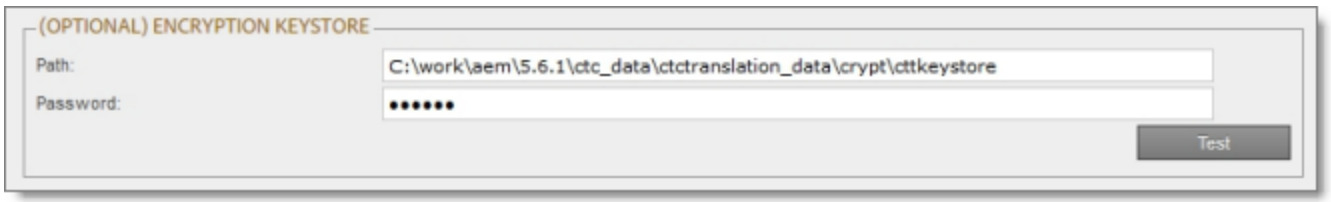
5.1.10 Encryption Keystore (SDL TMS only)

The **Encryption Keystore** section of the **Configuration** page configures the settings for the keystore that is used to encrypt and decrypt content for translation and translated content.

Note: To use this feature, you must install the Add-In for Configuring Content Encryption and Decryption, as described on page 14.

Note about the encryption framework: This is Java Cryptography Extension (JCE). This is an officially released Standard Extension to the Java Platform, which is described here: https://docs.oracle.com/javase/7/docs/technotes/guides/security/SunProviders.html#SunJCEProvider. For more information, refer to the *Clay Tablet Connector for Adobe Experience Manager User Guide*.

Note about the keytool utility: This is Java's keytool – Key and Certificate Management Tool, which is described here: https://docs.oracle.com/javase/6/docs/technotes/tools/solaris/keytool.html. For more information, refer to the *Clay Tablet Connector for Adobe Experience Manager User Guide*.

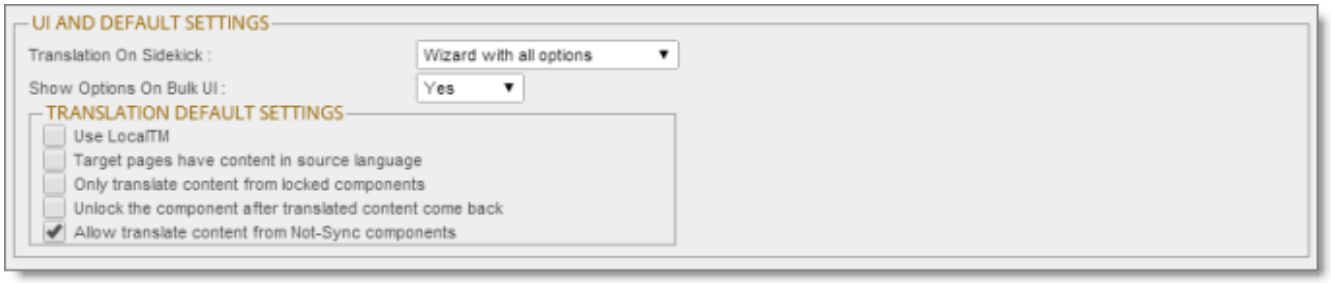


Configuration Option	Description
Path	The file path of the encryption keystore.
Password	The keystore password.

- To verify the keystore password, click the **Test** button. After testing, a message box indicates whether the password passed the test.

5.1.11 UI and Default Settings

The **UI and Default Settings** section of the **Configuration** page specifies the default user interface settings that are displayed to users.



Configuration Option	Description
Translation on Sidekick	This setting determines the user interface displayed when clicking **CTC Translation** on the **Page** tab of the Sidekick. Some companies prefer a simplified process where users cannot choose advanced translation options, while others prefer to empower their content editors to set various parameters each time they send out content. For instance contributors can choose to ensure source content is not overwritten during the translation process, as it pertains to MSM rollout processes. The following options are available: ■ `Simple UI`: Users can submit content to the Translation Queue. All options are displayed in a single dialog box. Advanced translation options *are not* displayed. ■ `Simple UI with all options`: Users can submit content to the Translation Queue. All options are displayed in a single dialog box. Advanced translation options *are* displayed. ■ `Wizard`: Users can either submit content to the Translation Queue or send content out for translation. Options are displayed in a two-page wizard. Advanced translation options *are not* displayed. This is the default setting. ■ `Wizard with all options`: Users can either submit content to the Translation Queue or send content out for translation. Options are displayed in a two-page wizard. Advanced translation options *are* displayed. This is the default setting. For more information about these options, including screen captures of the user interfaces displayed in Sidekick, see "Sidekick Options" on page 40.

Configuration Option	Description
Show options on Bulk UI	This setting determines whether to display the Options page in the Bulk Translation wizard. The Options page enables users to change the following options: ■ Use Local TM ■ Target pages have content in source language ■ Only translate content from locked components ■ Unlock the component after translated content come back ■ Allow translate content from Not-Sync components These options are described below.
Translation Default Settings	The following sub-section determines the default settings of these options when they are displayed in the Sidekick, Bulk Translation wizard, and the Translation Queue. For all these options: ■ If a check box is selected, then the default value of this option is selected. ■ If a check box is cleared, then the default value of this option is cleared. Many of the options in this section are related to AEM's MSM (Multi Site Manager) and Rollout features. For a description of these features and related concepts, as well as integration with the Connector, see "MSM and Rollout Settings" on page 46 **Note:** Depending on your company's configuration, users may not be able to change these values. For example, if the **Show options on Bulk UI** check box, described above, is not selected, then users cannot change these settings in the Bulk Translation wizard. In that case, this section determines the default value of these settings.
Use Local TM	This feature determines whether to check each component in the source version of the item for any content changes, and send only changed components out for translation. If a component was previously translated and it has not changed, then the Connector does not send it for translation again: Instead, it uses the stored translation. This feature reduces the quantity of content that the Connector sends to translation providers, which reduces your cost. However, it needs the Connector translation backup data, and it increases the Connector processing time before sending out the items for translation. ■ If this check box is selected, the Connector checks whether content was already translated before sending it out for translation. ■ If this check box is cleared, the Connector sends out content for translation without checking whether it has already been translated.

Configuration Option	Description
Target pages have content in source language	This option is relevant when the target pages are MSM (Multi Site Manager) live copy pages, which means that AEM automatically updates a target page when the corresponding source page changes. It prevents the Connector from overwriting unique source content that already exists in the target pages. This is useful when you are sending a page for translation that has been used in the past to push content to other pages, and includes target page content which has been changed, for example, regionalized. In this scenario you do not want to overwrite the regionalized content as the translation process occurs. Select this option when you *do not* want the Connector to overwrite components in the target pages that include regionalized content with the newly translated content. ■ If this check box is selected, the Connector *does not* overwrite unique source content that already exists in the target pages. ■ If this check box is cleared, the Connector *does* overwrite unique source content that already exists in the target pages.
Only translate content from locked components	This option enables users to send out only content from locked components for translation. ■ If this check box is selected, users can send out content for translation only if it is from a locked component. ■ If this check box is cleared, users can send out content for translation whether or not it is from a locked component **Note:** Locked components have an inheritance relationship between a source Blueprint page and the connected live copy page. When sending content for translation using Sidekick, users can choose whether to send for translation the content from locked components, which is inherited from a Blueprint component. This is useful if, for example, the page has both global and regional information and you only want to translate (replace) the global content that is created via a Blueprint page. In this scenario, suppose that the regional content on the page is manually translated in house, and that it has not changed. You would not want to tamper with it. However, using the same scenario, the global content from head office *has* changed and needs translation. You would select this check box to separate the content and localize only the new, inherited content. **Note about Blueprint pages:** If the **Pickup Content From Blueprint Pages** setting is specified, then the Connector always acts as though this option is selected, even if it is not selected. This occurs because only content from locked components are rolled out from Blueprint pages to Livecopy pages. For more information, see "UI and Default Settings" on page 37.

Configuration Option	Description
Unlock the component after translated content come back	This option automatically unlocks a component after translated content returns. Suppose you send a page for translation that has been used previously to push content to other pages, and it includes target page content that has been changed, for example, regionalized. In this scenario you do not want to overwrite the regionalized content as the translation process occurs, so you select the **Target Pages Have Content In Source Language** option, which prevents the Connector from overwriting those regionalized target pages with newly translated content. If following that translation, you want to treat the resulting translations as regional, and you no longer want to inherit content from the Blueprint pages, select this check box. **Warning:** This breaks the inheritance between the component and its Blueprint page, so that it no longer inherits new content. However, you can use the `CTCRestoreOriginalSync` workflow to relock the component and recreate the inheritance. For details, see "Viewing the Restore Original Sync Workflow" on page 78. ■ If this check box is selected, the Connector automatically unlocks a component after translated content returns. ■ If this check box is cleared, the Connector does not automatically unlock a component after translated content returns.
Allow translated content from Not-Sync components	This option enables users to send content for translation even if it is not synchronized. This means it *does not* have a relationship to a Blueprint page, so it cannot be synchronized with it. This can happen if you are not using the MSM (Multi Site Manager) feature of AEM, or if this is a page with regionalized content that does not inherit content from a Blueprint page. ■ If this check box is selected, users *can* send out content for translation if it does not have a relationship to a Blueprint page. ■ If this check box is cleared, users *cannot* send out content for translation if it does not have a relationship to a Blueprint page. **Note about Blueprint pages:** If the **Pickup Content From Blueprint Pages** setting is specified, then the Connector always acts as though this option is selected, even when it is not. This occurs because only content from locked components is rolled out from Blueprint pages to Livecopy pages. For more information, see "Enabling Content Collection from Blueprint Pages" on page 73.

5.1.11.1 Sidekick Options

The following table describes the possible values for the **Translation on Sidekick** option in the **UI and Default Settings** section of the **Configuration** page. This page is described in "UI and Default Settings" on page 37.

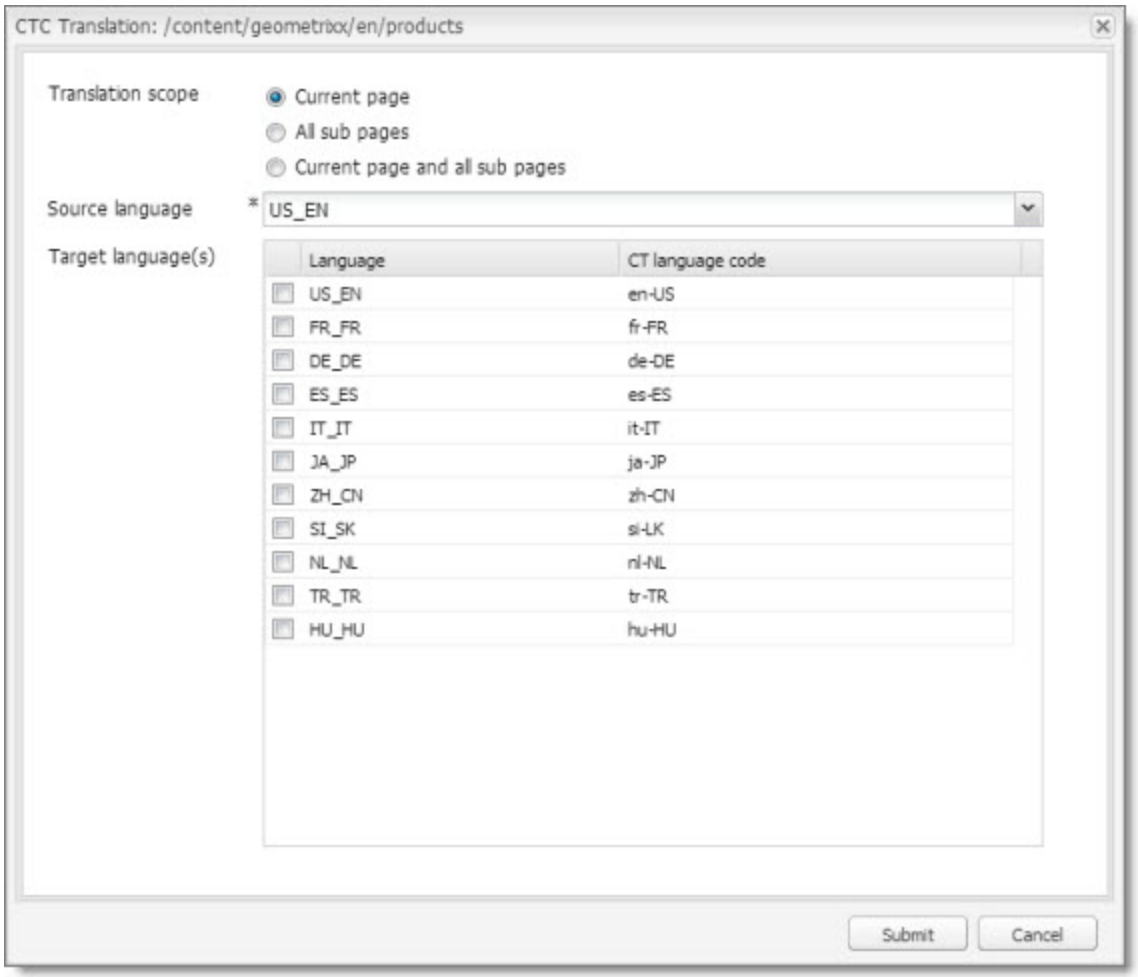
Translation on Sidekick Value	Where User Can Submit Content	User Interface	Advanced Translation Options Available
Simple UI	Translation Queue only	dialog box	no

Translation on Sidekick Value	Where User Can Submit Content	User Interface	Advanced Translation Options Available
Simple UI with all options	Translation Queue only	dialog box	yes
Wizard	Translation Queue or directly to translation	two-page wizard	no
Wizard with all options	Translation Queue or directly to translation	two-page wizard	yes

Screen captures of each option follow. For a detailed description of the translation interface within Sidekick, refer to the *Clay Tablet Connector for Adobe Experience Manager User Guide*.

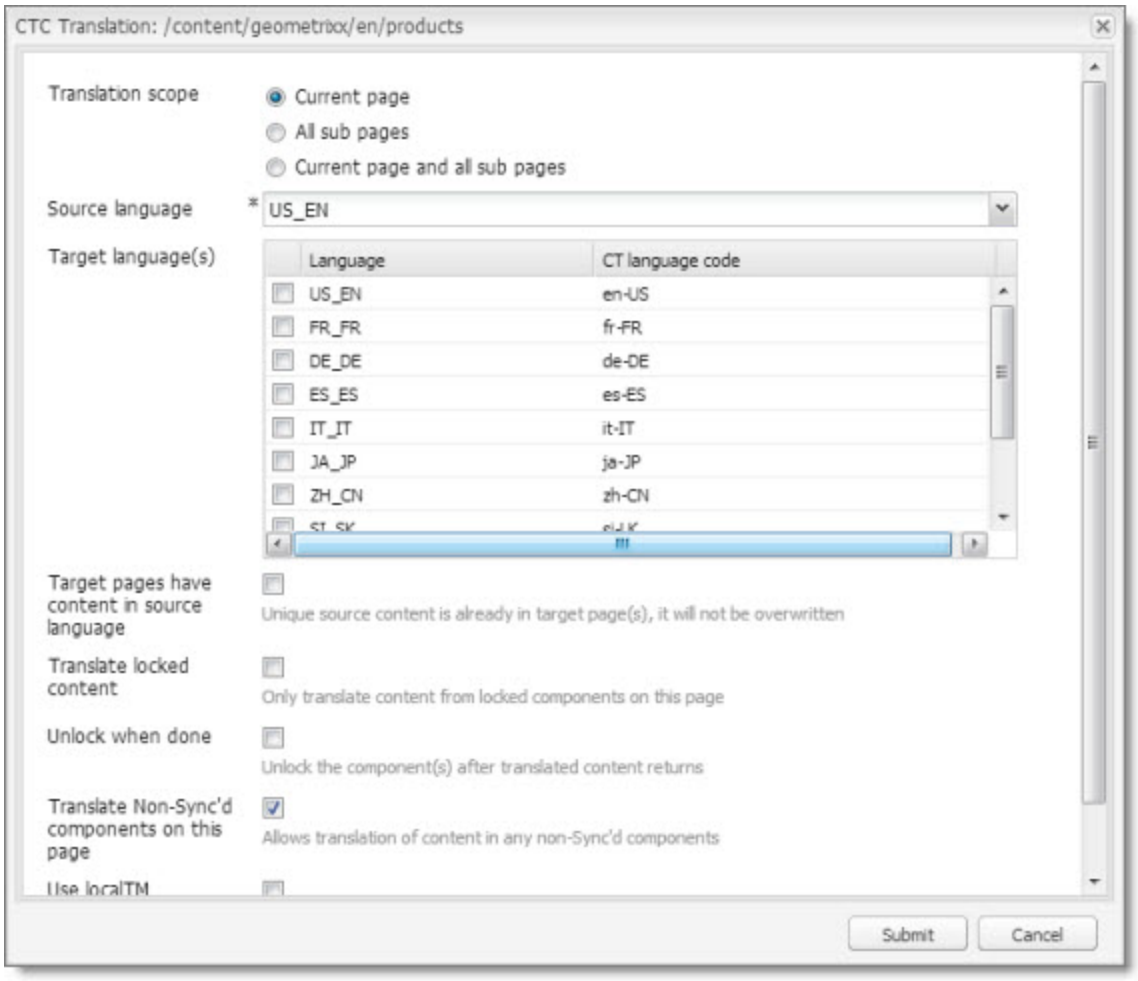
Simple UI

This option enables users to submit content to the **Translation Queue**. It does not display advanced translation options.



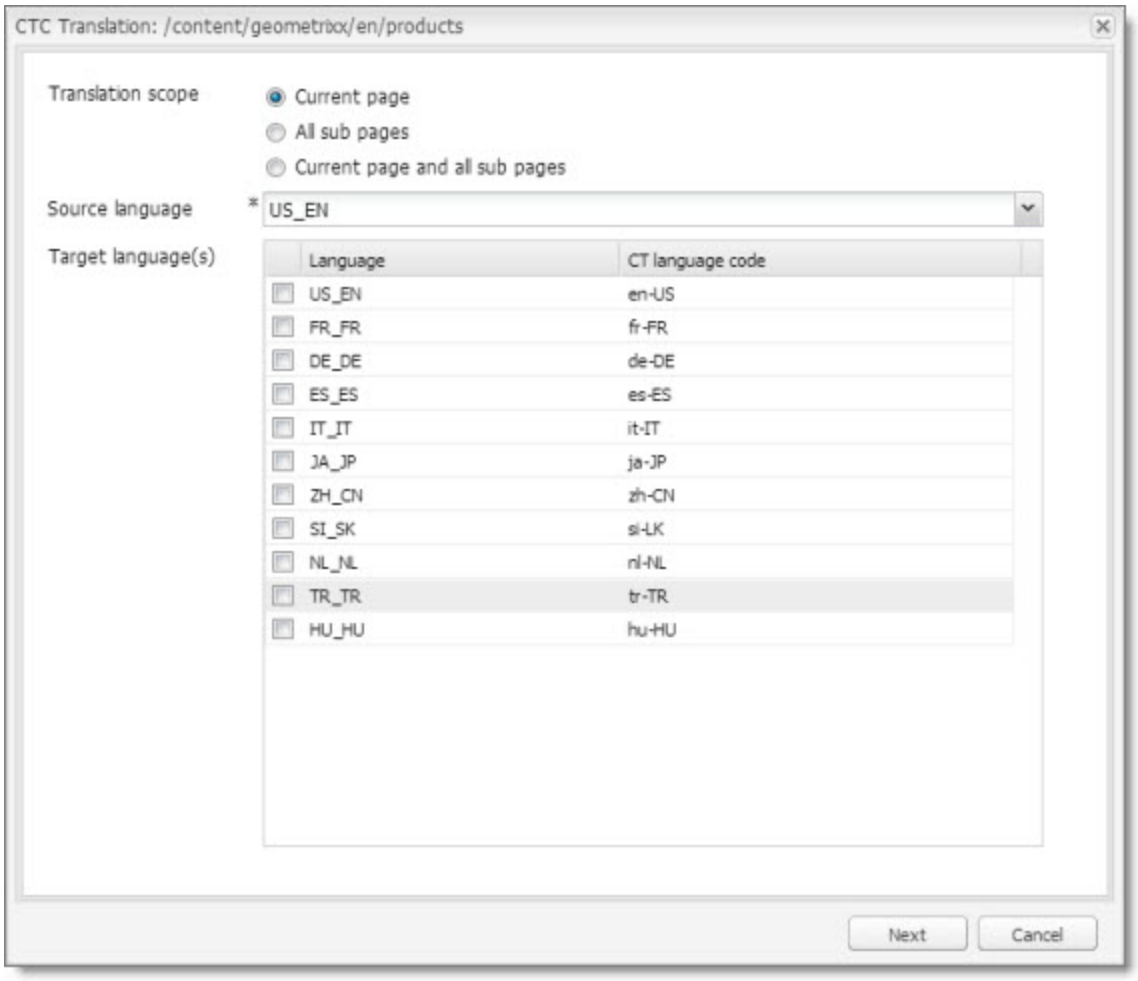
Simple UI with options

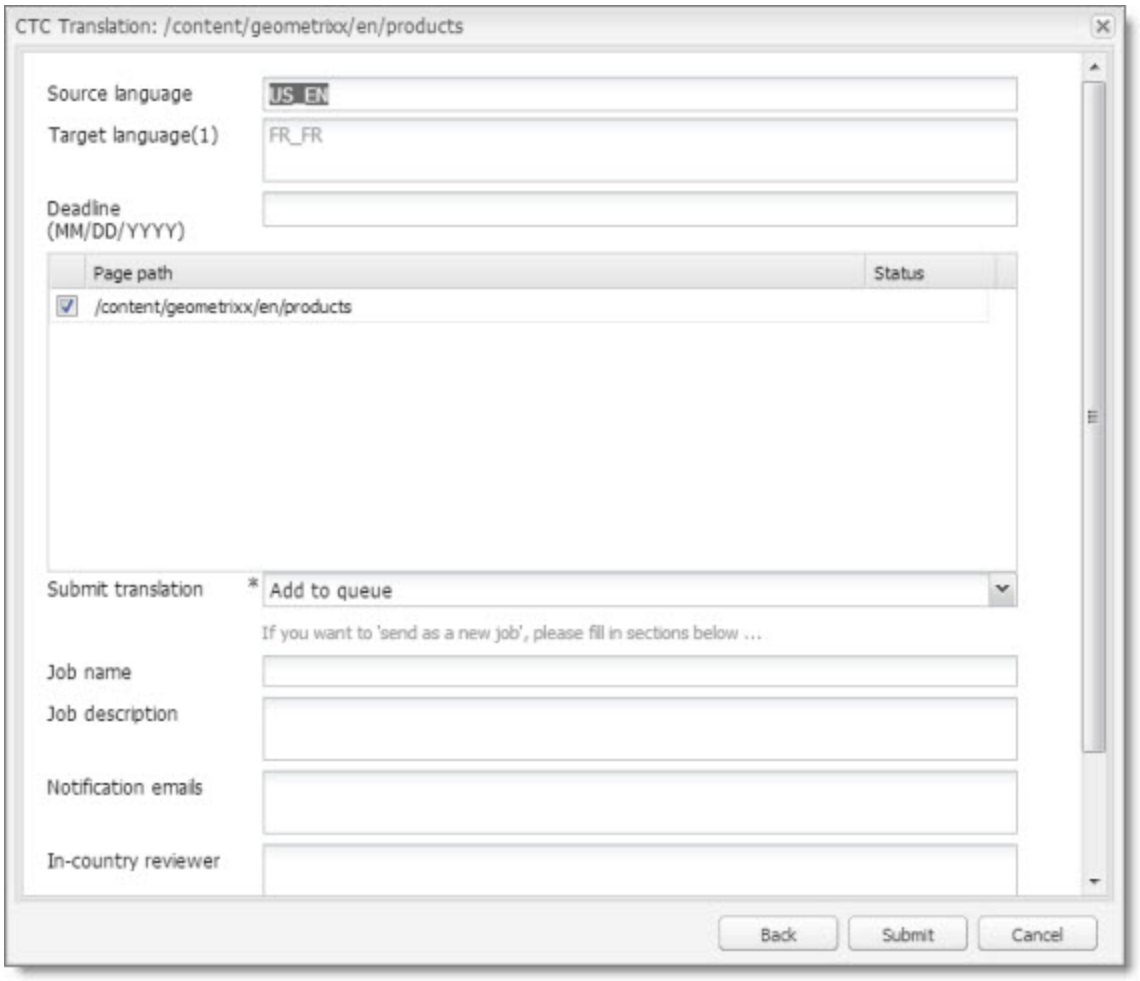
This option enables users to submit content to the **Translation Queue**. It displays advanced translation options.



Wizard

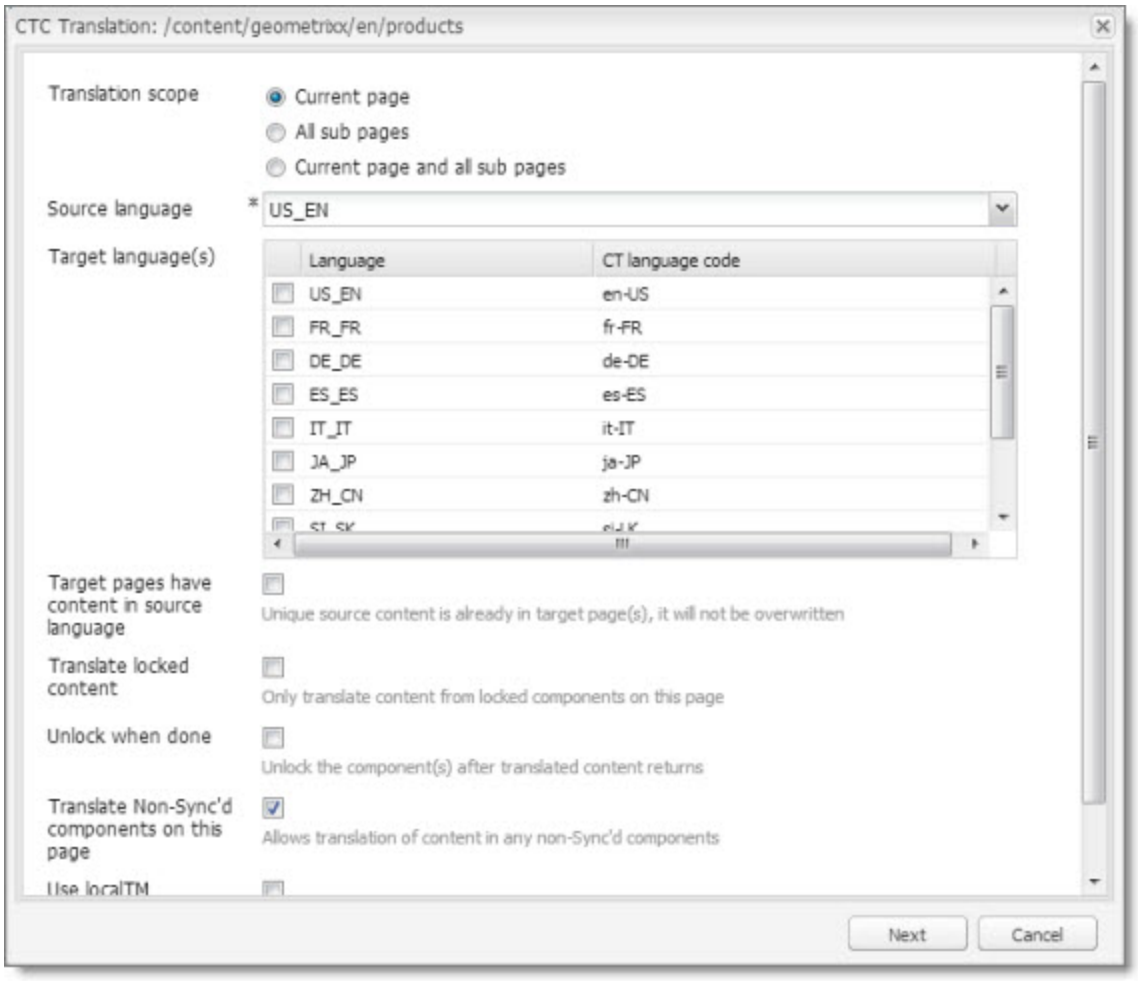
This option enables users to send content either to the **Translation Queue** or directly out for translation. It does not display advanced translation options. It is a two-page wizard.

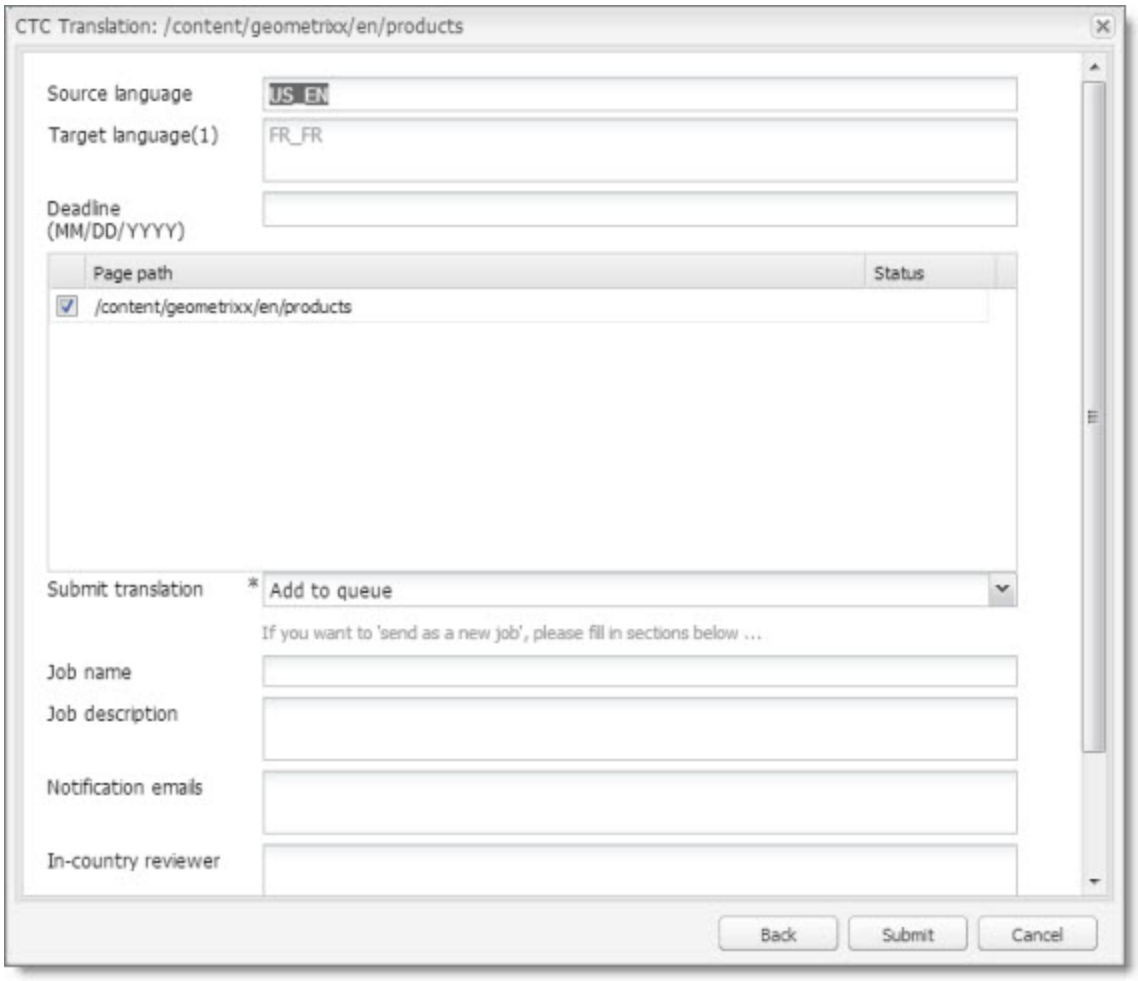

CTC Translation: /content/geometrixx/en/products
Translation scope
Current page
All sub pages
Current page and all sub pages
Source language
*
US_EN
Target language(s)
Language
CT language code
US_EN
en-US
FR_FR
fr-FR
DE_DE
de-DE
ES_ES
es-ES
IT_IT
it-IT
JA_JP
ja-JP
ZH_CN
zh-CN
SI_SK
si-LK
NL_NL
nl-NL
TR_TR
tr-TR
HU_HU
hu-HU
Next
Cancel



Wizard with options

This option enables users to send content either to the **Translation Queue** or directly out for translation. It displays advanced translation options. It is a two-page wizard.


CTC Translation: /content/geometrixx/en/products
Translation scope
Current page
All sub pages
Current page and all sub pages
Source language
*
US_EN
Target language(s)
Language
CT language code
US_EN
en-US
FR_FR
fr-FR
DE_DE
de-DE
ES_ES
es-ES
IT_IT
it-IT
JA_JP
ja-JP
ZH_CN
zh-CN
Target pages have content in source language
Unique source content is already in target page(s), it will not be overwritten
Translate locked content
Only translate content from locked components on this page
Unlock when done
Unlock the component(s) after translated content returns
Translate Non-Sync'd components on this page
Allows translation of content in any non-Sync'd components
Use localTM
Next
Cancel



5.1.11.2 MSM and Rollout Settings

AEM's MSM and the Rollout Process

AEM includes the powerful Multi Site Manager (MSM), which facilitates managing multiple versions of web sites. The versions may be region specific, for example, a car company may have a different English version of its web site for each English-speaking country where it sells cars. Typically, one version of the site is considered the "source" site. Content in each target website may have different kinds of relationships to the version in the "source" site:

- Some content may be common to all web sites, such as the car company's history.
- Some content may be a mix of common and specific. For example, the company may sell the same cars in many countries, but the cars may have slightly different features in some countries, depending on local regulations.

- Some content may be specific to a specific version of the site, such as information about car dealerships in a particular country.

Rollout is a process that propagates the changes made from the source (blueprint) to the target (live copy). When you *roll out* a site, AEM copies the *blueprint* (source) to the *live copy* (target). If the components are *locked*, then whenever the source content changes, AEM automatically updates the target content.

The following AEM concepts are helpful to understanding MSM and rollout:

Concept	Description
Blueprint	A source template for multiple pages, which can be *rolled out*.
Live copy	A copy of an existing page or Blueprint, which is the target. AEM can automatically update the live copy when changes occur to the source.
Locked	Specifies the inheritance relationship between the target and the source. When the source changes, AEM automatically updates a locked component in the target. In the car company example, this is useful for pages that have the same content in all versions, such as information about the history of the company.
Unlocked	Specifies the inheritance relationship between the target and the source. When the source changes, AEM does not update an unlocked component in the target. In the car company example, this is useful for regionalized pages that should not be updated, such as a list of local car dealerships.

For more information about these features and the rollout process, refer to the AEM user documentation, available at:

- http://dev.day.com/docs/en/cq/current/administering/multi_site_manager.html (AEM 5.6.1)
- http://dev.day.com/docs/en/aem/6-0/administer/sites/multi-site-manager/msm-sync.html (AEM 6.0)

Why Integrate the Connector with Rollout

The Connector extends the MSM functionality by adding the translation component to the rollout feature. This facilitates using rollout not only to manage multiple region-specific sites, but also to manage multiple language-specific sites. The following table describes the advantages of using the Connector with rollout:

	Using Rollout	Not Using Rollout
Process	Roll out pages, which automatically sends them to the Translation Queue.	1. Roll out a same-language version. 2. Translate copied version.
Number of steps	One step.	Two steps.
link between source and content	Source and target can be linked, so when source is updated, changes are automatically sent to the Translation Queue.	No linkage between source and target.

How the Connector Fits into MSM and Rollouts

The Connector does not have its own user interface during rollout: when you roll out content, you use AEM's rollout interface. The Connector manages the translation during the rollout based on your company's settings for the following options:

- AEM only translate content from locked components
- Target pages are MSM live copy pages/Target Pages Have Content In Source Language
- Unlock the component after translated content come back
- Allow translated content from Not-Sync components

5.2 Configuring Connector Languages

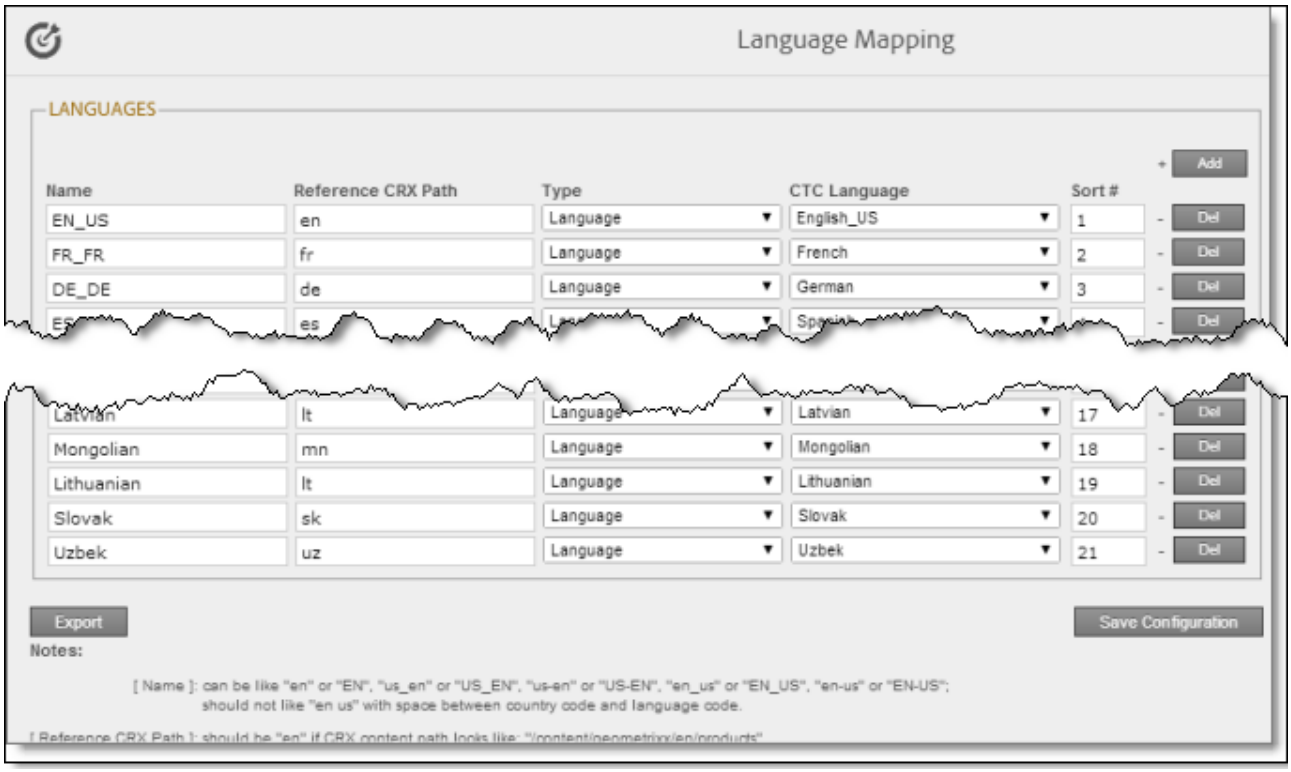
You configure the language branches in the Web site structure where the Connector returns translated content, and you configure the language options for Sidekick and the Bulk Translation wizard.

You must correctly configure all the languages you are using on your site before sending any jobs for translation.

Important: Do not change the name of a language or delete a language if there is translation content in the Translation Queue, or if there are translation jobs in progress.

To configure languages for the Connector:

1. Click **Admin Tools > Language Mapping** in the Clay Tablet Connector rail to open the **Language Mapping** page. For information on opening the Clay Tablet Connector rail, see "Configuring the Connector" on page 24.



2. Click **Add** in the top-right corner of the page to add a new language.

   A blank row is displayed at the bottom of the list. Enter the new language in this row.

3. Enter the following information in the appropriate columns:

Column	Description	Example
Name	The name of the language, which is the language identifier. **Note:** Do not use a space between the language code and country code. Instead, use an underscore (_).	CA_FR
Reference CRX Path	The path to the content for the language in CRXDE Lite. ■ If the CRX content path is similar to `/content/geometrixx/en/products`, this should be similar to `en`. ■ If the CRX content path is similar to `/content/geometrixx/us/en/products`, this should be similar to `us/en`.	ca/fr
Type	The type of language identifier. Select one of the following: ■ `Country` ■ `Language` ■ `Country + Language`	Country + Language
CTC Language	The corresponding Connector language code. Select it from the list.	French_Canada

Column	Description	Example
Sort #	This is the importance you assign to the language code, which determines the order in which it is displayed in a list of languages. The most important is 1.	1

Note: Any new language you add is not automatically displayed in the Bulk Translation wizard or in Sidekick. For the language to be displayed there, you must add it to the relevant team profile, as described in "Configuring Team Profiles" on page 66.

4. Repeat steps 2 and 3 for any additional languages to add.
5. You can modify the values for any other languages in the list.
6. When you are done, click **Save Config** at the bottom of the page.

This language configuration will be displayed in the Bulk Translation wizard and when accessing the Connector from Sidekick.

- To delete a language so that it will no longer be displayed in the Bulk Translation wizard and when accessing the Connector from Sidekick, click the corresponding **Del** button.
- To export the language settings to an XML file, click **Export** at the bottom of the page. The Connector downloads the XML file.

5.2.1 Adding Custom Clay Tablet Languages and Codes

The Clay Tablet SDK includes a list of pre-defined languages and language codes. If your company wants to use an additional language that does not have a corresponding Clay Tablet language and code, then you can create a custom Clay Tablet language and language code support.

However, your company will be sending content to a translation management system (TMS) that does not support your new language code. Therefore, you must contact both Clay Tablet Technologies and the translation provider so that they can map your language codes to those supported by the TMS.

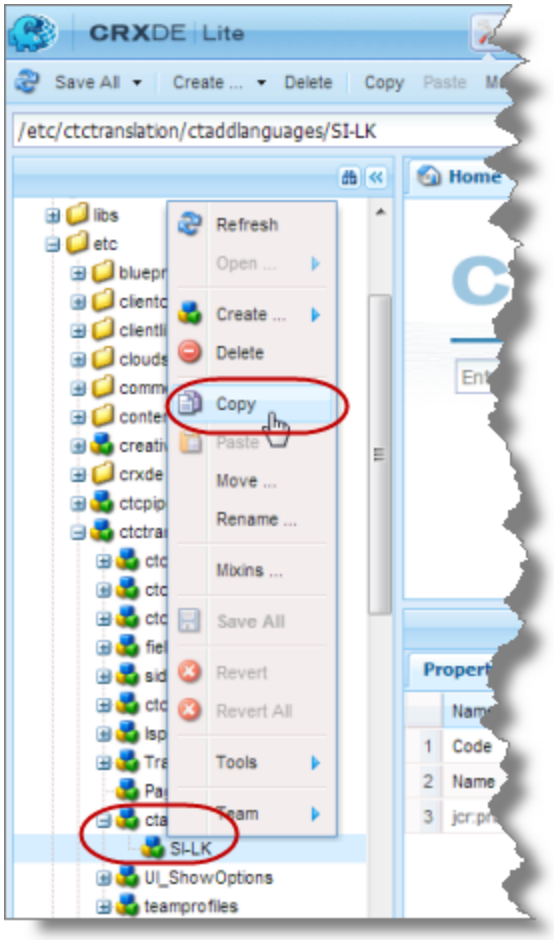
Recommendation: Use standard Clay Tablet language codes.

1. To add a custom language, do one of the following:
   - In the Touch-Optimized UI of AEM, click **Tools** in the AEM rail. Then, in the **Granite Operations** section, click **CRXDE Lite**.
   - In the Classic UI of AEM, click **CRXDE Lite** in the right pane.
   - In your Web browser, navigate to `/crx/de/index.jsp` on your AEM instance.

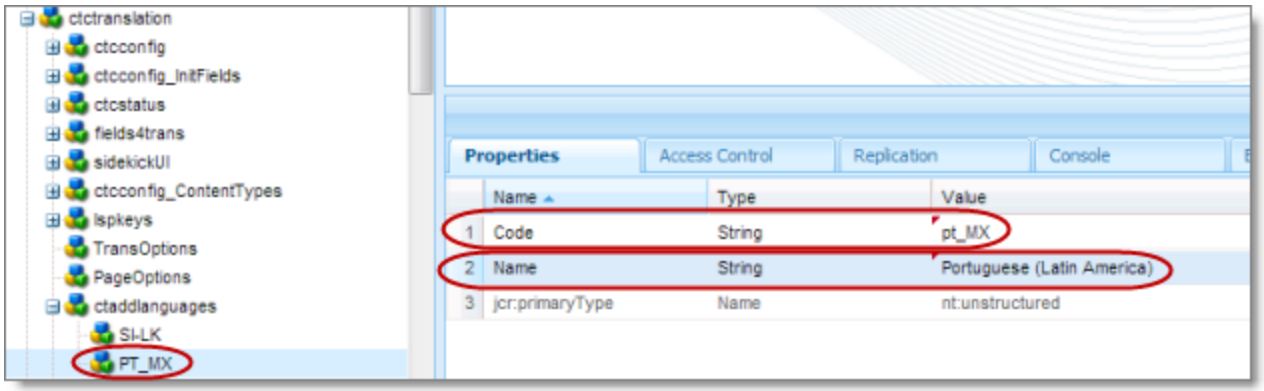
   CRXDE Lite opens.

2. In the navigation pane on the left, navigate to `/etc/ctctranslation/ctaddlanguages`.

3. Select the sample language node, and copy and paste it as a new node.

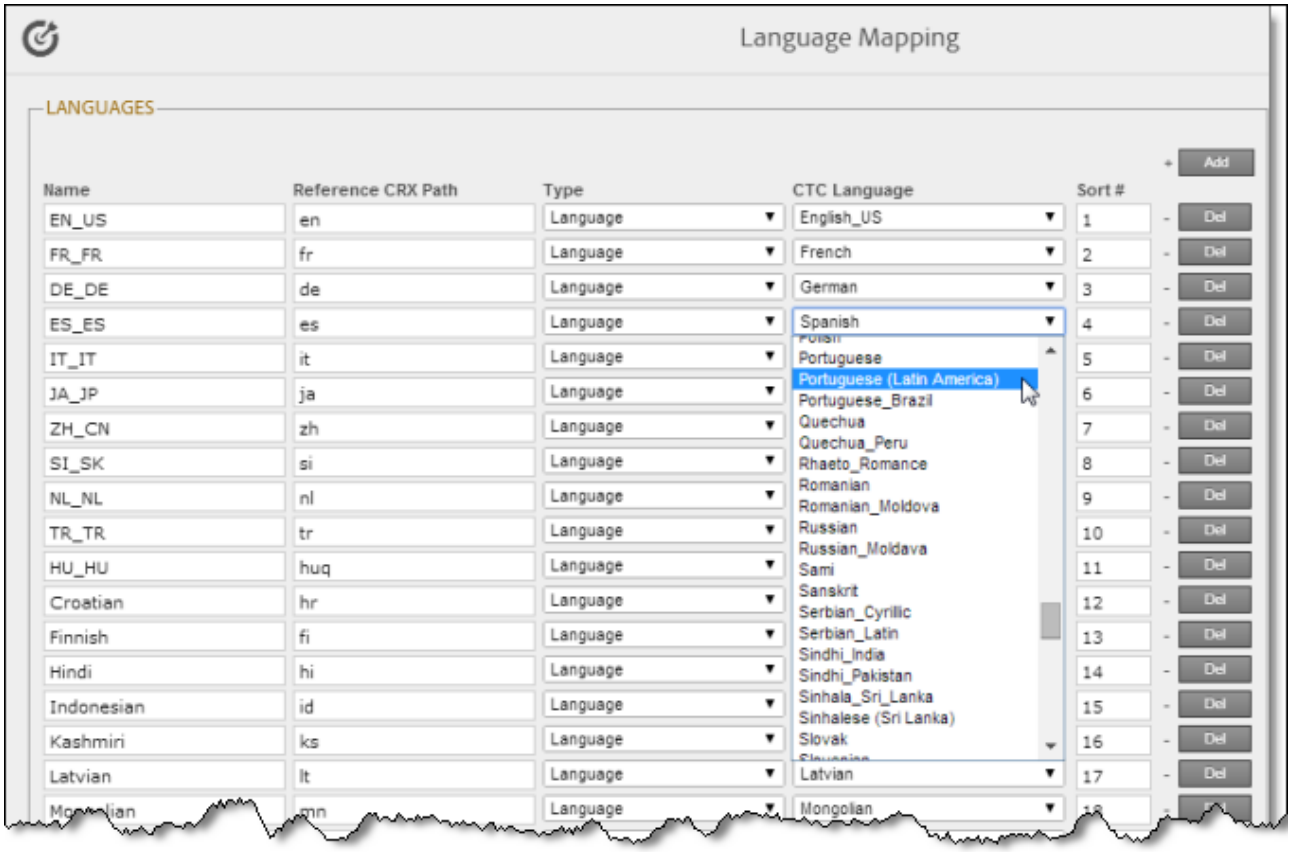


4. Rename the new node, and change the values of the **Code** and **Name** properties.



5. In the CRXDE Lite Menu, click **Save All**.

The new language code is now available for selection in the **Language Mapping** page, which is described on "Configuring Connector Languages" on page 48.



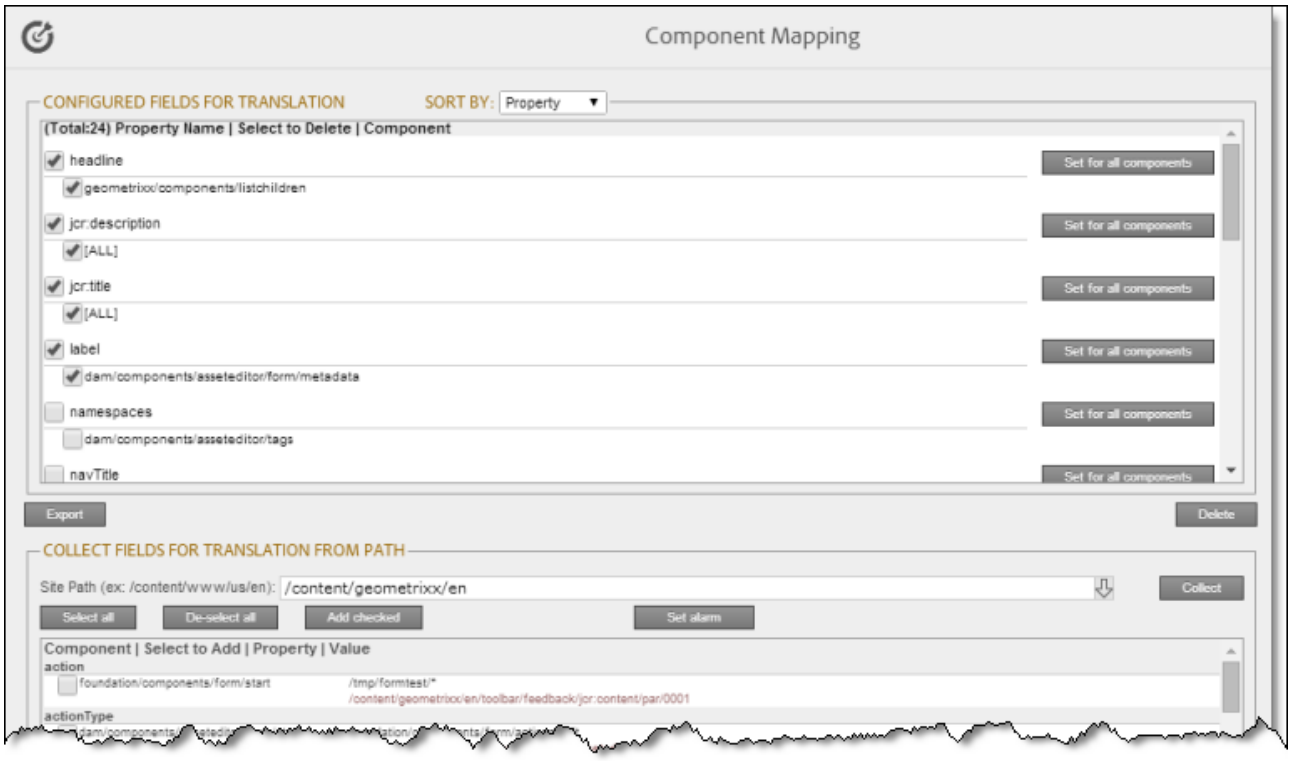
5.3 Configuring which Components and Properties to Send Out for Translation

The content of an AEM page is created from a collection of page *components*. A component has different *properties*, which are types of fields. You must configure which components and properties the Connector can send out for translation.

To configure which components and properties the Connector sends out for translation:

1. Click **Admin Tools > Component Mapping** in the Clay Tablet Connector rail to open the **Component Mapping** page. For information on opening the Clay Tablet Connector rail, see "Configuring the Connector" on page 24.

   For information on using this page to subscribe to email notifications when new components are added, see "Subscribing to Email Notifications about New Fields and Components" on page 55.



The **Configured Fields for Translation** section at the top of the page displays all the components and properties that are currently configured for the Connector to send out for translation.

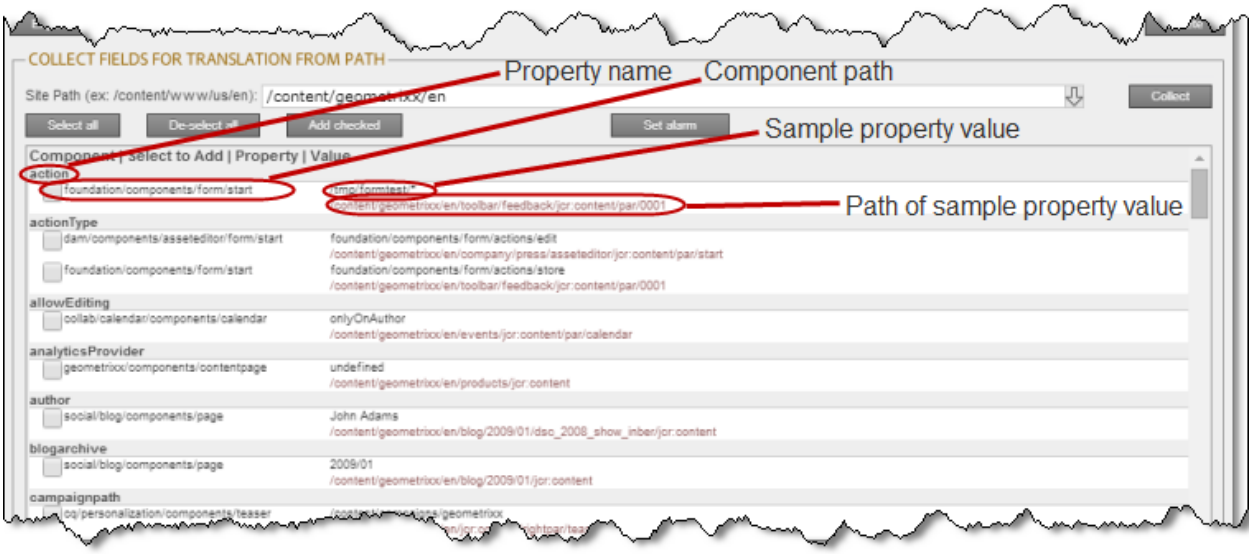
2. Optional. You view a list organized either by property, or by the component.
   - To view the list organized by property, in the **Sort By** field, select `Property`. This is the default setting.
   - To view the list organized by component, in the **Sort By** field, select `Component`.
3. Optional. You can instruct the Connector to collect all properties that are in a specific component for translation. Similarly, you can instruct the Connector to collect all components that have a specific property for translation. You can also remove any component or property from the list, so that the Connector does not collect it to send for translation.
   - If you are viewing the list organized by property, then the properties are displayed in alphabetical order. Each component that has this property is displayed underneath it. The components are listed alphabetically by path.
     - To instruct the Connector to send all components with a specific property for translation, click the corresponding **Set for all components** button. The list under the property updates, and the Connector displays `[ALL]` instead of a list of all components.
     - To remove a component from the list for a property, select the corresponding check box and click **Delete**. This prevents the Connector from sending out for translation this property in this component.

- If you are viewing the list organized by component, then the components are displayed in alphabetical order. Each property in a component is displayed underneath it. If there are any properties displayed in all components, these are at the top of the list, under `[ALL]`.
  - To remove a component from the list, so that the Connector does not send it out for translation, select the corresponding check box and click **Delete**.
  - To remove a property under a component from the list, so that the Connector does not send out that property for translation when it is in that component, select the corresponding check box and click **Delete**.

4. Optional. You can export as an XML file the list of fields that the Connector sends out for translation. Click **Export** at the bottom of this section. The Connector downloads the file.

5. Optional. In the **Collect Fields for Translation from Path** section, you can add additional properties to the list that the Connector can send out for translation.
   a. In the **Site path** field, specify the highest-level folder that contains the component with the properties you want to include.
      - Click the arrow at the end of the field , browse to the folder, and click **Select**.
      - Enter the CRX path of the folder in the following format: `/content/www/us/en`.
   b. Click **Collect**.

   The Connector searches all components and finds the string-type properties (fields) for all items. When it is done, the Connector displays the lists of properties in the specified folder in the **Collected Possible Property Fields for Translation** list. Under each property, the Connector displays the path of the component where it is located. To the right, the Connector displays the sample value of the string and underneath it, the path of origin of the sample value.



c. Select the check boxes for all the properties you want the Connector to send out for translation.

d. Click **Add checked**.

These property fields are now displayed in the **Configured Fields for Translation** section at the top of the page.

In the **Collected Possible Property Fields for Translation** section, you can also perform the following actions:

- To clear all selected check boxes, click **De-select all**.
- To select all check boxes, click **Select all**.
- To subscribe to email notifications when new components are added to your site, click **Set alarm**. For details, see "Subscribing to Email Notifications about New Fields and Components" on page 55.

5.4 Subscribing to Email Notifications about New Fields and Components

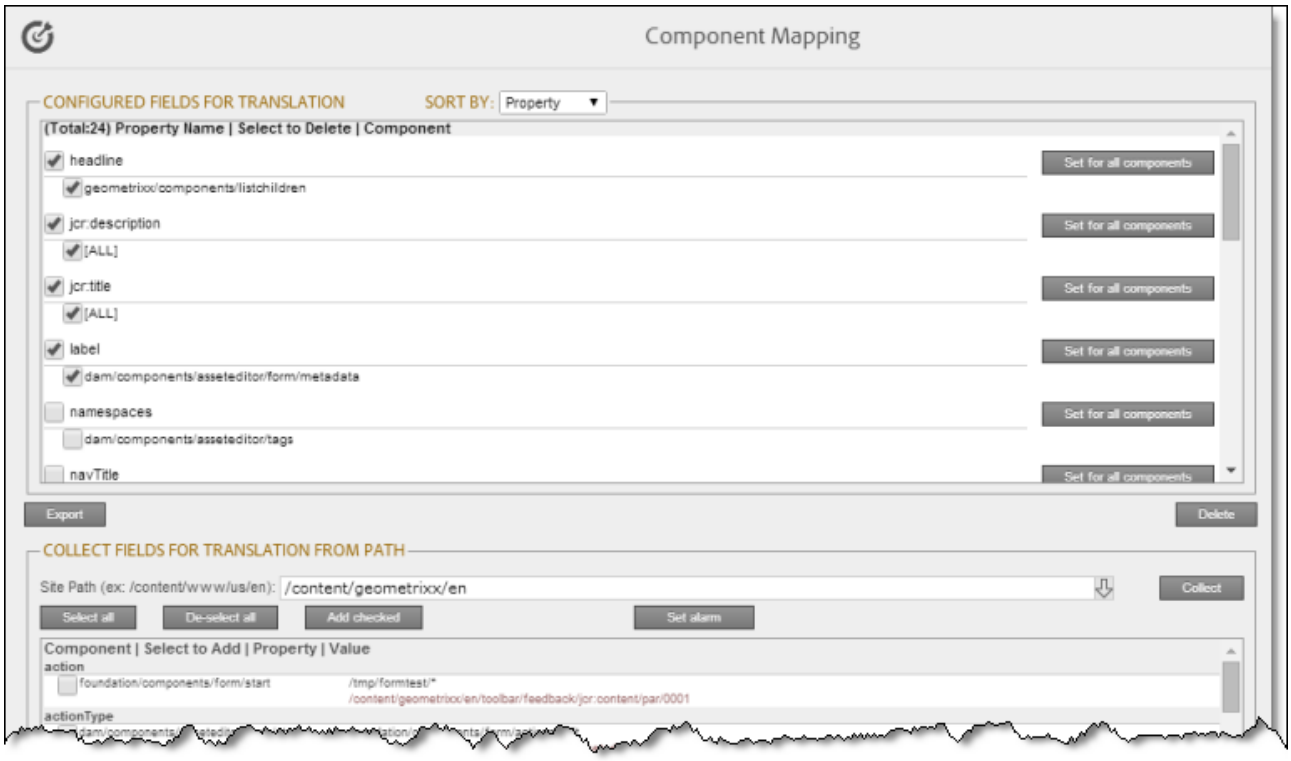
If you are planning to add new components in the future, you can subscribe to receive email notifications when new components are added to your site. When new components are added, you receive an email notification listing the new components, and you can then configure the Connector to send out the new properties for translation.

Subscribing to email notifications about new fields and components is recommended in the following scenarios:

- If you want to collect a lot of content for translation, for example, if you are still building your site.
- If you are planning to add new components in the future. When new components are added, the specified user receives an email notification listing the new components.

1. Click **Admin Tools > Component Mapping** in the Clay Tablet Connector rail to open the Component Mapping page. For information on opening the Clay Tablet Connector rail, see "Configuring the Connector" on page 24.

   For information on using this page to configure which properties and components to send out for translation, see "Configuring which Components and Properties to Send Out for Translation" on page 52.



2. Click **Set alarm**.

   The Setup alarm for new fields dialog box opens.

3. In the **Site path to search** box, type in the path to the content for which to receive email notifications when new components are added.

4. In the **Email address to notify** box, enter the email address that will receive email notifications when new components are added under the specified path.

5. Click **Save**.

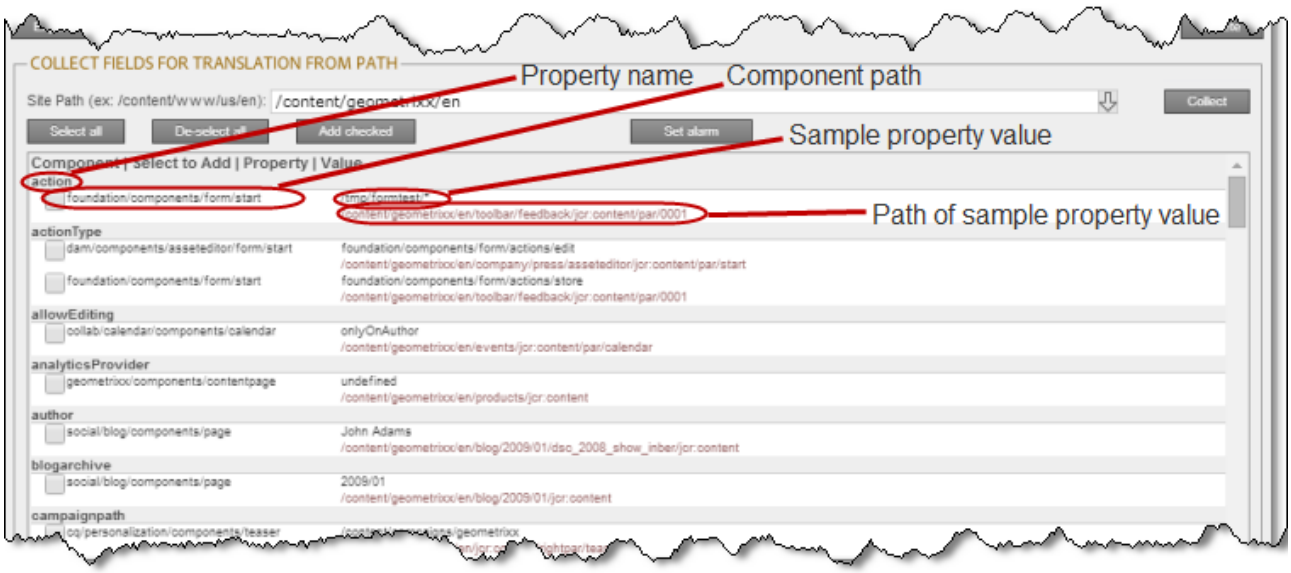
   Every hour, the Connector searches for and collects new components for translation. Whenever the Connector collects new components, it sends an email notification to the specified email address. The email notification is similar to the following:

```
From: claytabletqa@gmail.com [mailto:claytabletqa@gmail.com]
To: smith@example.com
Subject: Found 2 new Properties
```

```
Found 2 new added Properties.
1) Property Name: jcr:description
Value:
Component: foundation/components/form/text
Path: /content/geometrixx/en/toolbar/feedback/jcr:content/par/0002
2) Property Name: options
Value:
Component: foundation/components/form/dropdown
Path: /content/geometrixx/en/toolbar/profiles/edit/jcr:content/par/dropdown
```

6. After you receive this email notification, return to the **Component Mapping** page, and click **Load alarm fields**.

   The **Collected Possible Property Fields for Translation** list displays the collected properties.



7. Select the check boxes for the properties to add, and click **Add checked**.

This configures the Connector to send out the selected properties for translation.

5.5 Configuring Translation Providers and the CMS Address and Platform Keys

The Connector uses the license ID number you entered in "Translation Platform" on page 28 to generate the CMS address and platform keys you configure in this section.

Important - Keys: The Connector always initiates calls to the Clay Tablet Platform. However, the CMS address and platform keys enable establishing a secure, discrete connection between the Connector instance and the

Platform. Do not duplicate these keys or install them on multiple AEM Content Editor instances, because this is a violation of the Clay Tablet License Agreement. Using the same keys on multiple AEM Content Editor 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 support technical issues caused by duplicating or incorrectly installing keys only on a time and materials basis.

1. Click **Admin Tools > LSP and Keys** in the Clay Tablet Connector rail to open the **LSP & Keys** page. For information on opening the Clay Tablet Connector rail, see "Configuring the Connector" on page 24.

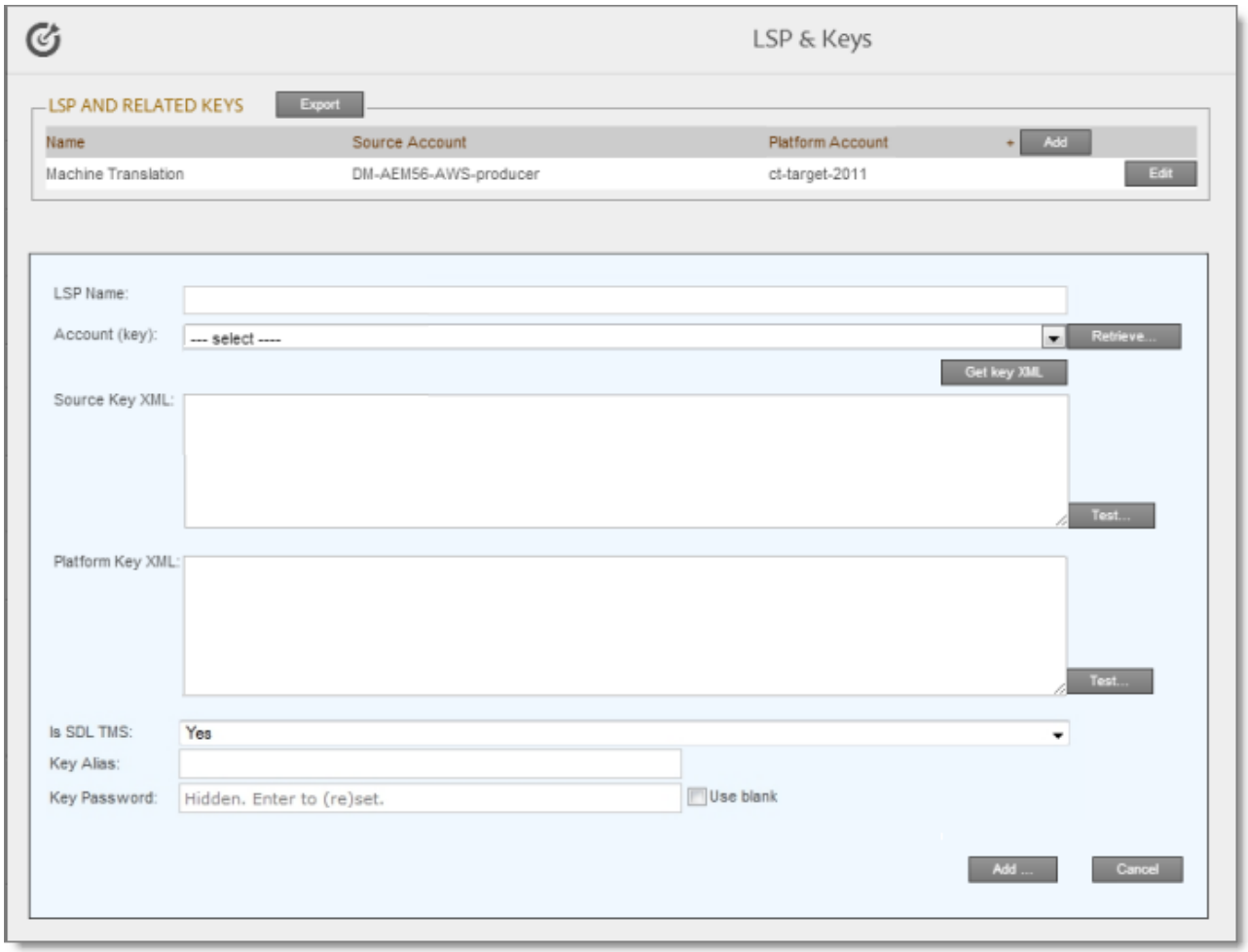
   The **LSP and Related Keys** section displays the account keys for all configured translation providers.

2. Optional. To export and download this information as an XML file, click **Export**.

3. To add a new translation provider and account license keys, in the top-right corner click **Add**.

   Note: To update or remove the account license keys for a current translation provider, click **Edit** for that translation provider.

   The **LSP & Keys** page expands.



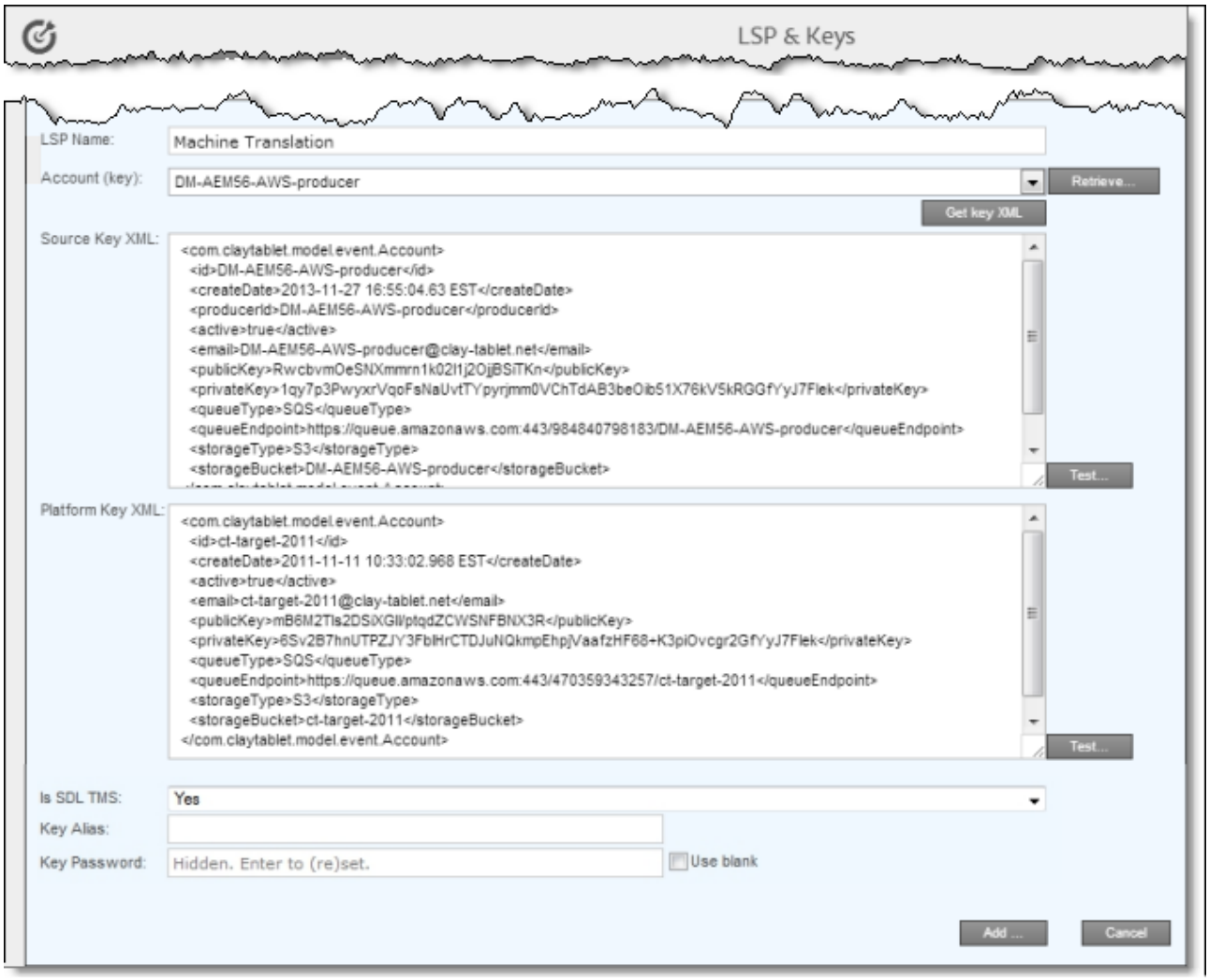
4. In the **LSP Name** field, type the name of your translation provider.
5. In the **Account (key)** field, click **Retrieve** and select the account license key for the translation provider.

   Note: After a key has been configured, you cannot select it again for use. It is displayed in the drop down list as unavailable, in gray.

   Tip: If keys are not displayed in the dropdown list, verify that you entered the license ID in the **Translation Platform** section of the **Configuration** page, as described in "Translation Platform" on page 28. If keys are still not displayed, you may need to configure a proxy server, as described in "Network Configuration" on page 27.
6. Click **Get key XML**.

   The **Source Key XML** and the **Platform Key XML** boxes are populated.

   - The **Source Key XML** has the CMS address key.
   - The **Platform Key XML** box has the platform key, for accessing the Clay Tablet Platform.



7. Click **Test** beside the **Source Key XML** box.

   A message box indicates whether this key passed the test.

8. Click **Test** beside the **Platform Key XML** box.

   A message box indicates whether this key passed the test.

9. If testing passed, then click **Add**. This updates the **Name**, **Source Account**, and **Platform Account** columns in the **LSP and Related Keys** section at the top of the page.

10. Optional. If you are configuring the Connector for content encryption and decryption, configure the following parameters:

    Note: This feature is currently supported only if the translation connector is the Connector for SDL TMS.

- In the **Is SDL TMS** list, select `Yes`. This indicates that your translation connector is the Connector for SDL TMS.
- In the **Key Alias** field, enter the name for identifying a key within the keystore.
- In the **Key Password** field, enter the password for securing the key. This ensures that even someone who can authenticate against the keystore cannot read an individual protected key entry.
- To use a blank password, select the **Use blank** check box.

  Note: Select this check box if there is no password for the key. The Java keytool utility, which you use to generate the encryption key, supports blank passwords. In this case, the keystore password unlocks the key.

11. If you are adding additional translation providers, repeat steps 3-10 for each one to add.

    After you add multiple translation providers, the **Default LSP** field is displayed.

12. Select your default translation provider and click **Save**.

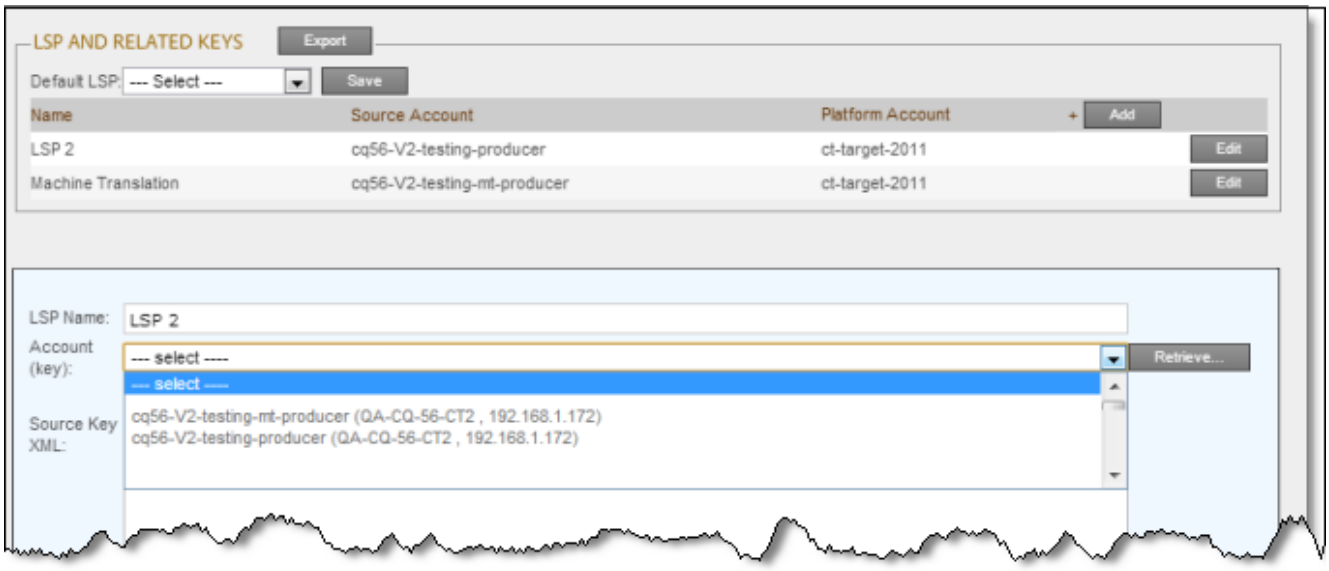
13. At the bottom of the page, click **Add** to save the keys for the new translation provider.

    Alternatively, if you clicked **Edit** earlier for an existing translation provider, the following buttons are displayed instead:

    - Click **Update** to save your changes to this translation provider.
    - Click **Delete** to delete the account license keys for this translation provider.
    - Click **Close** to close the bottom part of this page without saving any changes.

5.5.1 Configuring Translation Providers and Account License Keys when Installing a New or Updated Connector for AEM package

When you install a new or updated Connector for AEM package, you must reconfigure your translation providers and keys. If your keys are displayed in gray and you cannot select them when you attempt to retrieve them, please contact Clay Tablet Support to request releasing your license keys. For details, see "How to Contact Clay Tablet Support" on page 9.



5.6 Configuring Content Encryption and Decryption (SDL TMS only)

You can now generate your own keys to encrypt and decrypt content you send for translation from the Clay Tablet Connector for Adobe Experience Manager ("Connector for AEM") to the Clay Tablet Connector for SDL TMS ("Connector for SDL TMS").

Note: To use this feature, you must install the Add-In for Configuring Content Encryption and Decryption, as described on page 14.

Before translation:

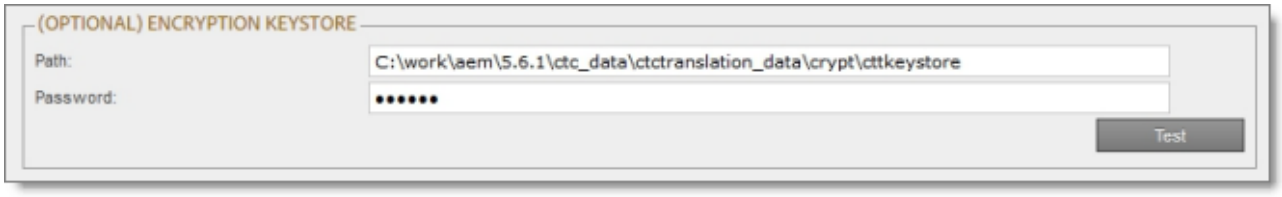
1. The Connector for AEM uses the generated keys to encrypt the content once it is ready for translation.
2. The Connector for AEM sends the encrypted content via the Clay Tablet Platform to the Connector for SDL TMS.
3. The Connector for SDL TMS uses the generated keys to decrypt the content before sending it to the SDL TMS.

After translation:

1. The Connector for SDL TMS uses the generated keys to encrypt the translated content once it is ready to send back to AEM.
2. The Connector for SDL TMS sends the encrypted content via the Clay Tablet Platform to the Connector for AEM.
3. The Connector for AEM uses the generated keys to decrypt the content before sending it to AEM.

To configure this option:

1. Click **Admin Tools > Configuration** in the Clay Tablet Connector rail to open the **Configuration** page. For information on opening the Clay Tablet Connector rail, see "Configuring the Connector" on page 24.
2. Scroll down to the **Encryption Keystore** section.



   a. In the **Path** field, enter the file path of the encryption keystore.
   b. In the **Password** field, enter the keystore password.
   c. Click **Test** to test the password.

   A message box indicates whether the password passed the test.

3. Click **Admin Tools > LSP and Keys** in the Clay Tablet Connector rail to open the **LSP & Keys** page. Scroll down to the bottom of the page.

   a. In the **Is SDL TMS** list, select `Yes`. This indicates that your translation connector is the Connector for SDL TMS.

   Note: This feature is currently supported only if the translation connector is the Connector for SDL TMS.

   b. In the **Key Alias** field, enter the name for identifying a key within the keystore.
   c. In the **Key Password** field, enter the password for securing the key. This ensures that even someone who can authenticate against the keystore cannot read an individual protected key entry.
   d. To use a blank password, select the **Use blank** check box.

   Note: Select this check box if there is no password for the key. The Java keytool utility, which you use to generate the encryption key, supports blank passwords. In this case, the keystore password unlocks the key.

5.7 Configuring Connector Search Agents

The Connector can use a search agent to collect pages for translation in the Bulk Translation wizard. The Connector installs the following three pre-configured agents:

- Get current page
- Get all children pages
- Get current page and all children pages

You can create additional custom search agents to find any kind of content in your site for translation.

To make a custom search agent available to the Bulk Translation wizard:

1. Write a search agent as a Java class and upload it.

   This Java class should implement the `PageSearchProcess` interface. It should use the following method: `public List<CollectedPage> collectPages4Translation(String searchRootPath, Session session, PageManager pageManager)`.

   This requires the Connector for AEM API, which includes sample code. To request this API, contact Clay Tablet Support, as described on page 9.

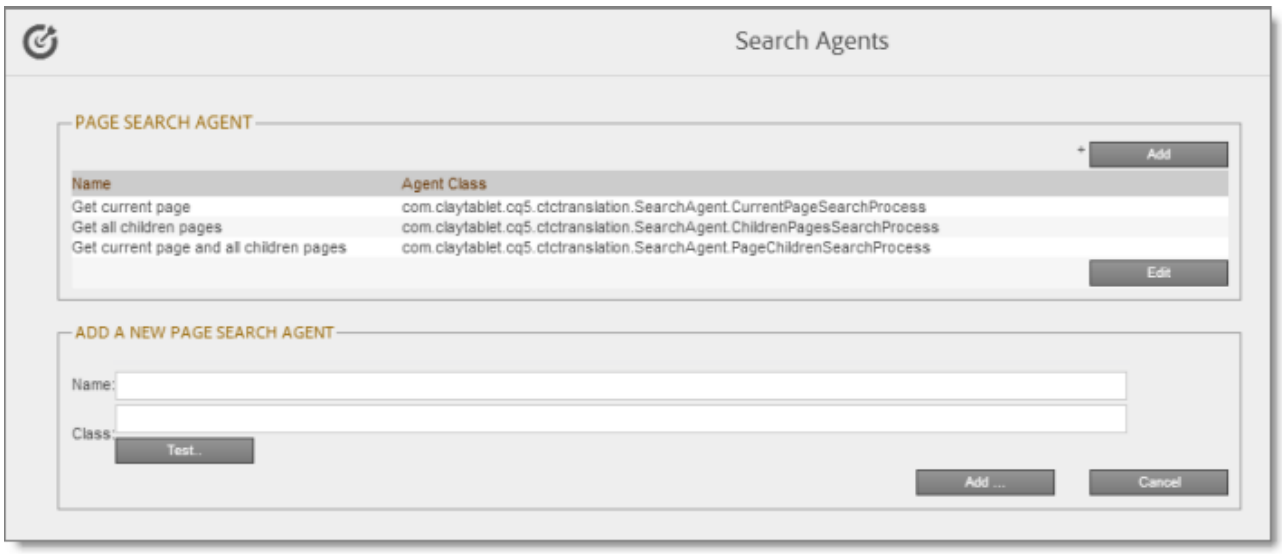
2. Upload the search agent you just created. You can do this either by including this in the Connector for AEM package you install, or you can install it separately using the Apache Felix Web Console, which you access at `/system/console/components` on your AEM instance.

3. Click **Admin Tools > Search Agents** in the Clay Tablet Connector rail to open the Search Agents page. For information on opening the Clay Tablet Connector rail, see "Configuring the Connector" on page 24.

   The Search Agents page opens, displaying the pre-configured agents.

4. Click **Add** in the top-right corner of the page.

   The page expands to display the **Add a New Page Search Agent** section.



5. In the **Add a New Page Search Agent section**, add the following information:
   - **Name:** The name that will be displayed for the custom agent in the **Search using agent** dropdown list in the Bulk Translation wizard.
   - **Class:** The Java class for the custom agent.
6. Click **Test**.

   A window opens where you enter an AEM folder path. The Connector then calls the new agent class to search the path you entered. This tests whether the Connector can call the new agent and search successfully for pages.
7. If the test is successful, click **Add** at the bottom-right corner of the page to add the custom agent to the user interface of the Bulk Translation wizard.

5.8 Configuring AEM User Permissions for Translation Users

You configure user permissions in the **Permissions** tab of the **User Admin** page on your AEM instance. In your browser, navigate to `/useradmin` on your AEM instance to open this page.

Suppose that your AEM instance has the following user groups:

- Translation Submission
- Translation User
- Translation Admin

Users assigned to these groups can send content for translation as follows:

<table>
<tr><th>User Group</th><th>Bulk Translation</th><th>Sidekick</th><th>Blueprint Rollout</th></tr>
<tr><td>Translation User</td><td>Users can send content only to the Translation Queue. The required user permissions are <code>Read</code>, <code>Modify</code>, <code>Create</code>, and <code>Delete</code>.</td><td>Users can send content only to the Translation Queue. The required user permissions are: <code>Read</code>, <code>Modify</code>, <code>Create</code>, and <code>Delete</code>.</td><td rowspan="3">Users can send content only to the Translation Queue. The required user permissions are: <code>Read</code>, <code>Modify</code>, <code>Create</code>, and <code>Delete</code>.</td></tr>
<tr><td>Translation Submitter</td><td rowspan="2">Users can send content either to the Translation Queue or directly out for translation. The required user permission is <code>Read</code>.</td></tr>
<tr><td>Translation Admin</td><td>Users can send content either to the Translation Queue or directly out for translation. The required user permissions are: <code>Read</code>, <code>Modify</code>, <code>Create</code>, and <code>Delete</code>.</td></tr>
</table>

5.9 Configuring Team Profiles

A team profile defines a set of Connector users who are allowed to send content out for translation from the specified source languages, to the specified target languages, using the specified translation providers.

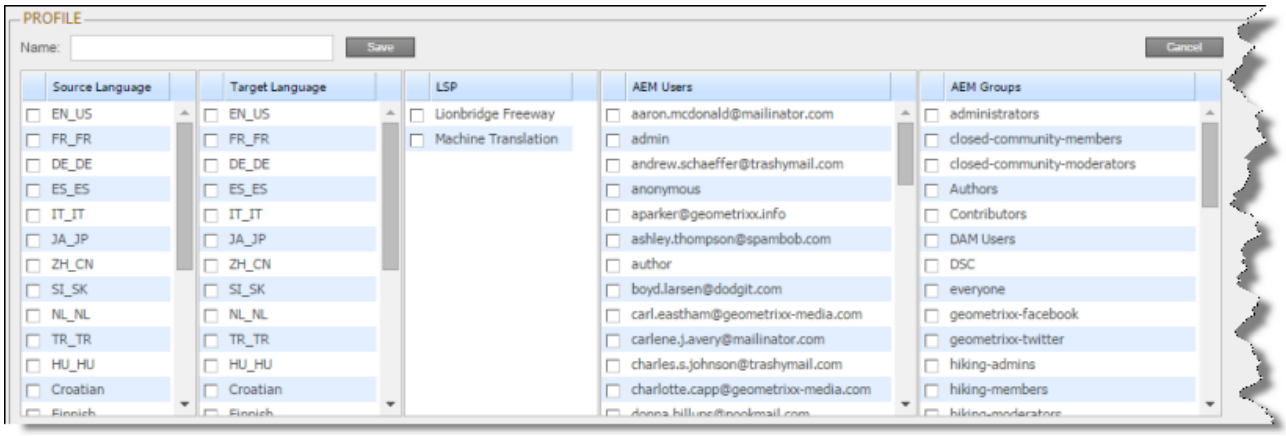
To create a team profile:

1. Click **Admin Tools > Team Profiles** in the Clay Tablet Connector rail to open the **Team Profiles** page. For information on opening the Clay Tablet Connector rail, see "Configuring the Connector" on page 24.

   The **Team Profiles** page opens, displaying any team profiles that have already been created.

2. Click **Add**.

   The page expands, displaying the **Profiles** section.



3. Specify the following information about the team profile:

Field/Column	Description
Name	The name of the team profile.
Source Language	Select the check boxes of the source languages in which team members can send out content for translation. The list of available languages is based on the configured languages. For details, see "Configuring Connector Languages" on page 48.
Target Language	Select the check boxes of the target languages for which team members can send out content for translation. The list of available languages is based on the configured languages. For details, see "Configuring Connector Languages" on page 48.
LSP	Select the check boxes of the translation providers to which team members can send out content for translation. The list of available translation providers is based on the configured translation providers. For details, see "Configuring Translation Providers and the CMS Address and Platform Keys" on page 57.

Field/Column	Description
AEM Users	Select the check boxes of the AEM users to include in the team profile. AEM users are identified by their display names. If a display name is not configured for an AEM user, the email address is displayed instead.
AEM Groups	Select the check boxes of the AEM groups to include in the team profile:

4. Click **Save**.

5.10 Configuring the Service Components

You can configure how frequently the Connector checks for processing, sending, and receiving translations.

- The `ctcPrepareService` agent controls the frequency that the Connector checks for processing translations.
- The `ctcUploadService` agent controls the frequency that the Connector checks for sending and receiving translations.

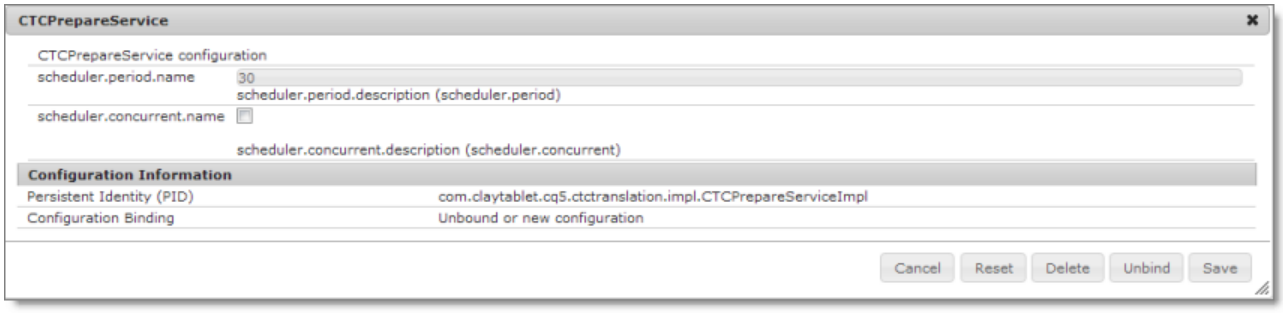
To configure these agents:

1. If the **Adobe Experience Manager Web Console Components** page is not already open, then in your browser, navigate to `/system/console/components` on your AEM instance to open it.

   This page displays all components alphabetically, by name.

2. Scroll down to locate one of these Connector components in the list:
   - com.claytablet.cq5.ctctranslation.impl.CTCPrepareServiceImpl
   - com.claytablet.cq5.ctctranslation.impl.CTCUploadServiceImpl
3. In the **Actions** column, click the corresponding Configure button .

   The configuration dialog box for the service opens.



4. In the **scheduler.period.name** field, you can edit the frequency of this task.
   - The default value of the `ctcPrepareService` agent is 30 seconds.

- The default value of the `ctcUploadService` agent is 60 seconds.

  You can change this value to meet your particular requirements.

5. Click **Save** to save your changes.
6. If desired, repeat steps 2-5 for the other agent.

5.11 Configuring Custom Content Types

When you send content for translation using the Bulk Translation wizard, the Translation Queue, or Sidekick you can use the *content type* to filter the content you want to send.

Note: Specifying the content type in Sidekick is available only when working with the Sidekick wizard user interfaces.

Clay Tablet can also configure routing rules to send content of each type to a different translation provider.

By default, the Connector includes three content types, which have the following default labels:

- Marketing
- Technical
- Legal

You can change these labels to reflect your company's needs. For example, you can send all your marketing content to your translation provider, and all your user-generated content to a machine translation service. In the Clay Tablet Platform, the Connector can configure content rules based on content types as follows:

- You can send different content types to different translation providers.
- You can send different content types to different TMSs (translation management systems).
- You can send different content types to different processing profiles within a single TMS instance.

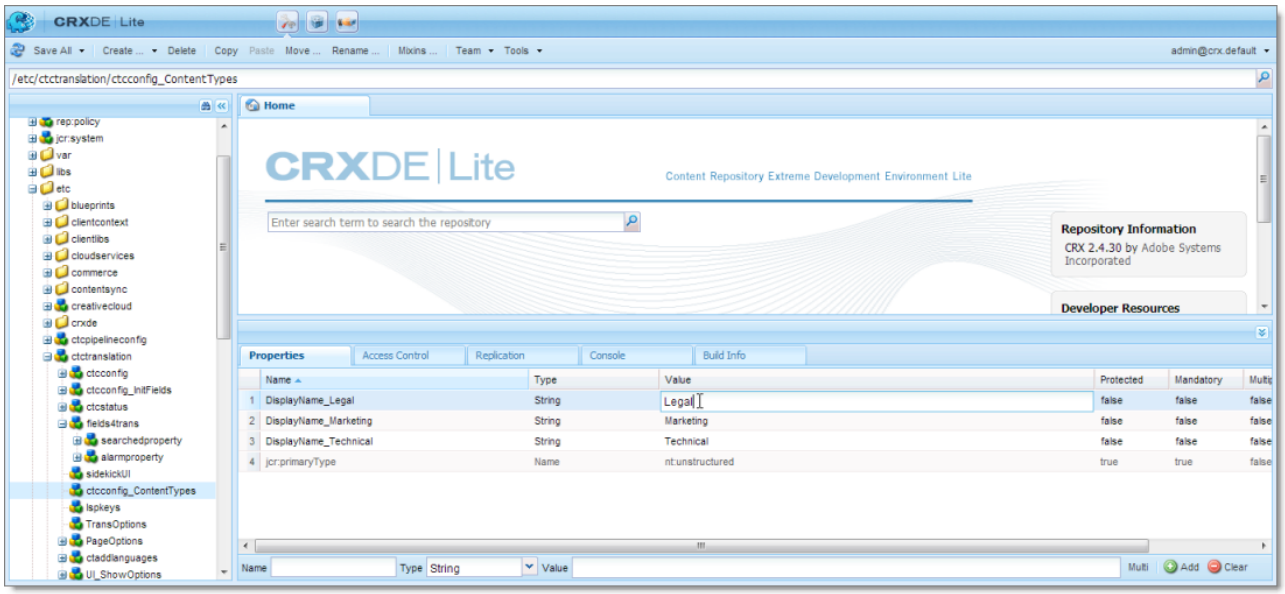
Note: Please contact Clay Tablet Support before proceeding. For details, see page 9.

1. Do one of the following to open **CRXDE Lite**, where you can configure custom content types:

   - In the Touch-Optimized UI of AEM, click **Tools** in the AEM rail. Then, in the **Granite Operations** section, click **CRXDE Lite**.
   - In the Classic UI of AEM, click **CRXDE Lite** in the right pane.
   - In your Web browser, navigate to `/crx/de/index.jsp` on your AEM instance.

   CRXDE Lite opens.

2. In the navigation pane on the left, navigate to `/etc/ctctranslation/ctcconfig_ContentTypes`.



3. In the **Properties** tab in the **Home** tab, double-click in the **Value** column of the content-type label to change, and type the new label.

4. Repeat the previous step for each content-type label you want to change.

5.12 Configuring the Rollout Feature

If the Rollout feature is enabled, then when users roll out files, the Connector automatically sends them to the Translation Queue, using your company's default translation settings. There are three settings for this feature. The setting you choose determines the configuration method you use:

- You can configure the Connector to send all your rollout pages to the Translation Queue.
- You can configure the Connector to send only some of your rollout pages to the Translation Queue, using a workflow.
- You can configure the Connector to send only some of your rollout pages to the Translation Queue, using a filter.

Note: The setting determines the configuration method you use.

Configure the Connector to send all rollout pages to the Translation Queue

1. In the Translation Settings section of the Configuration page, select the **Catch rollout pages to [Rollout] Queue** check box. For details, see "Translation Setting" on page 31.

2. When creating a Livecopy site, use the default AEM rollout config.

Configure the Connector to send only some rollout pages to the Translation Queue, using a workflow

Important information for updated Connector installations: For new installations of the Connector versions 2.3.0 or higher, no additional steps are required. If you are updated your Connector installation from a version before 2.3.0, you must perform the steps described in "Update the CTCRolloutTranslation workflow" on page 70 to update the workflow before performing the following steps.

1. In the Translation Settings section of the Configuration page, clear the **Catch rollout pages to [Rollout] Queue** check box. For details, see "Translation Setting" on page 31.
2. Create your own rollout config in CRXDE Lite that includes the `CTCRolloutTranslation` workflow. For detailed instructions on creating a rollout config, refer to the AEM documentation at:
   - http://dev.day.com/docs/en/cq/current/administering/multi_site_manager.html#Creating a Rollout Configuration (AEM 5.6.1)
   - http://dev.day.com/docs/en/aem/6-0/administer/sites/multi-site-manager/msm-sync.html#Creating a Rollout Configuration (AEM 6.0)

   For a description of the `CTCRolloutTranslation` workflow, see "Viewing the Rollout Workflow" on page 77.
3. When creating a Livecopy site, select the rollout config you created.

Update the `CTCRolloutTranslation` workflow

Important: These steps are required only for a Connector installation updated a version before 2.3.0, when configuring the Connector to send only some rollout pages to the Translation Queue using a workflow, as described above.

1. In your Web browser, navigate to `/libs/cq/workflow/content/console.html` on your AEM instance to open the **CQ5 Workflow** page.
2. Locate the `CTCRolloutTranslation` workflow. Click to select it, and then right-click and select **Edit** from the context menu.

   The workflow opens for editing in a new Web page.
3. Mouseover the **CTC Rollout Translation** workflow, right-click, and select **Edit** from the context menu.
4. In the **Process** tab:
   a. Ensure that the **Process** is `com.claytablet.cq5.ctctranslation.workflow.RolloutCTCQueueProcess` (and not `RolloutCTCTranslationProcess`).
   b. Select the **Handler Advance** check box.

c. Click **OK** to close the dialog box.

5. Click **Save** to save your changes.

Configure the Connector to send only some rollout pages to the Translation Queue, using a filter

1. In your browser, navigate to: `/system/console/components` on your AEM instance.

   The **Adobe Experience Manager Web Console Components** page opens. This page displays all components alphabetically, by name.

2. Scroll down to locate the Connector components, whose names all start with `com.claytablet`.

3. Verify that the following Clay Tablet component is installed and active in Adobe AEM: `com.claytablet.cq5.ctctranslation.impl.CTCRolloutCheckServiceImpl`.

4. Code a filter class to call the following Clay Tablet interface: `com.claytablet.cq5.ctctranslation.service.Rollout.IRolloutTranslationFilter`. See the sample code, at the bottom of this section.

5. Implement the following function:

```
public boolean catchRolloutToTranslation(
final String bluePrintPage,
final String liveCopyPage,
final Session jcrSession,
final ResourceResolver resourceResolver,
final LiveRelationshipManager liveRelationshipManager,
final CTCPageService ctcPageService,
final CTLogService ctcLogService,
final CTCDataService ctcDataService
);
```

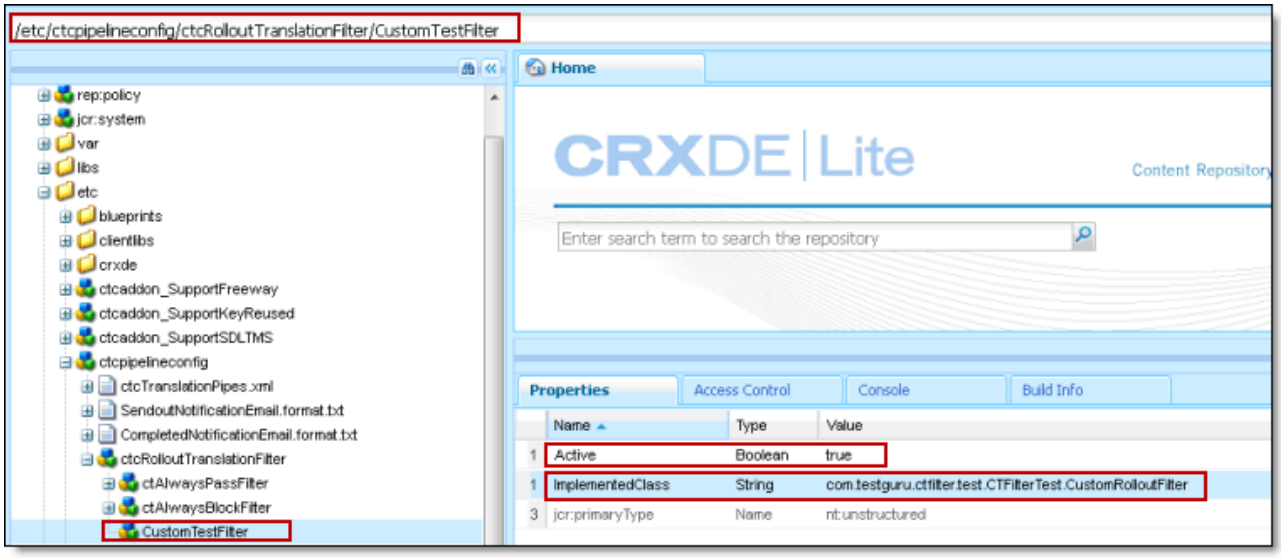
6. If the Connector Translation Queue will capture the rollout pages, the function should return a Boolean value of `True`.

7. Do one of the following to open **CRXDE Lite**, where you can configure the Rollout Filter in the Adobe AEM CRXDE interface:

   - In the Touch-Optimized UI of AEM, click **Tools** in the AEM rail. Then, in the **Granite Operations** section, click **CRXDE Lite**.
   - In the Classic UI of AEM, click **CRXDE Lite** in the right pane.
   - In your Web browser, navigate to `/crx/de/index.jsp` on your AEM instance.

   CRXDE Lite opens.

8. In the navigation pane on the left, navigate to `/etc/ctcpipelineconfig/ctcRolloutTranslationFilter`.
9. Create a child note of type `nt:unstructured` and give it a human-readable name, for example, `CustomTestFilter`.
10. Add the following node properties:
    a. **Name** = `Active`, **Type** = `Boolean`, **Value** = `True`
    b. **Name** = `ImplementedClass`, **Type** = `String`, **Value** = Filter Class name, for example: `com.testguru.ctfilter.test.CTFilterTest.CustomRolloutFilter`



Clay Tablet interface sample code

Note:. The following sample code is also included in the following package, which is in the following location in CRXDE Lite: `/apps/CTFilterTest/src/impl/src/main/java/com/testguru/ctfilter/test/CTFilterTest/impl/Activator.java`. You can install this package using the CRX Package Manager. For detailed instructions on using the CRX Package Manager, see "Installing the Clay Tablet Connector" on page 14

```
package com.testguru.ctfilter.test.CTFilterTest;

import javax.jcr.Session;
import org.apache.sling.api.resource.ResourceResolver;
import com.claytablet.cq5.ctctranslation.service.CTCDataService;
import com.claytablet.cq5.ctctranslation.service.CTCPageService;
import com.claytablet.cq5.ctctranslation.service.CTLogService;
import com.day.cq.wcm.msm.api.LiveRelationshipManager;
import com.claytablet.cq5.ctctranslation.service.Rollout.IRolloutTranslationFilter;
```

```
public class CustomRolloutFilter implements IRolloutTranslationFilter
{

  public boolean catchRolloutToTranslation(final String bluePrintPage,
              final String liveCopyPage, final Session jcrSession,
              final ResourceResolver resourceResolver,
              final LiveRelationshipManager liveRelationshipManager,
              final CTCPageService ctcPageService,
              final CTLogService ctcLogService,
              final CTCDataService ctcDataService )
  {
  ctcLogService.LogRolloutDebug("[CustomRolloutFilter] passed Blueprint page: "
              + bluePrintPage );
  ctcLogService.LogRolloutDebug("[CustomRolloutFilter] passed liveCopyPage page: "
              + liveCopyPage );

  // Add your own logic here.
    if (bluePrintPage.startsWith("/content/geometrixx/en/blog"))
    {
      ctcLogService.LogRolloutDebug("[CustomRolloutFilter] Blueprint page " +
                  "is starting with path [/content/geometrixx/en/blog],
                  ignored.");
      return false;
    }
    else
      return true;
  // Do not close passed JCR Session and ResourceResolver. Clay Tablet needs these
  // to do more filter calls.
  }
}
```

5.13 Enabling Content Collection from Blueprint Pages

You can instruct the Connector to globally collect content from Blueprint pages using the **Pickup Content From Blueprint Pages** CRX setting in CRXDE Lite.

Note: When this feature is enabled, the Connector synchronizes non-translatable properties, such as images, from a locked component.

How the Pickup Content From Blueprint Pages setting interacts with other related settings

- This setting is available only when the **Target Pages Have Content in Source Language** check box is selected.
- If this setting is specified, the Connector always acts as though the **Only translate content from locked components** check box is selected, even if it is not selected. This occurs because only content from locked components are rolled out from Blueprint pages to live copy pages.
- If this setting is specified, the Connector always acts as though the **Translate Non-Sync'd Components on this page** check box is selected, even if it is not selected. This occurs because only content from locked components is rolled out from Blueprint pages to live copy pages:
  - In general, during MSM rollout, content from blueprint pages overwrites the content of locked components in live copy pages. The Connector retrieves content from the live copy pages and sends it out for translation. Until the translation returns, the live copy page has the un-localized content from the blueprint page.
  - However, if there is no MSM rollout or if there is a custom rollout configuration that excludes copying over the content, then the content from the blueprint page does not overwrite the content of the locked components in the live copy page. Live copy pages may contain the old version of localized content.

  In both scenarios, the Connector returns the translated content to the live copy page.

For descriptions of all the related settings, see "UI and Default Settings" on page 37.

How to enable the Pickup Content From Blueprint Pages setting

1. Do one of the following to open CRXDE Lite:
   - In the Touch-Optimized UI of AEM, click **Tools** in the AEM rail. Then, in the **Granite Operations** section, click **CRXDE Lite**.
   - In the Classic UI of AEM, click **CRXDE Lite** in the right pane.
   - In your Web browser, navigate to `/crx/de/index.jsp` on your AEM instance.

   CRXDE opens.
2. In the navigation pane on the left, navigate to `/etc/ctctranslation/PageOptions`.
3. Locate the **PickupContentFromBlueprintPages** property.
4. Double-click in the **Value** column, and select `true` from the dropdown list.

The **Pickup Content From Blueprint Pages** setting is now enabled.

Note: To turn off this setting, repeat the previous steps, but in the last step, select `false` from the dropdown list.

6 Integrating the Connector with AEM Workflows

This section is optional. The core Connector workflow package includes the `CTCRestoreOriginalSync` and `CTCRolloutTranslation` workflows. If you want to use the `Sample_CT_Workflow_Translation` workflow, you install the optional workflow package.

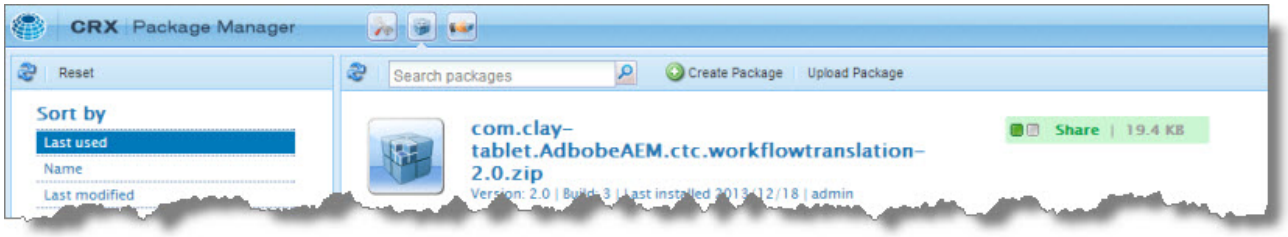
Workflow	Description
CTCRestoreOriginalSync	If the **Leave component unlock after putting back translated content** is specified, you can run this workflow to lock components and restore their original inheritance. This workflow does not require installation or customization. For a description of this workflow, see page 78.
CTCRolloutTranslation	This is the sample workflow for sending out files for translation when you roll out files. If you use this method to set up the rollout integration with the Connector, you include this workflow in your own rollout config. This workflow does not require installation or customization. For a description of this workflow, see page 77. **Note:** Alternatively, you can use the **Catch rollout pages to [Rollout] Queue** setting in the Translation Setting section of the Configuration page to set up the rollout integration with the Connector. For details, see "Translation Setting" on page 31. For more information on configuring this feature, see page 69.
Sample_CT_Workflow_Translation	You can use the Sample_CT_Workflow_Translation workflow to send a page to the Translation Queue. You can customize this workflow. ■ For instructions on installing this workflow, see page 75. ■ For instructions on customizing this workflow, see page 76.

6.1 Installing the Optional Workflow Package

1. To install the optional workflow package, so that you can use the `Sample_CT_Workflow_Translation` workflow, do one of the following:

   - In the Touch-Optimized UI of AEM, click **Tools** in the AEM rail. Then, in the **Granite Operations** section, click **Packages**.
   - In the Classic UI of AEM, scroll down and click **Packages** in the right pane.
   - In your Web browser, navigate to `/crx/packmgr/index.jsp` on your AEM instance.

   The **CRX Package Manager** opens.



2. Click the Clay Tablet Sample Workflow package, and follow the on-screen instructions to install it.
3. After the package is installed, do one of the following to open the **CQ5 Workflow** page:
   - In the Touch-Optimized UI of AEM, click **Tools** in the AEM rail. Then, in the **CQ Operations** section, click **Workflows**.
   - In the Classic UI of AEM, click **Workflows** in the right pane.
   - In your Web browser, navigate to `/libs/cq/workflow/content/console.html` on your AEM instance.

   The workflows you installed are displayed in the page.
4. To customize a workflow, click to select it, and then right-click and select **Edit** from the context menu.

   Tip: To locate the `Sample_CT_Workflow_Translation` workflow , click the Next Page button .

For instructions on customizing the `Sample_CT_Workflow_Translation` workflow, see page 76.

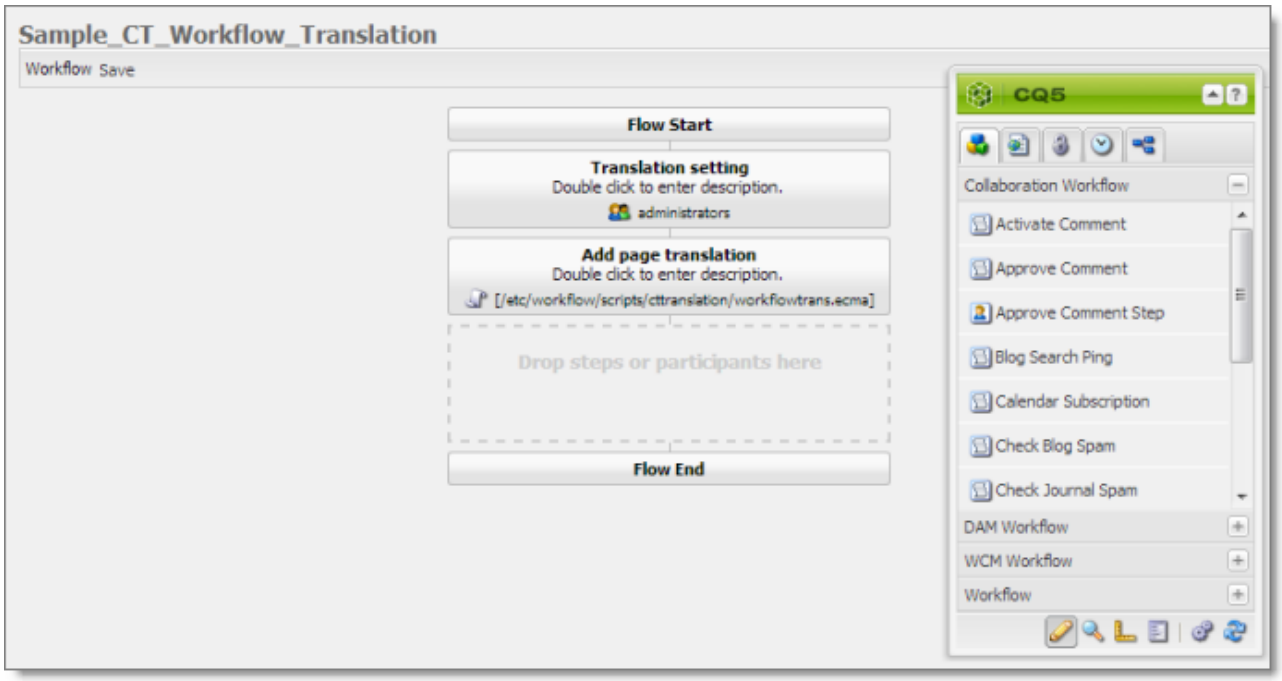
6.1.1 Customizing the Standard Translation Workflow

You can customize the `Sample_CT_Workflow_Translation` workflow, which you can use to send a page to the Translation Queue.

1. Open the **CQ5 Workflow** page, as described on page 75.
2. Locate the `Sample_CT_Workflow_Translation` workflow. Click to select it, and then right-click and select **Edit** from the context menu.

   Tip: To locate the `Sample_CT_Workflow_Translation` workflow , click the Next Page button .

   The workflow opens in a new browser tab.



By default, this workflow includes the following two steps, which are required to integrate AEM with the Connector processes:

- **Translation setting:** This is a *participant* type of workflow step, where a user must specify some translation settings and can enter comments.
- **Add page translation:** This is a *process* type of workflow step, where Connector retrieves translation settings from the previous step and adds page translation properties.

Warning: Do not modify these steps, except for the titles. Otherwise the Connector integration with the AEM workflow may not work properly.

You can add additional steps as needed to meet your company's business requirements. For detailed instructions on setting up workflows, refer to the AEM workflow documentation, available at: http://dev.day.com/docs/en/cq/current/workflows/wf-overview.html.

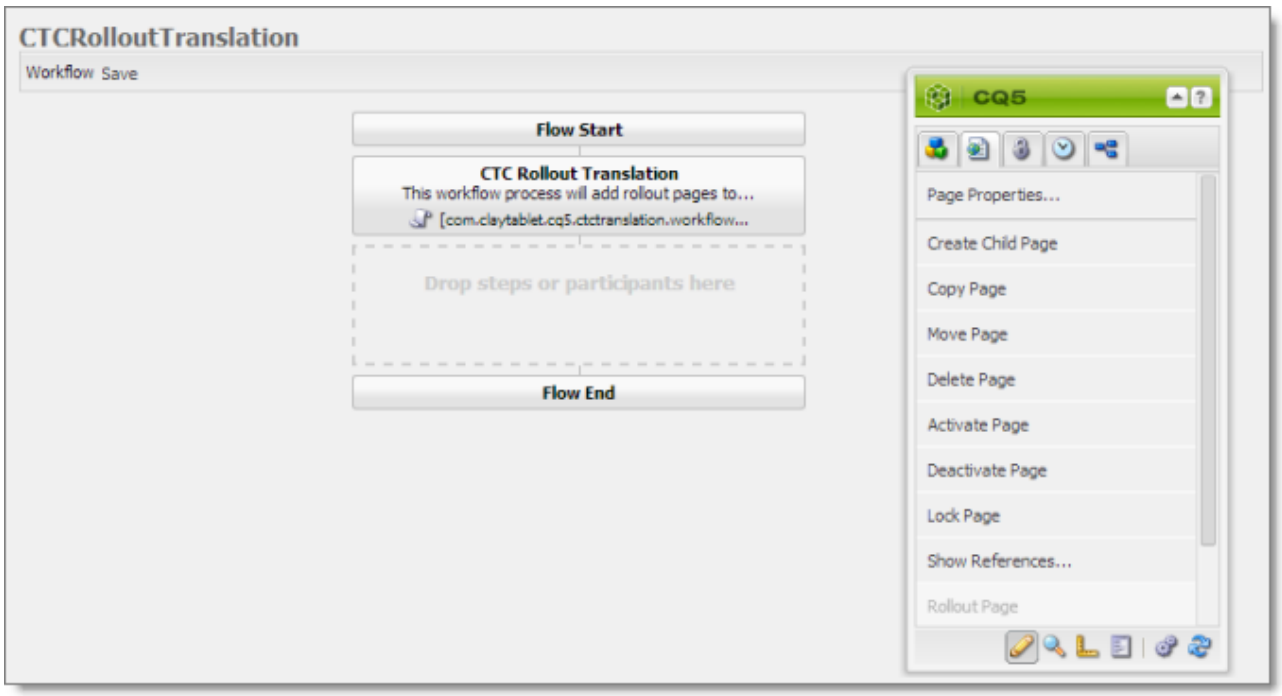
6.2 Viewing the Rollout Workflow

You can add the `CTCRolloutTranslation` workflow to your custom rollout config to integrate the Connector with rollout. This is the configuration method to use when you want the Connector to send only some rollout files to the Translation Queue.

Note: Alternatively, you can use the **Catch rollout pages to [Rollout] Queue** setting in the Translation Setting section of the Configuration page to enable this functionality, as described in "Translation Setting" on page 31. This option is the configuration method to use when you want the Connector to send out all rollout files to the Translation Queue. For more information about configuring this feature, see page 69.

1. Open the **CQ5 Workflow** page, as described on page 75.
2. Locate the `CTCRolloutTranslation` workflow. Click to select it, and then right-click and select **Edit** from the context menu.

   The workflow opens in a new browser tab.



   By default, this workflow includes the **CTC Rollout Translation** step, which is required to integrate AEM with the Connector processes. This is a *process* type of workflow step, where Connector adds rollout pages to the Translation Queue.

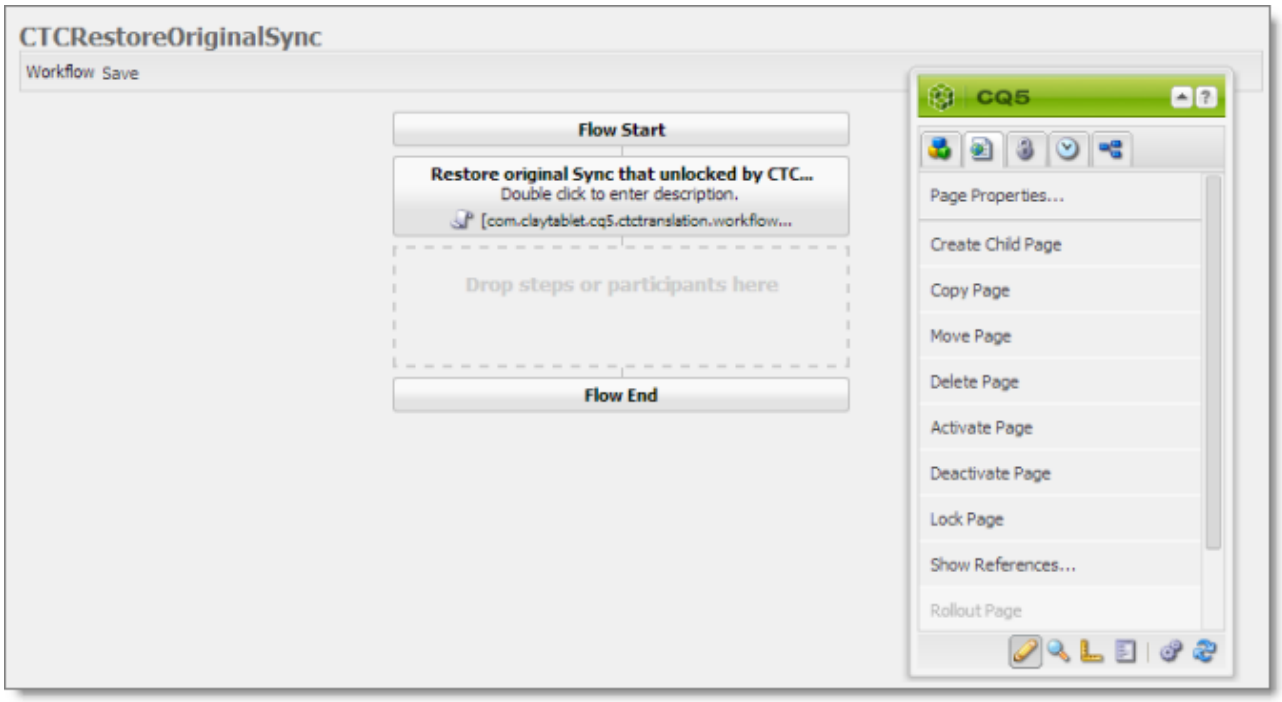
   Warning: Do not modify this step, except for the title. Otherwise the Connector integration with the AEM workflow may not work properly.

6.3 Viewing the Restore Original Sync Workflow

You can view the `CTCRestoreOriginalSync` workflow. After users send out components for translation, they can use this workflow to relock them to restore their original inheritance.

1. Open the **CQ5 Workflow** page, as described on page 75.
2. Locate the `CTCRestoreOriginalSync` workflow. Click to select it, and then right-click and select **Edit** from the context menu.

   The workflow opens in a new browser tab.



By default, this workflow includes the **Restore original Sync that unlocked by CTC translation** step, which is required to integrate AEM with the Connector processes. This is a *process* type of workflow step, where Connector relocks components and restores their original inheritance.

Warning: Do not modify this step, except for the title. Otherwise the Connector integration with the AEM workflow may not work properly.

7 Implementing Event Listener to Catch Translation Events

The Connector fires events for translation-related actions. You can create an event handler to receive these events, and you can take action when these events occur.

Translation events

There are seven Connector translation events defined in the following class:
`com.claytablet.cq5.ctctranslation.Events.EventDetailType`

```
package com.claytablet.cq5.ctctranslation.Events;
public enum EventDetailType {
   QueueApproved,
   QueuePrepared,
   SentOut,
   Reached_Platform,
   StartedTranslation,
   ReceivedTranslationBack,
   CompletedTranslationProcess
}
```

Event topics

An *Event Topic* is `com/claytablet/TRANSLATION`, defined in the `com.claytablet.cq5.ctctranslation.Events.TranslationEvent` class, which can be used as: `com.claytablet.cq5.ctctranslation.Events.TranslationEvent.EVENT_TOPIC`.

Creating an event handler:

1. To retrieve a translation event, use:
   `TranslationEvent translationEvent = TranslationEvent.fromEvent(Event event);`
2. To retrieve a translation event type, use:
   `EventDetailType eventType = translationEvent.getEventDetailType();`

Event listener sample code

Note:. The following sample code is also included in the following package, which is in the following location in CRXDE Lite: `/apps/CTEventHanlder/src/impl/src/main/java/com/testguru/ctevents/hanlder/CTEventHanlder/impl/CTEventsHanlderImpl.java`. You can install this package using the CRX Package Manager. For detailed instruction on using the CRX Package Manager, see "Installing the Clay Tablet Connector" on page 14

```
package com.testguru.ctevents.handler.CTEventHandler.impl;

import java.io.File;
import java.util.Iterator;
import org.apache.commons.io.FileUtils;
import org.apache.sling.event.EventUtil;
import org.osgi.service.component.ComponentContext;
import org.osgi.service.event.Event;
import org.osgi.service.event.EventConstants;
import org.osgi.service.event.EventHandler;
import com.claytablet.cq5.ctctranslation.Utils.IdGenerator;
import com.claytablet.cq5.ctctranslation.service.CTLogService;
import com.claytablet.cq5.ctctranslation.service.ctcdata.PreparedItem;
import com.claytablet.cq5.ctctranslation.service.ctcdata.Queue;
import com.claytablet.cq5.ctctranslation.service.ctcdata.TranslatedItem;
import com.claytablet.cq5.ctctranslation.service.ctcdata.TranslationItem;
import com.claytablet.cq5.ctctranslation.Events.TranslationEvent;
import com.claytablet.cq5.ctctranslation.Events.ApprovedQueueDetails;
import com.claytablet.cq5.ctctranslation.Events.EventDetailType;
import com.claytablet.cq5.ctctranslation.Events.PageTranslationInfo;
import com.claytablet.cq5.ctctranslation.Events.PreparedQueueDetails;
import com.claytablet.cq5.ctctranslation.Events.TranslationItemDetails;
import com.claytablet.cq5.ctctranslation.Events.TranslatedItemDetails;

/**
*
* @scr.component enabled="true" immediate="true" policy="ignore"
* @scr.service interface="EventHandler"
* @scr.property name="event.topics" valueRef="TranslationEvent.EVENT_TOPIC"
*/
public class CTEventsHandlerImpl implements EventHandler {

  /**
  * @scr.reference policy="static"
  */
  private CTLogService ctcLogService;
```

```
public void activate(ComponentContext context) {

  ctcLogService.LogDebug("[CTEventsHandler] activated.");
}
public void deactivate(ComponentContext context) {
  ctcLogService.LogDebug("[CTEventsHandler] de-activated.");
}

public void handleEvent(Event event)
{
  ctcLogService.LogRolloutDebug("[CTEventsHandler] handleEvent
            called ...Start");
  try
  {

    ctcLogService.LogDebug("[CTEventsHandler] Get a event: " + event.getTopic
              ());
      if (EventUtil.isLocal(event) )
      {

        try
        {
          TranslationEvent translationEvent = TranslationEvent.fromEvent
                    (event);
          if (translationEvent != null)
          {

            EventDetailType eventType = translationEvent.getEventDetailType();
            PageTranslationInfo pageTranslationInfo =
                    translationEvent.getPageTranslationInfo();
            if (pageTranslationInfo == null)
                    ctcLogService.LogError("[CTEventsHandler] got
                    PageTranslationInfo object as NULL.");
            else
            {
              ctcLogService.LogDebug("[CTEventsHandler] got TranslationJob
                    name: " +
```

```
            pageTranslationInfo.getTranslationJob().getJobName());
      ctcLogService.LogDebug("[CTEventsHandler] TranslationJob
            submitted by: " +
            pageTranslationInfo.getTranslationJob().getSubmitBy());
      ctcLogService.LogDebug("[CTEventsHandler] got SourcePagePath: "
            + pageTranslationInfo.getSourcePagePath());
      ctcLogService.LogDebug("[CTEventsHandler] got
            SourcePageLanguage: " +
            pageTranslationInfo.getSourcePageLanguage());
      ctcLogService.LogDebug("[CTEventsHandler] got TargetPagePath: "+
            pageTranslationInfo.getTargetPagePath() );
      ctcLogService.LogDebug("[CTEventsHandler] got
            TargetPageLanguage: "+
            pageTranslationInfo.getTargetPageLanguage() );
   }
   if (eventType == EventDetailType.QueueApproved)
   {
      ctcLogService.LogDebug("[CTEventsHandler] is a QueueApproved
            event.");
      ApprovedQueueDetails approvedQueueDetails =
            translationEvent.getApprovedQueueDetails();
      if (approvedQueueDetails == null)
         ctcLogService.LogError("[CTEventsHandler] got
            ApprovedQueueDetails object as NULL.");
      else
      {
         Queue approvedQueue = approvedQueueDetails.getQueue();
         if (approvedQueue == null)
            ctcLogService.LogError("[CTEventsHandler] got Queue object
               as NULL.");
         else
            ctcLogService.LogDebug("[CTEventsHandler] got total words:
               " + approvedQueue.getCountedWords());
      }

   }
   else if (eventType == EventDetailType.QueuePrepared)
```

```
{
  ctcLogService.LogDebug("[CTEventsHandler] is a QueuePrepared
        event.");
  PreparedQueueDetails preparedQueueDetails =
        translationEvent.getPreparedQueueDetails();
  if (preparedQueueDetails == null)
    ctcLogService.LogError("[CTEventsHandler] got
        preparedQueueDetails object as NULL.");
  else
  {
    PreparedItem preparedItem =
        preparedQueueDetails.getPreparedItem();
    if (preparedItem == null)
      ctcLogService.LogError("[CTEventsHandler] got PreparedItem
        object as NULL.");
    else
      ctcLogService.LogDebug("[CTEventsHandler] got total EST
        words: " + preparedItem.getEstWords());
  }
}
else if (eventType == EventDetailType.SentOut)
{
  ctcLogService.LogDebug("[CTEventsHandler] is a SentOut event.");
  TranslationItemDetails translationItemDetails =
        translationEvent.getTranslationItemDetails();
  if (translationItemDetails == null)
    ctcLogService.LogError("[CTEventsHandler] got
        TranslationItemDetails object as NULL.");
  else
  {
    TranslationItem translationItem =
        translationItemDetails.getTranslationItem();
    if (translationItem == null)
      ctcLogService.LogError("[CTEventsHandler] got
        TranslationItem object as NULL.");
    else
      ctcLogService.LogDebug("[CTEventsHandler] got status
```

```
            percentage: " + translationItem.getItemPercentage());
    }
  }
  else if (eventType == EventDetailType.Reached_Platform)
  {
    ctcLogService.LogDebug("[CTEventsHandler] is a Reached_Platform
            event.");
    TranslationItemDetails translationItemDetails =
            translationEvent.getTranslationItemDetails();
    if (translationItemDetails == null)
      ctcLogService.LogError("[CTEventsHandler] got
            TranslationItemDetails object as NULL.");
    else
    {
      TranslationItem translationItem =
            translationItemDetails.getTranslationItem();
      if (translationItem == null)
        ctcLogService.LogError("[CTEventsHandler] got
          TranslationItem object as NULL.");
      else
        ctcLogService.LogDebug("[CTEventsHandler] got status
          percentage: " + translationItem.getItemPercentage());
      }
    }
    else if (eventType == EventDetailType.StartedTranslation)
    {
      ctcLogService.LogDebug("[CTEventsHandler] is a
            StartedTranslation event.");
      TranslationItemDetails translationItemDetails =
            translationEvent.getTranslationItemDetails();
      if (translationItemDetails == null)
        ctcLogService.LogError("[CTEventsHandler] got
          TranslationItemDetails object as NULL.");
      else
      {
        TranslationItem translationItem =
          translationItemDetails.getTranslationItem();
```

```
        if (translationItem == null)
          ctcLogService.LogError("[CTEventsHandler] got
          TranslationItem object as NULL.");
        else
          ctcLogService.LogDebug("[CTEventsHandler] got status
          percentage: " + translationItem.getItemPercentage());
      }
    }
    else if (eventType == EventDetailType.ReceivedTranslationBack)
    {
      ctcLogService.LogDebug("[CTEventsHandler] is a
          ReceivedTranslationBack event.");
      TranslationItemDetails translationItemDetails =
          translationEvent.getTranslationItemDetails();
      if (translationItemDetails == null)
        ctcLogService.LogError("[CTEventsHandler] got
          TranslationItemDetails object as NULL.");
      else
      {
        TranslationItem translationItem =
          translationItemDetails.getTranslationItem();
        if (translationItem == null)
          ctcLogService.LogError("[CTEventsHandler] got
          TranslationItem object as NULL.");
        else
          ctcLogService.LogDebug("[CTEventsHandler] got status
          percentage: " + translationItem.getItemPercentage());
      }

      TranslatedItemDetails translatedItemDetails =
          translationEvent.getTranslatedItemDetails();
      if (translatedItemDetails == null)
        ctcLogService.LogError("[CTEventsHandler] got
          TranslatedItemDetails object as NULL.");
      else
      {
        TranslatedItem translatedItem =
```

```
            translatedItemDetails.getTranslatedItem();
        if (translatedItem == null)
            ctcLogService.LogError("[CTEventsHandler] got
            TranslatedItem object as NULL.");
        else
            ctcLogService.LogDebug("[CTEventsHandler] got totsl
            translated fields: " +
            translatedItem.getTranslatedPageContent
            ().getPropertyContents().size());
    }
}
else if (eventType ==
        EventDetailType.CompletedTranslationProcess)
{
    ctcLogService.LogDebug("[CTEventsHandler] is a
        CompletedTranslationProcess event.");
    TranslationItemDetails translationItemDetails =
        translationEvent.getTranslationItemDetails();
    if (translationItemDetails == null)
      ctcLogService.LogError("[CTEventsHandler] got
        TranslationItemDetails object as NULL.");
    else
    {
      TranslationItem translationItem =
        translationItemDetails.getTranslationItem();
      if (translationItem == null)
        ctcLogService.LogError("[CTEventsHandler] got
        TranslationItem object as NULL.");
      else
        ctcLogService.LogDebug("[CTEventsHandler] got status
        percentage: " + translationItem.getItemPercentage());
    }

    TranslatedItemDetails translatedItemDetails =
        translationEvent.getTranslatedItemDetails();
    if (translatedItemDetails == null)
      ctcLogService.LogError("[CTEventsHandler] got
```

```
                    TranslatedItemDetails object as NULL.");
                else
                {
                  TranslatedItem translatedItem =
                    translatedItemDetails.getTranslatedItem();
                  if (translatedItem == null)
                    ctcLogService.LogError("[CTEventsHandler] got
                    TranslatedItem object as NULL.");
                  else
                    ctcLogService.LogDebug("[CTEventsHandler] got totsl
                    translated fields: " +
                    translatedItem.getTranslatedPageContent
                    ().getPropertyContents().size());
                }
              }


            }
          else
          {
            ctcLogService.LogDebug("[CTEventsHandler] Is not a CT
                    TranslationEvent event. ignore.");
          }

        }
        catch (Exception te) {
          ctcLogService.LogRolloutError("[CTEventsHandler] Error: " +
                    te.getMessage() );
        }
        finally
        {

      }
    }

}
catch (Exception finale) {}
```

```
    ctcLogService.LogRolloutDebug("[CTEventsHandler] handleEvent called
                ...Done!");
  }
}
```

8 Installing and Configuring the Connector in a Clustered Environment

This section describes how to install the Connector in a clustered environment. It assumes that you are upgrading the Connector from a non-clustered environment to a clustered environment.

8.1 Before You Install

Before you begin to install the Connector for AEM in a clustered environment, please review the system requirements, described on "System Requirements" on page 10, and verify that each host that will be a cluster node in the cluster meets the requirements.

1. Prevent users from deliberately or accidentally sending items for translation during the upgrade process.

   Recommendation: Remove users from groups with permission to send new translation jobs.

2. "Setting Your System Date, Time, and Time Zone Correctly" on page 10. Do this on each host that will be a cluster node.

3. "Downloading the Delivery Package" on page 11. Do this once. Save the package to a location that is accessible to all hosts that will be cluster nodes.

4. "Creating a Clay Tablet Connector Database on your Database Server Instance" on page 11. Ensure that the database is accessible to all hosts that will be cluster nodes.

5. "Creating the Clay Tablet Connector Folders" on page 12. These are the folders where the Connector stores your licensing information and your translation data. Create one set of folders and sub-folders. Ensure that the folders will be accessible to all nodes in the cluster.

   Recommendation: Implement a Network Attached Storage (NAS) or Network File System (NFS) solution to ensure that the folders will be accessible to all nodes in the cluster.

8.2 Installing, Configuring, and Testing the Connector on the First Node in the Cluster

Follow these instructions to install, configure, and test the Connector on the host that will be the first node in the cluster:

1. Install the Connector installation package you downloaded earlier (`com.clay-tablet.cq5.6.1.ctc.client-2.0.zip`) on the first node in your cluster. For detailed instructions, see "Installing the Clay Tablet Connector" on page 14.

2. Disable all Clay Tablet services.

3. Perform the post-installation tasks, as described in "Post-Installation Tasks" on page 17.

4. Configure the Connector, as described in "Configuring the Connector" on page 24.

5. Test your configuration by sending a few content pages to the Machine Translation provider.
   - If your test is successful, proceed to the next step.
   - If your test fails, contact Clay Tablet Support. For details, see "How to Contact Clay Tablet Support" on page 9.
6. In your AEM instance, in your Web browser, navigate to `/system/console/components`.

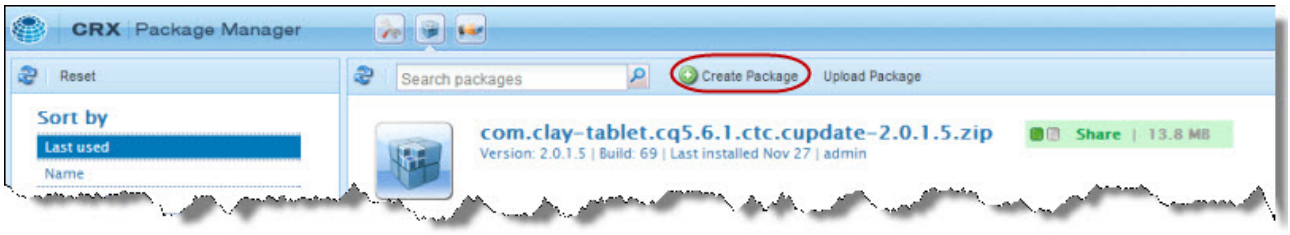
   The **Adobe Experience Manager Web Console Components** option opens.
7. Click the Disable buttons in the **Actions** column to disable the following components:
   - com.claytablet.cq5.ctctranslation.impl.CTCDownloadServiceImpl
   - com.claytablet.cq5.ctctranslation.impl.CTCPrepareServiceImpl
   - com.claytablet.cq5.ctctranslation.impl.CTCStatusServiceImpl
   - com.claytablet.cq5.ctctranslation.impl.CTCUpdateTMServiceImpl
   - com.claytablet.cq5.ctctranslation.impl.CTCUploadServiceImpl

8.3 Building an AEM Package from the First Node in the Cluster

From the host that is the first node in the cluster, you build an AEM package from `etc/ctctranslation`:

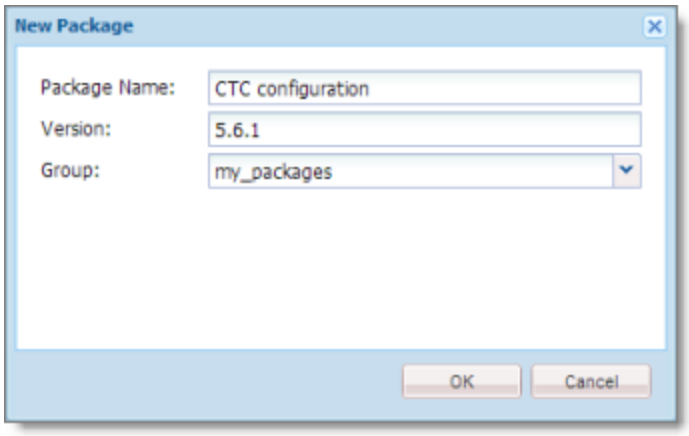
1. Do one of the following:
   - In the Touch-Optimized UI of AEM, click **Tools** in the AEM rail. Then, in the **Granite Operations** section, click **Packages**.
   - In the Classic UI of AEM, scroll down and click **Packages** in the right pane.
   - In your Web browser, navigate to `/crx/packmgr/index.jsp` on your AEM instance.

   The **CRX Package Manager** opens.



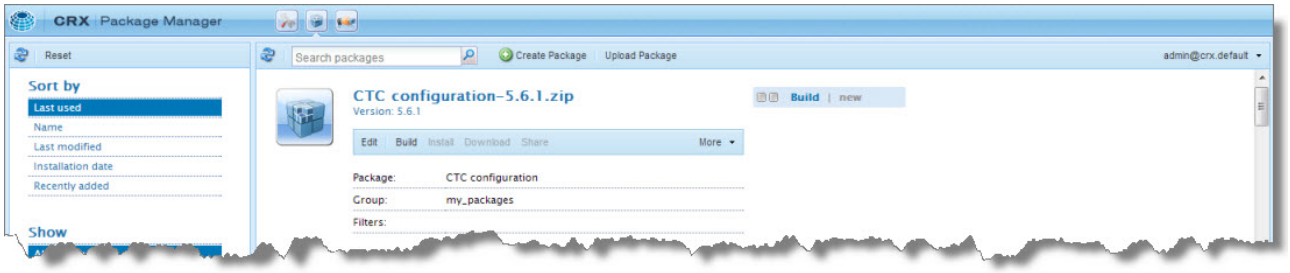
2. Click **Create Package**.

   The **New Package** dialog box opens.



3. Enter a name, version, and group for your package, and click **OK**.

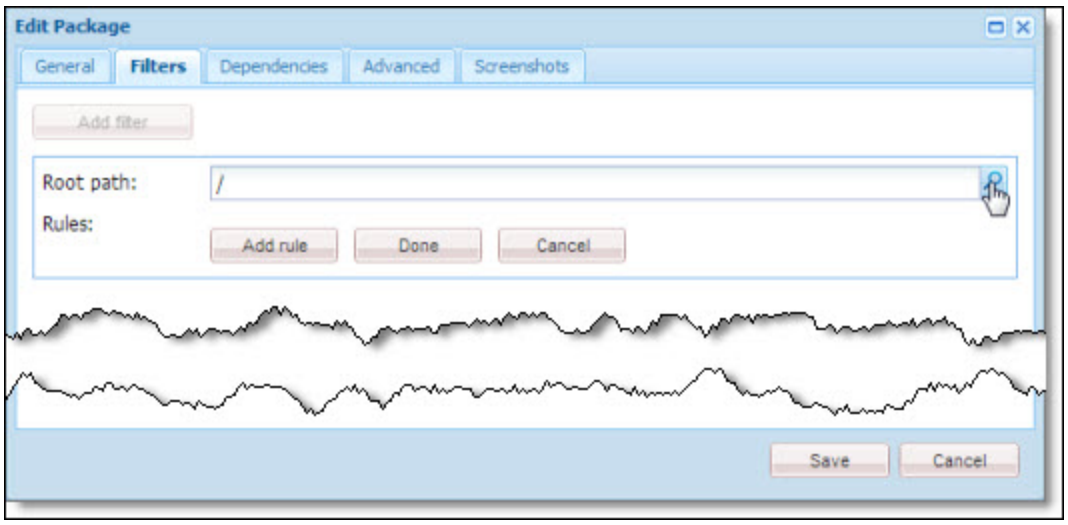
   The **Package Manager** displays the new package at the top of the page.



4. Click **Edit**.

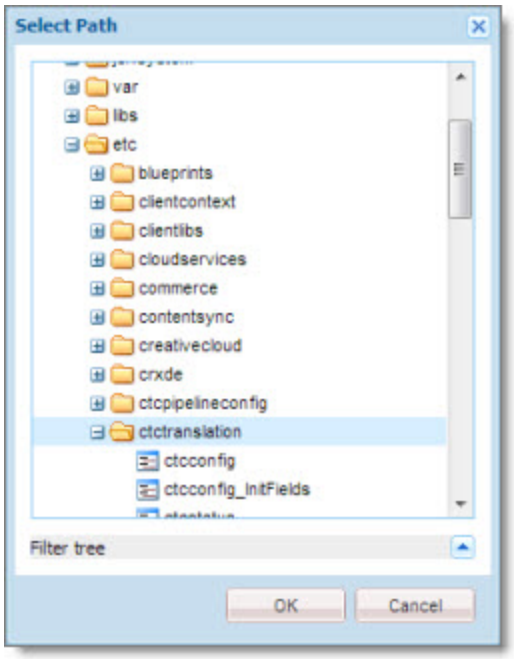
   The **Edit Package** dialog box opens.

5. Click the **Filters** tab and then click the magnifying glass button for the **Root path** field.

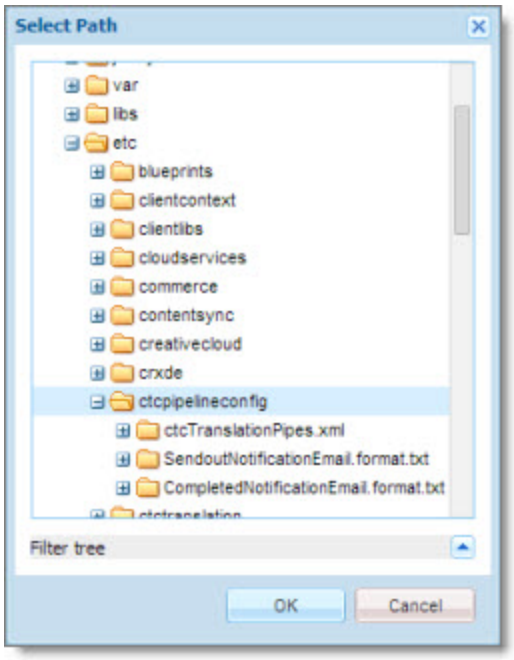


   The **Select Path** dialog box opens.

6. Navigate to `etc/ctctranslation` and click **OK**.



7. Click **Add Filter**.
8. Click the magnifying glass button for the **Root path** field.
9. Navigate to `etc/ctcpipelineconfig` and click **OK**.



10. Click **Save** to close the Edit Package dialog box.
11. Click **Build** to build the package.

    A message box prompts you to confirm that you want to build the package.
12. Click **Build** to proceed.

8.4 Installing the Connector on the Remaining Nodes in the Cluster

Now you are ready to install and configure the Connector on the rest of the nodes in the cluster. Repeat the following steps on each node in the cluster:

1. Install the Connector installation package you downloaded earlier (`com.claytablet.cq5.6.1.ctc.client-2.0.zip`). For detailed instructions, see "Installing the Clay Tablet Connector" on page 14.
2. As soon as you finish installing the Connector on a node, immediately disable all Clay Tablet services.
3. Install the package you created in "Installing the Connector on the Remaining Nodes in the Cluster" on page 94.
4. Do one of the following:
   - In the Touch-Optimized UI of AEM, click **Tools** in the AEM rail. Then, in the **Granite Operations** section, click **Packages**.
   - In the Classic UI of AEM, scroll down and click **Packages** in the right pane.
   - In your Web browser, navigate to `/crx/packmgr/index.jsp` on your AEM instance.

   The **CRX Package Manager** opens.
5. Click the Connector package name and follow the on-screen instructions.
6. In your AEM instance, in your Web browser, navigate to `/system/console/components`.

   The **Adobe Experience Manager Web Console Components** page opens.
7. Click the Disable buttons in the **Actions** column to disable the following components:
   - com.claytablet.cq5.ctctranslation.impl.CTCDownloadServiceImpl
   - com.claytablet.cq5.ctctranslation.impl.CTCPrepareServiceImpl
   - com.claytablet.cq5.ctctranslation.impl.CTCStatusServiceImpl
   - com.claytablet.cq5.ctctranslation.impl.CTCUpdateTMServiceImpl
   - com.claytablet.cq5.ctctranslation.impl.CTCUploadServiceImpl

Note: You must disable these components on all the nodes in the cluster before testing the configuration. You can enable or disable these components on all nodes using the `ServicesConfigXML` property of the `/etc/ctctranslation/ctcconfig` file. For details, see "Turning Services On and Off on All Cluster Nodes" on page 95.

8.5 Turning Services On and Off on All Cluster Nodes

By default, all Clay Tablet services are running. In a single-node environment, all services should be running, and they are started by default.

In a clustered environment, only one instance of the following Clay Tablet services should be running:

- com.claytablet.cq5.ctctranslation.impl.CTCDownloadServiceImpl
- com.claytablet.cq5.ctctranslation.impl.CTCPrepareServiceImpl
- com.claytablet.cq5.ctctranslation.impl.CTCStatusServiceImpl
- com.claytablet.cq5.ctctranslation.impl.CTCUpdateTMServiceImpl
- com.claytablet.cq5.ctctranslation.impl.CTCUploadServiceImpl

This means either:

- All the services can run on a single node in the cluster. The services are disabled on all other nodes in the cluster.
- Different services can run on different nodes in the cluster. For example, `PreparingService` and `UploadService` run on node 1, `StatusService` and `DownloadService` run on node 2, and `UpdateTMService` runs on node 3. All other instances of the services on all nodes are turned off.

You can create the `ServicesConfigXML` property of the `/etc/ctctranslation/ctcconfig` file to facilitate turning these services off and on all cluster nodes.

To create this configuration option:

1. In Notepad or another text editor, create a configuration file with the following content:

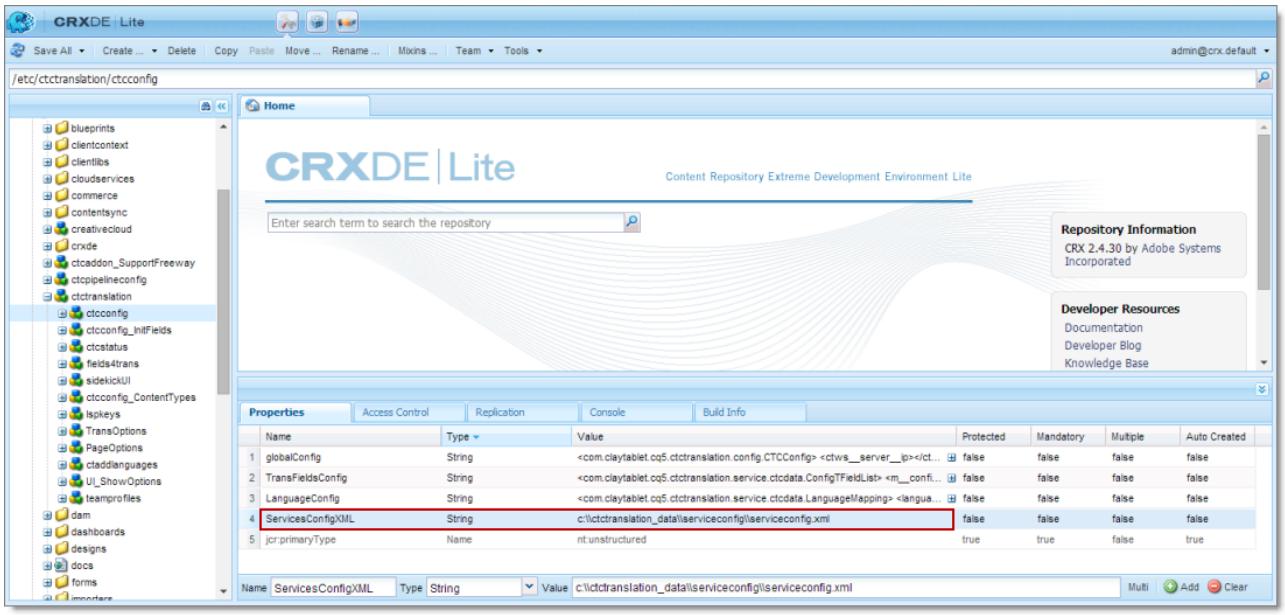
```
<com.claytablet.cq5.ctctranslation.config.CTCServicesConfig>
  <PrepareService>false</PrepareService>
  <UploadService>true</UploadService>
  <StatusService>true</StatusService>
  <DownloadService>true</DownloadService>
  <UpdateTMService>false</UpdateTMService>
</com.claytablet.cq5.ctctranslation.config.CTCServicesConfig>
```

2. Edit this file so that `true` indicates a service you want to run, and `false` indicates a service you do not want to run.
3. Save this as an XML file, with `UTF-8` encoding and without BOM (Byte Order Mark), for example, save this file as `c:\ctctranslation_data\serviceconfig\serviceconfig.xml`.

   Note: The values in the `serviceconfig.xml` file are hard coded, so they do not exactly match the actual service names, which are displayed in the Adobe Experience Manager Web Console Components page (`/system/console/components`).
4. Do one of the following to open **CRXDE Lite**:
   - In the Touch-Optimized UI of AEM, click **Tools** in the AEM rail. Then, in the **Granite Operations** section, click **CRXDE Lite**.
   - In the Classic UI of AEM, click **CRXDE Lite** in the right pane.
   - In your Web browser, navigate to `/crx/de/index.jsp` on your AEM instance.

   CRXDE Lite opens.
5. In the navigation pane on the left, navigate to `/etc/ctctranslation/ctcconfig`.
6. At the bottom of the page, enter the following information to create the `ServicesConfigXML` property:
   - **Name:** `ServicesConfigXML`.
   - **Type:** `String` (the default selection).
   - **Value:** The path to the XML file you created, for example: `c:\\ctctranslation_data\\serviceconfig\\serviceconfig.xml`.

     Note: If the path includes back slashes (`\`), you must replace them with double back slashes (`\\`).
7. Click **Add**.



Note: After disabling a service, it still is displayed as `Active` in the Adobe Experience Manager Web Console Components page (`/system/console/components`). However, you can view the log file for each service to verify that it was turned off.

8.6 Testing the Cluster Configuration

Before testing the configuration, you must disable the following components on all the nodes in the cluster:

- com.claytablet.cq5.ctctranslation.impl.CTCDownloadServiceImpl
- com.claytablet.cq5.ctctranslation.impl.CTCPrepareServiceImpl
- com.claytablet.cq5.ctctranslation.impl.CTCStatusServiceImpl
- com.claytablet.cq5.ctctranslation.impl.CTCUpdateTMServiceImpl
- com.claytablet.cq5.ctctranslation.impl.CTCUploadServiceImpl

You can use the `ServicesConfigXML` property of the `/etc/ctctranslation/ctcconfig` file to facilitate disabling these components on all nodes. For details, see "Turning Services On and Off on All Cluster Nodes" on page 95.

You enable these disabled components on a single cluster node before testing.

1. In your AEM instance, in your Web browser, navigate to `/system/console/components`.

   The Adobe Experience Manager Web Console Components option opens.

2. Click the Enable buttons  in the **Actions** column to enable the following components:
   - com.claytablet.cq5.ctctranslation.impl.CTCDownloadServiceImpl
   - com.claytablet.cq5.ctctranslation.impl.CTCPrepareServiceImpl
   - com.claytablet.cq5.ctctranslation.impl.CTCStatusServiceImpl
   - com.claytablet.cq5.ctctranslation.impl.CTCUpdateTMServiceImpl
   - com.claytablet.cq5.ctctranslation.impl.CTCUploadServiceImpl
3. Test your configuration by sending a few content pages to the Machine Translation provider.
   - If your test is successful, you are done.
   - If your test fails, contact Clay Tablet Support. For details, see page 9.

9 Automatically Updating Your Connector Configuration

You can configure the Connector to automatically load and update its configuration . This is useful in the following scenarios:

- upgrading your instance of the Connector
- moving your installation into a new environment
- copying your installation to a new environment

To configure the Connector to automatically load a configuration, you create the `CTC_INIT_HOME` environment variable on the AEM server, and then you copy your exported configuration files into the `InitConfig` directory specified by this environment variable.

You can automatically import the your configuration from the following Connector pages, which are available from the **Admin Tools** menu in the Connector rail:

- Configuration page
- Language Mapping
- Component Mapping
- LSP and Keys

To export your configuration from the Connector:

Each Connector configuration page corresponds to an XML configuration file. The table below indicates which Connector configuration page corresponds to a particular configuration file. For detailed export instructions, refer to the last column in the table:

To Export Your Configuration from This Page	Export This Configuration File	For Details, See...
Configuration page, **Export Configuration** button	ctcconfig.xml	"Configuring Connector Global Settings" on page 25
Configuration page, **Export Translation Options** button	transoptions.xml	"Configuring Connector Global Settings" on page 25
Language Mapping	languagemapping.xml	"Configuring Connector Languages" on page 48
Component Mapping	fields4trans.xml	"Configuring which Components and Properties to Send Out for Translation" on page 52 "Subscribing to Email Notifications about New Fields and Components" on page 55
LSP and Keys	lspkeys.xml	"Configuring Translation Providers and the CMS Address and Platform Keys" on page 57

To set up the Connector to automatically import configuration files:

1. Create the `CTC_INIT_HOME` environment variable on the AEM server.
2. Set the value of this environment variable to a directory with read and write permissions that is accessible to the AEM process or instance, for example: `C:\ctcdata\init_config\`.
3. Restart the AEM server.

The Connector now monitors this directory and automatically loads any configuration files in this directory. It saves the configuration files to the following location on the AEM server: `/etc/ctctranslation`.

To specify which configuration files to import:

- Copy the configuration files exported previously into the directory specified by the `CTC_INIT_HOME` environment variable.

The Connector automatically loads these configuration files and updates its configuration.

10 Troubleshooting Installation and Configuration Issues

Issue	Description
"Clay Tablet Connector Does Not Load" on page 101	The Clay Tablet Connector does not load, or only the Connector landing page loads, but the Connector does not run.
"A Translation Job Does Not Return" on page 101	A translation job does not return, and the user does not receive notification of any issue.
"Search Agents Are Not Displayed" on page 102	■ The default search agents are not displayed in the **Search Agents** page. (Click **Admin Tools > Search Agents** in the Clay Tablet Connector rail to open the **Search Agents** page.) ■ The default search agents are not available for selection from the **Search Using Agent** dropdown list in the **Pages** page of the **Bulk Translation** wizard.

10.1 Clay Tablet Connector Does Not Load

One or both of the following issues may cause the Clay Tablet Connector not to load, or may cause only the Connector landing page to load, but the Connector does not run.

Possible Issue	Explanation	Solution
Configuration files are loaded from the `InitConfig` Clay Tablet local directory, and the user accessing this directory does not have read/write permissions.	If you are trying to load configuration files from `InitConfig` Clay Tablet local directory, the user accessing this directory must have read/write permissions.	For detailed configuration instructions, see "Automatically Updating Your Connector Configuration" on page 99.
The configuration files are pointing to an incorrect database location.	Refer to the general log file for details. If there are database errors, such as all database statements are failing, or if there is a general communications link failure, the database may be incorrectly configured.	Check the database strings in the configuration file.

10.2 A Translation Job Does Not Return

Issue: A translation job does not return, and the user does not receive notification of any issue.

Explanation: An error occurred when the Connector was deserializing an XML file. This error is displayed only in a log file.

Workaround: Restart AEM.

10.3 Search Agents Are Not Displayed

Possible Issue	Explanation	Solution
The default search agents are not displayed in the **Search Agents** page. (Click **Admin Tools > Search Agents** in the Clay Tablet Connector rail to open the **Search Agents** page.)	The configuration files are pointing to an incorrect database location. Refer to the general log file for details. If there are database errors, such as all database statements are failing, or if there is a general communications link failure, the database may be incorrectly configured.	Check the database strings in the configuration file.
The default search agents are not available for selection from the **Search Using Agent** dropdown list in the **Pages** page of the **Bulk Translation** wizard.		

11 Pre-Production Testing

After you complete the configuration, your Clay Tablet Connector for Adobe Experience Manager 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 Adobe Experience Manager 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 9.

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