IBM Cúram Social Program Management

Cúram Regionalization Guide

Version 6.0.4

Note

Before using this information and the product it supports, read the information in Notices at the back of this guide.

Table of Contents

Chapter 1

Introduction

1.1 Purpose

This guide describes how to configure the regional settings of an application. After reading this 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.

1.2 Audience

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

1.3 Prerequisites

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

1.4 Scope

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` .

This guide covers the customization of currency, date and time formats, address formats and other non-linguistic aspects of a given locale.

It does not cover how to translate the user interface of the application.

1.5 Chapters in this Guide

The following list describes the chapters within this guide:

Chapter 2, *Regional Settings* . This chapter details the changes needed to set currency, date and time standards and address formats in the application.

Chapter 3, *Settings Reference* . This chapter provides a detailed reference of region settings in the application.

Chapter 2

Regional Settings

2.1 Introduction

This chapter details the changes needed to customize the currency, date and time standards, and address formats in the Development Environment.

2.2 Configuring Regional Settings

To set your locale defaults for `en`, `en_US` or `en_GB` locale, follow the settings listed below for that locale.

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

2.2.1 bootstrap.properties

Update the following properties in:

`EJBServer\project\properties\bootstrap.properties`

Property Name	en	en_US	en_GB
curam.environment.default.dateformat	M d yyyy	M d yyyy	d M yyyy
curam.environment.default.dateseparator	/	/	/
curam.DMX.locale	en	en_US	en_GB

Table 2.1 **bootstrap.properties** settings

> **Note**
> M d y values follow Java® 's `SimpleDateFormat` syntax.

2.2.2 Application.prx

Update the following properties according to the locale you are implement-

ing in:

`EJBServer/project/properties/Application.prx`

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 2.2 Settings for **en** 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 2.3 Settings for **en_US** 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
curam.address.addressDataLocaleForDefaultAddress	en_GB

Table 2.4 Settings for **en_GB** locale

2.2.3 Code Table Settings

Update the following Code Table values according to the locale you are implementing in:

`EJBServer\components\core\codetable`

Code Table	Settings
CT_Currency.ctx	Locate the value="USD" set default="true"

Code Table	Settings
	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 2.5 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_US" set default="true" set existing default to false.

Table 2.6 Settings for **en_US** 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 de-

Code Table	Settings
	fault="true"
	set existing default to false.

Table 2.7 Settings for **en_GB** locale

2.2.4 ApplicationConfiguration.properties

Update the following properties in:

`webclient/JavaSource/curam/omega3`

`/ApplicationConfiguration.properties`

Property Name	en	en_US	en_GB
dateformat	M d yyyy	M d yyyy	d M yyyy
dateseparator	/	/	/

Table 2.8 **ApplicationConfiguration.properties** settings

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

2.2.5 Environment Variables

Set the following 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

Table 2.9 Environment Variables

Chapter 3

Settings Reference

3.1 Introduction

This chapter covers individual configuration settings in detail.

3.2 Bootstrap properties

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

ID	Value	Details
curam.environment.defa ult.dateseparator	, or / or . or -	Overrides the default date separator
curam.environment.defa ult.dateformat	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

Table 3.1 Settings

ℹ **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 inserting data specified in DMX files onto 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 will override the setting in the Bootstrap.properties file.

This property must be set to a valid locale, i.e. in the format lan-

guage_Country, where language is mandatory and country is optional. For example,curam.DMX.locale=en_US

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

Type	Value
Setting	Bootstrap.properties settings
Setting Type	Override String values
Path	`\EJBServer\project\properties`
Filename	`Bootstrap.properties`

Table 3.2 **Bootstrap.properties** details

3.3 Application Configuration properties

The `ApplicationConfiguration.properties` file specifies application server-related properties, including date format settings used when displaying dates or when interpreting dates entered by the user.

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

ID	Value	Details
dateseparator	, or / or . or -	Overrides the default date separator
dateformat	M/d/yyy or dd MM yyyy etc.	Overrides the default date display pattern

Table 3.3 Settings

Type	Value
Setting	ApplicationConfiguration settings
Setting Type	Override String values
Path	`\webclient\JavaSource\curam\omega3`
Filename	`ApplicationConfiguration.properties`

Table 3.4 Application Configuration details

3.4 I18n .properties files

3.4.1 Client Development Environment using Java (CDEJ) Resources

The `CDEJ_Resources_<locale>.properties` file contains strings that are used to display various application-wide locale specific features, such as:

- Error message icons and ALT Text

- Strings used in menus and navigation

- Translatable fields for address elements

- Data/Calendar selector strings

- Application icons

- Calendar validation format strings

- UI Tooltips

ID	Value	Details
curam.validation.calendar.date TimeFormat	hh:mm	Overrides the default time format
curam.validation.calendar.date Format	M/d/yyy or dd MM yyyy etc.	Overrides the default date display pattern

Table 3.5 Settings

Type	Value
Setting	CDEJ Resources
Setting Type	Override String values
Path	`\webclient\JavaSource\curam\omega3\i18n`
Filename	`CDEJ_Resources_<locale>.properties`

Table 3.6 CDEJ Resources details

3.4.2 CDEJ Calendar Strings

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

ID	Value	Details
DayView.DateBar.Date Pattern	EEEE d MMMM	Overrides the default date display pattern
Week-View.DateBar.DatePatte rn	W - MMMM	Overrides the default date display pattern
MonthView.DateBar.Da	MMMM/y	Overrides the default

ID	Value	Details
tePattern		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 (e.g. Monday) or short (e.g. Mon) format

Table 3.7 Settings

Type	Value
Setting	CDEJ Calendar Strings
Setting Type	Override String values
Path	\webclient\JavaSource\curam\omega3\i18n
Filename	Calendar_<locale>.properties

Table 3.8 CDEJ Calendar Strings details

3.4.3 Frequency Pattern Selector

The `FrequencyPatternSelector_<locale>.properties` file contains values used by the Frequency Pattern Selector widget. These primarily consist of strings/labels used by the widget.

Type	Value
Setting	Frequency Pattern Selector
Setting Type	Override String values
Path	\webclient\JavaSource\curam\omega3\i18n
Filename	FrequencyPatternSelect-or_<locale>.properties

Table 3.9 Frequency Pattern Selector details

3.4.4 Gantt Chart Currency Symbol

The `GanttChart_<locale>.properties` file contains the currency symbol used when displaying currency amounts in the Gantt chart.

Type	Value
Setting	GanttChart Currency Symbol
Setting Type	Override String values
Path	\webclient\JavaSource\curam\omega3\i18n

Type	Value
Filename	GanttChart_<locale>.properties
Sample Value	€ or $

Table 3.10 GanttChart Currency Symbol details

3.5 Project Properties

3.5.1 Application Properties (.PRX)

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

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

Type	Value
Setting	Application properties file
Setting Type	Application properties
Path	\EJBServer\project\properties
Filename	Application.prx

Table 3.11 Application Properties (.PRX) details

Application Properties (.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_m dy_ext </value> <default-value> Date_mdy_ext </default-value>	Date/time format used in server messages displayed on the client
curam.address.addressDataLocale	<value>en_GB	Sets the locale for the

ID	Value	Details
ForDefaultAddresses	\</value\> \<default-value\> en_GB \</default-value\>	address data when creating an address for which no details are provided
curam.rules.default.locale	\<value\>en_GB \</value\> \<default-value\> en_GB \</default-value\>	Constant for property name specifying the default locale to be used by the Rules Editor API

Table 3.12 **Application.prx settings**

3.6 Code Tables

3.6.1 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".

Type	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"\>

Table 3.13 Default Currency details

3.6.2 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".

Type	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">

Table 3.14 Default Nationality details

3.6.3 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".

Type	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">

Table 3.15 Default Country details

3.6.4 Default Address Layout Type

The `CT_addressLayoutType.ctx` file lists the available country address layouts options and includes a single default country address layouts.

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".

Type	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">

Table 3.16 Default Address Layout Type details

3.6.5 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".

Type	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">

Table 3.17 Codetable Language details

3.6.6 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".

Type	Value
Setting	Language

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

Table 3.18 Language details

3.6.7 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".

Type	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" >

Table 3.19 Available Locales details

Notices

This information was developed for products and services offered in the U.S.A. IBM may not offer the products, services, or features discussed in this document in other countries. Consult your local IBM representative for information on the products and services currently available in your area. Any reference to an IBM product, program, or service is not intended to state or imply that only that IBM product, program, or service may be used. Any functionally equivalent product, program, or service that does not infringe any IBM intellectual property right may be used instead. However, it is the user's responsibility to evaluate and verify the operation of any non-IBM product, program, or service. IBM may have patents or pending patent applications covering subject matter described in this document. The furnishing of this document does not grant you any license to these patents. You can send license inquiries, in writing, to:

IBM Director of Licensing

IBM Corporation

North Castle Drive

Armonk, NY 10504-1785

U.S.A.

For license inquiries regarding double-byte (DBCS) information, contact the IBM Intellectual Property Department in your country or send inquiries, in writing, to:

Intellectual Property Licensing

Legal and Intellectual Property Law.

IBM Japan Ltd.

1623-14, Shimotsuruma, Yamato-shi

Kanagawa 242-8502 Japan

The following paragraph does not apply to the United Kingdom or any other country where such provisions are inconsistent with local law: INTERNATIONAL BUSINESS MACHINES CORPORATION PROVIDES THIS PUBLICATION "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Some states do not allow disclaimer of express or implied warranties in certain transactions, therefore, this statement may not apply to you.

This information could include technical inaccuracies or typograph-

ical errors. Changes are periodically made to the information herein; these changes will be incorporated in new editions of the publication. IBM may make improvements and/or changes in the product(s) and/or the program(s) described in this publication at any time without notice.

Any references in this information to non-IBM Web sites are provided for convenience only and do not in any manner serve as an endorsement of those Web sites. The materials at those Web sites are not part of the materials for this IBM product and use of those Web sites is at your own risk.

IBM may use or distribute any of the information you supply in any way it believes appropriate without incurring any obligation to you. Licensees of this program who wish to have information about it for the purpose of enabling: (i) the exchange of information between independently created programs and other programs (including this one) and (ii) the mutual use of the information which has been exchanged, should contact:

IBM Corporation

Dept F6, Bldg 1

294 Route 100

Somers NY 10589-3216

U.S.A.

Such information may be available, subject to appropriate terms and conditions, including in some cases, payment of a fee.

The licensed program described in this document and all licensed material available for it are provided by IBM under terms of the IBM Customer Agreement, IBM International Program License Agreement or any equivalent agreement between us.

Any performance data contained herein was determined in a controlled environment. Therefore, the results obtained in other operating environments may vary significantly. Some measurements may have been made on development-level systems and there is no guarantee that these measurements will be the same on generally available systems. Furthermore, some measurements may have been estimated through extrapolation. Actual results may vary. Users of this document should verify the applicable data for their specific environment.

Information concerning non-IBM products was obtained from the suppliers of those products, their published announcements or other publicly available sources.

IBM has not tested those products and cannot confirm the accuracy of performance, compatibility or any other claims related to non-IBM products. Questions on the capabilities of non-IBM products

Programming Interface Information

This publication documents intended programming interfaces that allow the customer to write programs to obtain the services of IBM Cúram Social Pogram Management.

Trademarks

IBM, the IBM logo, and ibm.com are trademarks or registered trademarks of International Business Machines Corp., registered in many jurisdictions worldwide. Other product and service names might be trademarks of IBM or other companies. A current list of IBM trademarks is available on the Web at "Copyright and trademark information" at http://www.ibm.com/legal/us/en/copytrade.shtml .

Java and all Java-based trademarks and logos are registered trademarks of Oracle and/or its affiliates.

Other names may be trademarks of their respective owners. Other company, product, and service names may be trademarks or service marks of others.