



Demandware Link Cartridge 17.1.0

Installation Guide



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1. Introduction

This document gives the Technical Specifications for the Smartling Demandware Link cartridge as well as the LINK implementation guide for setting up Smartling on standard SiteGenesis 2.0.

The Cartridge allows you to use Smartling to translate products, categories and content assets from your Demandware catalogues.

You must have a Smartling account in order to use the Cartridge. Visit smartling.com to find out more.



2. Components

Cartridge Name

bm_smartling_integration

Pipelines

- CallBackService.xml
- Category.xml
- Configuration.xml
- ContentAsset.xml
- SmartlingProduct.xml
- SmartligCronJobs.xml
- SubmissionBoard.xml

Scripts

- scripts/category/getInformation.ds
- scripts/category/sendTranslate.ds
- scripts/content_asset/getList.ds
- scripts/content_asset/sendTranslate.ds
- scripts/status/category.ds
- scripts/status/contentAsset.ds
- scripts/status/product.ds
- scripts/submission_board/cancelResend.ds
- scripts/submission_board/checkProgress.ds
- scripts/submission_board/download.ds
- scripts/submission_board/filter.ds
- scripts/submission_board/search.ds
- scripts/submission_board/sort.ds
- scripts/callBackServiceHandler.ds
- scripts/checkStatus.ds
- scripts/configuration.ds
- scripts/downloads.ds
- scripts/getAllProducts.ds
- scripts/getCatalogIds.ds
- scripts/getCategorys.ds
- scripts/getNewCustomObjects.ds
- scripts/getSubCategory.ds
- scripts/helpFunctions.ds
- scripts/resend.ds
- scripts/saveConfiguration.ds
- scripts/sendFile.ds
- scripts/submission.ds



- scripts/submissionBoard.ds
- scripts/submitItem.ds
- scripts/util.ds

Templates

- templates/default/application/MenuFrame.isml
- templates/default/callback/CallBackResponse.isml
- templates/default/callback/callbackErrorResponse.isml
- templates/default/category/list.isml
- templates/default/content_asset/list.isml
- templates/default/extensions/custom_sitemenupageextension.isml
- templates/default/status/categoryStatus.isml
- templates/default/status/contentAssetStatus.isml
- templates/default/status/productStatus.isml
- templates/default/submission_board/ajaxResponse.isml
- templates/default/configuration.isml
- templates/default/error.isml
- templates/default/jsonProgressResponse.isml
- templates/default/showCategoryList.isml
- templates/default/submission_board.isml

MetaData

- custom-objecttype-definions.xml
- system-objecttype-extensions.xml
- jobs.xml



3. Component Overview

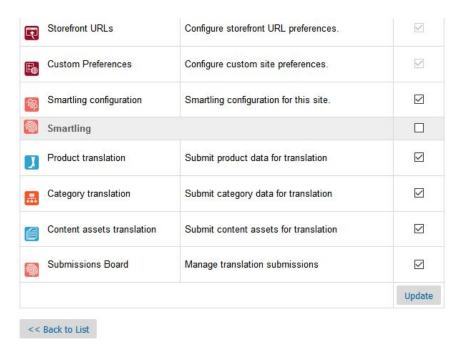
3.1 Functional Overview & Integration Guide

3.1.1. Setup access to Site Preferences

All permissions for customers can be set in **Administration** \rightarrow **Organization** \rightarrow **Roles & Permissions**. You can allow admin level users to edit Site settings and disallow non-admin users.

Users who need to manage the site must have the 'Smartling Configuration module enabled as well as the following permissions:

- Product Translation;
- Category Translation;
- Content assets translation;
- Submissions Board.



3.1.1. Setup Site Preferences

For Smartling functionality to be enabled, you will need to enter your Smartling API key and Project ID (available on request from your Smartling Client Services Manager) on the **preferences** page of your Demandware instance (see 4.2 Configuration).



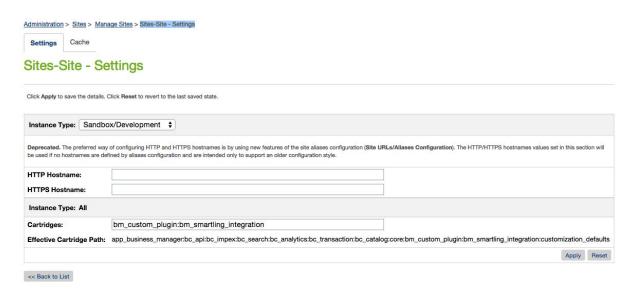
4. Implementation Guide

4.1 Setup

4.1.1 Cartridge Installation

To install the Smartling cartridge, go to **Administration** -> **Sites** -> **Manage Sites** -> **Sites-Site** - **Settings** and add the cartridge **bm_smartling_integration** to the beginning of your cartridge path.

NOTE: Be sure to also add the cartridge to the Business Manager cartridge path by selecting 'Manage the Business Manager Site'.



4.1.2 Cartridge Installation

System and Custom Object Extensions

There are several metadata files that need to be imported into the site for the integration to function properly. Import the provided system object type extensions in file

"metadata/system-objecttype-extensions.xml" by navigating to **Site Development/Import & Export/Metadata**

This will extend the SitePreferences object to include an attribute for the Smartling configuration preferences.

Upload the file from your local workspace via 'Upload', then select 'Import' and choose your newly uploaded file.

Follow the same process for the file 'metadata/custom-objecttypedefinitions.xml'.



This file creates two new system object definitions:

- 1. SMARTLING_SUBMISSION an object that stores the state of a translation submission. The scheduled jobs will use this object to query, send, and update batch information.
- 2. SMARTLING_LOCALES A custom object to store the relevant locales for this instance.

Custom Object Data

To populate the locales custom object, navigate to: **Merchant Tools / Custom Objects / Import & Export**

Select 'upload' and choose the local file 'metadata/SMARTLING_LOCALES.xml' from the cartridge installation package.

Once this file is imported, all the locales supported by Smartling will be loaded into the SMARTLING_LOCALE custom object definition.

Job Schedule Definitions

The Smartling integration utilizes two scheduled jobs to send and receive batch communications to the Smartling servers. Import the provided definitions by navigating to: **Administration / Operations / Import & Export**

Choose 'upload' and upload the provided schedule definition file 'metadata/jobs.xml'. After uploading, choose 'Import' and select the newly uploaded file.

This will result in two job configurations that will be discussed in detail below.



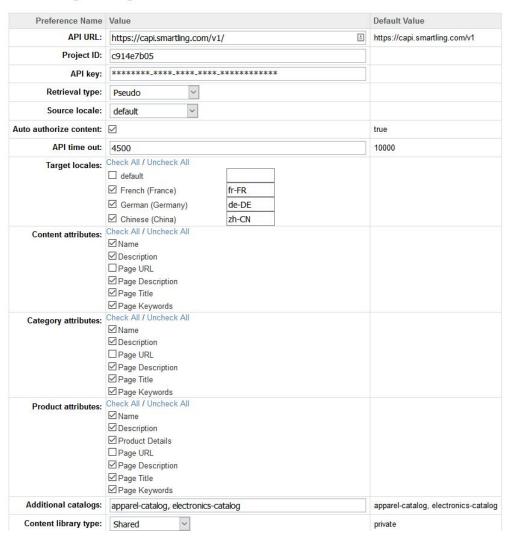
4.2 Configuration

For the Smartling functionality to be enabled you will need to setup your Smartling API key and Project ID on your Demandware instance. All Smartling API endpoints for partner applications require an API Key & Project ID. Each Application-specific API key allows for fine-tuned access to the available endpoints. A client can obtain their API information from the Smartling Dashboard at Project Settings > API..

Assign your Smartling credentials as shown below in the Smartling custom site preferences:

Site > Site Preferences > Smartling Configuration

Smartling Configuration





Site vs Master Catalogs

If following best practices for catalog management, you may not have a storefront catalog that "owns" all the products on the site.

In order for the translations to be written back to products that are not owned by the site catalog the Smartling integration will need to have the additional catalog-ids configured in the 'Additional Catalogs' preference.

The cartridge defaults to the SiteGenesis model of 'apparel-catalog' and 'electronics-catalog'.

This is necessary, as the Demandware API does not currently allow a product to determine which catalog-id owns it

Private vs Shared Content Libraries

In the Demandware platform you can assign to your site both the "private" and the "shared" library.

In order for the translations to be written back to correct library the Smartling integration will need to have library type configured in the 'Content library type' preference.

The cartridge defaults to the "Private" library type unless you specify otherwise.

Callback Service

When translation is completed Smartling can put it immediately into DW site by calling specially generated URL associated with this translation.

To generate unique callback token we using combination of submission id and token salt, which can be configured in the settings.

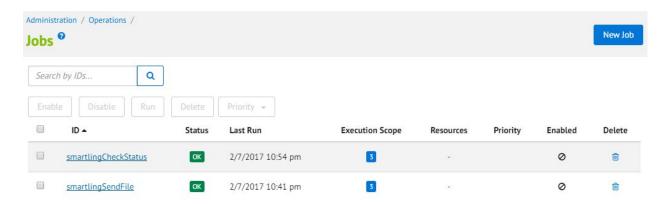
4.2.1. Setup Site Preferences

For Smartling functionality to be enabled, you will need to enter your Smartling API key and Project ID (available on request from your Smartling Client Services Manager) on the **preferences** page of your Demandware instance (see 4.2 Configuration).



4.2.2 Jobs Setup - Check Status and Send File

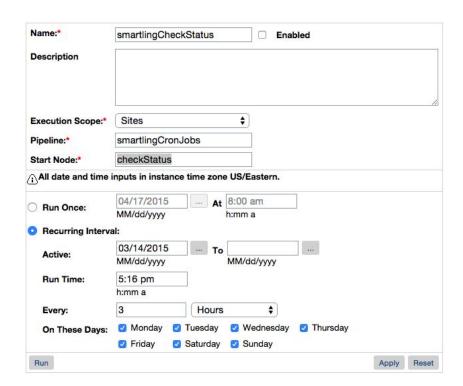
Check status and send file jobs will run at regular intervals. This will run Updates/Download/Status calls by triggering the export pipeline.



Open the smartlingCheckStatus job to edit the Cron settings.

Keep in mind that you must assign the job to your current site under the <u>Step Configuration</u> tab. You can name the job whatever you like. Then set the following values:

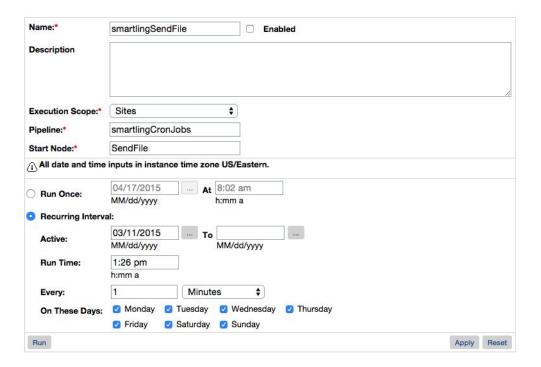
Pipeline: smartlingCronJobsStartNode: checkStatus



Send file has almost the same settings except for the following:



StartNode: SendFile



4.3 External Interfaces List

Action	API Call	Method
Uploads	https://api.smartling.com/v1/file/upload	POST
Downloads	https://api.smartling.com/v1/file/get	GET
Status	https://api.smartling.com/v1/file/get	GET



Apply Reset

5. Operations & Maintenance

5.1 Data Storage

Smartling using two types of custom object for saving data:

SMARTLING_SUBMISSION

Site

Storage Scope:*

Retention:

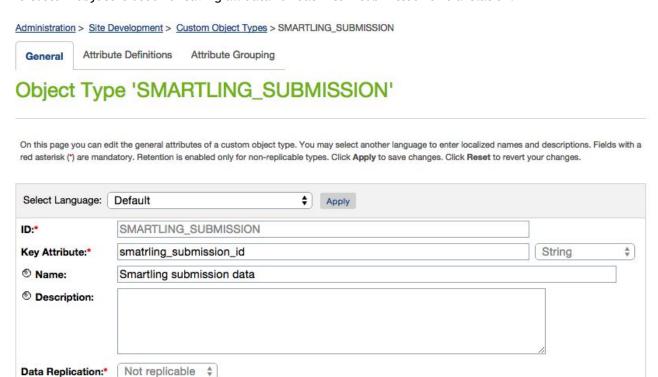
*

days

SMARTLING_LOCALES

5.1.1 SMARTLING_SUBMISSION

This custom object is used for saving all data for each item submitted for translation.





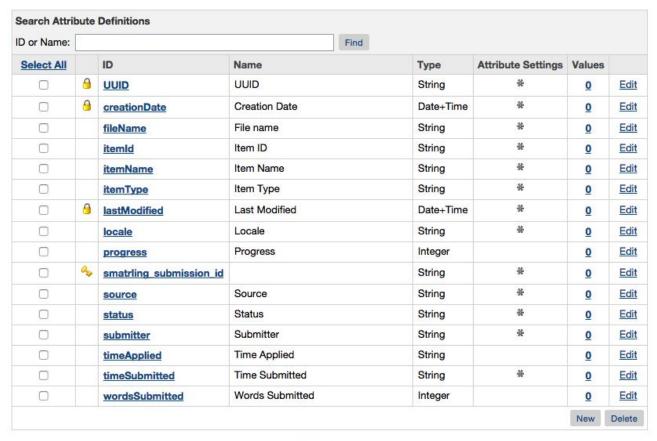
 $\underline{\text{Administration}} > \underline{\text{Site Development}} > \underline{\text{Custom Object Types}} > \text{SMARTLING_SUBMISSION} - \text{Attribute Definitions}$

General Attribute Definitions Attribute Grouping

Object Type 'SMARTLING_SUBMISSION'

This page lists the attribute definitions of your object type. Use the search to find attribute definitions by ID and name.

Click New to create new attribute definitions. Click Delete to delete existing attribute definitions.



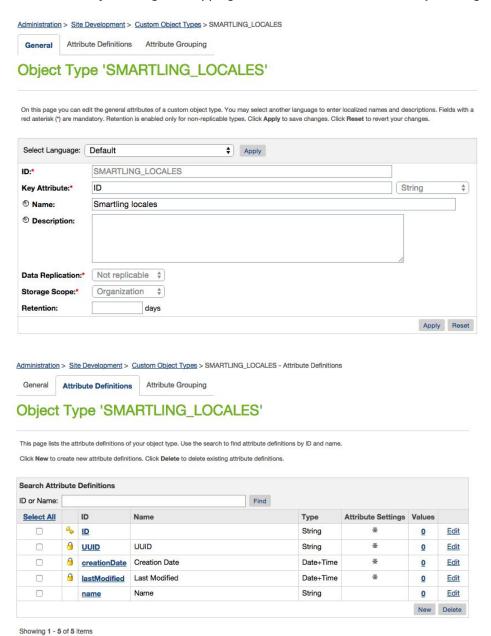
Showing 1 - 16 of 16 items

Show 10 items



5.1.2 SMARTLING_LOCALES

This custom object using for mapping a locale id and locale name on your languages.



5.2 Limitations

Demandware has a limit of maximum 400,000 custom objects in an instance. This limitation affects the submissions storage.

The number of custom object consumed by cartridge can be calculated as **N items multiplied by M languages**.



For example, if you plan to translate 1000 products, 150 categories and 15 Content items for 20 languages, then cartridge will create (1000 + 150 + 15) * 20=23300 custom objects. Also, you should take into account the number of custom objects which are consumed by other cartridges you use.

5.3 Availability

Availability/Uptown is 24/7.

5.4 Support

Contact Smartling support at http://support.smartling.com



6. Release History

Version	Date	Changes
15.1.0	22.10.2015	Initial release
15.2.0	26.10.2015	Callback Service support, refactoring, bug fixes.
17.1.0	03.02.2017	Jobs are moved to new framework, minor improvements, bug fixes