

IBM Cúram Social Program Management  
8.0.2

*Cúram Regionalization Guide*



**Note**

Before using this information and the product it supports, read the information in [“Notices” on page 11](#)

**Edition**

This edition applies to IBM® Cúram Social Program Management 8.0.0, 8.0.1, and 8.0.2.

Licensed Materials - Property of IBM.

© **Copyright International Business Machines Corporation 2012, 2022.**

US Government Users Restricted Rights – Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

© .

---

# Contents

<b>Tables.....</b>	<b>iv</b>
<b>Chapter 1. Developing for Regional Support.....</b>	<b>1</b>
Configuring Regional Settings.....	1
The Application.prx file.....	1
Code Table Settings.....	2
ApplicationConfiguration.properties.....	3
Environment Variables.....	3
bootstrap.properties.....	3
Settings Reference.....	4
Bootstrap properties.....	4
Application Configuration properties.....	4
I18n.properties files.....	5
Project Properties.....	7
Code Tables.....	8
<b>Notices.....</b>	<b>11</b>
Privacy Policy considerations.....	12
Trademarks.....	12

---

# Tables

1. Settings for en locale.....	1
2. Settings for en_US locale.....	1
3. Settings for en_GB locale.....	1
4. Settings for en locale.....	2
5. Settings for en_US locale.....	2
6. Settings for en_GB locale.....	3
7. ApplicationConfiguration.properties settings.....	3
8. Environment Variables.....	3
9. bootstrap.properties settings.....	3
10. Settings.....	4
11. Bootstrap.properties details.....	4
12. Settings.....	5
13. Application Configuration details.....	5
14. Settings.....	5
15. CDEJ Resources details.....	5
16. Settings.....	6
17. CDEJ Calendar Strings details.....	6
18. Frequency Pattern Selector details.....	6
19. GanttChart Currency Symbol details.....	7
20. Application Properties (.PRX) details.....	7
21. Application.prx settings.....	7
22. Default Currency details.....	8
23. Default Nationality details.....	8

24. Default Country details.....	9
25. Default Address Layout Type details.....	9
26. Codetable Language details.....	10
27. Language details.....	10
28. Available Locales details.....	10



# Chapter 1. Developing for Regional Support

You can modify the regional settings of a Cúram application. You can alter locale defaults which reflect their region's currency, date and time standards, address formats, and other non-linguistic aspects of a locale.

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.

**Note:** How to translate the user interface of the application is outside of the scope of this information.

## Configuring Regional Settings

You can customize the currency, date and time standards, and address formats in the Development Environment. To set your locale defaults for en, en\_US or en\_GB locale, see the settings that are listed for that locale. Use the settings as a guide if you want to alter the locale defaults.

### The Application.prx file

In EJBServer/project/properties/Application.prx, you can update properties according to the locale that you are implementing.

*Table 1. 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 2. 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 3. Settings for en\_GB locale*

Property Name	Value
curam.environment.default.locale	en_GB
curam.financial.basecurrency	GBP

<i>Table 3. Settings for en_GB locale (continued)</i>	
Property Name	Value
curam.financial.currencysymbol	£
curam.financial.currencysymbolplacement	before
curam.miscapp.defaultdateformat	Date_dmy_ext
curam.address.addressDataLocaleForDefaultAddress	en_GB

## Code Table Settings

In EJBServer\components\core\codetable, update Code Table values according to the locale that you are implementing.

<i>Table 4. Settings for en locale</i>	
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.

<i>Table 5. Settings for en_US locale</i>	
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 6. 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 properties in webclient/JavaSource/curam/omega3 and / ApplicationConfiguration.properties.

Table 7. ApplicationConfiguration.properties settings			
Property Name	en	en_US	en_GB
dateformat	M d yyyy	M d yyyy	d M yyyy
dateseparator	/	/	/

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

## Environment Variables

Set the locale environment variables.

Table 8. 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

## bootstrap.properties

In EJBServer\project\properties\bootstrap.properties, update the properties.

Table 9. bootstrap.properties settings			
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

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

## Settings Reference

Detailed reference of the region settings in the application.

### Bootstrap properties

Use the `Bootstrap.properties` file to specify database settings and other server-side properties including date format and separator.

Table 10. Settings		
ID	Value	Details
curam.environment.default.dateseparator	, or / or . or -	Overrides the default date separator -
curam.environment.default.dateformat	M d yyyy or d M yyyy etc.	Overrides the default date display pattern yyyy MM dd
curam.environment.default.timeseparator	: or .	Overrides the default time separator :
curam.environment.default.timeformat	hh mm ss a, hh mm a, HH mm or HH mm ss	Overrides the default time format HH mm ss
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	
Type	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:** For more information, see the *Cúram Web Client Reference Manual*.

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

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

## I18n.properties files

Update the properties files in webclient/JavaSource/curam/omega3/i18n.

### 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	M/d/yyyy or dd MM yyyy and so forth.	Overrides the default date display pattern

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

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

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

## 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	
Type	Value
Setting	GanttChart Currency Symbol
Setting Type	Override String values
Path	\webclient\JavaSource\curam\omega3\i18n
Filename	GanttChart_<locale>.properties
Sample Value	€ or \$

## Project Properties

In `\EJBServer\project\properties`, you can update the application properties file.

### 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	
Type	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>	Date/time format that is used in server messages that are displayed on the client

Table 21. Application.prx settings (continued)		
ID	Value	Details
curam.address.addressDataLocaleForDefaultAddresses	<code>&lt;value&gt;en_GB &lt;/value&gt;</code> <code>&lt;default-value&gt;en_GB &lt;/default-value&gt;</code>	Sets the locale for the address data when an address for which no details are provided is created
curam.rules.default.locale	<code>&lt;value&gt;en_GB &lt;/value&gt;</code> <code>&lt;default-value&gt;en_GB &lt;/default-value&gt;</code>	Constant for property name that specifies the default locale to be used by the Rules Editor API

## Code Tables

In `\EJBServer\components\core\codetable`, you can override a number of default code table values.

### 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	
Type	Value
Setting	Default Currency
Setting Type	Codetable values
Path	<code>\EJBServer\components\core\codetable</code>
Filename	<code>CT_Currency.ctx</code>
Sample Value	<code>&lt;code default="true" java_identifier="EURO" status="ENABLED" value="EUR"&gt;</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	
Type	Value
Setting	Default Nationality
Setting Type	Codetable values
Path	<code>\EJBServer\components\core\codetable</code>
Filename	<code>CT_Nationality.ctx</code>

Table 23. Default Nationality details (continued)	
Type	Value
Sample Value	<code default="true" java_identifier="" status="ENABLED" value="NT2">

## 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	
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">

## 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	
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">

## 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	
Type	Value
Setting	Codetable Language
Setting Type	Codetable values
Path	\EJBServer\components\core\codetable
Filename	CT_CodetableLanguage.ctx
Sample Value	<code default="true" java_idenfifier="" status="ENABLED" value="en_GB">

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

## 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	
Type	Value
Setting	Available Locales
Setting Type	Codetable values
Path	\EJBServer\components\core\codetable
Filename	CT_Locale.ctx
Sample Value	<code default="true" java_idenfifier="ENGLISH_GB" status="ENABLED" value="en_GB" >



## Notices

---

This information was developed for products and services offered in the United States.

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, MD-NC119 Armonk, NY 10504-1785 US*

For license inquiries regarding double-byte character set (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. 19-21, Nihonbashi-Hakozakicho, Chuo-ku Tokyo 103-8510, Japan*

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 jurisdictions 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 typographical 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 websites are provided for convenience only and do not in any manner serve as an endorsement of those websites. The materials at those websites are not part of the materials for this IBM product and use of those websites is at your own risk.

IBM may use or distribute any of the information you provide 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 Director of Licensing IBM Corporation North Castle Drive, MD-NC119 Armonk, NY 10504-1785 US*

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.

The performance data and client examples cited are presented for illustrative purposes only. Actual performance results may vary depending on specific configurations and operating conditions.

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 should be addressed to the suppliers of those products.

Statements regarding IBM's future direction or intent are subject to change or withdrawal without notice, and represent goals and objectives only.

All IBM prices shown are IBM's suggested retail prices, are current and are subject to change without notice. Dealer prices may vary.

This information is for planning purposes only. The information herein is subject to change before the products described become available.

This information contains examples of data and reports used in daily business operations. To illustrate them as completely as possible, the examples include the names of individuals, companies, brands, and products. All of these names are fictitious and any similarity to actual people or business enterprises is entirely coincidental.

#### COPYRIGHT LICENSE:

This information contains sample application programs in source language, which illustrate programming techniques on various operating platforms. You may copy, modify, and distribute these sample programs in any form without payment to IBM, for the purposes of developing, using, marketing or distributing application programs conforming to the application programming interface for the operating platform for which the sample programs are written. These examples have not been thoroughly tested under all conditions. IBM, therefore, cannot guarantee or imply reliability, serviceability, or function of these programs. The sample programs are provided "AS IS", without warranty of any kind. IBM shall not be liable for any damages arising out of your use of the sample programs.

## Privacy Policy considerations

---

IBM Software products, including software as a service solutions, ("Software Offerings") may use cookies or other technologies to collect product usage information, to help improve the end user experience, to tailor interactions with the end user or for other purposes. In many cases no personally identifiable information is collected by the Software Offerings. Some of our Software Offerings can help enable you to collect personally identifiable information. If this Software Offering uses cookies to collect personally identifiable information, specific information about this offering's use of cookies is set forth below.

Depending upon the configurations deployed, this Software Offering may use session cookies or other similar technologies that collect each user's name, user name, password, and/or other personally identifiable information for purposes of session management, authentication, enhanced user usability, single sign-on configuration and/or other usage tracking and/or functional purposes. These cookies or other similar technologies cannot be disabled.

If the configurations deployed for this Software Offering provide you as customer the ability to collect personally identifiable information from end users via cookies and other technologies, you should seek your own legal advice about any laws applicable to such data collection, including any requirements for notice and consent.

For more information about the use of various technologies, including cookies, for these purposes, see IBM's Privacy Policy at <http://www.ibm.com/privacy> and IBM's Online Privacy Statement at <http://www.ibm.com/privacy/details> the section entitled "Cookies, Web Beacons and Other Technologies" and the "IBM Software Products and Software-as-a-Service Privacy Statement" at <http://www.ibm.com/software/info/product-privacy>.

## Trademarks

---

IBM, the IBM logo, and [ibm.com](http://www.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/copytrade.shtml>.

Adobe, the Adobe logo, PostScript, and the PostScript logo are either registered trademarks or trademarks of Adobe Systems Incorporated in the United States, and/or other countries.

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

The registered trademark Linux is used pursuant to a sublicense from the Linux Foundation, the exclusive licensee of Linus Torvalds, owner of the mark on a worldwide basis.

Microsoft, Windows, Windows NT, and the Windows logo are trademarks of Microsoft Corporation in the United States, other countries, or both.

UNIX is a registered trademark of The Open Group in the United States and other countries.

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



Part Number:

(1P) P/N: