



# 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](https://smartling.com) to find out more.

## 2. Components

### Cartridge Name

- bm\_smartling\_integration

### Pipelines

- CallbackService.xml
- Category.xml
- Configuration.xml
- ContentAsset.xml
- SmartlingProduct.xml
- SmartlingCronJobs.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-definitions.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 → Organization → 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.

	Storefront URLs	Configure storefront URL preferences.	<input checked="" type="checkbox"/>
	Custom Preferences	Configure custom site preferences.	<input checked="" type="checkbox"/>
	Smartling configuration	Smartling configuration for this site.	<input checked="" type="checkbox"/>
	Smartling		<input type="checkbox"/>
	Product translation	Submit product data for translation	<input checked="" type="checkbox"/>
	Category translation	Submit category data for translation	<input checked="" type="checkbox"/>
	Content assets translation	Submit content assets for translation	<input checked="" type="checkbox"/>
	Submissions Board	Manage translation submissions	<input checked="" type="checkbox"/>
			<a href="#">Update</a>

<< [Back to List](#)

#### 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'.

Administration > Sites > Manage Sites > Sites-Site - Settings

Settings Cache

### Sites-Site - Settings

Click **Apply** to save the details. Click **Reset** to revert to the last saved state.

Instance Type:	Sandbox/Development
<small>Deprecated. The preferred way of configuring HTTP and HTTPS hostnames is by using new features of the site aliases configuration (Site URLs/Aliases Configuration). The HTTP/HTTPS hostnames values set in this section will be used if no hostnames are defined by aliases configuration and are intended only to support an older configuration style.</small>	
HTTP Hostname:	
HTTPS Hostname:	
Instance Type: All	
Cartridges:	bm_custom_plugin:bm_smartling_integration
Effective Cartridge Path:	app_business_manager:bc_api:bc_impex:bc_search:bc_analytics:bc_transaction:bc_catalog:core:bm_custom_plugin:bm_smartling_integration:customization_defaults
<div>Apply Reset</div>	

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#### 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

Preference Name	Value	Default Value
API URL:	<input type="text" value="https://capi.smartling.com/v1/"/>	https://capi.smartling.com/v1
Project ID:	<input type="text" value="c914e7b05"/>	
API key:	<input type="text" value="*****_****_*****"/>	
Retrieval type:	<input type="text" value="Pseudo"/>	
Source locale:	<input type="text" value="default"/>	
Auto authorize content:	<input checked="" type="checkbox"/>	true
API time out:	<input type="text" value="4500"/>	10000
Target locales:	<a href="#">Check All / Uncheck All</a> <input type="checkbox"/> default <input checked="" type="checkbox"/> French (France) <input type="text" value="fr-FR"/> <input checked="" type="checkbox"/> German (Germany) <input type="text" value="de-DE"/> <input checked="" type="checkbox"/> Chinese (China) <input type="text" value="zh-CN"/>	
Content attributes:	<a href="#">Check All / Uncheck All</a> <input checked="" type="checkbox"/> Name <input checked="" type="checkbox"/> Description <input type="checkbox"/> Page URL <input checked="" type="checkbox"/> Page Description <input checked="" type="checkbox"/> Page Title <input checked="" type="checkbox"/> Page Keywords	
Category attributes:	<a href="#">Check All / Uncheck All</a> <input checked="" type="checkbox"/> Name <input checked="" type="checkbox"/> Description <input type="checkbox"/> Page URL <input checked="" type="checkbox"/> Page Description <input checked="" type="checkbox"/> Page Title <input checked="" type="checkbox"/> Page Keywords	
Product attributes:	<a href="#">Check All / Uncheck All</a> <input checked="" type="checkbox"/> Name <input checked="" type="checkbox"/> Description <input checked="" type="checkbox"/> Product Details <input type="checkbox"/> Page URL <input checked="" type="checkbox"/> Page Description <input checked="" type="checkbox"/> Page Title <input checked="" type="checkbox"/> Page Keywords	
Additional catalogs:	<input type="text" value="apparel-catalog, electronics-catalog"/>	apparel-catalog, electronics-catalog
Content library type:	<input type="text" value="Shared"/>	private

### ***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.

Administration / Operations /

Jobs <sup>?</sup>

New Job

Search by IDs...

Enable

Disable

Run

Delete

Priority ▾

<input type="checkbox"/>	ID ▴	Status	Last Run	Execution Scope	Resources	Priority	Enabled	Delete
<input type="checkbox"/>	<a href="#">smartlingCheckStatus</a>	OK	2/7/2017 10:54 pm	3	-		⊘	
<input type="checkbox"/>	<a href="#">smartlingSendFile</a>	OK	2/7/2017 10:41 pm	3	-		⊘	

Open the smartlingCheckStatus job to edit the Cron settings.

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

- **Pipeline:** smartlingCronJobs
- **StartNode:** checkStatus

**Name:**  ☐ Enabled

**Description**

**Execution Scope:**

**Pipeline:**

**Start Node:**

All date and time inputs in instance time zone US/Eastern.

☐ **Run Once:**     
MM/dd/yyyy h:mm a

☒ **Recurring Interval:**

**Active:**     
MM/dd/yyyy MM/dd/yyyy

**Run Time:**   
h:mm a

**Every:**

**On These Days:** ☒ Monday ☒ Tuesday ☒ Wednesday ☒ Thursday  
☒ Friday ☒ Saturday ☒ Sunday

Run

Apply

Reset

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

- **StartNode: SendFile**

**Name:\***

☐ **Enabled**

**Description**

**Execution Scope:\***

Sites

**Pipeline:\***

**Start Node:\***

*⚠ All date and time inputs in instance time zone US/Eastern.*

☐ **Run Once:**

MM/dd/yyyy

**At**


h:mm a

☒ **Recurring Interval:**

**Active:**

MM/dd/yyyy

**To**


MM/dd/yyyy

**Run Time:**


h:mm a

**Every:**


Minutes

**On These Days:**
☒ Monday
 ☒ Tuesday
 ☒ Wednesday
 ☒ Thursday
 ☒ Friday
 ☒ Saturday
 ☒ Sunday

## 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

## 5. Operations & Maintenance

### 5.1 Data Storage

Smartling uses two types of custom object for saving data:

- SMARTLING\_SUBMISSION
- SMARTLING\_LOCALES

#### 5.1.1 SMARTLING\_SUBMISSION

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

[Administration](#) > [Site Development](#) > [Custom Object Types](#) > SMARTLING\_SUBMISSION

**General**

Attribute Definitions

Attribute Grouping

### Object Type 'SMARTLING\_SUBMISSION'

On this page you can edit the general attributes of a custom object type. You may select another language to enter localized names and descriptions. Fields with a red asterisk (\*) are mandatory. Retention is enabled only for non-replicable types. Click **Apply** to save changes. Click **Reset** to revert your changes.

Select Language:	Default	Apply
ID:*	SMARTLING_SUBMISSION	
Key Attribute:*	smatrling_submission_id	String
Name:	Smartling submission data	
Description:		
Data Replication:*	Not replicable	
Storage Scope:*	Site	
Retention:		
	days	
		Apply Reset

[Administration](#) > [Site Development](#) > [Custom Object Types](#) > SMARTLING\_SUBMISSION - 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.

Search Attribute Definitions						
ID or Name:			<input type="text"/>			
			<input type="button" value="Find"/>			
Select All	ID	Name	Type	Attribute Settings	Values	
<input type="checkbox"/>	 <a href="#">UUID</a>	UUID	String	*	<u>0</u>	<a href="#">Edit</a>
<input type="checkbox"/>	 <a href="#">creationDate</a>	Creation Date	Date+Time	*	<u>0</u>	<a href="#">Edit</a>
<input type="checkbox"/>	<a href="#">fileName</a>	File name	String	*	<u>0</u>	<a href="#">Edit</a>
<input type="checkbox"/>	<a href="#">itemId</a>	Item ID	String	*	<u>0</u>	<a href="#">Edit</a>
<input type="checkbox"/>	<a href="#">itemName</a>	Item Name	String	*	<u>0</u>	<a href="#">Edit</a>
<input type="checkbox"/>	<a href="#">itemType</a>	Item Type	String	*	<u>0</u>	<a href="#">Edit</a>
<input type="checkbox"/>	 <a href="#">lastModified</a>	Last Modified	Date+Time	*	<u>0</u>	<a href="#">Edit</a>
<input type="checkbox"/>	<a href="#">locale</a>	Locale	String	*	<u>0</u>	<a href="#">Edit</a>
<input type="checkbox"/>	<a href="#">progress</a>	Progress	Integer		<u>0</u>	<a href="#">Edit</a>
<input type="checkbox"/>	 <a href="#">smatrling_submission_id</a>		String	*	<u>0</u>	<a href="#">Edit</a>
<input type="checkbox"/>	<a href="#">source</a>	Source	String	*	<u>0</u>	<a href="#">Edit</a>
<input type="checkbox"/>	<a href="#">status</a>	Status	String	*	<u>0</u>	<a href="#">Edit</a>
<input type="checkbox"/>	<a href="#">submitter</a>	Submitter	String	*	<u>0</u>	<a href="#">Edit</a>
<input type="checkbox"/>	<a href="#">timeApplied</a>	Time Applied	String		<u>0</u>	<a href="#">Edit</a>
<input type="checkbox"/>	<a href="#">timeSubmitted</a>	Time Submitted	String	*	<u>0</u>	<a href="#">Edit</a>
<input type="checkbox"/>	<a href="#">wordsSubmitted</a>	Words Submitted	Integer		<u>0</u>	<a href="#">Edit</a>
					<input type="button" value="New"/>	<input type="button" value="Delete"/>

Showing 1 - 16 of 16 items

Show  items

## 5.1.2 SMARTLING\_LOCALES

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

[Administration](#) > [Site Development](#) > [Custom Object Types](#) > SMARTLING\_LOCALES

**General** Attribute Definitions Attribute Grouping

### Object Type 'SMARTLING\_LOCALES'

On this page you can edit the general attributes of a custom object type. You may select another language to enter localized names and descriptions. Fields with a red asterisk (\*) are mandatory. Retention is enabled only for non-replicable types. Click **Apply** to save changes. Click **Reset** to revert your changes.

Select Language: Default Apply

**ID:\***

**Key Attribute:\***  String

**Name:**

**Description:**

**Data Replication:\*** Not replicable

**Storage Scope:\*** Organization

**Retention:**  days

Apply Reset





[Administration](#) > [Site Development](#) > [Custom Object Types](#) > SMARTLING\_LOCALES - Attribute Definitions

**General** **Attribute Definitions** Attribute Grouping

### Object Type 'SMARTLING\_LOCALES'

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.

Search Attribute Definitions						
ID or Name: <input type="text"/>			<span>Find</span>			
Select All	ID	Name	Type	Attribute Settings	Values	
<input type="checkbox"/>	 <a href="#">ID</a>		String	*	0	<a href="#">Edit</a>
<input type="checkbox"/>	 <a href="#">UUID</a>	UUID	String	*	0	<a href="#">Edit</a>
<input type="checkbox"/>	 <a href="#">creationDate</a>	Creation Date	Date+Time	*	0	<a href="#">Edit</a>
<input type="checkbox"/>	 <a href="#">lastModified</a>	Last Modified	Date+Time	*	0	<a href="#">Edit</a>
<input type="checkbox"/>	<a href="#">name</a>	Name	String		0	<a href="#">Edit</a>
						<span>New</span> <span>Delete</span>

Showing 1 - 5 of 5 items

## 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/Uptime 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