



SDL Connector for AEM

Quick Start Guide

February 2020

Before you Begin

This quick start guide will help you install and configure the SDL connector for AEM as a new, clean installation. If you are upgrading from an old version of the SDL connector, refer to the Administration Guide for additional installation instructions. The main features for the user are described, with each user interface screens and how they function. For further detailed information on the connector and its functions, refer to the Administration Guide.

Supported Versions

- SDL Connector for AEM 1.2.0
- SDL Managed Translation with SDL TMS 11.2+
- AEM 6.5.2

Checklist

To complete the SDL Connector setup, the following items will need to be configured and setup. This is a high level checklist to help identify the various teams' involvement to complete the integration. Installing the connector requires an AEM admin with read/write access to CRX/DE and the Web Console OSGi.

SDL Account team for:

- SDL Managed Translation service account
- SDL TMS organization/configuration setup

AEM Admin Team

- Service account for connector
- Connector install and setup
- Cloud Configuration setup

Known Limitations

The following limitations exist for this solution in AEM, SDL or the Connector:

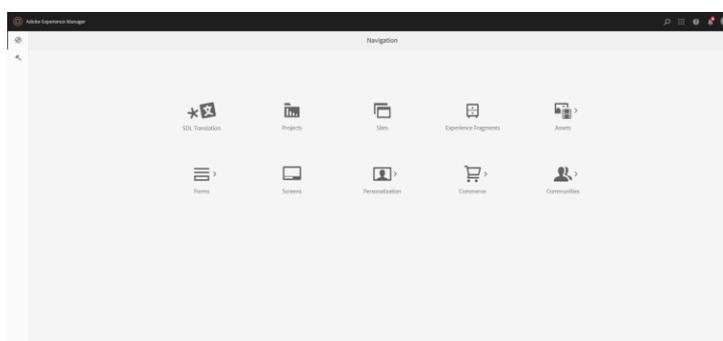
- In AEM translation projects are created as nodes under projects/sdl. AEM has a limit of 1000 sub-nodes, so ensure projects are archived periodically. 1 project equals 1 node.
- Due date – when creating a project, if the same day due date is chosen, TMS defaults to 5 days. Any other due date in the future is respected correctly and sent to SDL.
- If the AEM server is running slow, or using a local instance, the multi-threading setting should be set to 1, otherwise when creating large projects the threading in AEM can cause erroneous errors on the project status page. The page and status will resolve itself eventually once AEM has processed the files.

Installation

Install in AEM Package Manager

Log in to AEM with your administrator credentials.

1. Locate CRX Package Manager from the AEM menu
2. Click Upload Package
3. Browse to the connector package that you acquired from SDL (e.g. sdl-connector.ui.apps-1.2.0.zip), select **Force Upload**, and then click OK:
4. Click the Install button for the package, then again in the resulting dialog:
5. Once installed, and the services start, return to the AEM home screen and refresh the page.
6. The SDL Translation icon will be visible on the main navigation screen

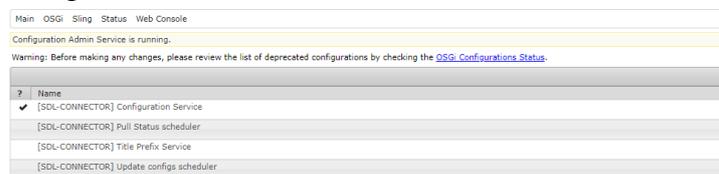


Permission Sets

AEM Connector Credentials

The SDL connector uses a set of AEM administrator credentials to manage its access for the polling/scheduler mechanism to update project status and retrieve translated items. To set these credentials, follow the below links.

Adobe Experience Manager Web Console Configuration



1. Goto: [https://\[server_name\]/system/console/configMgr](https://[server_name]/system/console/configMgr)
2. Click on [SDL-CONNECTOR] Configuration Service and complete the username, password and server name details. This username must have administrator credentials.
Note: 99% of the time you can leave localhost as the server name
3. Goto: [https://\[server_name\]/bin/v2/mantra/configuration/check](https://[server_name]/bin/v2/mantra/configuration/check)
You will receive a **Connection tested successfully** message
4. The remaining services can be left as default, but are described in the Features and Functionality settings if you wish to configure them differently

AEM User Permissions

The SDL connector uses AEM servlets to perform actions on projects, and these require permissions granted to the end-users profile.

1. Install the SDL user group and ACLs required for the connector using the separate install package, and then add users to this group.
2. Alternatively, assign the below permissions to AEM groups that already exist in your setup.

Paths	Read	Modify	Create	Delete	ReadACL	EditACL	Replicate
/apps	X						
/apps/sdl-connector	X	X	X				
/bin	X						
/conf	X	X	X	X	X		
/content	X						
/content/dam	X	X	X	X			
/content/launches	X	X	X	X			
/content/projects/sdl	X	X	X	X	X	X	
/etc/sdl	X	X	X	X			
/etc/workflow	X	X	X	X			
/libs	X						
/var/workflow	X	X	X	X			

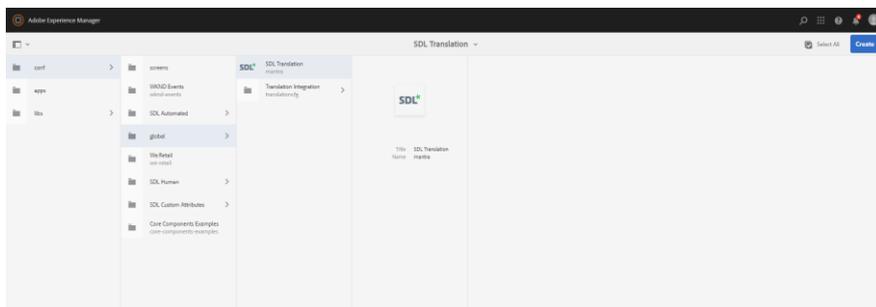
Setting Cloud Configurations

Before proceeding, ensure you have the SDL Translation Management access credentials. If you do not have these, contact your SDL Account Team.

Default Cloud Configuration

The SDL Connector installation process installed a default cloud configuration under conf/global. This is the default location for AEM Translation Cloud Configurations.

1. Navigate to Cloud Services > Translation Cloud Services > conf > global
2. Click **Create**.



1. Select **SDL Translation** from the first dropdown.

2. Complete the dialog with a **Title** and **Name** of your configuration.
It is recommended to use a Title and Name that will be understandable for the AEM user creating translation projects. This is displayed to the user when they create a translation project as an option to choose configuration they want to use for their project.

3. Select **Create**
4. This opens the created Configuration.

5. Enter the details for the configuration.
 - a. Enter the URL for your instance including the path to the API:
<https://languagecloud.sdl.com>
 - b. Enter **Username** and **Password**
 - c. Enter the **Client Id** and **Client Secret**.
 - d. Select the **Project Options** and this will dynamically display all of the Project Options available for the user. Select the correct one to be used for the AEM integration.
 - e. Select option to **Enable** or **Disable** Preview. Enabling preview passes a preview package from AEM to SDL for displaying in-context preview during translation and review stages.

6. Click the **Test Connection** button.
You will see either a success or failure message:



If unsuccessful check your login credentials, and troubleshoot any firewall issues between the two servers.

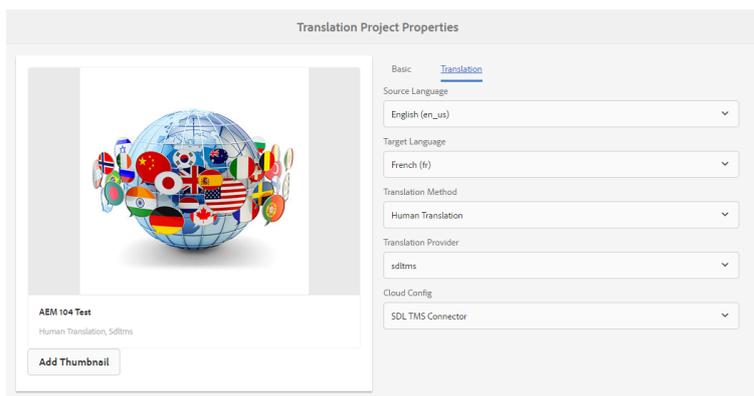
Custom Cloud Configuration

If you plan to use more than one Cloud Configuration you must set these up at context level within AEM. You cannot have more than one cloud config on a single context level.

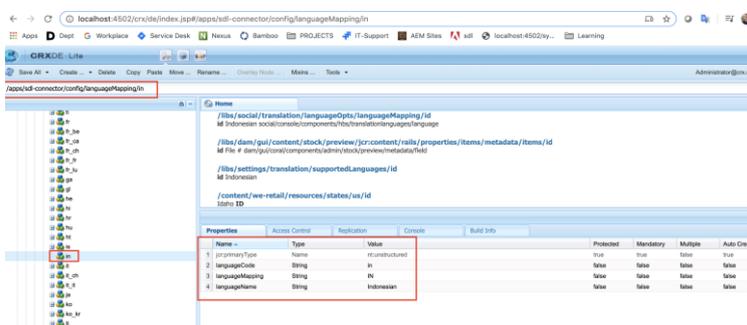
1. Open configuration browser - AEM start screen > Hammer icon > General > Configuration browser
 - a. Click on the blue **CREATE** button
 - b. Check the **Cloud Configurations** checkbox
 - c. Enter a name
 - d. Click **Create** inside the dialog
2. Open Translation Cloud Services - AEM start screen > Hammer icon > Cloud Services > Translation Cloud Services
 - a. Select **conf**
 - b. You will see a **global** folder - this is where the Default configuration is located
 - c. In the same level you will see the newly created cloud config root folder
3. Select that folder and click on the blue **CREATE** button
 - a. Select **SDL Translation**
 - b. Enter title and name
 - c. Click **Create** inside the dialog
4. Setup the cloud config as described in the Default Cloud Config section above
5. In step2 of the SDL Create Project Wizard, you will see a select box with all the cloud configs. Default is selected by default

Language Mappings

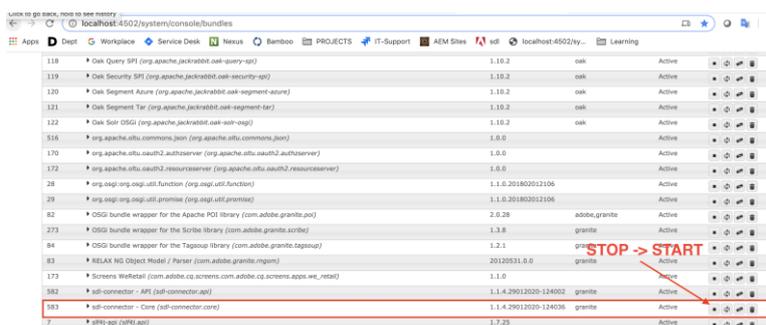
It is important to ensure that the language mappings are accurate between AEM and SDL. For example if SDL is expecting en_us > es, then the user in AEM must select the correct language codes during translation project creation.



Language mapping nodes are installed as part of the connector, and can be found in AEM under CRXDE Lite - `/apps/sdl-connector/config/languageMapping`. The `in` node on the left is the AEM language code, the `languageMapping` value in the Properties, `IN`, is the language code that should exist in SDL.



To change a code used in AEM, edit the node in the left-hand menu under languagemapping node. To change the code used in SDL, edit the language mapping property on the right-hand side. For this change to be set in AEM and the connector, go to the AEM console, bundles, then stop and start the SDL-CORE bundle.



Configure AEM Translation Integration

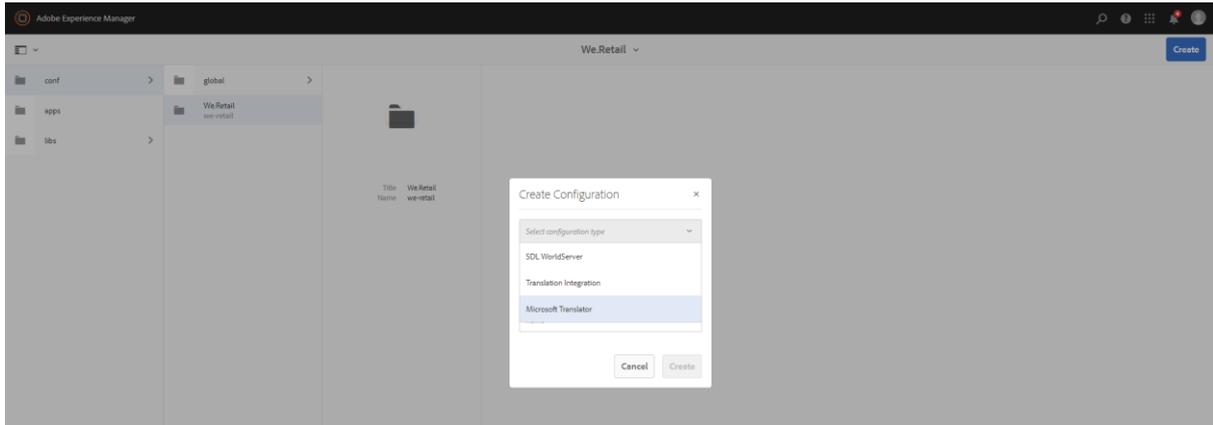
Detailed instructions on how to configure the AEM Translation Integration Framework can be found on the Adobe docs' website: AEM 6.5:

<https://helpx.adobe.com/experience-manager/6-5/sites/administering/using/tc-tic.html>

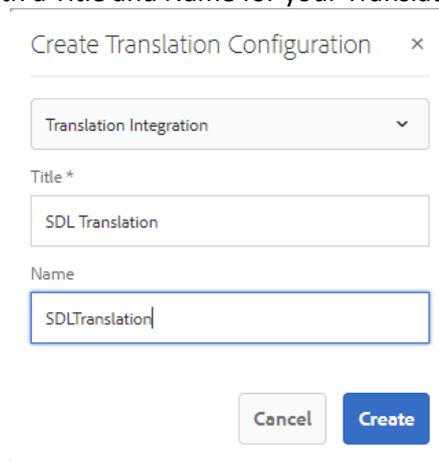
Configuration Instructions

Navigate to Cloud Services > Translation Cloud Services > Conf > <YOUR-Cloud-Config>.

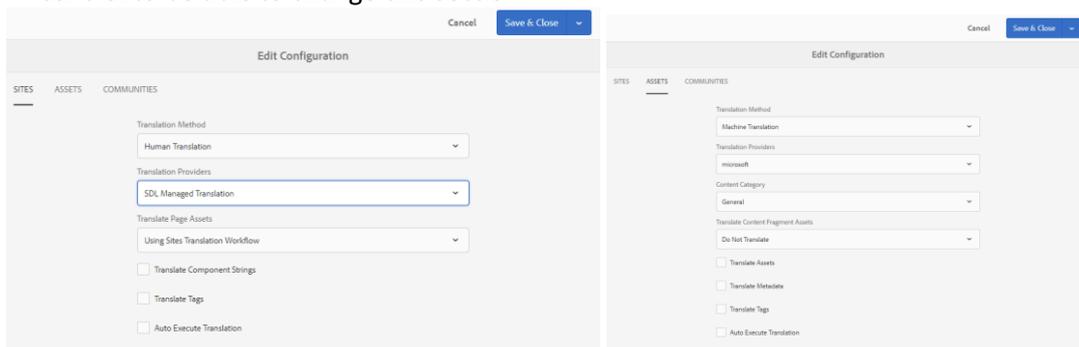
1. Select **Translation Integration** from the dropdown



2. Complete the dialog with a Title and Name for your Translation Configuration.



3. Configure **Sites** and **Assets** to use the SDL Connector Configuration and choose the options as required, referring to the tables below taken from the Adobe docs instructions. Adobe lock down the **Communities** section to Microsoft Machine Translator, and SDL have no control to be able to change this section.



Sites Configuration Properties

The Sites properties control how the translation of page content is performed.

Property	Description
Translation Workflow	Select the translation method that the framework performs for site content: Machine Translation: The translation provider performs the translation using machine translation in real time. Human Translation: Content is sent to the translation provider to be translated by translators. Do Not Translate: Content is not sent for translation. This is to skip certain content branches which would not be translated but could be updated with latest content.
Translation Provider	Select the translation provider to perform the translation. A provider appears in the list when their corresponding connector is installed.
Content Category	(Machine Translation Only) A category that describes the content that you are translating. The category can affect the choice of terminology and phrasing when translating content.
Translate Tags	Select to translate tags that are associated with the page.
Translate Page Assets	Select how to translate assets that are added to components from the file system or referenced from Assets: Do not translate: Page assets are not translated. Using Sites translation workflow: Assets are handled according to the configuration properties on the Sites tab. Using Assets translation workflow: Assets are handled according to the configuration of the properties on the Assets tab.
Auto-Execute Translation	Select to execute translation jobs automatically after translation projects are created. You do not have an opportunity to review and scope the translation job when you select this option.

Assets Configuration Properties

The Assets properties control how the translation of page content is performed.

Property	Description
Translation Workflow	Select the translation method that the framework performs for site content: <ul style="list-style-type: none"> Machine Translation: The translation provider performs the translation using machine translation in real time. Human Translation: Content is sent to the translation provider to be translated by translators. Do Not Translate: Content is not sent for translation. This is to skip certain content branches which would not be translated but could be updated with latest content.
Translation Provider	Select the translation provider to perform the translation. A provider appears in the list when their corresponding connector is installed.
Content Category	(Machine Translation Only) A category that describes the content that you are translating. The category can affect the choice of terminology and phrasing when translating content.
Translate Tags	Select to translate tags that are associated with the page.
Translate Page Assets	Select how to translate assets that are added to components from the file system or referenced from Assets: <ul style="list-style-type: none"> Do not translate: Page assets are not translated. Using Sites translation workflow: Assets are handled according to the configuration properties on the Sites tab. Using Assets translation workflow: Assets are handled according to the configuration of the properties on the Assets tab.
Auto-Execute Translation	Select to execute translation jobs automatically after translation projects are created. You do not have an opportunity to review and scope the translation job when you select this option.

AEM User Experience

The following user interfaces deliver the translation experience for the AEM user, to create and manage their translation projects

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Translation Project Overview

The Translation Overview page shows a list of all translation projects. The table displays the project title, description, project status, who created the project (AEM user account), project due date, source and target languages, translation project cost and total source word count. Actions that can be performed on the project are shown dynamically depending on its status in the translation workflow.

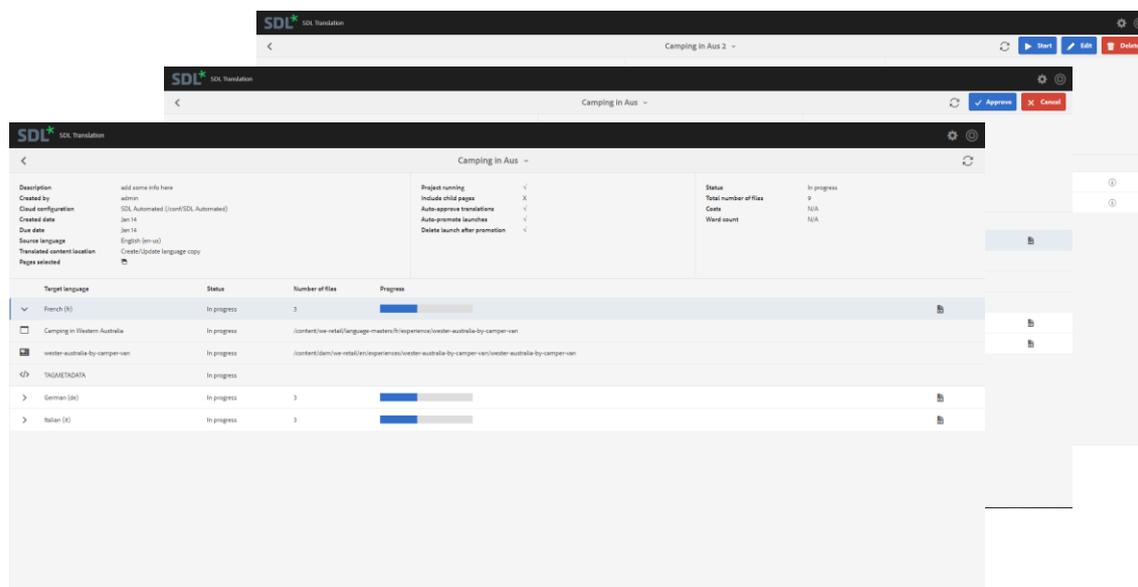
Title	Description	Status	Created by	Due date	Source language	Target languages	Costs	Word count	
Shorts	This is the shorts project	Draft	admin	Dec 15	English (en-us)	Portuguese (pt), Russian (ru)	N/A	N/A	
test for preview package	N/A	For approval	admin	Dec 15	English (en-us)	French (fr)	\$241.06	2070	✓ ✕
project camper	N/A	For approval	admin	Dec 15	English (en-us)	Chinese (zh-cn), Chinese (zh-tw)	\$621.59	3324	✓ ✕
Pants	N/A	Ready for review	admin	Dec 15	English (en-us)	Danish (da), Dutch (nl)	\$104	40	
Special characters in mem...	ad some characters ? ' (SöMöB)	For approval	admin	Dec 15	English (en-us)	French (fr), Japanese (ja)	N/A	N/A	✓ ✕
Large project	many files, many languages	For approval	admin	Dec 15	English (en-us)	Danish (da), German (de), Spa...	\$213.68	1332	✓ ✕
St. Touring	with custom attributes	In review (SDL)	admin	Dec 15	English (en-us)	German (de), French (fr)	\$434.49	2726	
Experience - Wilderness	N/A	In progress	admin	Dec 20	English (en-us)	German (de), Dutch (nl), Chine...	\$1094.38	9780	

From this page the user can:

- View all translation projects with a toggle to show active/completed projects
- Sort the table columns
- Filter projects by status. Then search on that filter
- Search for projects using free text search on Title, Description and Created by fields.
- Action project for delete, start, approve, reject a translation project
- Create a new translation project
- Open a translation project for more details (see next section)
- Refresh the page to get the latest status updates

Translation Project Detail

The translation project detail page shows the details of each project including the created date and the cloud configuration. There is an icon to show if the project has started the translation workflow. Depending on the status of the project, action buttons may appear at the top right of the page to action the entire project, or inline with the language/files to action individual items.



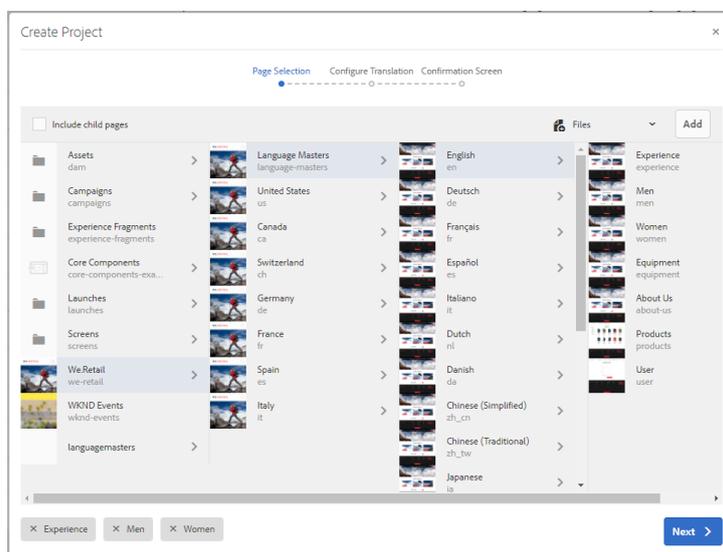
From this page the user can:

- View all the details of the translation project
- Action project for Start, Delete when the project is in Draft status
- Edit the project details when in Draft status
- Action the project for approve, cancel when the project is in For approval status
- Action the languages, files for accept, reject translation when the project or individual languages are at Ready for Review status
- Refresh the page to get the latest status updates
- Export the project files

Create Project Wizard

The Create Translation Project wizard has three steps: select content, configure translation options, and confirm request with the option to save the project or start the translation workflow.

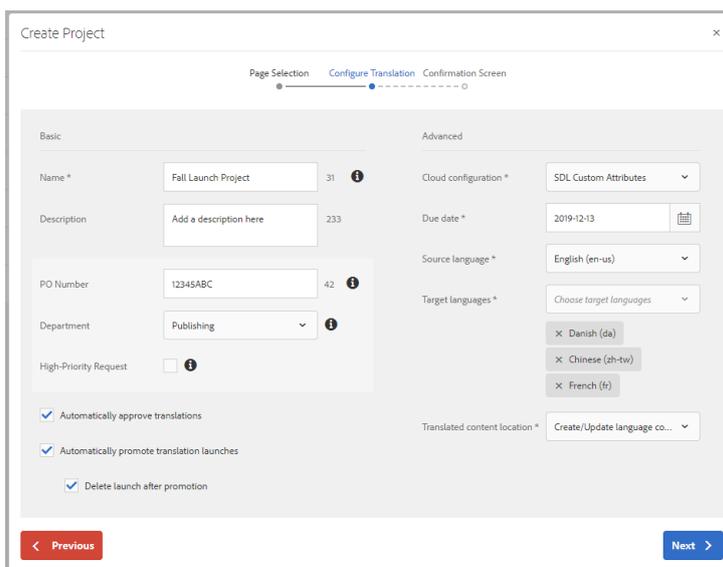
Page Selection



From this page the user can:

- Select pages for translation, and choose to include child pages
- Select assets for translation
- Select I18N dictionaries for translation
- Add multiple pages/assets

Configure Translation



From this page the user can:

- Add a name for the project, limited to 50 characters
- Add a description for the project, limited to 255 characters

- Options to auto approve translations, promote translation launches and delete launches after promotion
- Choose cloud configuration
- Set a project due date
- Choose single source and multiple target languages
- Define where the translated content is located
- Set custom attributes when configured

Confirmation Screen

Field	Value
Description	Add a description here
Files for translation	/content/we-retail/language-masters/en/experience/arctic-surfer-in-lofoten
Automatically approve translations	✓
Automatically promote translation launches	✓
Delete launch after promotion	✓
Cloud configuration	SDL Custom Attributes (/conf/SDL Custom Attributes)
Due date	2019-12-13
Source language	English (en-us)
Target languages	Danish (da), Chinese (zh-tw), French (fr)
Translated content location	Create/Update language copy
PO Number	12345ABC
Department	Publishing
High-Priority Request	X

From this page the user can:

- View the details and options set for the project
- View the pages/assets added to the project
- Choose to Save or Start the translation project

About SDL

SDL (LSE:SDL) is the global innovator in language translation technology, services and content management. With more than 25 years of experience, SDL delivers transformative business results by enabling powerfully nuanced digital experiences with customers around the world. Find out more at [sdl.com](https://www.sdl.com)

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