

2014

Templar Globalization

This document provides an overview of Templar's globalization features and flow



If you have comments /queries about this documentation, email them to:

templar@tavisca.com

Contents

1. Templar Globalization Support	4
2. Defining Culture.....	4
Culture Resource.....	5
Culture Content (files).....	5
Culture Settings.....	5
1. Date Time Settings	6
2. Monetary Settings.....	6
3. Number Settings	6
4. Month Names	7
5. Day Names	7
6. Miscellaneous Settings.....	7
7. Additional Information.....	8
3. Different levels of defining culture.....	9
Widget Level Culture.....	9
Global Level Culture	11
Site Level Culture	12
WidgetInstance Level Culture (This will get deprecated from v1.6 onwards).....	15
4. Culture Settings resolution at exceution time	17
5. Culture Resource/Content resolution at exceution time	18

Templar Globalization Support

Globalization is the process of designing and developing applications that function for multiple cultures. It enables applications to adopt their display interface both visual and textual depending on the origin of request or some preconfigured rules.

Templar Globalization via culture offers a way for applications and/or widget to adopt their content to a specific country and/or language. Templar enables customized cultures to be created. A single instance of culture has format settings such as date, time, currency and number formatting information. A culture would also have translated language content and resources like images, media and other files for a particular country and/or language setting.

- a. Resources - text based key value pairs listing and their management options
- b. Content - all culture based files and their management
- c. Settings - date, numbers, money and other format settings

Defining Culture

Templar allows defining globalization culture at 4 different levels. At every level adding / updating a culture has a very similar experience. This also holds true for flow of inserting culture information to different level. Let's take a look at adding information of culture en-US. We will look at listing interface & creating culture at different levels later on.

Add Culture Update Culture		Search Culture : <input type="text"/>									
No	Culture Name	Culture Code	Created on	Last published	Status	Load	Upload	Download	History	Publish	Delete
1	English - United States	en-US	09 Sep 2013	2 min 16 sec							
2	Hindi	hi	09 Sep 2013	1 min 54 sec							

- Add culture – allows new culture creation by selecting a country and/or language.
- Update culture –allows current cultures to be compared and updated with existing cultures in the current deployment. Also allows remote comparison and update of cultures if the user has access to a remote Templar deployment.
- Created on and Last published – displays information about culture create date and time span since last publish.
- Load – this drills down into the current culture and displays all its details along with a management interface for Upload - allow culture to be updated with an external culture set upload
- Download – allows the existing culture to be downloaded as a zip which can be saved for backup or to create culture(s) in different deployment
- History – flow for viewing existing culture versions and also allows new version creation. It also has a diff feature where you can compare an older version of the culture with the current version
- Publish – this allows the complete culture to be published to live
- Delete – allows culture deletion. Please note this would delete all versions (including live version) and history for the culture so please use this feature with caution

Culture Resource

Resources are string which are meant to be change/displayed in context of culture it is viewing
Key for culture resource is unique at one level of culture definition.





















Resources			Add Resource	Contents	Add Content	Settings	Search Resource : Hotel		
No	Key	Value	Comment	Translation Setting	Action				
1	HotelDetailsWidget.Amenities	Amenities		AutoTranslate	 				
2	HotelDetailsWidget.Description	Description		AutoTranslate	 				
3	HotelDetailsWidget.Map	Map		AutoTranslate	 				
4	HotelDetailsWidget.Photos	Photos		AutoTranslate	 				
5	HotelFilterWidget.AnyStar	Any		AutoTranslate	 				
6	HotelFilterWidget.CityName	City Name		AutoTranslate	 				
7	HotelFilterWidget.FiveStar	5 Star		AutoTranslate	 				
8	HotelFilterWidget.FourStar	4 Star		AutoTranslate	 				
9	HotelFilterWidget.HotelFilter	Hotel Filter		AutoTranslate	 				
10	HotelFilterWidget.HotelName	Hotel Name		AutoTranslate	 				
						First Previous 1 2 3 Next Last			

Figure above shows listing of culture resource keys and their values in selected 'en-US' culture

Culture Content (files)

Content are the files needs to be varying according to culture.

E.g. Image containing text inside it. Or Terms are condition page in particular language.

Key for culture resource is unique at one level of culture definition.







Resources						Add Resource	Contents	Add Content	Settings
Key		Content		Comment					
<input type="text"/>		<input type="button" value="Browse..."/> No file selected.		<input type="text"/>		<input type="button" value="Add"/>		<input type="button" value="Cancel"/>	
No	Key	Thumbnail	Comment	Preview	Delete				
1	101		Test .jpg file.	Open					
2	TestKey		Test content.	Open					
3	TestPdf		For testing purpose.	Open					

Figure above shows listing of culture content keys and their values in selected 'en-US' culture.

Culture Settings

This section shows all the defined settings for the selected culture.

Load Default helps populate initial default value, Dropdown list enlist few of default values mostly used.

Settings need to be explicitly saved.

Culture inheritance option (new)

If Culture is defined at site level, & site already has same culture added from global cultures. Then Templar provides option to inherit settings from global culture. So making changes in global cultures settings will impact settings of all corresponding inherited cultures in site.

1. Date Time Settings

Resources Add Resource Contents Add Content **Settings**

Culture Settings (Changes needs to be explicitly saved) Load Defaults Save

Date & Time Monetary Numbers Months Days Miscellaneous Additional Info

Short Date Format	M/d/yyyy	M/d/yyyy
Long Date Format	MMM dd, yyyy	ddd, MMMM dd, yyyy
Time Format	h:mm tt	h:mm:ss tt
Date Separator	/	/
Time Separator	:	:
AM Designator	am	
PM Designator	pm	

2. Monetary Settings

Resources Add Resource Contents Add Content **Settings**

Culture Settings (Changes needs to be explicitly saved) Load Defaults Save

Date & Time **Monetary** Numbers Months Days Miscellaneous Additional Info

Currency Code	USD	USD
Currency Symbol	INR	\$
Negative Currency Format	(\$1.1)	(\$1.1)
Positive Currency Format	\$1.1	\$1.1

3. Number Settings

Resources Add Resource Contents Add Content **Settings**

Culture Settings (Changes needs to be explicitly saved) Load Defaults Save

Date & Time Monetary **Numbers** Months Days Miscellaneous Additional Info

Decimal Digits	2	2
Decimal Symbol	.	.
Group Separator	,	,
Digit Grouping	3	123,456,789
Positive Symbol	+	+
Negative Symbol	-	-
Negative Number Format	(1.1)	(1.1)

4. Month Names

Resources			Add Resource	Contents	Add Content	Settings																																						
Culture Settings (Changes needs to be explicitly saved)						<input type="button" value="Load Defaults"/> <input type="button" value="Save"/>																																						
Date & Time	Monetary	Numbers	Months	Days	Miscellaneous	Additional Info																																						
			<table> <thead> <tr> <th></th> <th>Short Name</th> <th>Full Name</th> </tr> </thead> <tbody> <tr><td>1</td><td><input type="text" value="Jan"/></td><td><input type="text" value="January"/></td></tr> <tr><td>2</td><td><input type="text" value="Feb"/></td><td><input type="text" value="February"/></td></tr> <tr><td>3</td><td><input type="text" value="Mar"/></td><td><input type="text" value="March"/></td></tr> <tr><td>4</td><td><input type="text" value="Apr"/></td><td><input type="text" value="April"/></td></tr> <tr><td>5</td><td><input type="text" value="May"/></td><td><input type="text" value="May"/></td></tr> <tr><td>6</td><td><input type="text" value="Jun"/></td><td><input type="text" value="June"/></td></tr> <tr><td>7</td><td><input type="text" value="Jul"/></td><td><input type="text" value="July"/></td></tr> <tr><td>8</td><td><input type="text" value="Aug"/></td><td><input type="text" value="August"/></td></tr> <tr><td>9</td><td><input type="text" value="Sep"/></td><td><input type="text" value="September"/></td></tr> <tr><td>10</td><td><input type="text" value="Oct"/></td><td><input type="text" value="October"/></td></tr> <tr><td>11</td><td><input type="text" value="Nov"/></td><td><input type="text" value="November"/></td></tr> <tr><td>12</td><td><input type="text" value="Dec"/></td><td><input type="text" value="December"/></td></tr> </tbody> </table>		Short Name	Full Name	1	<input type="text" value="Jan"/>	<input type="text" value="January"/>	2	<input type="text" value="Feb"/>	<input type="text" value="February"/>	3	<input type="text" value="Mar"/>	<input type="text" value="March"/>	4	<input type="text" value="Apr"/>	<input type="text" value="April"/>	5	<input type="text" value="May"/>	<input type="text" value="May"/>	6	<input type="text" value="Jun"/>	<input type="text" value="June"/>	7	<input type="text" value="Jul"/>	<input type="text" value="July"/>	8	<input type="text" value="Aug"/>	<input type="text" value="August"/>	9	<input type="text" value="Sep"/>	<input type="text" value="September"/>	10	<input type="text" value="Oct"/>	<input type="text" value="October"/>	11	<input type="text" value="Nov"/>	<input type="text" value="November"/>	12	<input type="text" value="Dec"/>	<input type="text" value="December"/>		
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12	<input type="text" value="Dec"/>	<input type="text" value="December"/>																																										

5. Day Names

Resources			Add Resource	Contents	Add Content	Settings																								
Culture Settings (Changes needs to be explicitly saved)						<input type="button" value="Load Defaults"/> <input type="button" value="Save"/>																								
Date & Time	Monetary	Numbers	Months	Days	Miscellaneous	Additional Info																								
				<table> <thead> <tr> <th></th> <th>Short Name</th> <th>Full Name</th> </tr> </thead> <tbody> <tr><td>1</td><td><input type="text" value="Sun"/></td><td><input type="text" value="Sunday"/></td></tr> <tr><td>2</td><td><input type="text" value="Mon"/></td><td><input type="text" value="Monday"/></td></tr> <tr><td>3</td><td><input type="text" value="Tue"/></td><td><input type="text" value="Tuesday"/></td></tr> <tr><td>4</td><td><input type="text" value="Wed"/></td><td><input type="text" value="Wednesday"/></td></tr> <tr><td>5</td><td><input type="text" value="Thu"/></td><td><input type="text" value="Thursday"/></td></tr> <tr><td>6</td><td><input type="text" value="Fri"/></td><td><input type="text" value="Friday"/></td></tr> <tr><td>7</td><td><input type="text" value="Sat"/></td><td><input type="text" value="Saturday"/></td></tr> </tbody> </table>		Short Name	Full Name	1	<input type="text" value="Sun"/>	<input type="text" value="Sunday"/>	2	<input type="text" value="Mon"/>	<input type="text" value="Monday"/>	3	<input type="text" value="Tue"/>	<input type="text" value="Tuesday"/>	4	<input type="text" value="Wed"/>	<input type="text" value="Wednesday"/>	5	<input type="text" value="Thu"/>	<input type="text" value="Thursday"/>	6	<input type="text" value="Fri"/>	<input type="text" value="Friday"/>	7	<input type="text" value="Sat"/>	<input type="text" value="Saturday"/>		
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6	<input type="text" value="Fri"/>	<input type="text" value="Friday"/>																												
7	<input type="text" value="Sat"/>	<input type="text" value="Saturday"/>																												

6. Miscellaneous Settings

Resources			Add Resource	Contents	Add Content	Settings
Culture Settings (Changes needs to be explicitly saved)						<input type="button" value="Load Defaults"/> <input type="button" value="Save"/>
Date & Time	Monetary	Numbers	Months	Days	Miscellaneous	Additional Info
					<p>Text Direction <input type="text" value="Left to Right"/></p> <p>Metric System <input type="text" value="Metric"/></p> <p>Yes <input type="text" value="Yes"/></p> <p>No <input type="text" value="No"/></p>	

7. Additional Information

The screenshot shows the 'Culture Settings' window with the 'Additional Info' tab selected. The window title is 'Culture Settings (Changes needs to be explicitly saved)'. The top navigation bar includes 'Resources', 'Add Resource', 'Contents', 'Add Content', and 'Settings'. The 'Settings' tab is active, and the 'Additional Info' sub-tab is selected. The main area is empty, with a table header showing 'Key', 'Value', and 'Actions'. An 'Add' button is visible in the top right corner of the table area.

New Feature: Smart default values

Post version V1.6 we have added support for default values. When new culture is created, default values for the culture settings are automatically populated.

Even after creation, at any given point if culture needs to load default settings “Load Defaults” button is provided.

The screenshot shows the 'Culture Settings' window with the 'Date & Time' tab selected. The window title is 'Culture Settings (Changes needs to be explicitly saved)'. The top navigation bar includes 'Resources', 'Add Resource', 'Contents', 'Add Content', and 'Settings'. The 'Settings' tab is active, and the 'Date & Time' sub-tab is selected. The 'Load Defaults' button is highlighted with a blue box. The main area displays various date and time settings with default values:

Setting	Value
Short Date Format	M/d/yyyy
Long Date Format	MMM dd, yyyy
Time Format	h:mm tt
Date Separator	/
Time Separator	:
AM Designator	am
PM Designator	pm

Different levels of defining culture

Templar allows defining globalization culture at 4 different levels,

1. Widget Level
2. Global Level
3. Site Level
4. WidgetInstance Level

Purpose of allowing culture definition at different levels is to allow desired customization of the flow with full reuse of common functionality. Details that are common across applications should be setup at the global level and site specific changes should be done at the site level. Finally Inheritance is supported from global to site level only.

At every level there is support for -

1. Add / Update cultures.
2. Uploading / downloading resources/content/ settings.
3. Publish culture – to have design & live separation

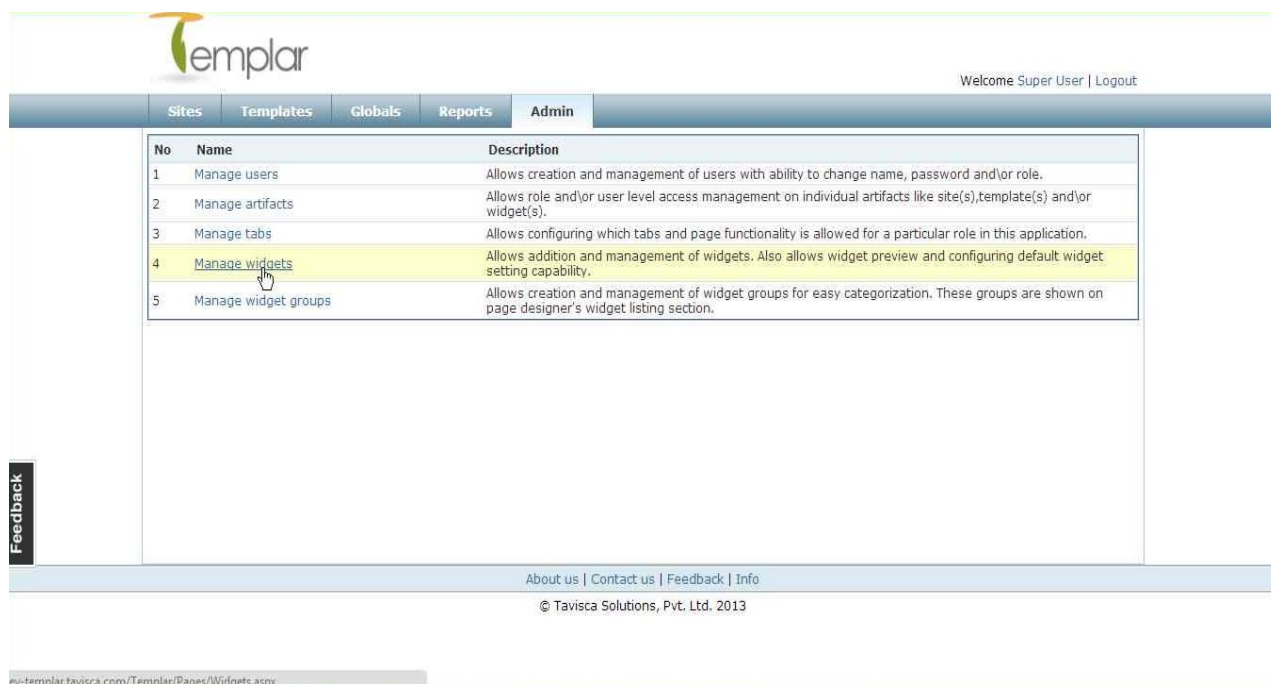
Widget Level Culture

Widget level cultures are root in hierarchy of culture resource/content /setting resolution. Widget level defines default keys & values for any given culture. Widget Level cultures can be managed through Manage Widget Listing in Admin Tab.

Prerequisite: For defining Widget level culture, widget needs to be already registered with Templar framework.

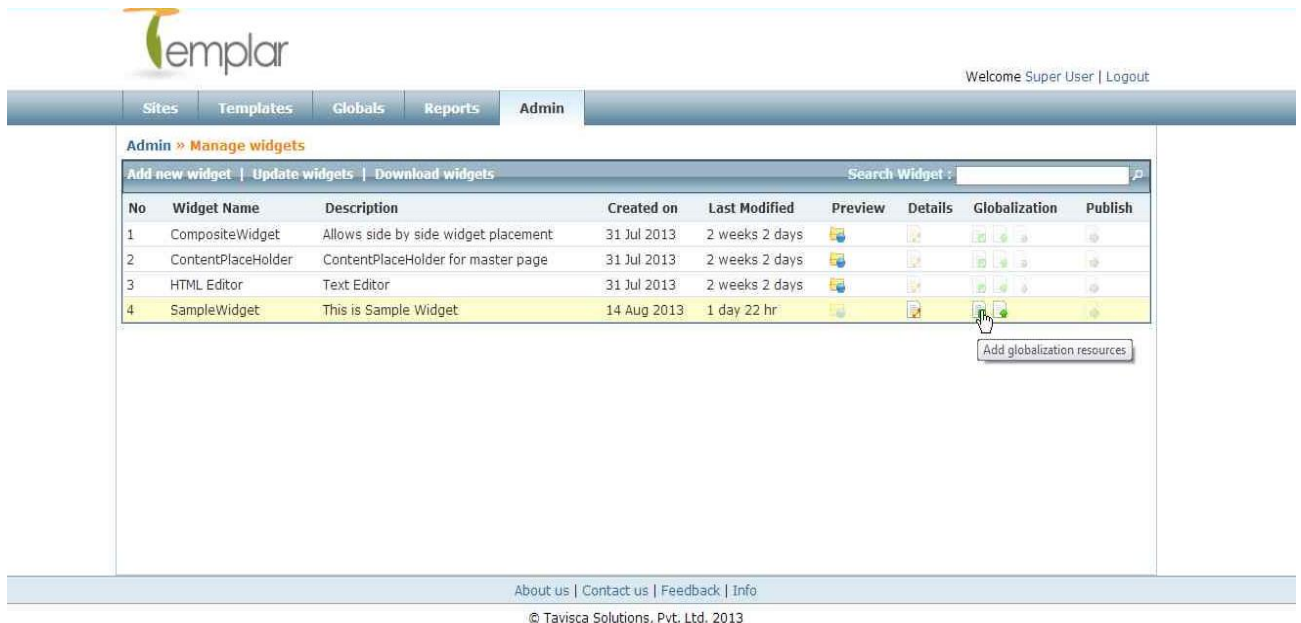
Step 1: Login into Templar & Go to Admin Tab

Step 2: Go to Manage Widgets



Step 3: Select widget for which you want to define cultures.

Note : You can't define culture for Framework in built widgets.
Publish & download link for widget culture only appears when culture is defined for widget.



Admin » Manage widgets

Add new widget | Update widgets | Download widgets

Search Widget :

No	Widget Name	Description	Created on	Last Modified	Preview	Details	Globalization	Publish
1	CompositeWidget	Allows side by side widget placement	31 Jul 2013	2 weeks 2 days				
2	ContentPlaceHolder	ContentPlaceHolder for master page	31 Jul 2013	2 weeks 2 days				
3	HTML Editor	Text Editor	31 Jul 2013	2 weeks 2 days				
4	SampleWidget	This is Sample Widget	14 Aug 2013	1 day 22 hr				

Add globalization resources

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Step 4: Once culture listing is displayed for current widget. You can now add new culture or load existing culture for editing content.



Admin » Manage Widgets » Cultures for AsyncSampleWidget widget

Add Culture | Update Culture

Search Culture :

Language Country

No cultures found.



Admin » Manage Widgets » Cultures for AsyncSampleWidget widget

Add Culture | Update Culture

Search Culture :

No	Culture Name	Culture Code	Created on	Load	Upload	Download	Delete
1	English - United States	en-US	21 Apr 2014				

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Step 5: Rest of steps are common to defining culture.

Global Level Culture

Global level cultures are top second in hierarchy of culture resource/content /setting resolution. Global level defines default keys & values for any given culture, which can be added to multiple sites for inheritance purpose. Global Level cultures can be managed through Global Cultures in Global Tab.

Step 1: Login into Templar & Go to Global Tab.

Step 2: Click on global cultures to get listing.




Welcome [SuperUser](#) | [Logout](#)

Sites	Templates	Globals	Reports	Admin
No	Name	Description		
1	Global Cultures	Manage global cultures. These cultures can be shared across sites.		
2	Global Themes	Manage global themes. These themes can be shared across sites.		

Step 3: You can perform following action at this screen

- Add new Culture
- Load existing culture for editing
- Upload or Download entire single culture
- View versions/ history of cultures
- Publish culture



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Sites	Templates	Globals	Reports	Admin							
Globals » Manage Cultures											
Add Culture Update Culture		Search Culture : <input type="text"/>									
No	Culture Name	Culture Code	Created on	Last published	Status	Load	Upload	Download	History	Publish	Delete
1	English - United States	en-US	09 Sep 2013	20 min 41 sec							
2	Hindi	hi	09 Sep 2013	20 min 20 sec							
3	Chinese - China	zh-CN	21 Apr 2014	18 min 33 sec							

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Step 4: After this operations related to culture content/setting/resources are same as mention at start of defining culture

Site Level Culture

Site level cultures are top third in hierarchy of culture resource/content /setting resolution. Site level culture is meant to override settings/resources for inherited Global level definition (if any). Or completely define new culture specific to site. Site Level cultures can be managed through editing site details.

Step 1: Login into Templar & Goto site Listing

Step 2: Select Site for which you want to define site level culture



Welcome SuperUser | Logout

Sites	Templates	Globals	Reports	Admin								
Create new site Update existing site												
Search site :												
No	Site Name	Site Url	Created on	Last published	Status	Load	Current	Live	Edit	History	Publish	Delete
1	TestSite	TestSite	21 Apr 2014	just now								
2	Travel Store	tstore	09 Sep 2013	7 months 1 week					Edit site settings			

Step 4: Go to Globalisation Tab



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Sites » Edit Site Sample

Site Details	Themes	SFO	Environment Data	Error Handling	Site Layout	Globalization	Resources	Scripts
Global Cultures					Site Cultures			
English-United States					Chuvash-United Kingdom			
					English-United Kingdom			
					English-United States			
Add Global Culture »					Add / Edit Site Culture »			
Override Globalization					Select Culture to Enforce			
					AutoDetect			
					Save Site Cancel			

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Step 4: Inherit Global culture to site (It is not mandatory to inherit from global culture)



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Sites » Edit Site TestSite

Select global cultures to include in site

☐ Cultures

☒ Chinese-China (zh-cn)

☒ English-United States (en-us)

☐ Hindi (hi)

Back Save

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Step 5: Define new site level culture

The screenshot shows the Templar admin interface. The top navigation bar includes 'Sites', 'Templates', 'Globals', 'Reports', and 'Admin'. The 'Sites' tab is active, and the breadcrumb trail is 'Sites » Edit Site Sample'. The 'Globalization' tab is selected within the 'Edit Site Sample' view. It displays two tables: 'Global Cultures' and 'Site Cultures'. The 'Global Cultures' table lists 'English-United Kingdom' and 'English-United States'. The 'Site Cultures' table lists 'Chuvash-United Kingdom', 'English-United Kingdom', and 'English-United States'. Below these tables is an 'Override Globalization' section with a 'Select Culture to Enforce' dropdown set to 'AutoDetect'. At the bottom right are 'Save Site' and 'Cancel' buttons. The footer includes 'About us | Contact us | Feedback | Info' and '© Tavisca Solutions, Pvt. Ltd. 2013'.

The screenshot shows the 'Add Culture' form in the Templar admin interface. The 'Language' dropdown is set to 'Breton' and the 'Country' dropdown is set to 'Ukraine'. There are 'Add' and 'Cancel' buttons. Below the form is a table listing existing cultures:

No	Culture Name	Culture Code	Created on	Load	Active	Upload	Download	Delete
1	English - United States	en-US	21 Apr 2014		<input checked="" type="checkbox"/>			
2	Hindi - India	hi-IN	21 Apr 2014		<input checked="" type="checkbox"/>			
3	English - United Kingdom	en-GB	21 Apr 2014		<input checked="" type="checkbox"/>			

At the bottom right of the table is a 'Back' button. The footer includes 'About us | Contact us | Feedback | Info' and '© Tavisca Solutions, Pvt. Ltd. 2014'.

You can define/override multiple sitelevel culture & also can keep them active / deactivate individually for site level.

After defining you can also select default culture for site. It will be served when invalid request or request for a culture which is not present / added to site is made. Site is viewed in default culture. Once culture is defined rest everything for configuring is same as defining culture.

The screenshot shows the Templar admin interface for 'Edit Site TestSite'. The 'Globalization' tab is selected. It displays two tables: 'Global Cultures' and 'Site Cultures'. The 'Global Cultures' table lists 'Chinese-China', 'English-United States', and 'Hindi'. The 'Site Cultures' table lists 'Breton-Ukraine', 'English-United Kingdom', 'English-United States', and 'Hindi-India'. Below these tables is an 'Override Globalization' section with a 'Select Culture to Enforce' dropdown set to 'AutoDetect'. At the bottom right are 'Save Site' and 'Cancel' buttons. The footer includes 'About us | Contact us | Feedback | Info' and '© Tavisca Solutions, Pvt. Ltd. 2014'.

By default culture is detected for every request from accept header which all modern browser send.

By selecting culture from dropdownlist named “*Select Culture to Enforce*”, you can also force site to viewed in one culture, irrespective of browser’s request for a particular culture.

New Feature: Option for culture setting inheritance at Site Cultures

Most of the time we require to change particular Resource or Content at Site Level culture by defining Site Level culture. After defining Site Level culture, culture settings for site level culture were independent of global culture. Changing global culture won’t affect site culture.

Post version V1.6 we have added support for culture setting inheritance for site cultures. Whenever culture (e.g. “en-US”) is defined at site level & same culture is present at Global level too, you will see “Inherit from global” checkboxes on every tab to inherit settings from global. So now changing global culture will affect all site level Cultures or parts of Culture who have inherited from Global Cultures.

Inheritance of culture setting additional information behaves similar to culture resource & culture content.

emplar

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Sites » Edit Site TestSite

Add Culture | Update Culture

Search Culture :

No	Culture Name	Culture Code	Created on	Load	Active	Upload	Download	Delete
1	English - United States	en-US	22 Apr 2014		<input checked="" type="checkbox"/>			
2	Hindi	hi	22 Apr 2014		<input checked="" type="checkbox"/>			
3	Hindi - India	hi-IN	22 Apr 2014		<input checked="" type="checkbox"/>			

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Resources | Add Resource | Contents | Add Content | Settings

Culture Settings (Changes needs to be explicitly saved)

Load Defaults | Save

Date & Time ☒ | Monetary ☐ | Numbers ☒ | Months ☐ | Days ☐ | Miscellaneous ☐ | Additional Info ☐

Short Date Format: M/d/yyyy | M/d/yyyy

Long Date Format: dddd, MMMM dd, yyyy | dddd, MMMM dd, yyyy

Time Format: h:mm:ss tt | h:mm:ss tt

Date Separator: / | /

Time Separator: : | :

AM Designator: AM

PM Designator: PM

Back

WidgetInstance Level Culture (This will get deprecated from v1.6 onwards)

WidgetInstance cultures are the last in hierarchy of culture resource/content /setting resolution.

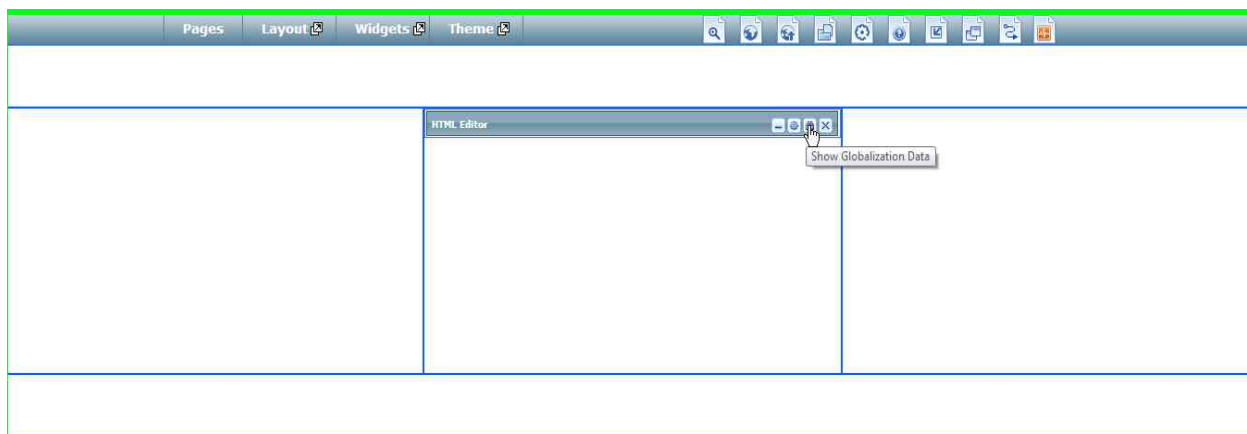
WidgetInstance level only allows us to override string resources for cultures that are defined site level or inherited from global to site. WidgetInstance level culture can be defined per instance (Independent of other instances of widget on same or different page) of widget on page.

The plan for deprecating this feature is to simplify content translation with an easy way to know what all is being used. However this functionality can still be achieved by enabling widgets to configure the keys they want to render across instances. All these keys would need to be defined at the site level.

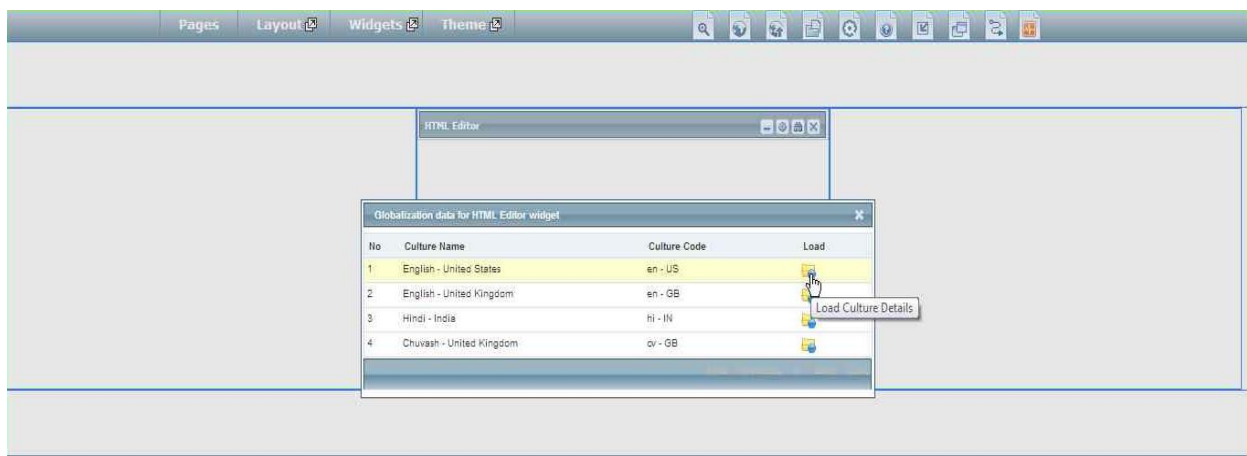
You can define instance level culture from designer page.

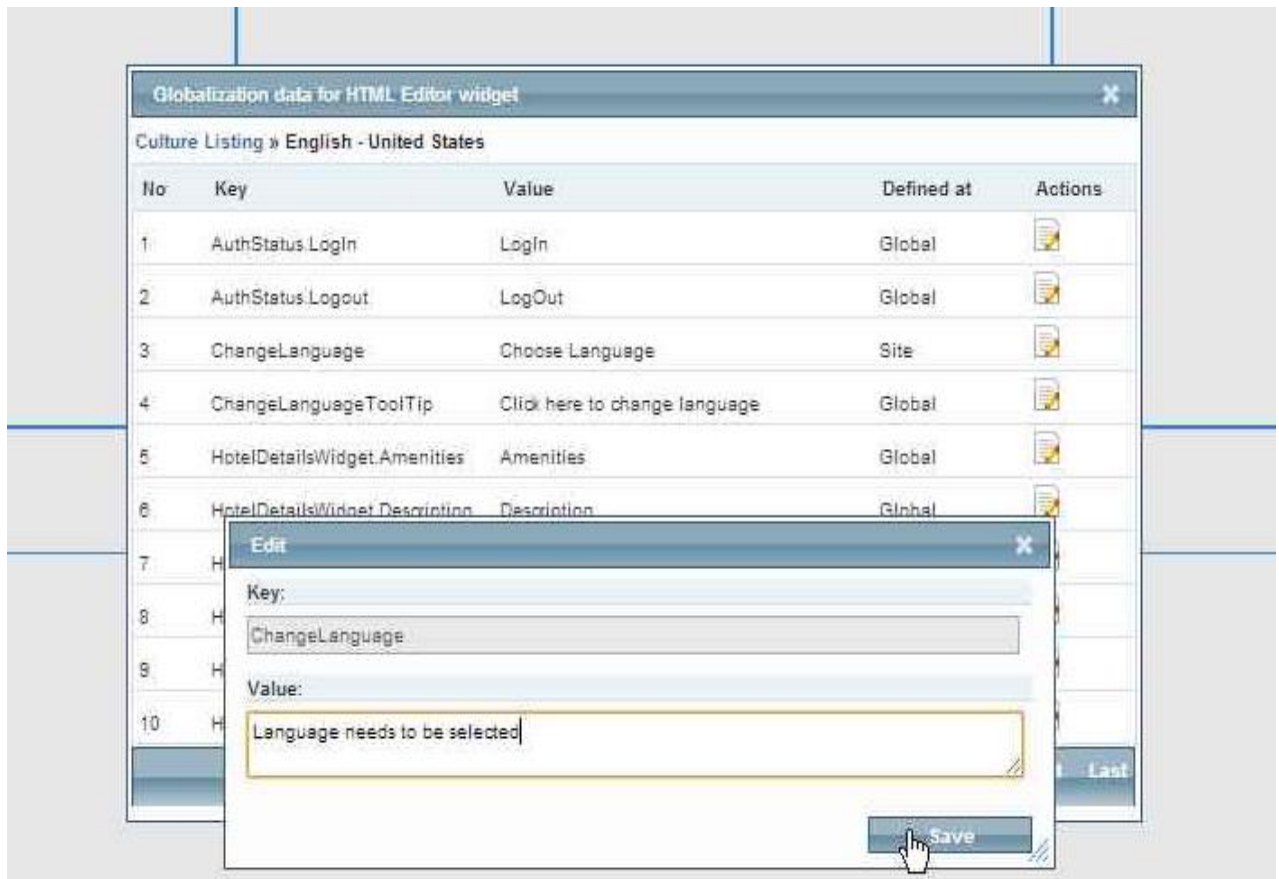
Step 1: Login into Templar & Load Site

Step 2: Open page in designer mode whose instance needs to be overridden.



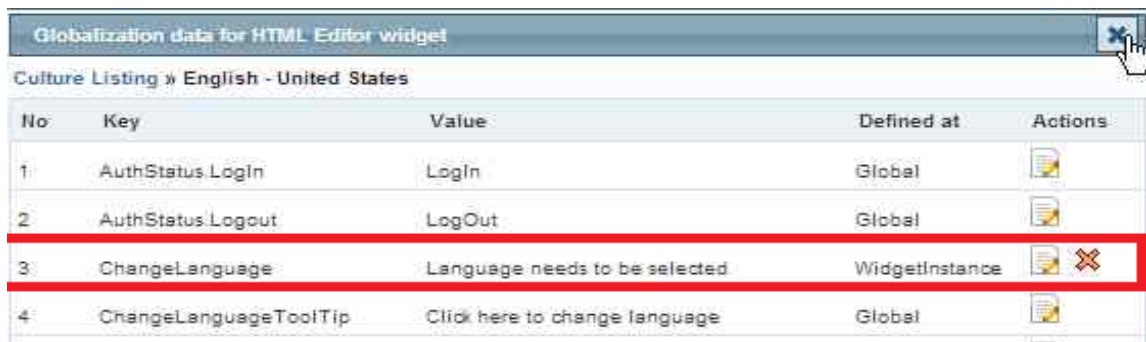
Once selected, all cultures applicable to site are enlisted, Select particular for which value needs to be overridden.





This widget has got “*ChangeLanguage*” key from site level which itself has been inherited from Global.

We can change its value only for this instance.



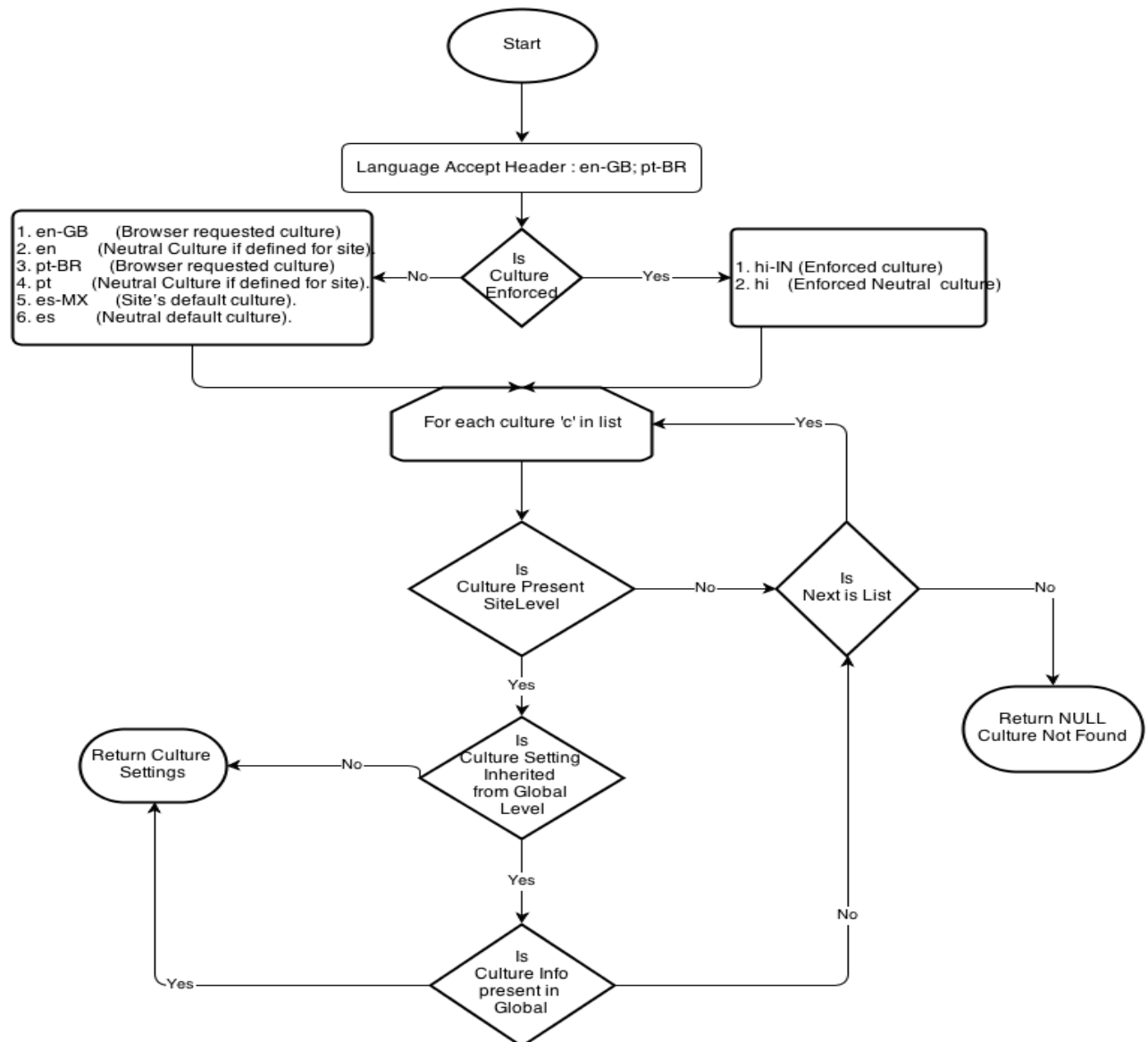
These WidgetInstance override changes get publish when site is published.

Culture Settings resolution at exceution time

To understand how culture resolution work, assume site has *en-GB*, *pt-BR*, *es-MX* (Doesn't matter which level it is defined site level or global level). Site has *es-MX* as default culture.

Suppose request is made for culture *en-GB*, *pt-BR* lookup order for cultures is created.

<p>If auto-detect is enabled for site</p> <ol style="list-style-type: none"> 1. <i>en-GB</i> (Browser requested culture) 2. <i>en</i> (Neutral Culture if defined for site). 3. <i>pt-BR</i> (Browser requested culture) 4. <i>pt</i> (Neutral Culture if defined for site). 5. <i>es-MX</i> (Site's default culture). 6. <i>es</i> (Neutral default culture). 	<p>If <i>hi-IN</i> culture is enforced on site</p> <ol style="list-style-type: none"> 1. <i>hi-IN</i> (Enforced culture) 2. <i>hi</i> (Enforced Neutral culture)
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Culture Resource/Content resolution at execution time

