IBM Cúram Social Program Management Version 7.0.5

Cúram Regionalization Guide



#### Note

Before using this information and the product it supports, read the information in <u>"Notices" on page</u> 12

#### **Edition**

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## **Chapter 1. Developing for Regional Support**

The regional settings of a Cúram application can be modified. Locale defaults can be altered which reflect their region's currency, date and time standards, and address formats.

#### **Overview**

The guide describes how to configure the regional settings of an application. After reading the guide, the reader should have an understanding of how to modify locale defaults to reflect their region's currency, date and time standards and address formats.

The guide is intended for developers and analysts responsible for customizing the region settings of the application to suit the business needs of an organization.

The guide covers the customization of currency, date and time formats, address formats and other non-linguistic aspects of a locale. It does not cover how to translate the user interface of the application.

A Locale represents a specific geographical, political, or cultural entity. It encapsulates user interface language, date and time formats, number and currency formats and other settings. Locales consist of a language with an optional region identifier, for example: English (British) en\_GB or German (Germany) de\_DE.

#### **Prerequisites**

A working knowledge of the development environment is needed to read this document.

#### **Sections in this Guide**

The following list describes the sections within the guide:

"Regional Settings" on page 1. The section details the changes that are needed to set currency, date, and time standards and address formats in the application.

<u>"Settings Reference" on page 4</u>. The section provides a detailed reference of region settings in the application.

## **Regional Settings**

The section details the changes that are needed to customize the currency, date and time standards, and address formats in the Development Environment.

#### **Configuring Regional Settings**

To set your locale defaults for en, en\_US or en\_GB locale, follow the settings that are listed here for that locale.

You can use these settings as a guide if you want to alter the locale defaults.

#### bootstrap.properties

Update the following properties in:

EJBServer\project\properties\bootstrap.properties

Table 1: bootstrap.properties settings			
Property Name	en	en_US	en_GB
curam.environment.default.dateformat	M d уууу	M d уууу	d M уууу
curam.environment.default.dateseparator	/	/	/
curam.DMX.locale	en	en_US	en_GB

**Note:** M d y values follow Java<sup>™</sup> 's SimpleDateFormat syntax.

## The Application.prx file

Update the following properties according to the locale you are implementing in:

EJBServer/project/properties/Application.prx

Table 2: Settings for en locale		
Property Name	Value	
curam.environment.default.locale	en	
curam.financial.basecurrency	USD	
curam.financial.currencysymbol	\$	
curam.financial.currencysymbolplacement	before	
curam.miscapp.defaultdateformat	Date_mdy_ext	
curam.address.addressDataLocaleForDefaultAddress	en	

Table 3: Settings for en_US locale		
Property Name	Value	
curam.environment.default.locale	en_US	
curam.financial.basecurrency	USD	
curam.financial.currencysymbol	\$	
curam.financial.currencysymbolplacement	before	
curam.miscapp.defaultdateformat	Date_mdy_ext	
curam.address.addressDataLocaleForDefaultAddress	en_US	

Table 4: Settings for en_GB locale		
Property Name	Value	
curam.environment.default.locale	en_GB	
curam.financial.basecurrency	GBP	
curam.financial.currencysymbol	£	
curam.financial.currencysymbolplacement	before	
curam.miscapp.defaultdateformat	Date_dmy_ext	

Table 4: Settings for en_GB locale (continued)	
Property Name	Value
curam.address.addressDataLocaleForDefaultAddress	en_GB

#### **Code Table Settings**

Update the following Code Table values according to the locale you are implementing in: EJBServer\components\core\codetable

Table 5: Settings for en locale			
Code Table	Settings		
CT_Currency.ctx	Locate the value="USD" set default="true" set existing default to false.		
CT_Nationality.ctx	Locate the value="NT5" set default="true" set existing default to false.		
CT_Country.ctx	Locate the value="US" set default="true" set existing default to false.		
CT_addressLayoutType.ctx	Locate the value="US" set default="true" set existing default to false.		
CT_Locale.ctx	Locate the value="en" set default="true" set existing default to false.		

Table 6: Settings for en_US locale	
Code Table	Settings
CT_Currency.ctx	Locate the value="USD" set default="true" set existing default to false.
CT_Nationality.ctx	Locate the value="NT5" set default="true" set existing default to false.
CT_Country.ctx	Locate the value="US" set default="true" set existing default to false.
CT_addressLayoutType.ctx	Locate the value="US" set default="true" set existing default to false.
CT_Locale.ctx	Locate the value="en_US" set default="true" set existing default to false.

Table 7: Settings for en_GB locale	
Code Table	Settings
CT_Currency.ctx	Locate the value="GBP" set default="true" set existing default to false.
CT_Nationality.ctx	Locate the value="NT2" set default="true" set existing default to false.
CT_Country.ctx	Locate the value="GB" set default="true" set existing default to false.
CT_addressLayoutType.ctx	Locate the value="UK" set default="true" set existing default to false.
CT_Locale.ctx	Locate the value="en_GB" set default="true" set existing default to false.

### **ApplicationConfiguration.properties**

Update the following properties in:
webclient/JavaSource/curam/omega3
/ApplicationConfiguration.properties

Table 8: ApplicationConfiguration.properties settings			
Property Name	en	en_US	en_GB
dateformat	M d yyyy	M d yyyy	d M уууу
dateseparator	/	/	/

**Note:** M d y values follow Java's SimpleDateFormat syntax.

#### **Environment Variables**

Set the following Environment Variables:

Table 9: Environment Variables			
Environment Variable	en	en_US	en_GB
SERVER_LOCALE_LIST	en, en_US, en_GB	en, en_US, en_GB	en_GB, en_US, en
LOCALE_LIST	en	en_US	en_GB

## **Settings Reference**

The section covers individual configuration settings in detail.

#### **Bootstrap properties**

The Bootstrap.properties file is used to specify database settings and other server-side properties including date format and separator.

Table 10: Settings		
ID	Value	Details
curam.environment.default.dates eparator	, or / or. or -	Overrides the default date separator
curam.environment.default.datef ormat	M d yyyy or d M yyyy etc.	Overrides the default date display pattern
curam.DMX.locale	en_US or en_GB etc.	Sets the database locale

Note: Data Manager XML (DMX) files store the locale information for the attributes for the database table. As the database must be built for only one locale, the Data Manager uses the curam.DMX.locale property to determine the locale that must be used when the data specified in DMX files is inserted into the database. This property can be set in either the Bootstrap, properties file or as a system variable. If set in both the Bootstrap.properties file and as a system variable, the system variable overrides the setting in the Bootstrap.properties file.

This property must be set to a valid locale, that is, in the format language\_Country, where language is mandatory and country is optional. For example, curam. DMX.locale=en\_US

If this property is not set, the infrastructure falls back on the en locale.

Table 11: Bootstrap. properties details	
Туре	Value
Setting	Bootstrap.properties settings
Setting Type	Override String values
Path	\EJBServer\project\properties
Filename	Bootstrap.properties

#### **Application Configuration properties**

The ApplicationConfiguration.properties file specifies application server-related properties, including date format settings used when dates entered by the user are displayed or interpreted.

**Tip:** See the *Cúram Web Client Reference Manual* for more information.

Table 12: Settings		
ID	Value	Details
dateseparator	, or / or. or -	Overrides the default date separator
dateformat	M/d/yyy or dd MM yyyy and so on.	Overrides the default date display pattern

Table 13: Application Configuration details	
Туре	Value
Setting	ApplicationConfiguration settings
Setting Type	Override String values
Path	\webclient\JavaSource\curam\omega3
Filename	ApplicationConfiguration.properties

### I18n.properties files

#### Client Development Environment by using Java (CDEJ) Resources

The CDEJ\_Resources\_<locale>.properties file contains strings that are used to display various application-wide locale-specific features.

- Error message icons and ALT Text
- Strings that are used in menus and navigation
- Translatable fields for address elements
- Data/Calendar selector strings
- · Application icons
- Calendar validation format strings
- UI Tooltips

Table 14: Settings		
ID	Value	Details
curam.validation.calendar.dateTimeFormat	hh:mm	Overrides the default time format
curam.validation.calendar.dateFormat		Overrides the default date display pattern

Table 15: CDEJ Resources details	
Туре	Value
Setting	CDEJ Resources
Setting Type	Override String values
Path	\webclient\JavaSource\curam\omega3\i18n
Filename	CDEJ_Resources_ <locale>.properties</locale>

#### **CDEJ Calendar Strings**

The Calendar\_<locale>.properties file contains overrides for strings that are used to display application-wide locale-specific Calendar values.

Table 16: Settings		
ID	Value	Details
DayView.DateBar.DatePattern	EEEE d MMMM	Overrides the default date display pattern
WeekView.DateBar.DatePattern	W - MMMM	Overrides the default date display pattern
MonthView.DateBar.DatePattern	ММММ/у	Overrides the default date display pattern
WeekView.DatePattern	EEEE d MMMM	Overrides the default date display pattern
MonthView.DayFormat	long	Chooses how to display day names in long (for example, Monday) or short (for example, Mon) format

Table 17: CDEJ Calendar Strings details	
Туре	Value
Setting	CDEJ Calendar Strings
Setting Type	Override String values
Path	\webclient\JavaSource\curam\omega3\i18n
Filename	Calendar_ <locale>.properties</locale>

#### Frequency Pattern Selector

The FrequencyPatternSelector\_<locale>.properties file contains values that are used by the Frequency Pattern Selector widget.

These values primarily consist of strings/labels used by the widget.

Table 18: Frequency Pattern Selector details	
Туре	Value
Setting	Frequency Pattern Selector
Setting Type	Override String values
Path	\webclient\JavaSource\curam\omega3\i18n
Filename	FrequencyPatternSelector_ <locale>.properties</locale>

#### **Gantt Chart Currency Symbol**

The GanttChart\_<locale>.properties file contains the currency symbol that is used when currency amounts are displayed in the Gantt chart.

Table 19: GanttChart Currency Symbol details	
Туре	Value
Setting	GanttChart Currency Symbol

Table 19: GanttChart Currency Symbol details (continued)	
Туре	Value
Setting Type	Override String values
Path	\webclient\JavaSource\curam\omega3\i18n
Filename	GanttChart_ <locale>.properties</locale>
Sample Value	€ or \$

## **Project Properties**

#### **Application Properties (.PRX)**

The Application.prx file contains the properties that are used when running an application.

**Tip:** See the *Cúram Server Developer's Guide* for more information.

Table 20: Application Properties (.PRX) details	
Туре	Value
Setting	Application properties file
Setting Type	Application properties
Path	\EJBServer\project\properties
Filename	Application.prx

Application Properties (.PRX) settings

Table 21: Application.prx settings			
ID	Value	Details	
curam.environment.default.locale	<value>en_GB </value> <default-value>en_GB </default-value>	Specifies the default value of the locale code that is used on the server if one is not set	
curam.financial.basecurrency	<value>EUR </value> <default-value>EUR </default-value>	Application base currency	
curam.miscapp.defaultdateformat	<value>Date_mdy_ext </value> <default-value> Date_mdy_ext <!-- default-value--></default-value>	Date/time format that is used in server messages that are displayed on the client	
curam.address.addressDataLocaleForDefaultA ddresses	<value>en_GB <!--<br-->value&gt; <default-value>en_GB </default-value></value>	Sets the locale for the address data when an address for which no details are provided is created	

Table 21: Application.pr $x$ settings (continued)			
ID	Value	Details	
curam.rules.default.locale	<value>en_GB </value> <default-value>en_GB </default-value>	Constant for property name that specifies the default locale to be used by the Rules Editor API	

#### **Code Tables**

#### **Default Currency**

The CT\_Currency . ctx file lists the available currency options and includes a single default currency.

To override the currently selected value, locate the appropriate currency value within the file and change the default="false" option to read default="true".

Check the file to ensure that no other currency values are defaulted to "true".

Table 22: Default Currency details		
Туре	Value	
Setting	Default Currency	
Setting Type	Codetable values	
Path	\EJBServer\components\core\codetable	
Filename	CT_Currency.ctx	
Sample Value	<code default="true" java_identifier="EURO" status="ENABLED" value="EUR"></code>	

#### **Default Nationality**

The CT\_Nationality.ctx file lists the available nationality options and includes a single default nationality.

To override the currently selected value, locate the appropriate nationality value within the file and change the default="false" option to read default="true".

Check the file to ensure that no other nationality values are defaulted to "true".

Table 23: Default Nationality details		
Туре	Value	
Setting	Default Nationality	
Setting Type	Codetable values	
Path	\EJBServer\components\core\codetable	
Filename	CT_Nationality.ctx	
Sample Value	<code default="true" java_identifier="" status="ENABLED" value="NT2"></code>	

#### **Default Country**

The CT\_Country.ctx file lists the available country options and includes a single default country.

To override the currently selected value, locate the appropriate country value within the file and change the default="false" option to read default="true".

Check the file to ensure that no other country values are defaulted to "true".

Table 24: Default Country details		
Туре	Value	
Setting	Default Country	
Setting Type	Codetable values	
Path	\EJBServer\components\core\codetable	
Filename	CT_Country.ctx	
Sample Value	<code default="true" java_identifier="GB" status="ENABLED" value="GB"></code>	

#### **Default Address Layout Type**

The CT\_addressLayoutType.ctx file lists the available country address layouts options and includes a single default country address layout.

To override the currently selected value, locate the appropriate country address layout value within the file and change the default="false" option to read default="true".

Check the file to ensure that no other country address layouts values are defaulted to "true".

Table 25: Default Address Layout Type details		
Туре	Value	
Setting	Default Address Layout Type	
Setting Type	Codetable values	
Path	\EJBServer\components\core\codetable	
Filename	CT_addressLayoutType.ctx	
Sample Value	<code default="true" java_identifier="UK" status="ENABLED" value="UK"></code>	

#### **Codetable Language**

The CT\_CodetableLanguage.ctx file lists the available codetable languages and includes a single default value.

To override the currently selected value, locate the appropriate language value within the file and change the default="false" option to read default="true".

If your target language is not present, add the value and check the file to ensure that no other language values are defaulted to "true".

Table 26: Codetable Language details		
Туре	Value	
Setting	Codetable Language	
Setting Type	Codetable values	
Path	\EJBServer\components\core\codetable	
Filename	CT_CodetableLanguage.ctx	
Sample Value	<code default="true" java_identifier="" status="ENABLED" value="en_GB"></code>	

#### Language

The CT\_Language.ctx file lists the available selectable languages values and includes a single default value.

To override the currently selected value, locate the appropriate language value within the file and change the default="false" option to read default="true".

If your target language is not present, add the value and check the file to ensure that no other language values are defaulted to "true".

Table 27: Language details		
Туре	Value	
Setting	Language	
Setting Type	Codetable values	
Path	\EJBServer\components\core\codetable	
Filename	CT_Language.ctx	
Sample Value	<default="true" java_identifier="ENGLISH" status="ENABLED" value="LN1"></default="true">	

#### **Available Locales**

The CT\_Locale.ctx file lists the available locales and includes a single default value.

To override the currently selected value, locate the appropriate locale value within the file and change the default="false" option to read default="true".

If your target locale is not present, add the value and check the file to ensure that no other locale values are defaulted to "true".

Table 28: Available Locales details		
Туре	Value	
Setting	Available Locales	
Setting Type	Codetable values	
Path	\EJBServer\components\core\codetable	
Filename	CT_Locale.ctx	
Sample Value	<code default="true" java_identifier="ENGLISH_GB" status="ENABLED" value="en_GB"></code>	

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