Clay Tablet Connector for Adobe Experience Manager

# Installation and Configuration Guide

Special Edition for use with Lionbridge Freeway

Version 3.0.0

January 13, 2017

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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, Special Edition for use with Lionbridge Freeway (Connector). This is Clay Tablet's connector between Adobe Experience Manager and the Clay Tablet Platform. This special edition enables you to automate sending and retrieving content from Adobe Experience Manager directly to and from Freeway.

## 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 systems, including content management systems (CMSs), to translation providers and back during implementation. Clay Tablet Technologies configures the Platform based on the number and nature of systems involved in your system architecture. |
| **Freeway** | The name of the Lionbridge translation portal for submitting content to and retrieving content from the Lionbridge translation provider. |
| **FTP Server** | File Transfer Protocol (FTP) is a standard network protocol used to transfer files from one host to another host over a TCP-based network, such as the Internet. Translation providers may receive and send files for translation using an FTP server. |

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| | |
|---|---|
| **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.<br><br>**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 support technical issues caused by duplicating or incorrectly installing CMS address keys only on a time and materials basis. |
| **Lionbridge** | The publisher of the Freeway translation portal and a translation provider. Users connect to the Freeway translation portal to submit content to and retrieve content from the Lionbridge translation provider. |
| **MT** | Machine translation. The translation provider can be a machine translation service, such as Google Translate. |
| **On-Premise Platform** | A version of the Clay Tablet Platform that is hosted and managed by the Clay Tablet client, instead of hosted on AWS by Clay Tablet. |
| **Producer** | CMS or another system that sends content or documents out for translation. In this case, this is your 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 systems, including content management systems (CMSs) and other content producers, with translation providers and translation technologies.

Clay Tablet Platform is the hosted (IaaS) connectivity platform that receives and routes content from content management systems to translation providers and back, including to Lionbridge via Freeway or onDemand. 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:

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- 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 and Freeway

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.
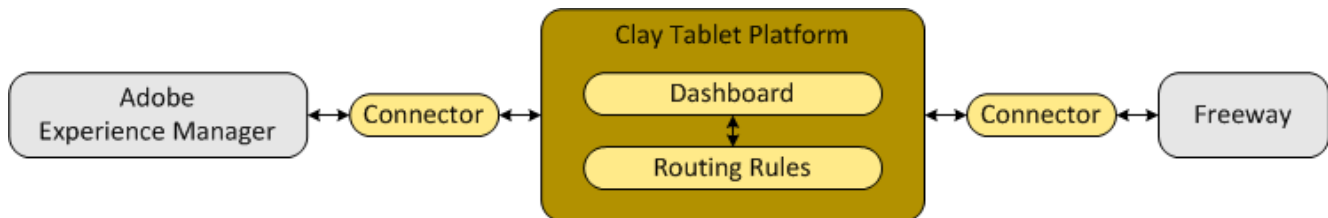


Your translation systems architecture might look like the configuration above. It may have additional CMSs or translation providers in addition to Lionbridge, which is accessed via Freeway, but the core concepts remain the same.

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.

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## What you should already know

This document assumes that your company already has an installed instance of AEM. It also assumes that Lionbridge is your company's translation provider, and Freeway is already set up for your company. It assumes that you have a strong working knowledge of 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, Special Edition for use with Lionbridge Freeway*.

## To access all Clay Tablet Connector for AEM documentation:

1. Log into AEM.

2. Do one of the following:

    ▦ In the Touch-Optimized UI of AEM 6.0 or higher, click **Tools > 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.

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

    This displays the **Admin Tools** menu options.

4. Click **Help**.

    A new web page opens, displaying links to the Clay Tablet Connector for AEM documentation.

## 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**." |

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## 1.5  How to Contact Clay Tablet Support

Email @: support@clay-tablet.com

Telephone: +1-416-363-0888

You can submit a support ticket either:

- by email
- from the Clay Tablet Zendesk page, using your web browser

### To submit a support ticket:

1.  Do one of the following:

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

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

    ▦  Create a ticket in Zendesk:

    a.  Open the Clay Tablet Zendesk page in your browser: https://claytablet.zendesk.com.

    b.  Sign in to Zendesk. If you do not have sign-in credentials, see "To view and update your support ticket in Zendesk:" below.

    **Important:** Include the information and attachments that are listed in the sub-sections below.

    c.  Click **Submit a request**.

    d.  In the **CCs** field, add anyone to include in the ticket correspondence.

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

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

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

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

### Information to include in the support ticket:

- client name
- CMS or content system name and version
- Connector or App version installed
- name of job for which the issue occurs
- date of job submission
- detailed description of the issue
- any error text–copy and paste, if applicable

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**Files to attach to the support ticket:**

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

**To view and update your support ticket in Zendesk:**

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

1.  Open the Clay Tablet Zendesk page in your browser: https://claytablet.zendesk.com.

2.  In the top-right corner, click **Sign in**, and enter your credentials.

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



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

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

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

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

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# 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" on page 13.

2.  "Downloading the Delivery Package" on page 14.

3.  "Creating a Clay Tablet Connector Database on your Database Server Instance" on page 15.

4.  Optional. "Creating the Clay Tablet Connector Folders" on page 16. These are the folders where the Connector stores data for manual translation updates and shared configuration files. It may also store log files.

> **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 support technical issues caused by duplicating or incorrectly installing CMS address keys only on a time and materials basis.

**Note:** If you are installing the Connector in a clustered environment, see "Installing the Connector in a Clustered Environment" on page 115.

## 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.`

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## 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:<br>■ `CTC_MsSQL_Database_.w.x_to_.y.z.sql`, for Microsoft SQL databases;<br>■ `CTC_MySQL_Database_.w.x_to_.y.z.sql`, for MySQL databases;<br>■ `CTC_Oracle_Database_.w.x_to_.y.z.sql`, for Oracle databases;<br>where `.w.x_to_.y.z` is the range of supported versions of the Connector for AEM for the database script. |
| Clay Tablet Translation Connector-x.y.z-<datetimestamp> | The installation package that you will install into your AEM system using the Package Manager tool.<br>■ AEM version 6.1: `CLAY TABLET TRANSLATION CONNECTOR-x.y.z-yyyy-MMddkkmm`, where *x.y.z* is the supported AEM version number, for example, `CLAY TABLET TRANSLATION CONNECTOR-2.4.0-2015-07211419`.<br>**Note about upgrading from a previous version of the Connector with AEM 6.1:** There is a single package for both new installations and upgrades from previous installations. This redesigned package prevents overwriting your configuration settings while upgrading.<br>■ Pre-6.1 versions of AEM: `com.clay-tablet.cqx.y.z.ctc.client-a.b-yyyy-MMddkkmm.zip`, where *x.y.z* is the supported AEM version number and *a.b* is the current version of the Connector for AEM, for example `com.clay-tablet.cq5.6.1.ctc.client-2.4.0-2015-07211419.zip`.<br>**Note about upgrading from a previous version of the Connector with a pre-6.1 version of AEM:** 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. |
| Freeway support package | `com.clay-tablet.cqx.x.ctc.client.addon.freewaysupport-y.z.zip`, which is the Freeway-support add-on installation package that you will install into your AEM system using the Package Manager tool, where *x.x* is the supported AEM version number and *y.z* is the current version of the Connector for AEM. |

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| Folder Name | Description |
|---|---|
| CTC Data | The Connector Data folder zip archive, `CTCData.zip`.<br>**Note:** This folder is optional. |
| Documents | ■ *Clay Tablet Connector for Adobe Experience Manager Installation and Configuration Guide, Special Edition for use with Lionbridge Freeway* (this document)<br>■ *Clay Tablet Connector for Adobe Experience Manager User Guide, Special Edition for use with Lionbridge Freeway* |
| 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`. |
| Vojo Client for Demo Server | This is Lionbridge's self-service testing tool that emulates the return delivery functionality that a Lionbridge project manager performs in a production environment. A systems integrator generally uses this tool as part of round-trip testing efforts. It is not intended for use by Freeway end-users, and it is not generally used in a production environment.<br>**Note:** Users require Freeway credentials from Lionbridge to use this tool. |

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

**Note about upgrading from a previous version of the Connector:** If you are upgrading from a previous version of the Connector, please contact Clay Tablet Support for upgrade scripts and detailed instructions on upgrading your database. For details, see "How to Contact Clay Tablet Support" on page 10.

### 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 a data folder that Connector uses to store licensing information and translation data. This step is optional. The Connector uses the sub-folders to store data for translation updates and shared configuration files. It may also store log files.

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 14, and extract all the included folders into the target `CTCdata` folder. This creates the following two subfolders in the `CTCdata` folder:

| Sub-Folder | Folder Access Permissions | Description |
|---|---|---|
| update | Full | This folder will contain manually updated translated files.<br>**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. |

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| Sub-Folder | Folder Access Permissions | Description |
|---|---|---|
| logs | Full | This folder may be used by the Connector to store Connector log files, if you select the Logs check box in the **Folder and Permissions** section of the **Configuration** page. For details, see "Folder and Permission" on page 44. |

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

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# 3 Integrating the Connector with AEM's Translation Integration Framework (AEM version 6.1 only)

This section describes how to integrate and configure AEM's translation integration feature (AEM version 6.1) with the Connector. For detailed information about this feature, refer to the AEM documentation, "Translating Content for Multilingual Sites," which is available at: http://docs.adobe.com/docs/en/aem/6-1/administer/sites/translation.html.

**Note:** For information on using this feature, refer to steps 4-6 in the Adobe documentation at the above link and "Using the AEM Translation Integration Framework to Manage Translations" in the *Clay Tablet Connector for Adobe Experience Manager User Guide, Special Edition for use with Lionbridge Freeway*.

To integrate the Connector with AEM's translation integration feature:

1. Unzip ctc_data.zip, and save it to a location on the file system that AEM can access.

2. Install the Connector package. For detailed instructions, see "Installing the Clay Tablet Connector and the Freeway Add-On" on page 27.

3. In AEM, create a cloud configuration that connects to the Connector. For detailed instructions, see "Creating an AEM Cloud Configuration for the Connector" on page 19.

4. In the Connector, configure the Connector for AEM's Translation Integration feature. For detailed instructions, see "Configuring the Connector for AEM Translation Integration" on page 20.

5. In the Connector, configure the translation provider and keys. For detailed instructions, see "Configuring LSP and Keys for AEM Translation Integration" on page 21.

6. In the Connector, configure the AEM team profile. For detailed instructions, see "Configuring an AEM Team Profile for AEM Translation Integration" on page 22.

7. In AEM, edit the settings for your Clay Tablet Connector cloud configuration. For detailed instructions, see "Editing Clay Tablet Cloud Configuration Settings" on page 22.

8. In AEM, you create a translation integration configuration and edit its settings. This specifies the AEM settings for translating your content. For detailed instructions, see "Creating a Translation Integration Configuration for the Connector" on page 24.

9. Optional. You can associate part of your web site (a page and descendent pages) with Clay Tablet or with a specific Clay Tablet translation integration configuration. For detailed instructions, refer to "Configuring Pages for Translation" in the AEM documentation at: http://docs.adobe.com/docs/en/aem/6-1/administer/sites/translation/tc-tic.html.

10. Optional. You can specify which content to translate. For detailed instructions, refer to "Identifying Content to Translate" in the AEM documentation at: http://docs.adobe.com/docs/en/aem/6-1/administer/sites/translation/tc-rules.html.

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## 3.1 Creating an AEM Cloud Configuration for the Connector

Within AEM's translation integration feature, you create a cloud configuration that connects to the Connector. Each configuration contains a set of Connector settings, which you will configure later. You can create multiple configurations. For example, you can create one configuration to send content to the Translation Queue, and you can created another configuration to send out content directly for translation. You can also create a different configuration for each translation provider.

To create a Connector configuration within AEM's translation integration feature:

1. Do one of the following to open the **Adobe Cloud Services** page:

   ⊞ In your Web browser, navigate to `/etc/cloudservices.html` in your AEM instance.

   ⊞ In the Touch-Optimized UI of AEM, click **Tools > Operations > Cloud > Cloud Services** in the AEM rail.
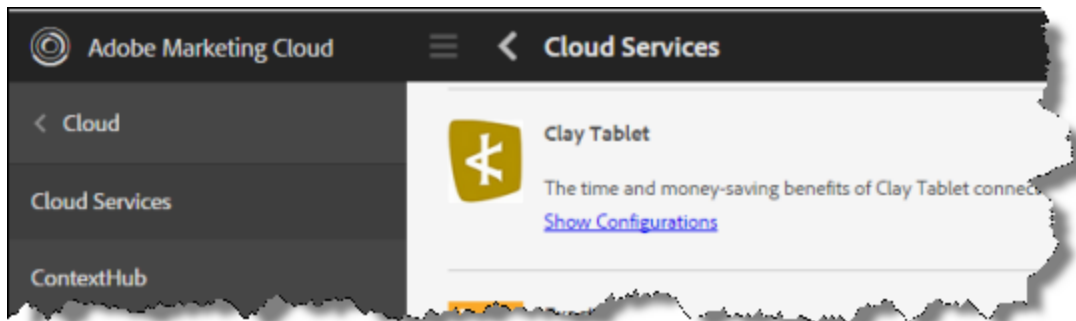


2. Create a cloud configuration that connects AEM to Clay Tablet:

   a. Scroll down to locate the **Clay Tablet** entry.

   b. Click **Show Configurations**.

   c. Click the plus icon to create a new configuration.



   The **Create Configuration** page opens.

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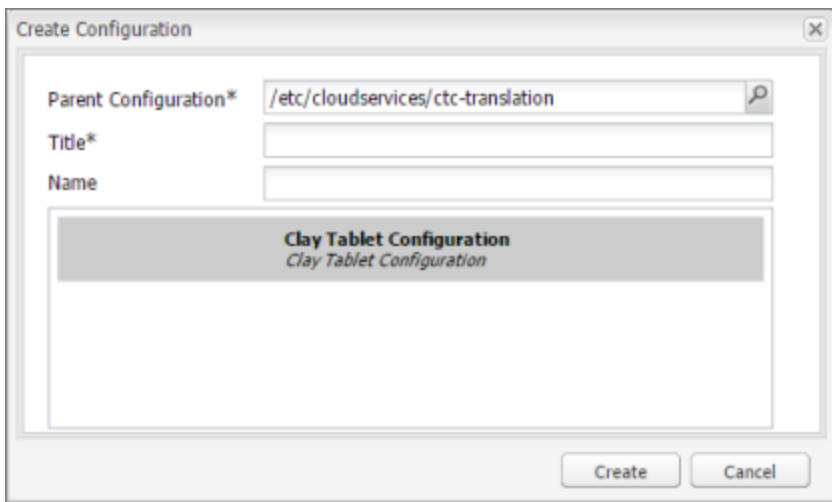
d.  In the **Title** field, enter a descriptive name to identify this configuration. For example, if you will use this configuration to send content directly to the **Translation Queue**, you can call this queue.

> **Important:** Do not modify the value in the **Parent Configuration** field.

e.  Save your changes and click **OK**.

The **Clay Tablet Settings** page opens for the configuration you just created.
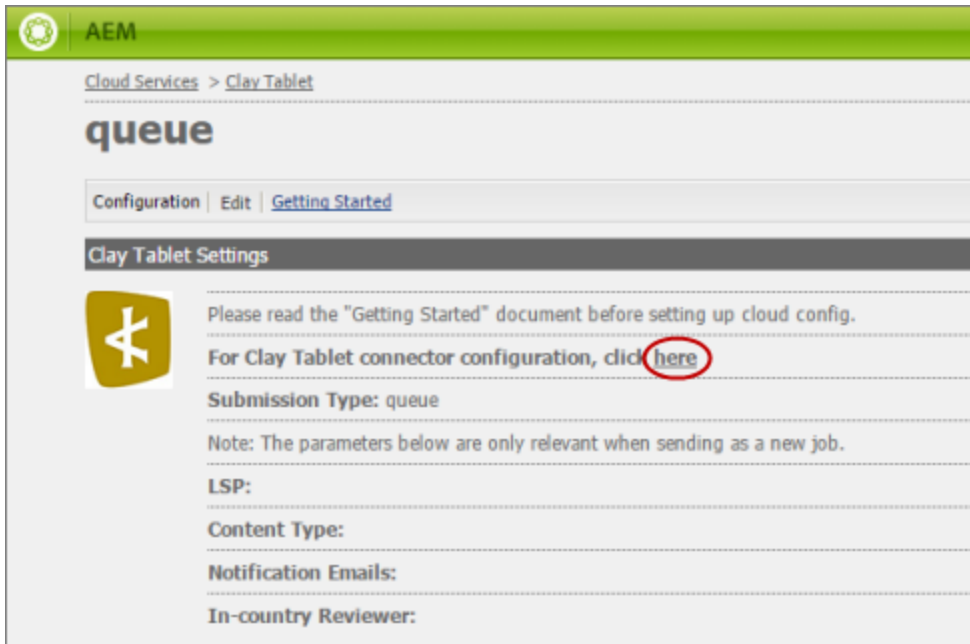


f.  Click the following link to open the Connector's **Configuration** page: **For Clay Tablet connector configuration, click here**, as shown above.

For detailed instructions on configuring the Connector on the **Configuration** page for AEM's translation integration feature, see "Configuring the Connector for AEM Translation Integration" on page 20.

## 3.2  Configuring the Connector for AEM Translation Integration

For each Connector configuration that you create within AEM's translation integration feature, you configure the Connector on its **Configuration** page:

To configure the Connector:

1.  If the Connector's Configuration page is not already open, then open it. Either:

⊞  Click the **click here** link in the **Clay Tablet Settings** page for the configuration you just created, as described at the end of "Creating an AEM Cloud Configuration for the Connector" on page 19.

⊞  In the Clay Tablet Connector rail, click **Admin Tools > Configuration**.

The **Configuration** page opens.

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2. Scroll down to the **Translation Platform** section.

    a. In the **Platform Type** list, select `AWS Public Platform`.

    b. In the **Public Platform** box, in the **License ID** field, enter one of the following:

        ▪ the license uuid, sent by email

        ▪ the license ID from the `License_ID.txt` file in the package you downloaded

    For more information about this section of the Configuration page, see "Translation Platform" on page 40.

3. In the **JDBC SQL Connection** section:

    a. Enter the JDBC URL and login credentials.

    b. Click **Test** to verify the JDBC connection and credentials.

    After testing, a message box indicates whether your configuration passed the test.

    For more information about this section of the Configuration page, see "JDBC SQL Connection" on page 42.

4. In the **Folder and Permission** section:

    a. In the **Data Folder** field, enter the path to the location where you extracted `ctc_data.zip`, in step 1 of "Integrating the Connector with AEM's Translation Integration Framework (AEM version 6.1 only)" on page 18.

    b. Click **Test** to verify that this path is correct.

    After testing, a message box indicates whether your configuration passed the test.

    For more information about this section of the Configuration page, see "Folder and Permission" on page 44.

5. At the bottom of the page, click **Save Configuration**.

## 3.3 Configuring LSP and Keys for AEM Translation Integration

You configure the translation providers and Clay Tablet Platform for AEM translation integration. This supports selecting a translation provider from within the AEM translation framework.

To configure keys for AEM integration:

1. In the Clay Tablet Connector rail, click **Admin Tools > LSP and Keys** to open the **LSP & Keys** page.

2. Click **Add**.

3. In the **LSP Name** field, enter the name of the translation provider. For example, enter `MT`.

4. Next to the **Account (key)** dropdown list, click **Retrieve**.

5. Select the account license key for the translation provider.

6. Click **Get key XML**.

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

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▓   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.

For more information about the LSP & Keys page, see "Configuring Translation Providers and the CMS Address and Platform Keys" on page 77.

## 3.4   Configuring an AEM Team Profile for AEM Translation Integration

You configure an AEM team profile for AEM translation integration. This enables users in the team to access the AEM translation framework.

To configure keys for AEM integration:

1.  In the Clay Tablet Connector rail, click **Admin Tools > Team Profiles** to open the **Team Profiles** page.

2.  In the **Name** field, enter a name for this team profile.

3.  In the **Source Language** column, select the check box for the source language.

4.  In the **Target Language** column, select the check box(es) for the target language(s).

5.  In the **LSP** column, select the `MT` check box.

6.  In the **AEM Users** column, select the `admin` check box.

7.  In the **AEM Groups** column, select the `administrators` check box.

8.  Click **Save**.

For more information about the Team Profiles page, see "Configuring Team Profiles" on page 84.

## 3.5   Editing Clay Tablet Cloud Configuration Settings

In AEM, you edit the settings for your Clay Tablet Connector cloud configuration that you created in "Creating an AEM Cloud Configuration for the Connector" on page 19.

1.  Do one of the following to return to the **Adobe Cloud Services** page:

▓   In your Web browser, navigate to `/etc/cloudservices.html` in your AEM instance.

▓   In the Touch-Optimized UI of AEM, click **Tools > Operations > Cloud > Cloud Services** in the AEM rail.

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2.   Under **Clay Tablet**, click **Show Configurations**.

3.   Click the link for the configuration you created earlier.

4.   At the top of the page that opens, click **Edit**.

The **Edit Component – Clay Tablet Connector Translator Settings** dialog box opens.
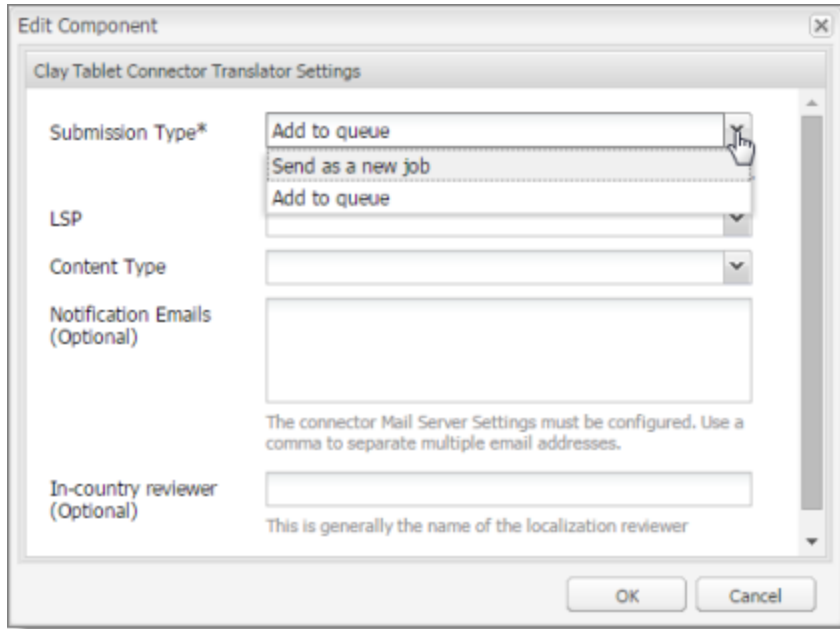


5.   Enter values for the following settings:

| Setting | Description |
|---|---|
| Submission Type | Select one of the following options:<br>■ Add to queue: The Connector adds the specified pages to the Translation Queue. In the Translation Queue, you can group items together by project, priority, and target language, and you can require additional approval before sending items out for translation.<br>■ Send as a new job: The Connector immediately sends out the specified pages for translation as a new translation job, according to your company's routing rules and the options you specify below. |
| The remaining settings are relevant only if **Submission Type**, above, is Send as a new job. Specify the appropriate settings for your company. | |
| LSP | Select the translation provider for your translation jobs. |

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| Setting | Description |
|---|---|
| Content Type | You can tag the content in a translation job as a specific content type. Depending on your company's configuration, the Clay Tablet Platform may send the content to a specific translation provider based on the content type. Select one of the following content types:<br>■ Marketing<br>■ Technical<br>■ Legal<br>**Note:** You may see different content types if your company has configured custom content types. |
| Notification Emails | Enter one or more email addresses that will receive notification when the content leaves AEM and when it returns to AEM. Use a comma to separate multiple email addresses. |
| In-country Reviewer | Optional. This is generally the name of the localization reviewer, which is stored in the `InCountryReviewer` attribute in the XML sent to the translation provider. By default, this field is hidden. |

6.  Click **OK** to save your changes and close the dialog box.

## 3.6 Creating a Translation Integration Configuration for the Connector

In AEM, you create a translation integration configuration and edit its settings. These are the AEM settings for how to translate your content. You can create multiple configurations, for example, if you have different translation providers for different sites, or if there are different kinds of content that you want to send out for translation for different sites.

To creating a translation integration configuration for the Connector:

1.  Do one of the following to return to the **Adobe Cloud Services** page:

    ▦ In the configuration page (described in the previous section), click the **Cloud Services** link in the top-left corner of the page.
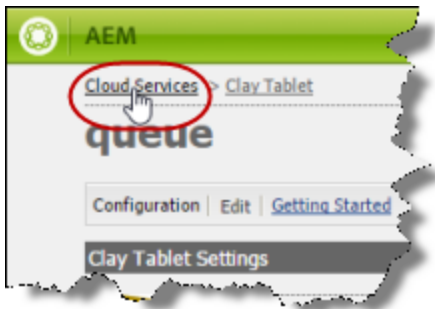
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⬚  In your Web browser, navigate to `/etc/cloudservices.html` in your AEM instance.

⬚  In the Touch-Optimized UI of AEM, click **Tools > Operations > Cloud > Cloud Services** in the AEM rail.

2.  Under **Translation Integration**, click **Show Configurations**.
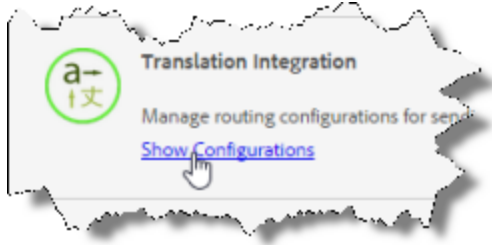


3.  Click the plus sign beside **Available Configurations** to add a new configuration for Clay Tablet.

    The **Create Configuration** dialog box opens.
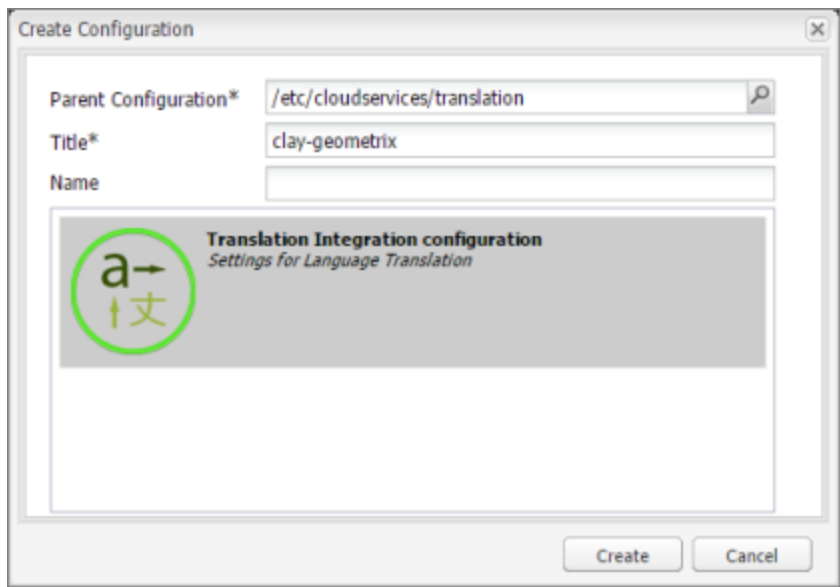


4.  In the **Title** field, enter a descriptive title that includes both Clay Tablet and the site, for example, `clay-geometrix`, and then click **Create**.

    The **Translation Config** dialog box opens.

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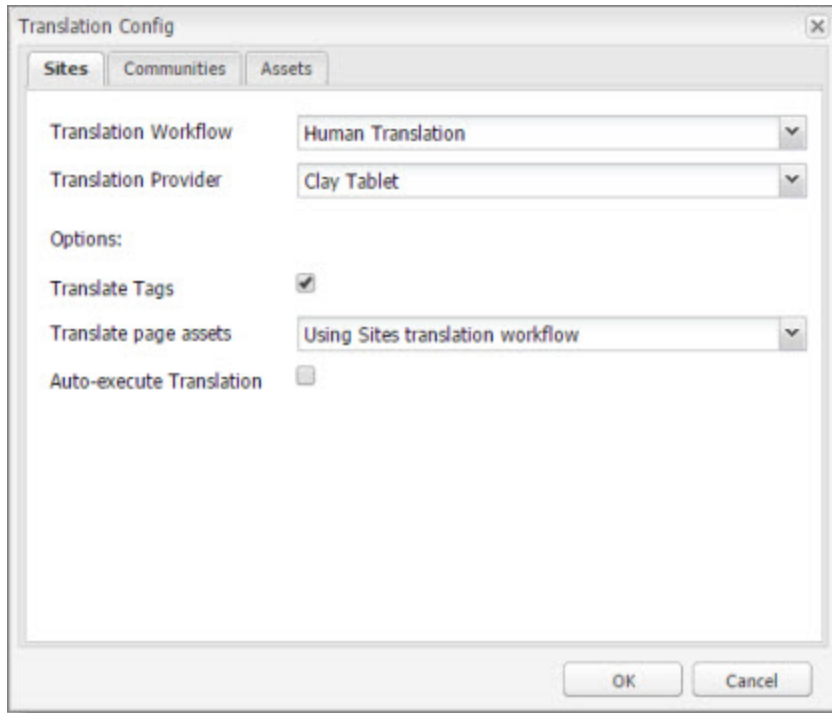
5.  In the **Sites** tab:

   ▦  For **Translation Workflow**, select `Human Translation`.
   ▦  For **Translation Provider**, Select `Clay Tablet`. This name identifies the Connector in the AEM translation integration framework.

   **Note about Assets tab:** AEM extracts text associated with metadata into an XML file, which the Connector processes. Some translation providers, such as MT, may not support translating these files.

   For descriptions of the other fields and tabs, refer to "Creating a Translation Integration Configuration" in the AEM documentation at http://docs.adobe.com/docs/en/aem/6-1/administer/sites/translation/tc-tic.html.

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

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# 4   Installing the Clay Tablet Connector and the Freeway Add-On

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 14.

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 13.

**Note:** If you are installing the Connector in a clustered environment, see "Installing the Connector in a Clustered Environment" on page 115.

### 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.
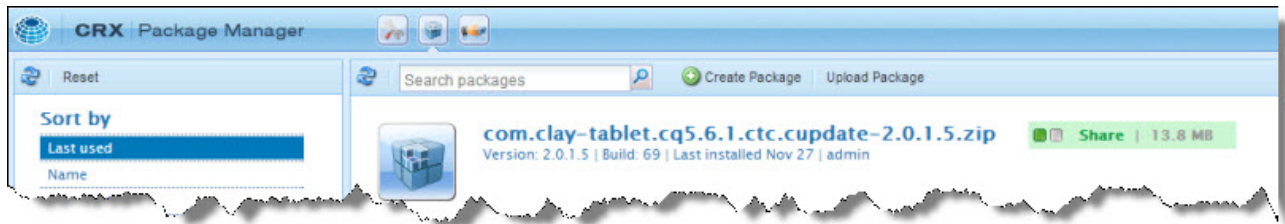


2.  Click **Upload Package** to upload the Clay Tablet Connector package to the AEM server.

3.  Click the name of the package you uploaded earlier, and follow the on-screen instructions.

4.  Repeat steps 2 and 3 to upload and install the Connector Freeway Support solution package using the Package Manager.

**Note:** If you are integrating the Connector with AEM's Translation Integration Framework (version 6.1 only), return to page 18, and follow the instructions.

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# 5  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 28.

2. "Verifying that the Bundle and All Connector Components Are Active" on page 29.

3. "Verifying that the Connector Nodes are Installed" on page 31.

4. "Verifying that All Connector Nodes are Active" on page 32.

5. "Configuring Network Settings for a Firewall" on page 34. (Optional)

## 5.1  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 35.

2. In the **JDBC SQL Connection** section, configure the Connector's database connection. For detailed instructions, see "JDBC SQL Connection" on page 42.



3. In the **Folder and Permissions** section, configure the Connector's data folder. For detailed instructions, see "Folder and Permission" on page 44.



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## 5.2 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:

| AEM Version | Number of Connector Components |
|---|---|
| AEM 5.6.1 | 21 |
| AEM 6.0 | 21 |
| AEM 6.1 | 24 |

**Note:** The additional services are required in AEM 5.1 to support the Translation Integration Framework.

### 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.
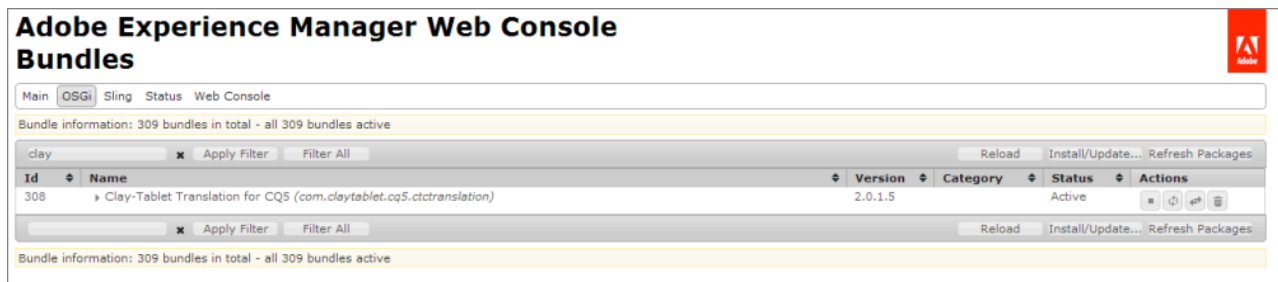


3.  Verify that the Clay Tablet bundle has active status.

### 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:

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| Connector Component | AEM 5.6.1 | AEM 6.0 | AEM 6.1 |
|---|---|---|---|
| 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.CTCRolloutCheckServiceImpl | ✓ | ✓ | ✓ |
| com.claytablet.cq5.ctctranslation.impl.CTCStatusServiceImpl | ✓ | ✓ | ✓ |
| com.claytablet.cq5.ctctranslation.impl.CTCUpdateTMServiceImpl | ✓ | ✓ | ✓ |
| com.claytablet.cq5.ctctranslation.impl.CTCUploadServiceImpl | ✓ | ✓ | ✓ |
| com.claytablet.cq5.ctctranslation.impl.CTCWordsCountServiceImpl | ✓ | ✓ | ✓ |
| com.claytablet.cq5.ctctranslation.service.RolloutEventHandle.RolloutEventCTHandler | ✓ | ✓ | ✓ |
| com.claytablet.cq5.ctctranslation.workflow.RestoreCTCUnlockedProcess | ✓ | ✓ | ✓ |
| com.claytablet.cq5.ctctranslation.workflow.RolloutCTCQueueProcess | ✓ | ✓ | ✓ |
| com.claytablet.cq5.ctctranslation.workflow.RolloutCTCTranslationProcess | ✓ | ✓ | ✓ |
| com.claytablet.cq5.ctctranslation.translationapi.impl.config.DummyTranslationAdapterFactory | | | ✓ |

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| Connector Component | AEM 5.6.1 | AEM 6.0 | AEM 6.1 |
|---|---|---|---|
| com.claytablet.cq5.ctctranslation.translationapi.impl. CTCTranslationJobManagerImpl | | | ✓ |
| com.claytablet.cq5.ctctranslation.translationapi.impl. CTCTranslationServiceFactoryImpl | | | ✓ |

## 5.3 Verifying that the Connector Nodes are Installed

After installing the Connector, you must access the CRXDE Lite interface to ensure that all 12 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 the following 12 nodes are present:
   ▦ ctaddlanguages
   ▦ ctcconfig
   ▦ ctcconfig_ContentTypes
   ▦ ctcconfig_InitFields
   ▦ ctcstatus
   ▦ fields4trans
   ▦ lspkeys
   ▦ PageOptions
   ▦ sidekickUI
   ▦ teamprofiles
   ▦ TransOptions
   ▦ UI_ShowOptions

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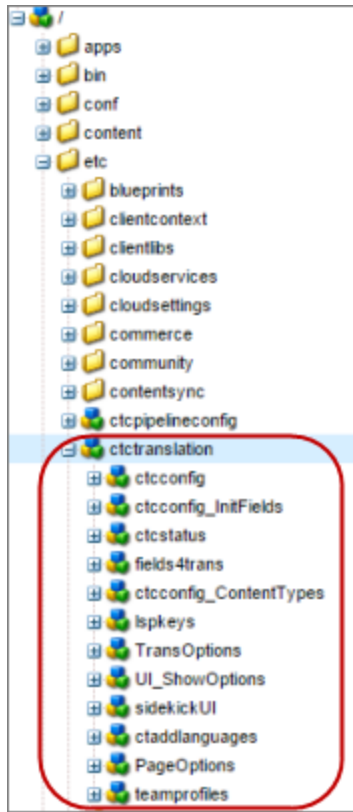
## 5.4  Verifying that All Connector Nodes are Active

After verifying that all Connector nodes are installed, you access the Apache Felix Web Console to verify that to verify that all 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 Connector nodes running:

| Connector Node | AEM 5.6.1 | AEM 6.0 | AEM 6.1 |
|---|---|---|---|
| [com.claytablet.cq5.ctctranslation.service.CTCAuthService] | ✓ | ✓ | ✓ |
| [com.claytablet.cq5.ctctranslation.service.CTCConfigService] | ✓ | ✓ | ✓ |

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| Connector Node | AEM 5.6.1 | AEM 6.0 | AEM 6.1 |
|---|---|---|---|
| [com.claytablet.cq5.ctctranslation.service.CTCDataService] | ✔ | ✔ | ✔ |
| [com.claytablet.cq5.ctctranslation.service.CTCEventService] | ✔ | ✔ | ✔ |
| [com.claytablet.cq5.ctctranslation.service.CTCJDBCPoolService], java.lang.Runnable | ✔ | ✔ | ✔ |
| [com.claytablet.cq5.ctctranslation.service.CTCPageService] | ✔ | ✔ | ✔ |
| [com.claytablet.cq5.ctctranslation.service.CTCPipeProcessService] | ✔ | ✔ | ✔ |
| [com.claytablet.cq5.ctctranslation.service.CTLogService], java.lang.Runnable | ✔ | ✔ | ✔ |
| [com.claytablet.testemail.HelloService] | ✔ | | |
| [com.claytablet.cq61.ctctranslation.CTCTranslationJobManager] | | | ✔ |



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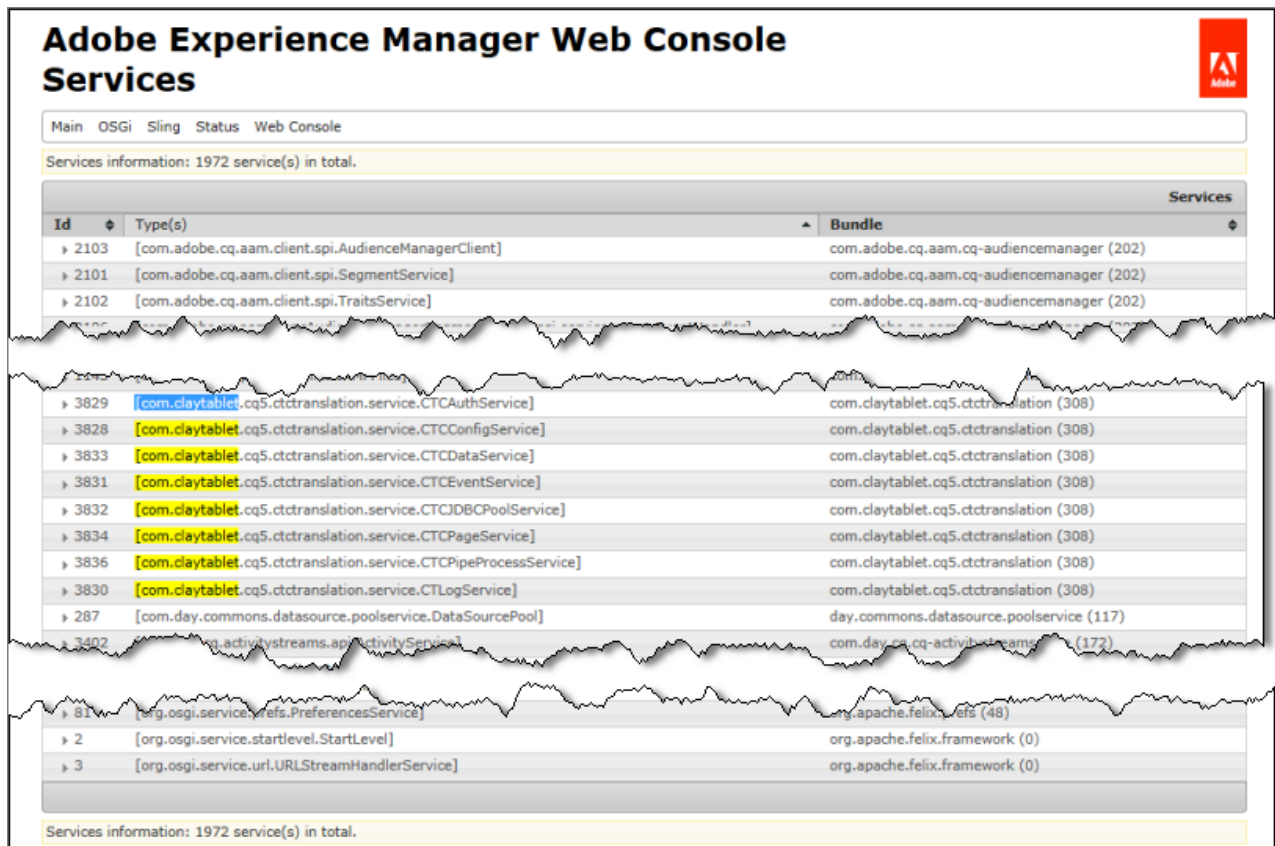
## 5.5 Configuring Network Settings for a Firewall

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 |
|---|---|---|---|
| HTTPS | Port 443 | For secure access to the Clay Tablet License Server (default) | https://license.clay-tablet.net |
| 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 |
| HTTPS | Port 443 | For secure access to Amazon's AWS SQS service | https://queue.amazonaws.com |

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# 6 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 or higher, click **Tools > 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.

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**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 37.

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 37 |
| 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 67 |
| 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 71 |
| 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 77 |
| Search Agents | Configure search agents to collect pages for translation in the Bulk Translation wizard. | "Configuring Connector Search Agents" on page 82 |
| 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 84 |

4.  The following configuration steps are optional:

| Configuration | For Details, See... |
|---|---|
| Configure the frequency that the Connector checks for processing, sending, and receiving translations. | "Configuring the Service Components" on page 85 |
| Configure custom content types, using CRXDE Lite. | "Configuring Custom Content Types" on page 86 |

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| Configuration | For Details, See... |
|---|---|
| Configure the rollout feature. | "Configuring the Rollout Feature" on page 87 |
| Configure content collection from Blueprint pages. | "Enabling Content Collection from Blueprint Pages" on page 93 |
| Configure which content the Connector includes in TM (translation memory) updates. | "Configuring the TMX to Include the Original Translation" on page 95 |
| Configure which properties to exclude from translation. | "Excluding Properties from Translation" on page 95 |

## 6.1  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 35.

The configuration options are organized into the following sections:

| Configuration Section | Purpose |
|---|---|
| "CQ Server URL" on page 38 | Specify the base URL that is used to generate a full page review URL. |
| "Network Configuration" on page 39 | Specify the network configuration details for proxy server implementations. |
| "Translation Platform" on page 40 | Configure the Clay Tablet Platform, which receives and routes content between the Connector and translation providers. |
| "JDBC SQL Connection" on page 42 | 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 44 | Configure the Connector data folder and its permissions. **Note:** In general, you configure the Connector data folder immediately after installation. |

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| Configuration Section | Purpose |
|---|---|
| "Translation Setting" on page 45 | Configure translation-specific options. |
| "Mail Server Settings" on page 48 | Specify the email settings for notification emails that the Connector can send. |
| "Log Service" on page 49 | Specify the Connector log settings. |
| "Agent Services" on page 50 | Configure the settings for the `ctcPrepareService` and `ctcUploadService` services. |
| "UI and Default Settings" on page 51 | Specify the default user interface settings that are displayed to users, and configure the Connector to support editing multiple versions of a source page concurrently. |

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**.

### 6.1.1 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.



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| 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. |

## 6.1.2 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. |

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▶ 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.

### 6.1.3 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:<br>■ `AWS Public Platform`: If your company uses the Clay Tablet Platform hosted on AWS (most common installation), select this.<br>■ `On Premise Platform`: If your company uses a Clay Tablet Platform that it hosts and manages, 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. |
| Source Key XML | Relevant only if `On Premise Platform` was selected in **Platform Type**, above. This file contains the CMS address key. |

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| Configuration Option | Description |
|---|---|
| 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.<br><br>**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 14. |
| Freeway Config | |
| Freeway Server | The URL for the Freeway server. |
| Login Name | The login name for the Freeway server. |
| Login Password | The login password for the Freeway server. |
| Test | Click this to test the Freeway login credentials, above. After testing, a message box indicates whether the credentials passed the test. |
| Freeway Analysis Codes | Indicates whether the user is required to specify analysis codes when sending content for translation to Freeway.<br><br>■ **Require Value 1:** If this check box is selected, the user must specify the first analysis code configured for your company (for example, region) when sending content to Freeway.<br>■ **Require Value 2:** If this check box is selected, the user must specify the first analysis code configured for your company (for example, department) when sending content to Freeway.<br>■ **Require Value 3:** If this check box is selected, the user must specify the first analysis code configured for your company (for example, priority) when sending content to Freeway.<br><br>**Warning:** This configuration is required for full integration between the Connector and Freeway. Otherwise, the Connector cannot retrieve and display analysis code options, and the user cannot specify analysis codes for projects submitted to Freeway. However, even without this configuration, the Connector can still send submitted content to Freeway. |

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| Configuration Option | Description |
|---|---|
| Use Analysis Codes as Queue Metadata | Indicates whether to use only Level-2 queue metadata as analysis codes. Select this check box to display the following user interfaces:<br><br>■ The **Options** page of the **Bulk Translation** wizard includes the **Queue Metadata** dropdown list, where users can select the Queue Metadata analysis code for content items.<br><br>■ The **Translation Queue** includes the **Metadata** dropdown list, for filtering content items by the Level-2 queue metadata analysis code. and the **Metadata** column heading, for indicating the analysis code for an item displayed in the Queue.<br><br>■ The **Sidekick** wizard includes the **Queue Metadata** dropdown list, where users can select the Queue Metadata analysis code for content items. |
| Include instructions in content | Indicates whether the Connector sends the content of the **Special Instruction** field to Freeway as content in the XML translation files. |
| Include instructions in metadata | Indicates whether the Connector sends the content of the **Special Instruction** field to Freeway as metadata. |
| Summarize notes in instructions | Indicates whether the Connector merges any notes about individual content files into the instructions it sends to Freeway.<br>**Note:** If you select this check box, you must select either or both of the **Include instructions in content** and **Include instructions in metadata** check boxes. Otherwise, the content will not be delivered to Freeway. |

## 6.1.4 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.

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**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 15.

**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:<br>■ For Microsoft SQL Server, enter:<br>`com.microsoft.sqlserver.jdbc.SQLServerDriver`.<br>■ For MySql, enter: `com.mysql.jdbc.Driver`.<br>■ For Oracle, enter: `oracle.jdbc.driver.OracleDriver`. |
| JDBC Connection URL | Enter the appropriate configuration parameter for your database implementation:<br>■ For Microsoft SQL Server, the URL should look like:<br>`jdbc:sqlserver://192.168.1.66:1433;databaseName=ctctranslation;`.<br>■ For MySQL Server, the URL should look like:<br>`jdbc:mysql://192.168.1.90:3306/ctctranslation?characterEncoding=UTF-8`.<br>■ For Oracle, the URL should look like:<br>`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.

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## 6.1.5 Folder and Permission

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



| Configuration Option | Description |
|---|---|
| [Translation User] CQ5 Group ID | Select the ID of the Adobe CQ group whose members can submit content from the Bulk Translation wizard only to the Translation Queue. The members cannot send out content directly for translation or submit content from Sidekick. |
| [Translation Submit] CQ5 Group ID | Select the ID of the Adobe CQ group whose members can submit translation jobs from the Bulk Translation wizard or Sidekick to the Translation Queue and send out content directly for translation. |
| [Translation Admin] CQ5 Group ID | Select the ID of the Adobe CQ group whose members can send out 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 can approve or reject translation job quotes. |
| Data Folder (Optional) | Optional. 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 16.<br><br>■ For Microsoft Windows, the path must end with \, for example, `c:\ctcdata\`.<br>■ For UNIX, including Linux, or Mac, the path must end with /, for example, `/usr/share/ctcdata/`.<br><br>**Note:** The `files/update` subfolder should have full access permissions for Java processes.<br><br>▸ To verify that this path is correct, click the **Test** button. After testing, a message box indicates whether your configuration passed the test. |

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| Configuration Option | Description |
|---|---|
| Logs | To save the log files in the `logs` sub-folder of the folder specified in the **Data Folder (Optional)** field, select this check box.<br>**Note:** If you do not select this check box, the log files are saved in `crx-quickstart/logs`. |

## 6.1.6 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.<br>**Recommendation:** Enter your company name as the project identifier. |

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| Configuration Option | Description |
|---|---|
| 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.<br><br>**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.<br><br>The default value is `100`, which means the Connector will package content from 100 AEM pages into a single XML file.<br><br>**Recommendation:** Discuss this with your translation provider. |
| 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.<br>If this check box is selected, when users roll out pages, the Connector automatically sends content to the Translation Queue.<br><br>**Note:** Alternatively, you can use the `CTCRolloutTranslation` workflow to enable this functionality. For details, see "Viewing the Rollout Workflow" on page 102. For information about when to use which configuration method, see "Configuring the Rollout Feature" on page 87. |
| 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.<br>■ If this check box is selected, the translated content is stored at a property level in the local TM.<br>■ If this check box is not selected, the translated content is not stored at a property level in the local TM. |

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| Configuration Option | Description |
|---|---|
| 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.<br>■ 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.<br>■ 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.<br>■ 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.<br>■ 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. |
| 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. |

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| Configuration Option | Description |
|---|---|
| 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, Special Edition for use with Lionbridge Freeway*.

### 6.1.7 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 45.

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| Configuration Option | Description |
|---|---|
| Use AEM Mail Service | You can use either Day CQ Mail Service's email notification settings or the Connector's own settings to send email notifications from the Connector.<br><br>■ To configure the Connector to use Day CQ Mail Service's email notification settings, select this check box, and leave the remaining settings in this section blank. For instructions on configuring Day CQ Mail Service's email notification, refer to https://docs.adobe.com/docs/en/aem/6-1/administer/operations/notification.html#Configuring.<br><br>**Note:** The Connector uses only the Day CQ Mail Service. The other settings described on the AEM page are not relevant.<br><br>■ To configure the Connector to use its own email notification settings, clear this check box, and populate the rest of the settings in this section, as described below. |
| **Note:** The following settings are relevant only if the **Use AEM Mail Service** check box, described above, is cleared. |
| SMTP Host | The IP address 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 log in 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.

## 6.1.8 Log Service

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

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| Configuration Option | Description |
| --- | --- |
| Log Level | There are three levels of logging: `Info`, `Debug`, and `Trace`.<br><br>**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 `Info`, so that only warnings and errors are logged. |
| Log Archive (Days) | By default, the Connector maintains 15 days of logs. |

### 6.1.9 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.<br><br>**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. |

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## 6.1.10  Encryption Keystore (Lionbridge Freeway and 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 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.

## 6.1.11  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.

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| 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 57.

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| 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:<br>■ Use Local TM<br>■ Target pages have content in source language<br>■ Only translate content from locked components<br>■ Unlock the component after translated content come back<br>■ Allow translate content from Not-Sync components<br>These options are described below. |
| Use user session in page search | This setting determines whether the Connector uses AEM's built-in permission settings so that a user can access only part of the content repository.<br>■ To use AEM's built-in permission settings, select this check box.<br>■ To ignore AEM's built-in permission settings, clear this check box (default value). By default, a user can access all content.<br>**Tip:** You can also limit a user's access by using team profiles. For details, see "Configuring Team Profiles" on page 84. |
| Pause job before sending | This setting determines whether the Connector automatically pauses a job before sending it out for translation, after `Preparing` status (`0%`) but before `Sending` status (`1%`). This is useful if you want to review or export reports of content items before sending them out for translation. You can resume a paused job in the **Translation Status** page.<br>■ To configure the Connector to automatically pause jobs before sending them out, select this check box.<br>■ To prevent the Connector from automatically pausing jobs before sending them out, clear this check box (default value). |
| Only Translation Admin can pause jobs | This setting determines who can use the pause button in the **Translation Status** page. You can pause a job before sending it out for translation, after `Preparing` status (`0%`) but before `Sending` status (`1%`). This is useful if you want to review or export reports about XML files with content items before sending them out for translation.<br>■ To display the pause button only for users assigned to the `Translation Admin` group, select this check box.<br>■ To display the pause button for all users, select this check box (default value).s |
| Disable default AEM language mapping (6.1+) | This setting disable AEM's default language mapping feature in AEM 6.1 and higher. It is relevant only when using AEM versions 6.1 and higher. In other versions of AEM, it is ignored.<br>■ To disable AEM's default language mapping, select this check box.<br>■ To enable AEM's default language mapping, select this check box (default value). |

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| Configuration Option | Description |
|---|---|
| **Translation Default Settings** | This 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: <br> ■ If a check box is selected, then the default value of this option is selected. <br> ■ If a check box is cleared, then the default value of this option is cleared. <br><br> 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 65. <br><br> **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. <br> ■ If this check box is selected, the Connector checks whether content was already translated before sending it out for translation. <br> ■ If this check box is cleared, the Connector sends out content for translation without checking whether it has already been translated. |
| 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. <br><br> 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. <br> ■ If this check box is selected, the Connector *does not* overwrite unique source content that already exists in the target pages. <br> ■ If this check box is cleared, the Connector *does* overwrite unique source content that already exists in the target pages. <br> **Recommendation:** Select this check box if you are using the live-copy feature. |

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| Configuration Option | Description |
|---|---|
| Only translate content from locked components | This option enables users to send out only content from locked components for translation.<br>■ If this check box is selected, users can send out content for translation only if it is from a locked component.<br>■ If this check box is cleared, users can send out content for translation whether or not it is from a locked component.<br><br>**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.<br><br>**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 51. |
| 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.<br><br>**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 103.<br>■ If this check box is selected, the Connector automatically unlocks a component after translated content returns.<br>■ If this check box is cleared, the Connector does not automatically unlock a component after translated content returns. |

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| Configuration Option | Description |
|---|---|
| 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. <br> ▪ If this  check box is selected, users *can* send out content for translation if it does not have a relationship to a Blueprint page. <br> ▪ If this  check box is cleared, users *cannot* send out content for translation if it does not have a relationship to a Blueprint page. <br> **Important:** The Connector treats certain page properties (`jcr:content`, `jcr:title`, `jcr:description`) as *unlocked* page properties. Therefore, if you want the Connector to send these page properties for translation, you must select this check box. <br> **Recommendation:** Select this check box if you are using either the live-copy or the language-copy features. <br> **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 93. |
| **Target Page Revisioning** | This sub-section specifies the settings for the Target Page Revisioning feature. By default, this feature is not enabled. You use this feature to configure the Connector to support editing multiple versions of a source page concurrently. This is useful in scenarios where your publishing cycle is shorter than your translation cycle, because you can retain and publish a previous version of the translated content while the current version of the source content is out for translation. For information on page revisioning in AEM, refer to the AEM documentation at: https://docs.adobe.com/docs/en/aem/6-0/author/page-authoring/working-with-page-versions.html. <br> **Important:** This feature is relevant and available only when updating existing content, that is, when the target page already exists. If you are creating a new language copy, the Connector does not create a revision, because there is no pre-existing target content. <br> **Recommendation:** If you use this feature, an administrator should occasionally purge the version history to reduce the repository size. For more information, refer to the AEM documentation at https://docs.adobe.com/docs/en/cq/5-6-1/deploying/version_purging.html#Purging%20Versions%20of%20a%20Web%20Site. |

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| Configuration Option | Description |
|---|---|
| Use Revisioning | Selecting this check box enables the Target Page Revisioning feature, described above.<br>■ When this check box is cleared, the Connector ignores the values of the **Remove Revisions on Completion** and **Restore Target Pages while under Translation** check boxes, described below.<br>■ When this check box is selected, the Connector creates the following revisions of the target page during the translation process, and the job name is part of the revision name:<br>　▦ `Before <job name>`: The Connector creates this revision before modifying the page to send it out for translation. This is the original target content.<br>　▦ `During <job name>`: The Connector creates this revision after it sends out the job for translation. This is the source content for translation that the Connector copied to the target, to send out for translation.<br>　▦ `Completed <job name>`: The Connector creates this revision after the translated content returns from translation and the Connector imports it into AEM. This is the target page that has been updated with translated content.<br>**Note:** The page revision name is visible only in AEM's Classic UI. In AEM's Touch-Optimized UI, the revision is displayed without a name. |
| Remove Revisions on Completion | If you select this check box, then after the Connector imports the translated content into AEM, it removes the `Before <job name>` and `During <job name>` revisions, described above. The Connector does not remove the `Completed <job name>` revision, because this is the target page that has been updated with translated content.<br>**Note:** Relevant only if the **Use Revisioning** check box, described above, is selected. Otherwise, the Connector ignores this setting. |
| Restore Target Pages while under Translation | If you select this check box, then as soon as the Connector sends out content for translation, it restores the `Before <job name>` revision of the page. This revision contains the previously translated version of the page. If you do not select this check box, then the updated source content that has been sent out for translation is the current target content, which is the default Connector behavior.<br>**Important:** Relevant only if the **Use Revisioning** check box, described above, is selected. Otherwise, the Connector ignores this setting. |

### 6.1.11.1 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 51.

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| Translation on Sidekick Value | Where User Can Submit Content | User Interface | Advanced Translation Options Available |
|---|---|---|---|
| Simple UI | Translation Queue only | dialog box | |
| Simple UI with all options | Translation Queue only | dialog box | ✓ |
| Wizard | Translation Queue or directly to translation | two-page wizard | |
| Wizard with all options | Translation Queue or directly to translation | two-page wizard | ✓ |

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, Special Edition for use with Lionbridge Freeway*.

### Simple UI

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

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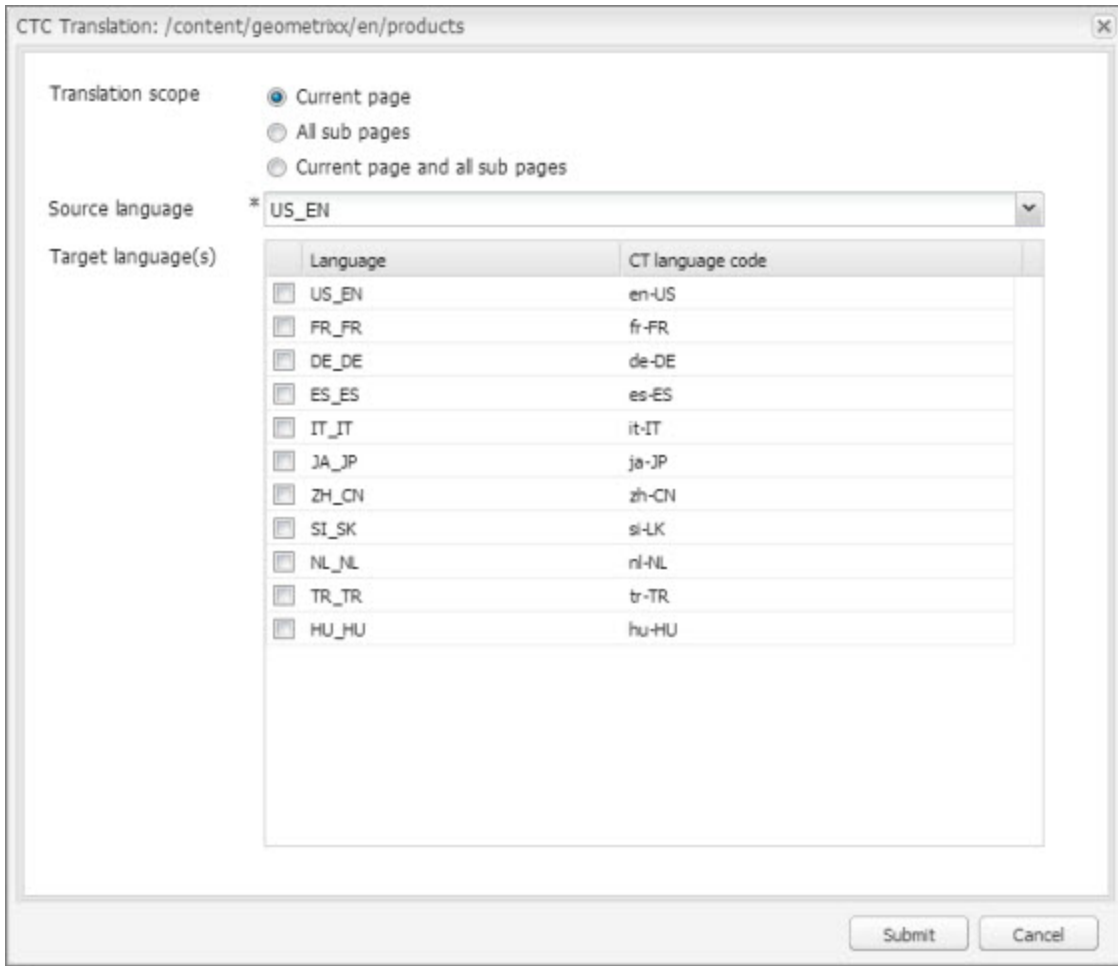
## Simple UI with options

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

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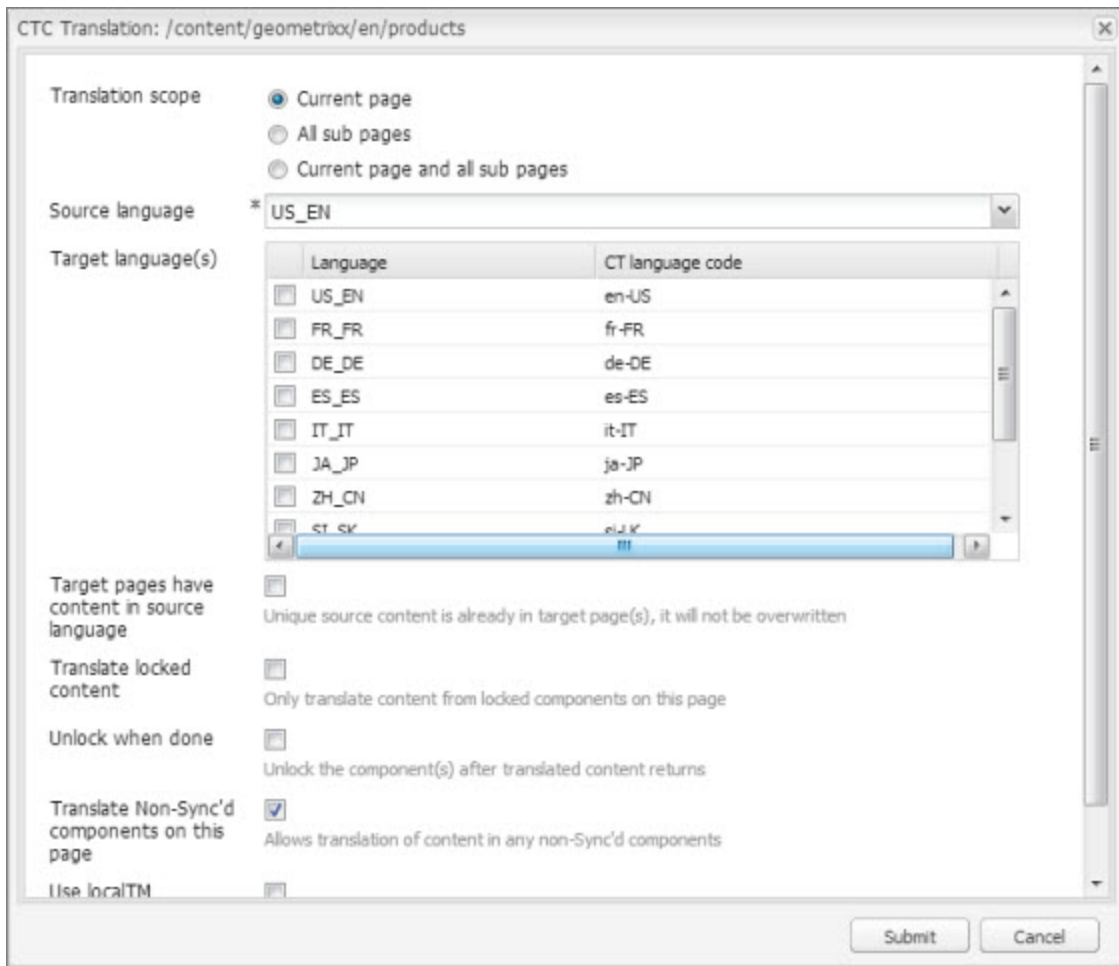
## Wizard

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.

**Note:** You can configure whether by default the wizard sends content to the **Translation Queue** or directly out for translation. For details, see "Configuring the default value of the Submit Translation dropdown list in the Sidekick wizard" on page 65.

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Translate Content: /content/geometrixx/en/services                                                     ☒

| | |
|---|---|
| Source Language | EN_US |
| Target Language(1) | DE_DE |
| Deadline | |

| | Page path | Status |
|---|---|---|
| ☑ | /content/geometrixx/en/services | |

| | |
|---|---|
| Queue Metadata | ⌄ |
| Submit Translation | * Add to queue ⌄ |

If you want to 'send as a new job', please fill in sections below …

🔍

| | |
|---|---|
| Reference Files | |
| Job Name | |
| Job Description | |
| Notification Emails | |
| In-country Reviewer | |
| Content Type | * Technical ⌄ |
| Choose LSP | ⌄ |

If you select a Freeway based LSP, please fill in Freeway related sections below …

| | |
|---|---|
| Freeway Project Name | |
| Freeway PO Reference | |
| Special Instruction | |

Freeway Analysis Codes …

| | |
|---|---|
| Region | ⌄ |
| Department | ⌄ |
| Priority | ⌄ |

Back    Submit    Cancel

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## 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.

**Note:** You can configure whether by default the wizard sends content to the **Translation Queue** or directly out for translation. For details, see "Configuring the default value of the Submit Translation dropdown list in the Sidekick wizard" on page 65.



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Translate Content: /content/geometrixx/en/services                                    ☒

| Source Language | EN_US |
| Target Language(1) | DE_DE |

Deadline

| | Page path | Status |
|---|---|---|
| ☑ | /content/geometrixx/en/services | |

Queue Metadata

Submit Translation    * Add to queue

If you want to 'send as a new job', please fill in sections below ...

Reference Files

Job Name

Job Description

Notification Emails

In-country Reviewer

Content Type    * Technical

Choose LSP

If you select a Freeway based LSP, please fill in Freeway related sections below ...

Freeway Project Name

Freeway PO Reference

Special Instruction

Freeway Analysis Codes ...

Region

Department

Priority

Back    Submit    Cancel

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### Configuring the default value of the Submit Translation dropdown list in the Sidekick wizard

You can now configure the default value of the **Submit Translation** dropdown list in the Sidekick wizard.

- To change the default from `Add to queue` to `Send as a new job`:
  a. In CRX, edit the `/etc/ctctranslation/sidekickUI` node.
  b. Add a new property named `skOptionDefaultSubmitType`, of type `String`, with value `job`.
  c. Save all.
  d. On the page with Sidekick, press `Ctrl` and `F5` to delete the client-side cache.

  The default is now `Send as a new job`.

- To hide the `Add to queue` value:
  a. In CRX, edit the `/etc/ctctranslation/sidekickUI` node.
  b. Add a new property named `skOptionHideSubmitType`, of type `String`, with value `queue`, which is a multi-value property.
  c. Save all.
  d. On the page with Sidekick, press `Ctrl` and `F5` to delete the client-side cache.

  The `Add to queue` option is no longer displayed.

## 6.1.11.2 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, and how to configure and use the Connector accordingly:

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| 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.<br>**Important:** If you use this feature, you must select the **Allow translate content from Not-Sync components** and **Target pages have content in source language** options. |
| 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)

**Important:** For instructions on configuring the Rollout feature, see page 87.

## 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.<br>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. |

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## 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

## 6.2  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.

**Note about i18n dictionary items:** If you plan to send i18n dictionary items for translation, you must configure the languages for these items separately, as described in the AEM documentation, here: http://docs.adobe.com/docs/en/aem/6-0/develop/components/i18n/translator.html. In addition, the i18n dictionaries language codes may be different from the language codes used in pages. For details, see: http://docs.adobe.com/docs/en/aem/6-0/develop/components/i18n/translator.html#Changing%20Languages%20Listed%20in%20the%20Dictionary%20Table.

**Note about AEM 6.1 built-in languages:** In AEM 6.1, the Connector provides default language mapping for AEM 6.1 built-in languages. Additional setup is not required, and therefore, these languages are not available for further configuration, as shown below. However, you can add additional language mappings, as described in this section.

| Name | Reference CRX Path | Type | CTC Language | Sort # | |
|---|---|---|---|---|---|
| ar | ar | Language | Arabic_UAE | 1 | Del |
| ar_ae | ar_ae | Country + Language | Arabic_UAE | 2 | Del |
| ar_bh | ar_bh | Country + Language | Arabic_Bahrain | 3 | Del |
| ar_dz | ar_dz | Country + Language | Arabic_Algeria | 4 | Del |
| ar_eg | ar_eg | Country + Language | Arabic_Egypt | 5 | Del |
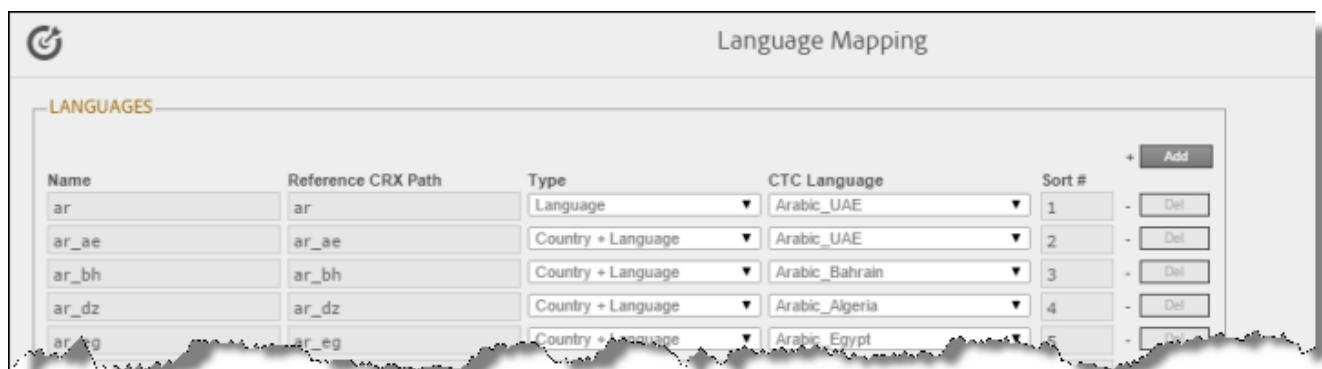
**Important:** Do not change the name of a language or delete a language if there is translation content in the Translation Queue, or if there are translation jobs in progress.

To configure languages for the Connector:

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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 35.
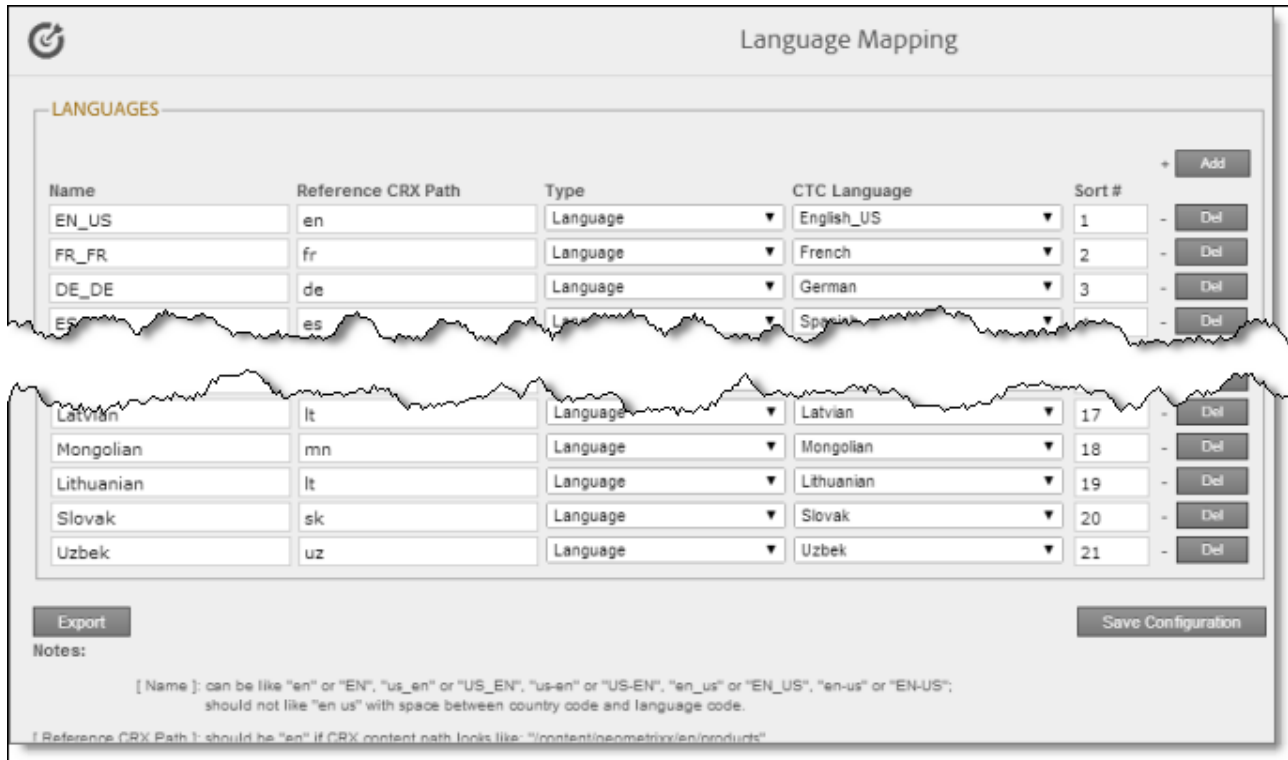


2. Click **Add** in the top-right corner of the page to add a new language.

   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.<br>**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.<br>◼ If the CRX content path is similar to `/content/geometrixx/en/products`, this should be similar to `en`.<br>◼ If the CRX content path is similar to `/content/geometrixx/us/en/products`, this should be similar to `us/en`. | ca/fr |

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| Column | Description | Example |
|---|---|---|
| Type | The type of language identifier. Select one of the following:<br>■ `Country`<br>■ `Language`<br>■ `Country + Language` | Country + Language |
| CTC Language | The corresponding Clay Tablet language code. Select it from the list. For a list and description of Clay Tablet language codes, see "Appendix: Language Codes" on page 127. | French_Canada |
| 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 84.

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.

## 6.2.1 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. For a list and description of Clay Tablet language codes, see "Appendix: Language Codes" on page 127.

1. To add a custom language, do one of the following:

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    ▦  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.
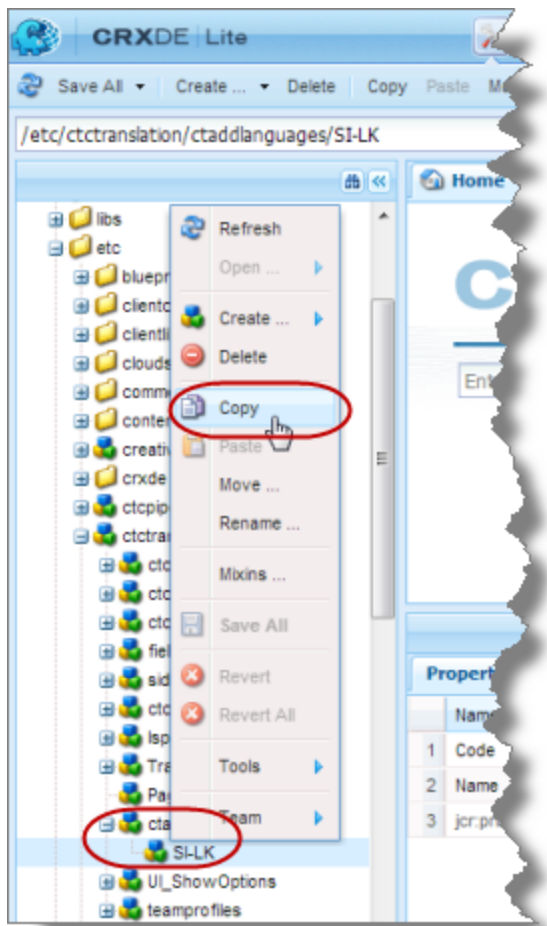


4.  Rename the new node, and change the values of the **Code** and **Name** properties.

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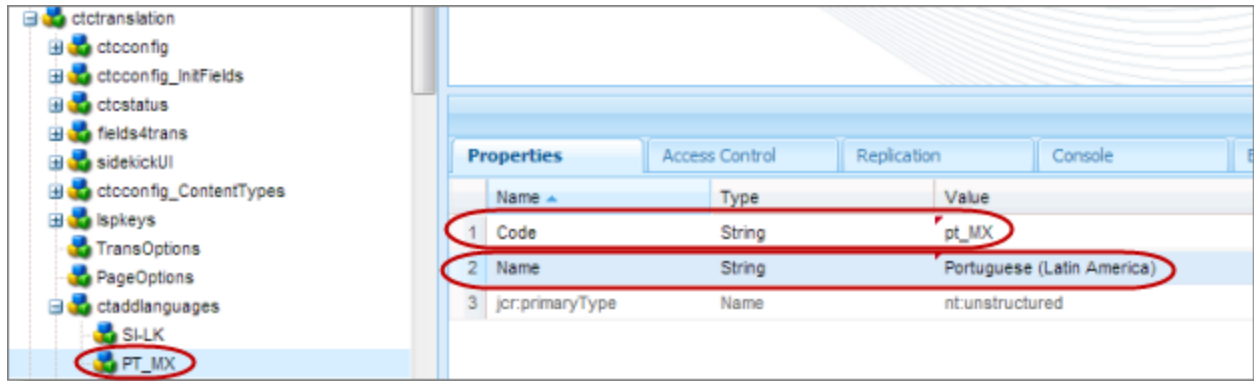
5. In the CRXDE Lite Menu, click **Save All**.

The new language code is now available for selection in the **Language Mapping** page, which is described on "Configuring Connector Languages" on page 67.
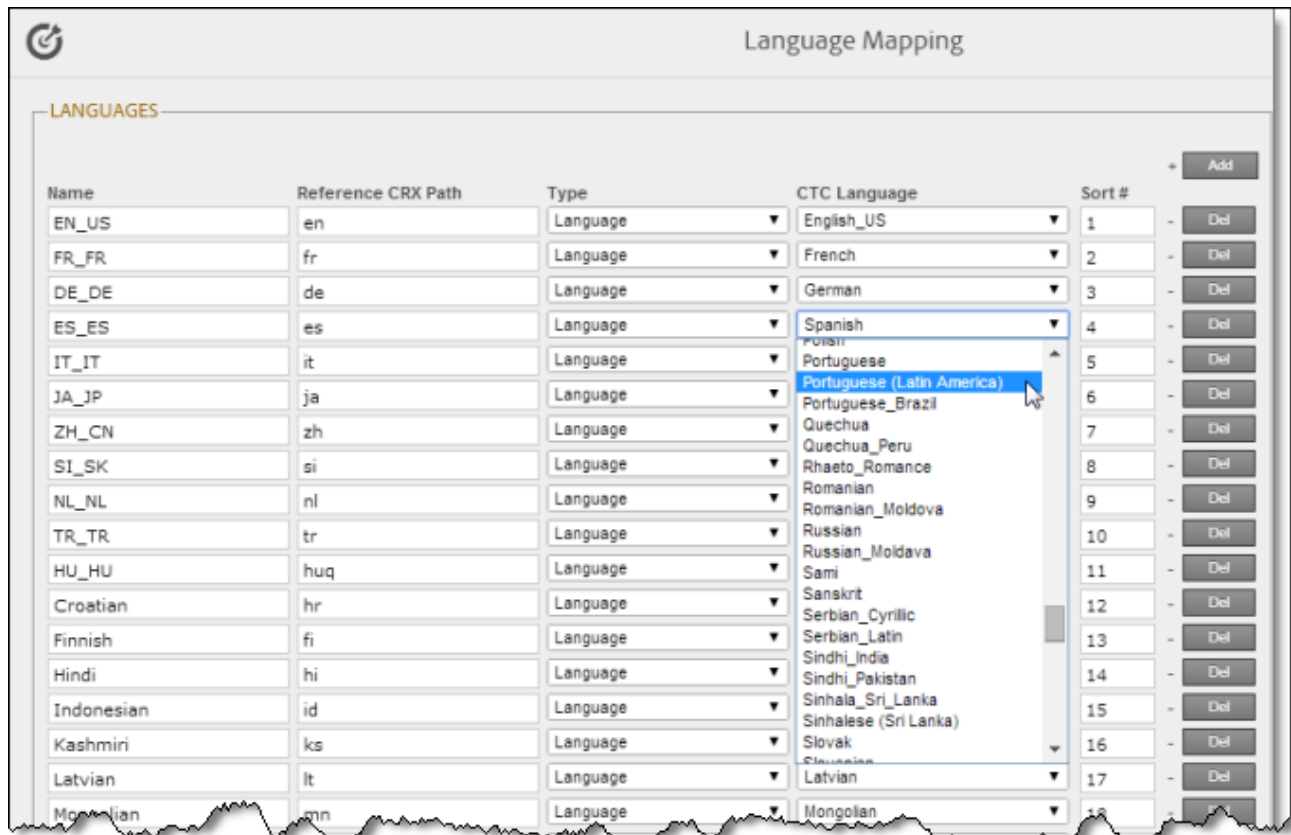


## 6.3  Configuring which Components and Properties to Send Out for Translation

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

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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 35.

   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 75.



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.
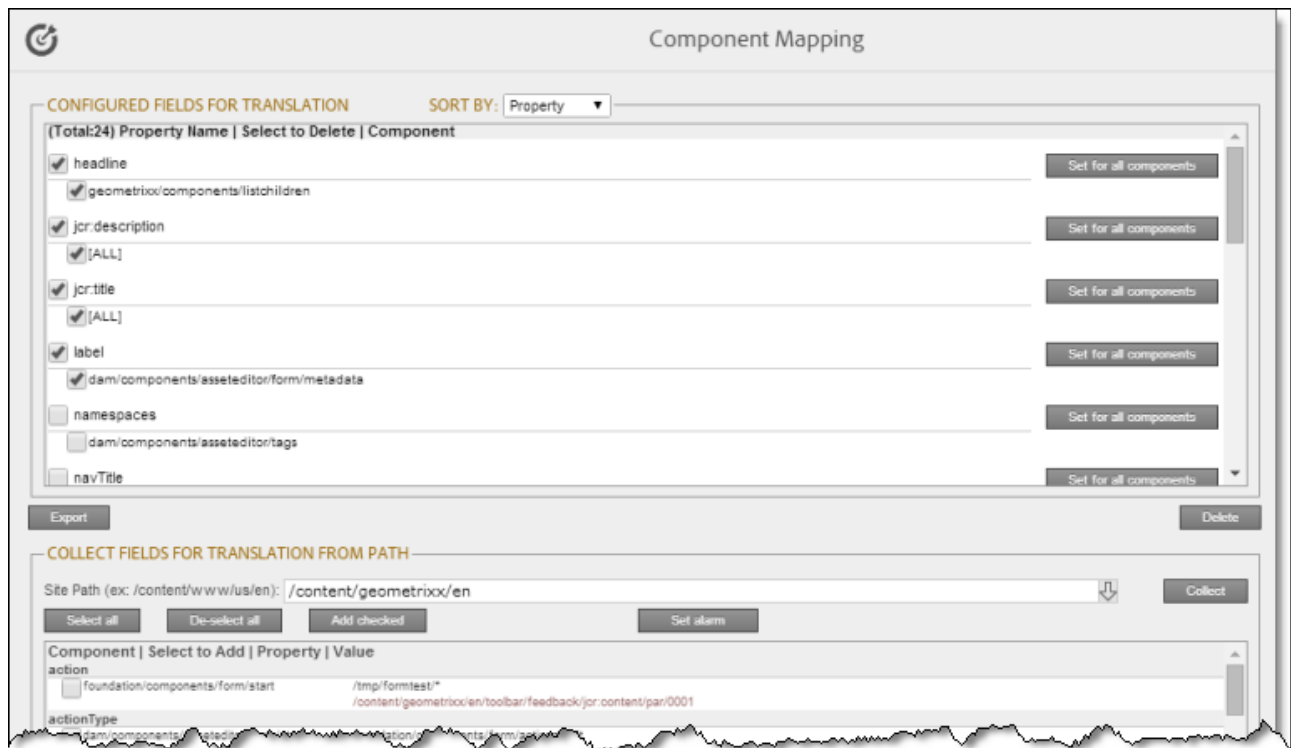
   ▦ To view the list organized by component, in the **Sort By** field, select `Component`.

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.

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&#9638;&#9638;&#9638;  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.

&#9642;&#9642;&#9642;  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.

&#9642;&#9642;&#9642;  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.

&#9638;&#9638;&#9638;  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].

&#9642;&#9642;&#9642;  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**.

&#9642;&#9642;&#9642;  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, fields4trans.xml.

5.  Optional. You can import an XML or a CSV file:

&#9638;&#9638;&#9638;  You can import a previously exported XML file that is in the same format as fields4trans.xml, described above. This is useful for restoring backed-up properties.

&#9638;&#9638;&#9638;  You can import a CSV file with comma-separated property names. The Connector will add the properties in this file to all components.

To import a file:

a.  Click **Import** at the bottom of this section.

The **Select a file to upload** dialog box opens.
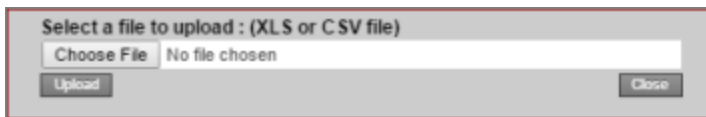


b.  Click **Choose File**.

c.  In the browser dialog box that opens, navigate to the XLS or CSV file to import, select it, and click **Open**, or similar, to close the browser dialog box.

The **Select a file to upload** dialog box displays the path of the file you selected.

d.  Click **Upload** to upload the file.

The Connector imports the file and updates the configured properties and components.

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6.  Optional. In the **Collect Fields for Translation from Path** section, you can add additional properties to the
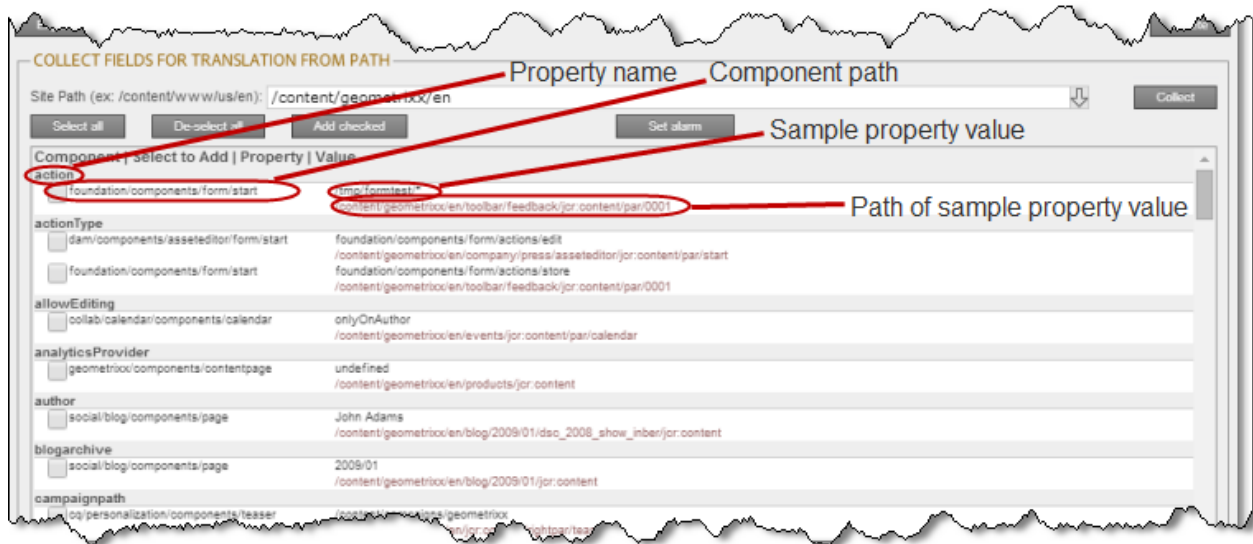     list that the Connector can send out for translation.

   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 75.

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## 6.4 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 or when previously deleted components are added back. In these scenarios, 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 35.

   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 71.
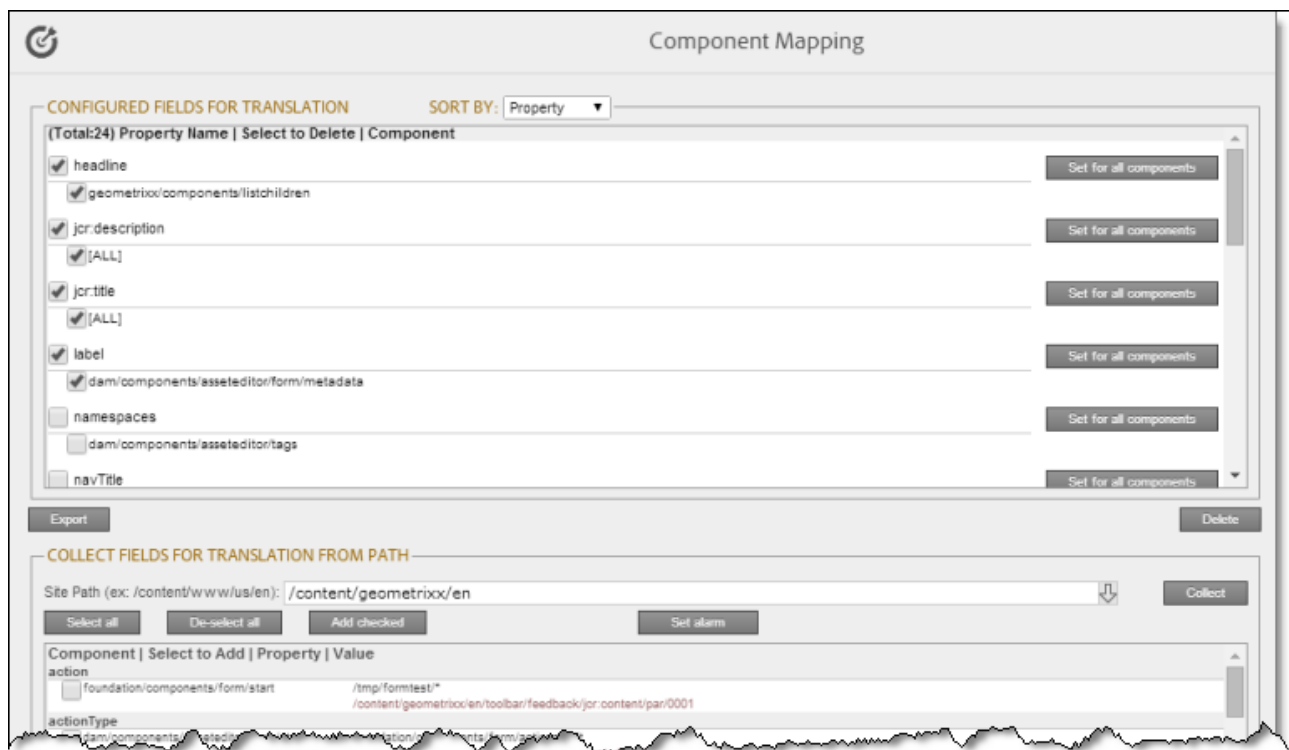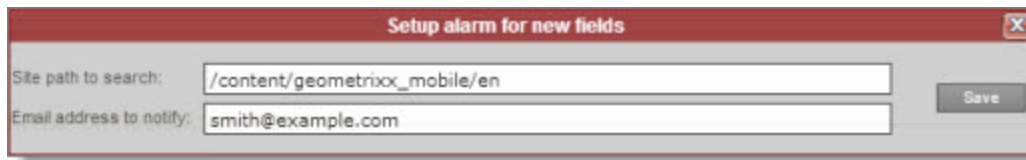


2. Click **Set alarm**.

   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.

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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.

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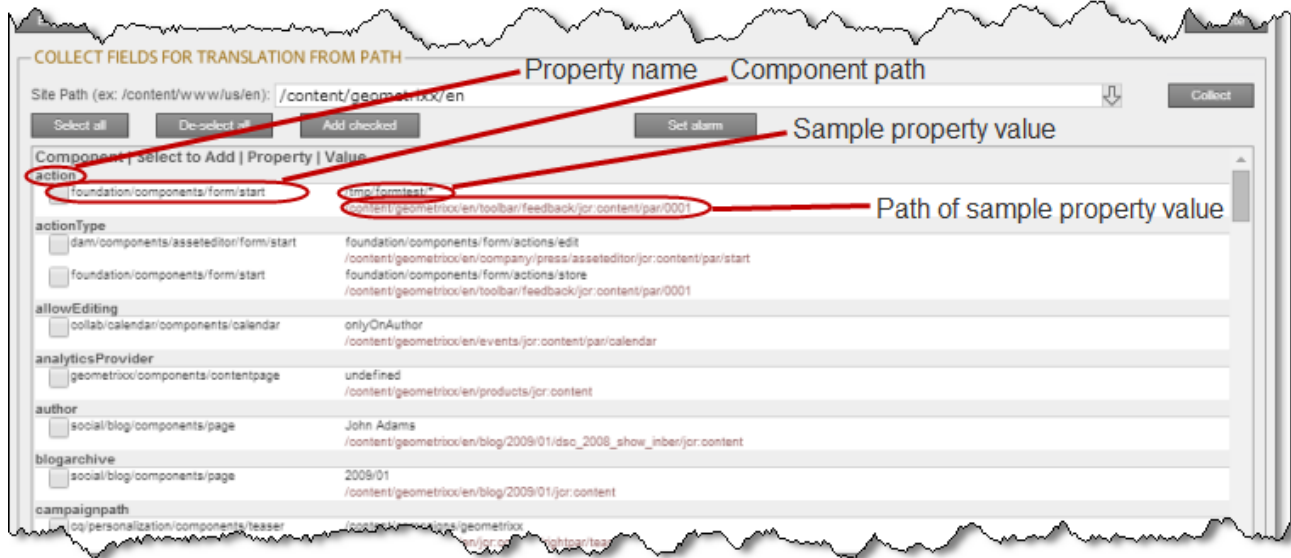
7.  Select the check boxes for the properties to add, and click **Add checked**.

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

## 6.5 Configuring Translation Providers and the CMS Address and Platform Keys

The Connector uses the license ID number you entered in "Translation Platform" on page 40 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.

### To configure the translation providers and keys:

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 35.

    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.

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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 40. If keys are

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still not displayed, you may need to configure a proxy server, as described in "Network Configuration" on page 39.

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.

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9.   In the **Is Freeway** box, if this translation provider is Freeway/Lionbridge, select `Yes`. Otherwise, select `No`.

10.  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.

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.

### 6.5.1  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 10.

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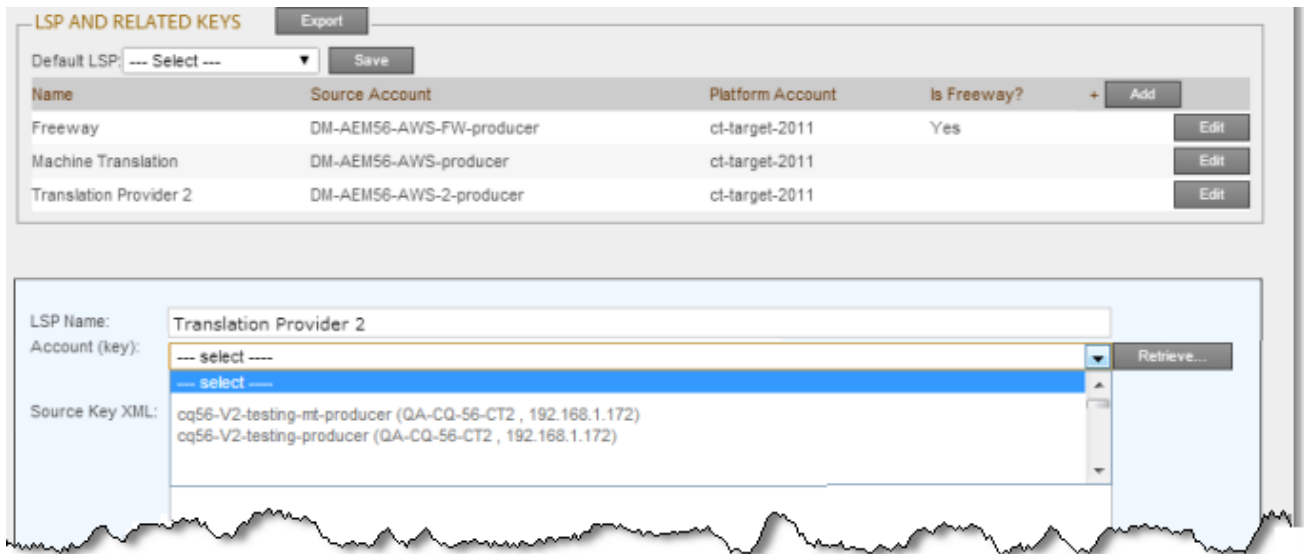
## 6.6 Configuring Content Encryption and Decryption (Lionbridge Freeway only)

You can 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 Lionbridge Freeway ("Connector for Freeway").

### 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 Freeway.

3. The Connector for Freeway delivers encrypted content to Freeway.

### After translation:

1. The Connector for Freeway sends the encrypted content via the Clay Tablet Platform to the Connector for AEM.

2. The Connector for AEM uses the generated keys to decrypt the content before sending it to AEM.

### To configure this option:

▸ Contact your Lionbridge Freeway account manager to arrange sending your keystore to the Connector for Freeway. This enables Lionbridge to decrypt content after delivery to Freeway and encrypt content before delivering translated content.

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## 6.7 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 pre-configured agents:

- Page agents:
  - Get current page
  - Get all children pages
  - Get current page and all children pages
- Tag agent: Get current and child tags
- i18n-dictionary agent: Get i18n

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 10.

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 35.

   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.

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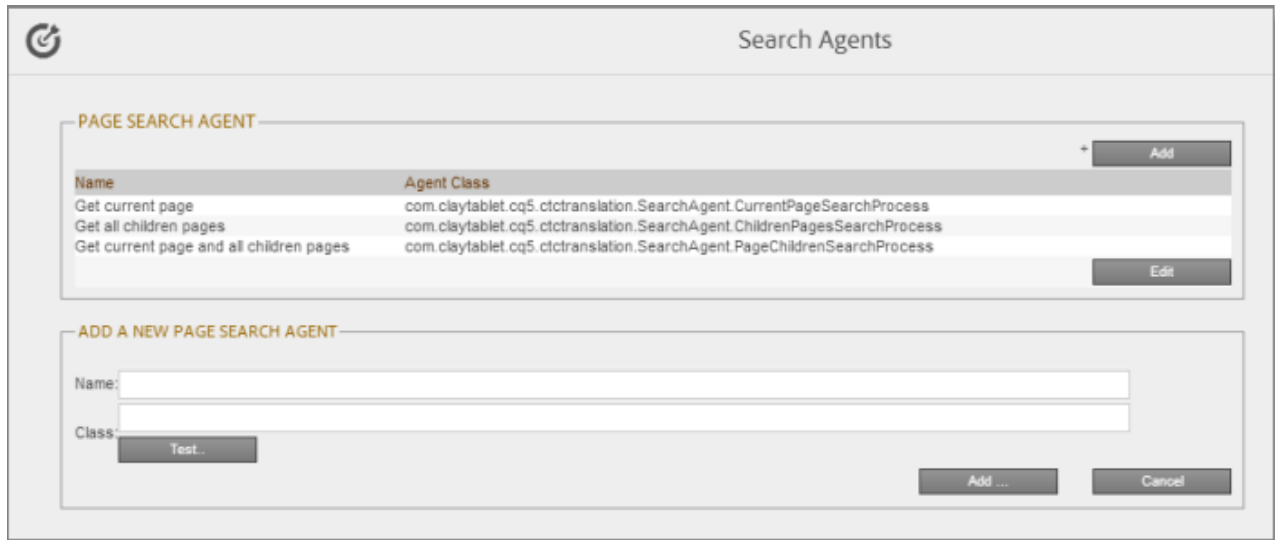
5. In the **Add a New Page Search Agent section**, add the following information:

 ⠿ **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.

## 6.8 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:

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| User Group | Bulk Translation | Sidekick | Blueprint Rollout |
|---|---|---|---|
| Translation User | Users can send content only to the Translation Queue. The required user permissions are `Read`, `Modify`, `Create`, and `Delete`. | Users can send content only to the Translation Queue. The required user permissions are: `Read`, `Modify`, `Create`, and `Delete`. | Users can send content only to the Translation Queue. The required user permissions are: `Read`, `Modify`, `Create`, and `Delete`. |
| Translation Submitter | Users can send content either to the Translation Queue or directly out for translation. The required user permission is `Read`. | Users can send content either to the Translation Queue or directly out for translation. The required user permissions are: `Read`, `Modify`, `Create`, and `Delete`. | |
| Translation Admin | | | |

## 6.9 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 .

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

2. Click **Add**.

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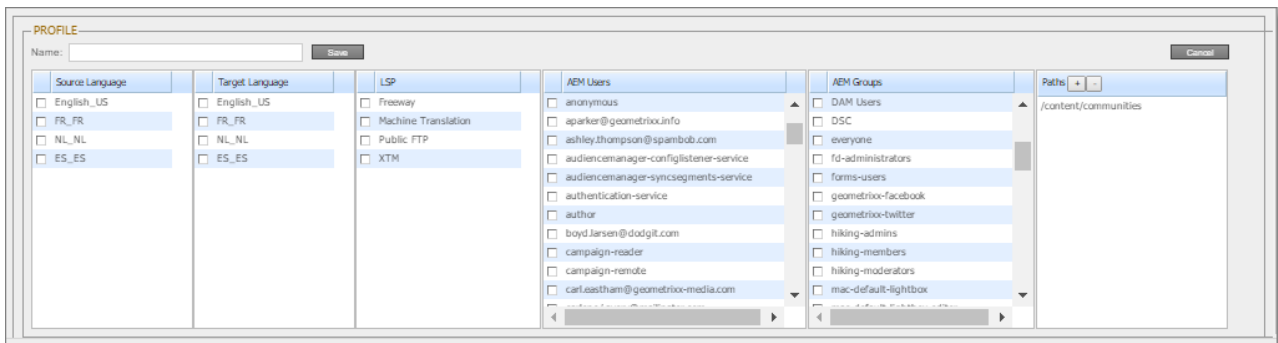


3. Specify the following information about the team profile:

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| 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 67. |
| 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 67. |
| 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 77. |
| 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. |
| Paths | You can specify paths for content that only team members can access.<br>■ To add a path, click the plus icon ⊞ and navigate to the path, and then click **Select**.<br>■ To remove a path, select it and then click the minus icon ⊟. |

4. Click **Save**.

## 6.10  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.
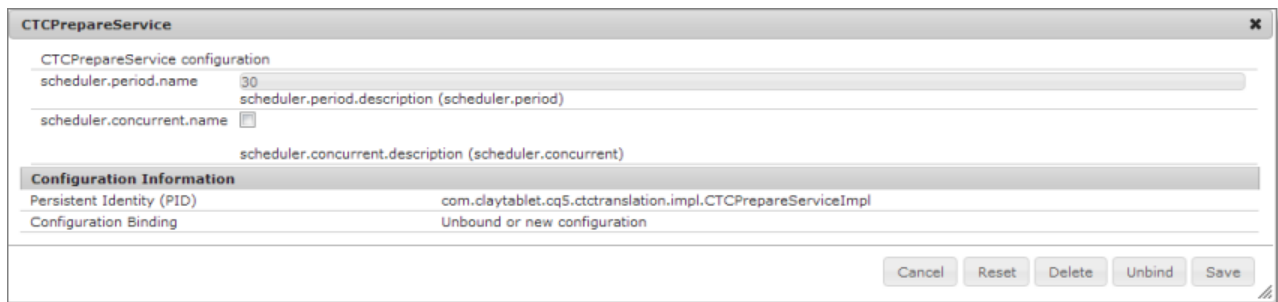
To configure these agents:

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.

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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 ![icon] .

   The configuration dialog box for the service opens.

| CTCPrepareService | ✖ |
|---|---|
| CTCPrepareService configuration | |
| scheduler.period.name | 30 |
| | scheduler.period.description (scheduler.period) |
| scheduler.concurrent.name ☐ | |
| | scheduler.concurrent.description (scheduler.concurrent) |
| **Configuration Information** | |
| Persistent Identity (PID) | com.claytablet.cq5.ctctranslation.impl.CTCPrepareServiceImpl |
| Configuration Binding | Unbound or new configuration |
| | Cancel  Reset  Delete  Unbind  Save |

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.

## 6.11 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:

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- 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 10.

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`.
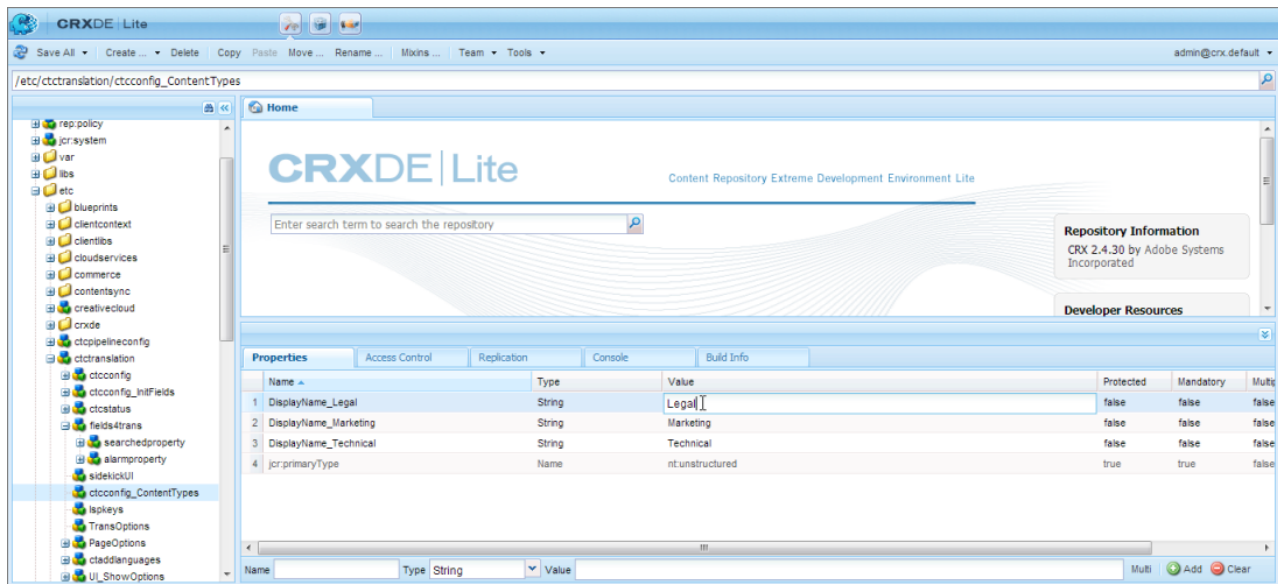


3.  In the **Properties** tab in the **Home** tab, double-click in the **Value** column of the content-type label to change, and type the new label.

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


## 6.12  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:

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- ■ 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.

**Important information for AEM 6.1 users:** AEM 6.1 has language-mappings that are included by default and that cannot be removed. If you are using AEM 6.1, then when you roll out pages, the Connector automatically sends *all* configured languages, including these defaults, to the Translation Queue. You can configure the Connector to send *only* configured languages to the Translation Queue. For more information and detailed instructions, see "Configuring Default Language-Mapping Settings for the Rollout Feature (AEM 6.1 only)" on page 92.

### 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 45.

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 89 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 45.

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 102.

3. When creating a Livecopy site, select the rollout config you created.

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**Update the `CTCRolloutTranslation` workflow**

**Important:** These steps are required only for a Connector installation updated from a version before 2.3.0, and 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,
   ```

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```
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`



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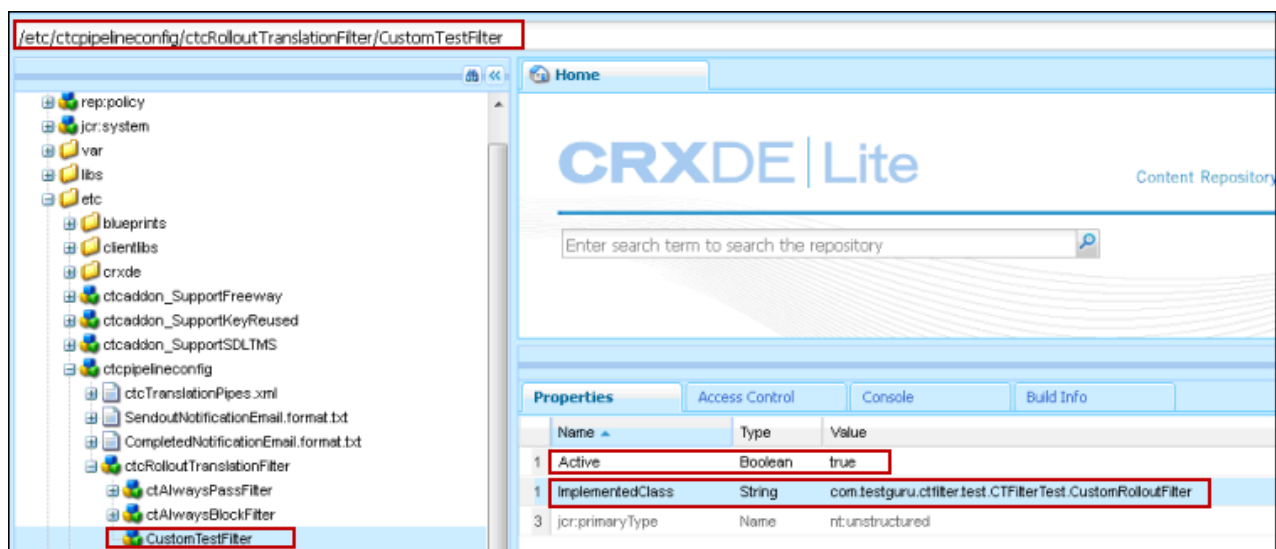
## Clay Tablet interface sample code

**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 and the Freeway Add-On" on page 27.

```java
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 " +
```

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```
                    "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.
    }
}
```

## 6.12.1 Configuring Default Language-Mapping Settings for the Rollout Feature (AEM 6.1 only)

AEM 6.1 has language-mappings that are included by default and that cannot be removed. If the Connector is configured to send content to the Translation Queue when you roll out files, then it sends content to the queue for these default languages. You can configure the Connector so that it sends only content for *configured* languages to the queue.

### To configure this 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`.

3.  If the `debug` node does not exist, then create it.

    a.  Select the `ctctranslation` node.

    b.  Select **Create > Create Node** from the context menu.

       The **Create Node** dialog box opens.

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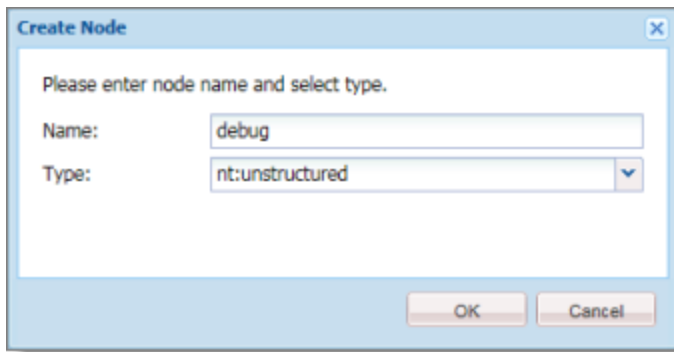
c. In the **Name** field, enter `debug`.

d. In the **Type** dropdown list, select `nt:structured`.

e. Click **OK**.

4. Right-click the `/etc/ctctranslation` node, and select **Refresh** from the context menu.

5. Create the `AEM61DefaultLanguageMapping` property in the `debug` node you just created.

a. Locate and select the `debug` node you just created.

b. In the **Name** field in the bottom of the right pane, enter `AEM61DefaultLanguageMapping`.

c. In the **Type** dropdown list in the bottom of the right pane, accept the default of `String`.

d. In the **Value** field in the bottom of the right pane, enter `disabled`.

e. Click **Add** 🟢 Add .

The `AEM61DefaultLanguageMapping` is displayed at the top of the pane.

The Connector will now send only configured languages to the Translation Queue when you roll out pages.

## 6.13  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.

   **Note:** If you use this feature with the `PickupContentFromBlueprintPages_LockedOnly` page option in CRXDE Lite, the Connector can read properties from both locked and unlocked components.

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■ 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.

■ The `PickupContentFromBlueprintPages_LockedOnly` page option in CRXDE Lite enables the Connector to read properties from unlocked components when the `PickupContentFromBlueprintPages` option is set to `true`. This setting enables collecting content for translation from both locked and unlocked components.

For descriptions of all the related settings, see "UI and Default Settings" on page 51.

### 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. This enables the Connector to collect content from locked components.

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

5. To enable the Connector to collect content from both locked and unlocked components, when the `PickupContentFromBlueprintPages` property is sent to `true`:

   a. In the same location, create a child note of type `nt:unstructured` and give it the following

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name: `PickupContentFromBlueprintPages_LockedOnly`.

b. Add the following node properties: **Name** = `Active`, **Type** = `Boolean`, **Value** = `True`.

The Connector can now collect content for translation from both locked and unlocked components.

## 6.14 Configuring the TMX to Include the Original Translation

By default, when you use the **Update TM** functionality, the Connector updates the TM (translation memory) with the following information from the TMX file:

- the original source content item
- the translated content item from AEM

You can configure the Connector to also include the original translation returned by the translation provider in the TMX file.

### To configure this 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/TransOptions`.

3. Locate the `TMXIncludeOriginalTranslation` property.

4. Double-click in the **Value** column, and select `true` from the dropdown list.

The Connector will now send the original translation returned by the translation provider to the TM.

## 6.15 Excluding Properties from Translation

You can use the `TargetPageExcludedProperties` property in the `etc/ctctranslation/PageOptions` node in CRXDE Lite to specify any properties in your content that you want to exclude from being sent for translation. This is useful, for example, if you have a custom identifier property for each file that you do not want to replicate in the target content.

### To exclude properties from translation:

1. Do one of the following to open CRXDE Lite:

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⬚ 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.  Double-click the `TargetPageExcludedProperties` property.

    The **Edit TargetPageExcludedProperties** dialog box opens.
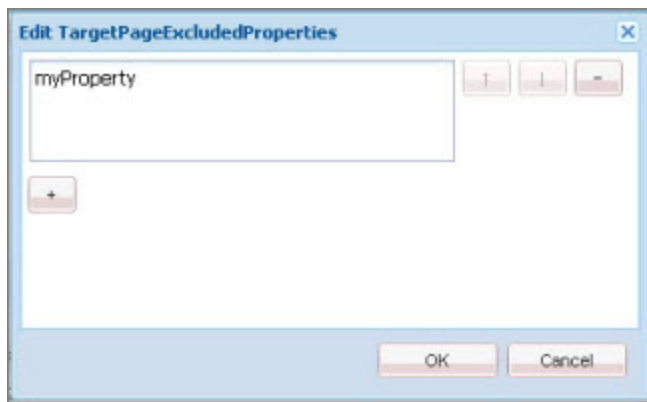


4.  In the text box, enter the name of the property to exclude.

5.  To exclude additional properties, click the plus button ⊞ .

6.  Click **OK**.

## 6.16  Configuring the Bulk Tool

In the **Bulk Tool Config** page, you can configure settings for the following tabs in the Bulk Tool.

| Tab | Tab Description | For Detailed Configuration Instructions, See... |
|---|---|---|
| Copy Metadata | You use this tab to copy metadata to highlighted pages, including language copies of these pages. | "Configuring which Metadata is Available for Copying" on page 97 |
| Reporting | You use this tab to generate reports about highlighted pages, including language copies of these pages. | "Configuring which Fields Are Available for the Field Report" on page 98 |
| Run CQ Workflows | You use this tab to run workflows on the highlighted pages, including language copies of these pages. | "Configuring which Workflows Are Available to Run" on page 99 |

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### 6.16.1 Configuring which Metadata is Available for Copying

In the **Bulk Tool Config** page, you can configure which metadata is available for copying to multiple pages in the **Copy Metadata** tab of the Bulk Tool. For instructions on copying metadata, refer to the *Clay Tablet Connector for Adobe Experience Manager User Guide, Special Edition for use with Lionbridge Freeway*.

**To configure which metadata is available for copying:**

1. Click **Admin Tools > Bulk Tool** in the Clay Tablet Connector rail. For information on opening the Clay Tablet Connector rail, see "Configuring the Connector" on page 35.

   The **Bulk Tool Config** page opens. The **Metadata Configuration** section of this page lists the JCR properties that are available for selection in the **Copy Metadata** tab of the Bulk Tool, where you can copy metadata to multiple pages.



2. To add the JCR properties as metadata available for selection to copy to multiple pages:
   a. Click **Add**, in the top-right corner of this section.

      This adds a blank row at the top of the list.
   b. In this row, enter the title, JCR property, and the order in which the metadata is displayed.

      For a list and description of JCR properties, refer to the AEM documentation, which is available at:
      https://docs.adobe.com/docs/en/aem/6-2/develop/components.html
   c. Repeat the previous sub-steps to add rows with additional metadata.

3. Click **Save Configuration** to save your changes.

   A message in red at the top of the page states that the metadata configuration was saved.

**Tips:** To edit a JCR property, edit the corresponding information in the list. To delete a JCR property, so that it is excluded from the list of available metadata, click **Del** in the corresponding row. A message box confirms that you want to delete this field in the report. Click **OK** to confirm.

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## 6.16.2 Configuring which Fields Are Available for the Field Report

In the **Bulk Tool Config** page, you can configure which fields are available to include in the Field report. You can generate this report for multiple pages in the **Reporting** tab of the Bulk Tool. For instructions on generating this report, refer to the *Clay Tablet Connector for Adobe Experience Manager User Guide, Special Edition for use with Lionbridge Freeway*.

### To configure the Field report:

1. Click **Admin Tools > Bulk Tool** in the Clay Tablet Connector rail. For information on opening the Clay Tablet Connector rail, see "Configuring the Connector" on page 35.

   The **Bulk Tool Config** page opens. The **Report Fields Configuration** section of this page lists the JCR properties that are available for display in the **Reporting** tab of the Bulk Tool, where you can select them for inclusion in the generated Field report.



2. You can add, edit, or delete the JCR properties that are included in the Field report.

   ▦ To add a JCR property, so that it is included in the report, click **Add**, in the top-right corner of this section. This adds a blank row at the top of the list. In this row, enter the information about the property to add.

   ▦ To edit a JCR property, which modifies the information in the report, edit the corresponding information in the list.

   ▦ To delete a JCR property, so that it is excluded from the report, click **Del** in the corresponding row. A message box confirms that you want to delete this field in the report. Click **OK** to confirm.

   For a list and description of JCR properties, refer to the AEM documentation, which is available at: https://docs.adobe.com/docs/en/aem/6-2/develop/components.html.

3. Click **Save Configuration** to save your changes.

   A message in red at the top of the page states that the Field-report configuration was saved.

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### 6.16.3 Configuring which Workflows Are Available to Run

In the **Bulk Tool Config** page, you can configure which workflows are available to run against multiple pages in the **Run CQ Workflows** tab of the Bulk Tool. For instructions on running workflows against multiple pages, refer to the *Clay Tablet Connector for Adobe Experience Manager User Guide, Special Edition for use with Lionbridge Freeway*.

**To configure which workflows are available to run:**

1.  Click **Admin Tools > Bulk Tool** in the Clay Tablet Connector rail. For information on opening the Clay Tablet Connector rail, see "Configuring the Connector" on page 35.

    The **Bulk Tool Config** page opens. The **Workflow Selections** section of this page lists the workflows that are available for display in the **Run CQ Workflows** tab of the Bulk Tool, where you can select them to run against multiple pages.



2.  Select the check boxes for the workflows to display in the **Run CQ Workflows** tab of the Bulk Tool.

3.  Click **Save Configuration** to save your changes.

    A message in red at the top of the page states that your workflow selection was saved.

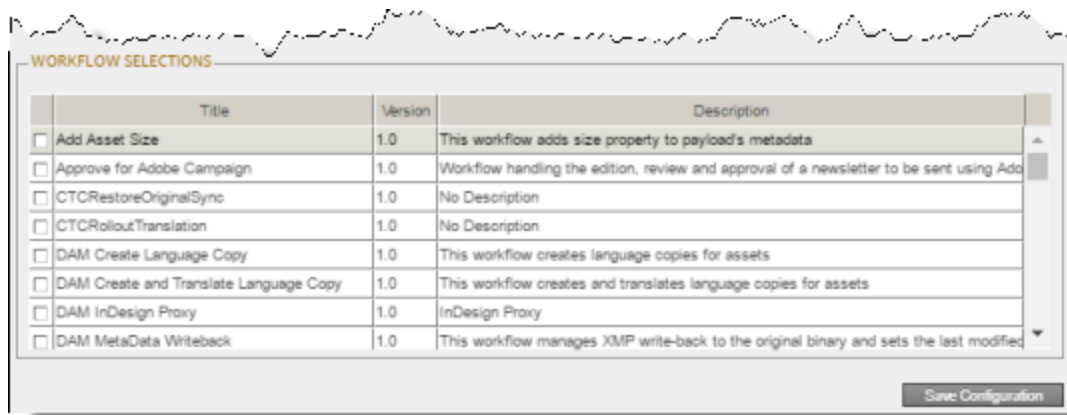Clay Tablet Connector for Adobe Experience Manager Installation and Configuration Guide, Special          Page 99
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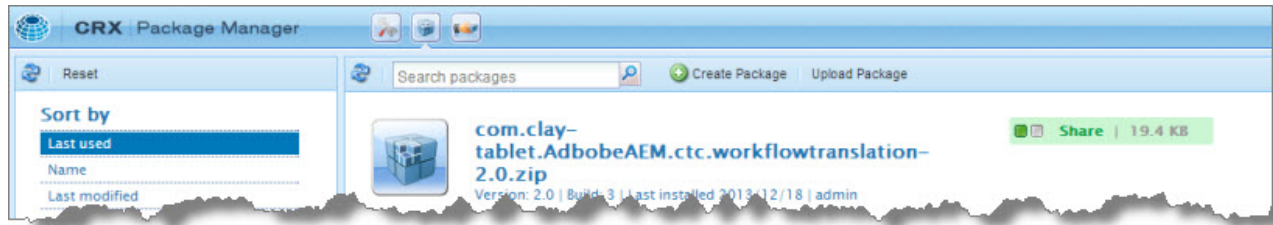# 7  Integrating the Connector with AEM Workflows

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 103. |
| 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 102.<br><br>**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 45. For more information on configuring this feature, see page 87. |
| 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.<br>▪ For instructions on installing this workflow, see page 100.<br>▪ For instructions on customizing this workflow, see page 101. |

## 7.1  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.

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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 101.

### 7.1.1  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 100.

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.

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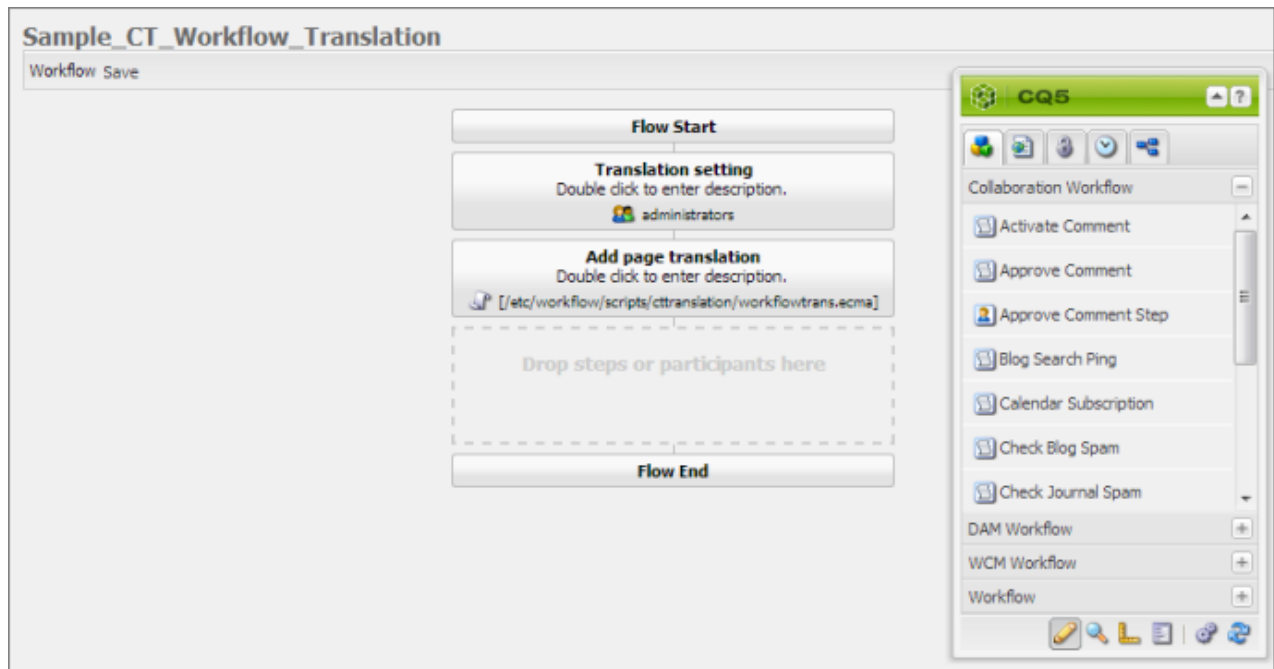
By default, this workflow includes the following two steps, which are required to integrate AEM with the Connector processes:

▦ **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.

## 7.2  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 45. 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 87.

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1.  Open the **CQ5 Workflow** page, as described on page 100.

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.
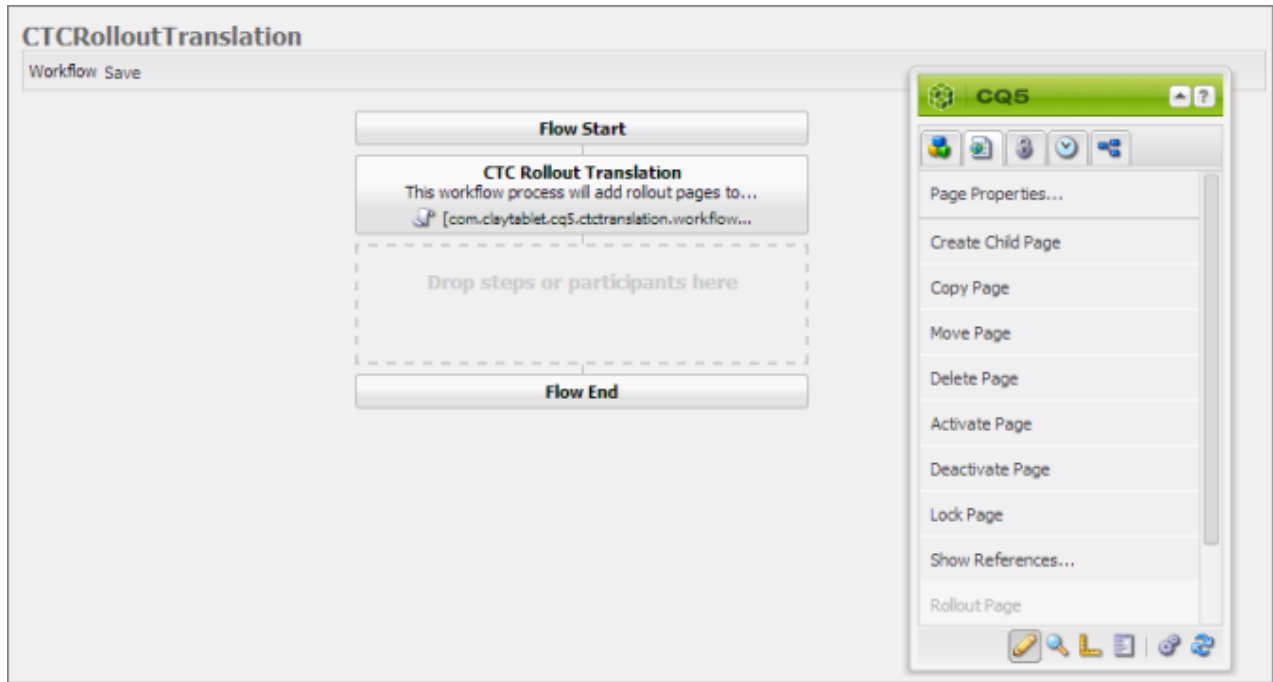


By default, this workflow includes the **CTC Rollout Translation** step, which is required to integrate AEM with the Connector processes. This is a *process* type of workflow step, where Connector adds rollout pages to the Translation Queue.

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

## 7.3  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 100.

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.

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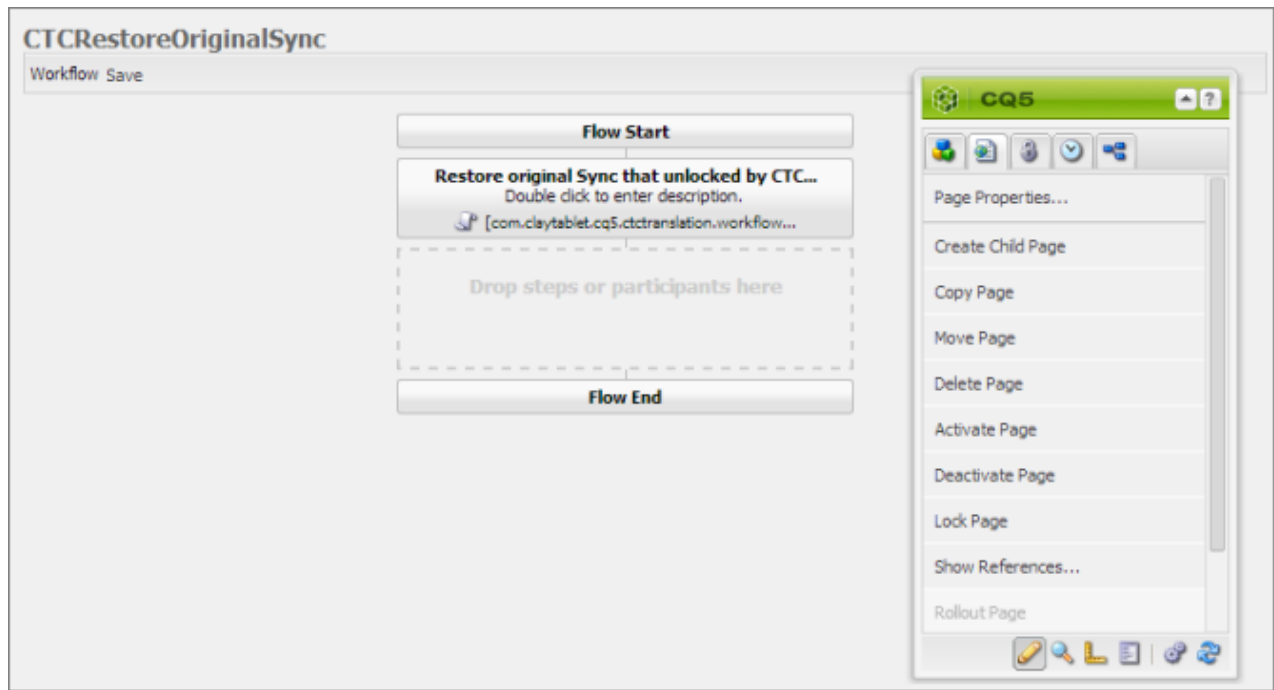
**Warning:** Do not modify this step, except for the title. Otherwise the Connector integration with the AEM workflow may not work properly.

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# 8  Implementing an 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 and the Freeway Add-On" on page 27.

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```
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;
```

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```
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: " +
```

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```
                    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)
```

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```
        {
           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
```

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```
                    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();
```

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```
      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 =
```

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```
        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
```

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```
                                   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) {}
```

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

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# 9  Installing the Connector in a Clustered Environment

This section describes how to install the Connector in a clustered environment.

To install the Connector for AEM in a clustered environment, you install it on a single instance in the cluster. This installation is the same as installing the Connector in a non-clustered environment, as described in "Installing the Clay Tablet Connector and the Freeway Add-On" on page 27.

After you install the Connector package on a single node in the cluster, it is automatically installed on the other nodes in the cluster, using the same configuration.

You can access each node in the cluster separately by its URL, using the AEM Dispatcher. For detailed instructions, see https://docs.adobe.com/docs/en/dispatcher.html.

Before you begin to install the Connector for AEM in a clustered environment, please review the system requirements, described on "System Requirements" on page 13, and verify that each host that will be a cluster node in the cluster meets the requirements.

### To install the Connector in a clustered environment:

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 13. Do this on each host that will be a cluster node.

3.  "Downloading the Delivery Package" on page 14. 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 15. Ensure that the database is accessible to all hosts that will be cluster nodes.

5.  "Creating the Clay Tablet Connector Folders" on page 16. These are the optional folders where the Connector stores your licensing information and your translation data. If your environment will use these folders, then create one set of folders and sub-folders on each host that will be a cluster node.

    **Recommendation:** These folders should not be shared folders.

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# 10  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 37 |
| Configuration page, **Export Translation Options** button | transoptions.xml | "Configuring Connector Global Settings" on page 37 |
| Language Mapping | languagemapping.xml | "Configuring Connector Languages" on page 67 |
| Component Mapping | fields4trans.xml | <ul><li>"Configuring which Components and Properties to Send Out for Translation" on page 71</li><li>"Subscribing to Email Notifications about New Fields and Components" on page 75</li></ul> |

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| To Export Your Configuration from This Page | Export This Configuration File | For Details, See... |
|---|---|---|
| LSP and Keys | lspkeys.xml | "Configuring Translation Providers and the CMS Address and Platform Keys" on page 77 |

### 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.

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# 11  Troubleshooting Installation and Configuration Issues

| Issue | Description |
| --- | --- |
| "Clay Tablet Connector Does Not Load" on page 119 | The Clay Tablet Connector does not load, or only the Connector landing page loads, but the Connector does not run. |
| "Search Agents Are Not Displayed" on page 119 | ■ 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.)<br>■ 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. |
| "Inaccurate Translation Status" on page 120 | Either:<br>■ A submitted job is stuck at `1%` or `2%`.<br>■ A returned translation job is stuck at `90%`. |
| "The Connector Does Not Send Out Submitted Jobs or Return Translated Content" on page 121 | The Connector does not process any jobs and one or all of the Connector chains is red. |
| "The Connector Does Not Send Out Submitted Jobs" on page 121 | The Connector does not process any jobs and the Upload Service chain is red. |
| "The Translation Provider Does Not Receive Content in New or Custom Languages" on page 122 | The Connector successfully sends content for translation in new or custom languages but it does not reach the translation provider. |
| "The Connector Does Not Process Returned Translations after Language Mapping Changes" on page 123 | Changes to language mapping occurred while content in the changed language was out for translation. After the translated content returns, the Connector does not process it. |
| "Job Submitted for Translation Is Missing Some Strings" on page 123 | The Connector successfully sent the job to the LSP, but some of the source content is missing from the job and it was not sent. |
| "Cannot Select New Translation Provider When Sending Out Content for Translation" on page 124 | After using an account license key to install a new translation provider (LSP), it is not available for selection when submitting a new job. |
| "New Target Language Is Not Available When Sending Out Content for Translation" on page 125 | After configuring a new target language, it is not available for selection when submitting a new job. |

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## 11.1  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 116. |
| 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. |

## 11.2  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. | | |

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## 11.3 Inaccurate Translation Status

| Possible Issue | Explanation | Solution |
|---|---|---|
| Either:<br>■ A job was submitted and the translation provider has confirmed receipt, but in the **Job Details** tab of the **Translation Status** page, some but not all pages are at `10%`/`In Translation`.<br>■ The translation provider has confirmed that all files were successfully delivered, but in the **Translation Status** page, some but not all pages are at `100%`/`Completed`.<br><br>An example is displayed in the screen capture below. | Either:<br>■ The key used for the translation job was duplicated in another environment.<br>■ The environment from which the job was submitted has been cloned.<br>**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.**<br><br>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. Remove any duplicate keys or cloned environments. For detailed setup instructions, see "Configuring Translation Providers and the CMS Address and Platform Keys" on page 77.<br>▶ If some but not all pages are at `10%`/`In Translation`, cancel the original translation job and resubmit it.<br>▶ If some but not all pages are at `100%`/`Completed`, ask the translation provider to redeliver the translation job. |
| | The Clay Tablet Connector database has been shared with another environment.<br>The Connector requires a unique, non-shared, database for storing translations returned to the Connector. Sharing a database can result in another environment processing the returned translations into that environment. | 1. Change the database user name and password.<br>2. In the **JDBC SQL Connection** section of the **Configuration** page, update the **Login Name** and **Login Password**. For detailed instructions, see "JDBC SQL Connection" on page 42.<br>3. Ask the translation provider to redeliver the translation job. |

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## 11.4 The Connector Does Not Send Out Submitted Jobs or Return Translated Content

The Connector does not process any jobs and one or all of the Connector chains is red.

| Generally, the chain should be green: | However, at least one element in the chain is red: |
|---|---|
|  |  |

| Possible Issue | Explanation | Solution |
|---|---|---|
| One or more of the required Connector services is not running. | For the Connector to function correctly, all Connector components must be installed and active. | Verify that all Connector components are active. For detailed instructions, see "Verifying that the Bundle and All Connector Components Are Active" on page 29. |

## 11.5 The Connector Does Not Send Out Submitted Jobs

The Connector does not seem to process any jobs and the Upload Service is inactive (red).

| Generally, the chain should be green: | However, the Upload Service in the chain is red: |
|---|---|
|  |  |

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| Possible Issue | Explanation | Solution |
|---|---|---|
| Multiple jobs are stuck in `Preparing` and/or `Sending` status. | When there many failed attempts to send out jobs, the log files are spammed with job processing details. This may cause the Upload Service to become inactive (red). | Open the **Translation Status** page (`/content/ctctranslation/status.html`), and delete all the jobs that have been stuck in `Preparing` and/or `Sending` status for an extended period of time. |

## 11.6  The Translation Provider Does Not Receive Content in New or Custom Languages

The Connector successfully sends content for translation in new or custom languages but it does not reach the translation provider.

| Possible Issue | Explanation | Solution |
|---|---|---|
| The Clay Tablet Platform does not have the updated language mapping. | Your company and your translation provider may use different language codes in their technology/workflows. The Clay Tablet Platform can map language codes AEM to those expected by the translation provider. | Contact Clay Tablet Support to request a review of the Clay Tablet language mapping for the translation provider to ensure that the new language is correctly mapped for the target platform. For details, see "How to Contact Clay Tablet Support" on page 10. |
| The translation provider requires that source-target languages pairs are configured before any new translation requests. | The translation platforms of most translation provider require that source-target language pairs are configured. | Contact the translation provider and verify that the all source-target language pairs are configured. |

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## 11.7 The Connector Does Not Process Returned Translations after Language Mapping Changes

| Possible Issue | Explanation | Solution |
|---|---|---|
| Changes to language mapping occurred while content in the changed language was out for translation. After the translated content returns, the Connector does not process it. | The changes to language mapping changed the language reference path in CRX.<br>The Connector uses the page path to return translated content back to AEM. If that page path is changed while content is out for translation, then the Connector cannot return the translated content to AEM. For details, see "Configuring Connector Languages" on page 67. | 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.<br>If this occurs accidentally, then resend the job with the new language name, and notify your translation provider that this replaces the previous job. |

## 11.8 Job Submitted for Translation Is Missing Some Strings

The Connector successfully sent the job to the LSP, but some of the source content is missing from the job and it was not sent.

| Possible Issue | Explanation | Solution |
|---|---|---|
| Either component mapping was not done, or it was not updated for components that were recently added or used in new content. | 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. | Update the component mapping and resend the job for translation. For detailed instructions, see "Configuring which Components and Properties to Send Out for Translation" on page 71.<br>**Recommendation:** If you are submitting new nodes in your content tree for translation, validate component mapping in a pre-production environment to ensure that only the required components are mapped. |

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| Possible Issue | Explanation | Solution |
|---|---|---|
| All components were successfully sent for translation in the pre-production environment, but they are missing in the production environment. | Component mapping is managed on a per-AEM-instance basis. You must import any changes in component mapping from the pre-production environment into the production environment before submitting jobs from there. | Either:<br>■ Manually make the same component mapping changes in the production environment.<br>■ Migrate your component mapping from the pre-production environment to the production environment. For detailed instructions, see "Automatically Updating Your Connector Configuration" on page 116. |

## 11.9  Cannot Select New Translation Provider When Sending Out Content for Translation

After using an account license key to install a new translation provider (LSP), it is not available for selection when sending out a new job for translation.

| Possible Issue | Explanation | Solution |
|---|---|---|
| Your team profile was not updated to support sending content to the new translation provider (LSP). | The Connector uses profiles to define the set of users who can send out content for translation to a specific translation provider (LSP).<br><br>**Note:** Profiles also define the source-target pairs that users are allowed to send out for translation. | Ask your AEM administrator to update the appropriate team profile to include the new translation provider. For detailed instructions, see "Configuring Team Profiles" on page 84. |

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## 11.10  New Target Language Is Not Available When Sending Out Content for Translation

| Possible Issue | Explanation | Solution |
|---|---|---|
| After configuring a new target language, it is not available for selection when submitting a new job. | Your team profile was not updated to support sending content for translation to the new target language.<br><br>The Connector uses profiles to define the set of users who can send out content for translation with specific source-target language pairs.<br><br>**Note:** Profiles also define who can send out content for translation to a specific translation provider (LSP). | Ask your AEM administrator to update the appropriate team profile to include the source-target language pairs. For detailed instructions, see "Configuring Team Profiles" on page 84. |

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# 12  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, Special Edition for use with Lionbridge Freeway*. 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 10.

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# 13  Appendix: Language Codes

For detailed instructions on setting up the correct Clay Tablet language codes for every language your company uses for translation, see "Configuring Connector Languages" on page 67.

The Clay Tablet Connector has the following language codes:

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

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

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

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

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

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

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

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

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

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