



# CrownPeak Translation Model Framework

Version 0.91

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## Document History

Author/Editor	Date	Reason for Change	Version
Greg Aimone	12/10/2013	Draft	0.90
Jason Yoo	3/10/2014	Add TMF Configurations	0.91

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## CrownPeak Translation Model Framework Overview

The Translation Model Framework (TMF) is a collection of templates created and managed by CrownPeak Professional Services that provides the CrownPeak authoring community the ability to manage multi-lingual content within a site, or localization activities across sites.

CrownPeak subscribers that have any of the following needs, should consider leveraging the CrownPeak TMF in their next initiative:

- Managing sites of a multi-lingual nature (i.e. English and Spanish versions of the US site)
- Managing sites with similar content and structure, that will be localized for each regional deployment (North America site, Canada site, Mexico site)
- Managing content that has a single point of origination, with requirements to derive and deploy multiple versions of the content.

The CrownPeak Translation Model Framework provides features that enable content teams to effectively leverage their investment in CrownPeak to meet these challenges.

## Translation Model Framework - Benefits

The TMF feature:

- Can be added to any existing CrownPeak configuration at any time.
- Enables effective collaboration between content owners.
- Provides notifications when master content has changed.
- Provides authors the ability to review change in the master content, for incorporation into their derived content set.
- Provides the ability to selectively send content out to a translation service.
- Can be used with a variety of translation services, or supports localization by regional content owners.

## Business Process Guide for the TMF Configuration

The Translation Model Framework can be configured to support many different processes. Before starting the configuration, it is beneficial to solidify the scope of the configuration.

- What will the master content be? Will it be the US-English site for the corporate site?
- How will the content be translated/localized? Is it the whole site, or just parts of the site?
  - Are there URL considerations for these sites (mysite.com/US-EN | mysite.com/US-ES vs. mysite.com/EN | mysite.ca/EN | mysite.ca/FR)
- How will the translation/localization happen? Will in-region personnel provide the translation, or will an external service be involved?
  - If a service will be involved, is there an existing business relationship between the customer and the translation service provider, or will contracts need to be established?
  - If a service will be involved, will they exchange content electronically (as do all the Service Providers listed in the CrownPeak marketplace)?
- Can the standard workflow be extended to support the translation process? For example, all DRAFT content can be selectively (or automatically) sent out for translation as a part of the workflow steps. When localized content is received, the workflow can advance requesting review.
- How will the process for the initial content migration be different from ongoing content updates?
  - For example, all of the US EN content

## Configuring the TMF

Once the Business Process is understood CrownPeak will confirm the TMF Design with the customer.

- CrownPeak will confirm the workflow configuration changes for Translation states
- CrownPeak will confirm the alerts/notification configuration for authors
- CrownPeak will confirm the extent of the template changes for Translation formats
- CrownPeak will confirm the extent of the publishing packages and jobs for processing Translation files

CrownPeak will work directly with the translation service provider to

- Confirm Inbox/Outbox file processing
- Confirm XML formats for Inbox/Outbox processing

CrownPeak will add the TMF templates into the configuration from the Professional Services Library.

CrownPeak will configure the TMF per project specifications, and will conclude with the User Training and Acceptance Testing

Once the Business Process is understood, configuring the TMF will be configured in the following way:

TMF Library - The following classes need to be created in /System/Library/ directory. Please make sure to create

TMFGeneralFunctions.cs first since most of the core functions live in TMFGeneralFunctions.cs and other library files are using them.

Type	Label
	TMFPostSave.cs
	TMFPostInput.cs
	TMFOutput.cs
	TMFInput.cs
	TMFGeneralFunctions.cs

TMF Library

- TMFGeneralFunctions.cs
- TMFInput.cs
- TMFOutput.cs
- TMFPostInput.cs
- TMFPostSave.cs

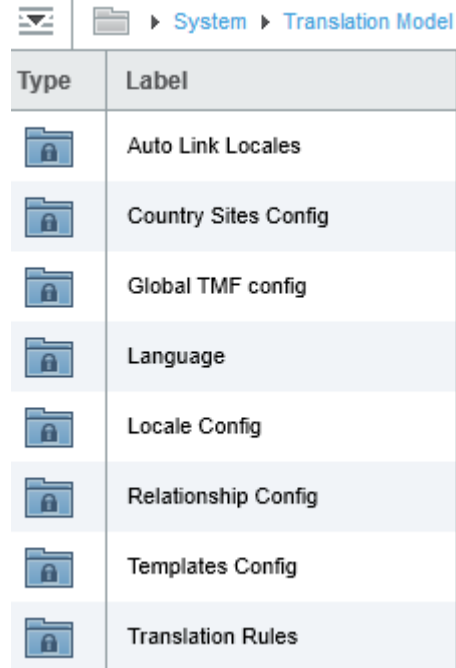
### Core Configuration









Create TMF configuration folders/files in **/System/Translation Model Framework** directory - Templates, Models, and Assets are core configuration that power the TMF.

Type	Label	Status	Changed By	Change...
	_Assets		Simon Gentner	5/7/2013 9:57:05 AM
	_Models		Simon Gentner	5/7/2013 9:57:18 AM
	_Templates		Jason Yoo	6/12/2013 2:41:26 PM
	Global		Jason Yoo	6/12/2013 2:34:57 PM

TMF Configuration Folders

- \_Assets
- JS, CSS, Images
- \_Templates



Type	Label
	Auto Link Locales
	Country Sites Config
	Global TMF config
	Language
	Locale Config
	Relationship Config
	Templates Config
	Translation Rules

*TMF Assets*

- Auto Link Locales (input.aspx, output.aspx)
- Country Sites Config (input.aspx, post\_input.aspx)
- Global TMF Config (input.aspx, post\_input.aspx, post\_save.aspx)
- Languages (input.aspx, post\_input.aspx)
- Locale Config (input.aspx, post\_input.aspx)
- Relationship Config (input.aspx, post\_input.aspx)
- Templates Config (input.aspx)
- Translation Rules (input.aspx, post\_input.aspx)
- \_Models

Type	Label
	Country Site
	Language
	Locale
	Relationship
	Site
	Translation rules

TMF Templates

Model	Template Path
Country Site	/System/Translation Model Framework/_Templates/Country Sites Config
Language	/System/Translation Model Framework/_Templates/Languages
Locale	/System/Translation Model Framework/_Templates/Locale Config
Relationship	/System/Translation Model Framework/_Templates/Relationship Config
Translation Rule	/System/Translation Model Framework/_Templates/Translation Rules

**Note:** The latest version of the library classes/templates are available on Diageo instance. TMF library will be part of the CrownPeak Services Library soon.






Setup Global Configuration (**/System/Translation Model Framework/Global**) - Countries and Languages need to be pre-defined in order to add in each site.

- Country Sites
- Languages



## Backend Configurations

There must be a **\_TMF** folder in the site directory. **\_TMF** folder should contain the following folders:

Type	Label
	Country Sites Config
	Languages Config
	Locales Config
	Relationships Config
	TMF Config

*TMF Directory Folders*

- **Country Sites Config** - Countries are not just limited to "countries", but in fact can be used to define any geographical region, such as state (CA, NY, etc), continent (North America, Europe), political regions (Middle East, Indian SubContinent), etc. Globally configured countries will be available in this folder.
- **Languages Config** - Languages describe the language(s) available for the TMF to manage. Globally configured languages will be available in this folder.
- **Locales Config** - A locale is a relationship of a Language and Country, and more importantly the actual content in the CMS to be identified as belonging to that Locale.
- **Relationships Config** - TMF stores information about master/derived relationships and master history for each asset. There is no need to manually create or change any assets in this folder.

**TMF Config**

- **Auto Link Locale** - This asset allows administrators to perform initial TMF setup and create relationships between selected locales based on the CMS Folder Structure. The TMF will loop through all the assets in the Source Locale folder, search for matching assets in Destination Locale folder and create relationship if matching asset is found.
- **Templates Configuration** - This configuration asset allows you to select which templates and fields will be processed by the TMF.

Folder	Model
Country Sites Config	/System/Translation Model Framework/_Models/Country Site
Languages Config	/System/Translation Model Framework/_Models/Language
Locales Config	/System/Translation Model Framework/_Models/Locale
Relationships Config	/System/Translation Model Framework/_Models/Relationship

**Note:** The listed models should be applied to each folder.

Asset in 'TMF Config' Folder	Template
Auto Link Locale	/System/Translation Model Framework/_Templates/Auto Link Locale
Templates Configuration	/System/Translation Model Framework/_Templates/Templates Config

Install TMF – For the TMF to work properly, input/output/output\_changes/post\_input/post\_save template files must contain TMF include code.

- input.aspx - TMFInput.LoadInput(asset, context);
- output.aspx - TMFOutput.LoadOutput(asset, context);
- output\_changes.aspx - TMFOutput.LoadMasterAssetChanges(asset);
- post\_input.aspx - TMFPostInput.LoadPostInput(asset, context);
- post\_save.aspx - TMFPostSave.LoadPostSave(asset, context);

*(Optional)* Configuring Translation Service Provider



## Using TMF to Manage Content

Once the configuration is complete, CrownPeak will conduct user training as a part of User Acceptance testing.

CrownPeak will review the TMF in the context of the business process, confirming the proper operations for:

- Country/Region Configuration
- Language Configuration
- Locale Configuration, and Content Folders and Owners
- Workflow
- Alerts
- Integrations with the Translation Service Provider
- Applying Changes to the Master Content
- Approving Translated Content
- Declining Translated Content
- Declining a request to Translate Content

Any issues or additional changes requested will be processed as a part of the final configuration tuning.

Once the User Acceptance Testing is completed, normal operations will commence, the configuration project will end, and operations will be supported by CrownPeak's Absolute Service team.

## Notes and Additional Information

More information can be found:

The Translation Model Framework whitepaper <https://connect.crownpeak.com/>

Using the TMF webinar recording <https://connect.crownpeak.com/>

### Implementation Guidelines

In general, a TMF project takes about 24-40 hours to configure from a business process specification. Gathering the business requirements may take as much as 16 hours depending on documentation levels required. UAT and tuning the configuration may add 16 hours to an existing UAT, or may require 24 hours for a stand-alone configuration as: 8 hours of training, 16 hours of support across a 5 day UAT window.