

IBM Cúram Social Program Management
Version 7.0.0

Cúram Regionalization Guide



Note

Before using this information and the product it supports, read the information in "Notices" on page 13

Edition

This edition applies to IBM Cúram Social Program Management v7.0.0 and to all subsequent releases unless otherwise indicated in new editions.

Licensed Materials - Property of IBM.

© **Copyright IBM Corporation 2012, 2016.**

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

© Cúram Software Limited. 2011. All rights reserved.

Contents

Figures v

Tables vii

Developing for Regional Support 1

Overview	1
Prerequisites	1
Sections in this Guide	1
Regional Settings	1
Configuring Regional Settings	1
bootstrap.properties	2
Application.prx	2
Code Table Settings	3
ApplicationConfiguration.properties	4
Environment Variables	4
Settings Reference	4
Bootstrap properties	4
Application Configuration properties	5
I18n.properties files	5

Client Development Environment by using Java (CDEJ) Resources	5
CDEJ Calendar Strings	6
Frequency Pattern Selector.	6
Gantt Chart Currency Symbol	7
Project Properties	7
Application Properties (.PRX).	7
Code Tables	8
Default Currency	8
Default Nationality	8
Default Country	9
Default Address Layout Type.	9
Codetable Language	10
Language	10
Available Locales	10

Notices 13

Privacy Policy considerations	14
Trademarks	15

Figures

Tables

1.	bootstrap.properties settings	2	15.	CDEJ Resources details	6
2.	Settings for en locale	2	16.	Settings	6
3.	Settings for en_US locale	2	17.	CDEJ Calendar Strings details.	6
4.	Settings for en_GB locale	2	18.	Frequency Pattern Selector details	7
5.	Settings for en locale	3	19.	GanttChart Currency Symbol details	7
6.	Settings for en_US locale	3	20.	Application Properties (.PRX) details	7
7.	Settings for en_GB locale	3	21.	Application.prx settings	7
8.	ApplicationConfiguration.properties settings	4	22.	Default Currency details	8
9.	Environment Variables	4	23.	Default Nationality details	9
10.	Settings	4	24.	Default Country details	9
11.	Bootstrap.properties details	5	25.	Default Address Layout Type details	9
12.	Settings	5	26.	Codetable Language details	10
13.	Application Configuration details	5	27.	Language details.	10
14.	Settings	6	28.	Available Locales details	10

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.” The section details the changes that are needed to set currency, date, and time standards and address formats in the application.

“Settings Reference” on page 4. 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 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.

Application.prx

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
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.

Table 7. Settings for en_GB locale (continued)

Code Table	Settings
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 yyyy
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.dateseparator	separator -	Overrides the default date separator
curam.environment.default.dateformat	MM/dd/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

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: 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/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

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

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

Table 21. Application.prx settings (continued)

ID	Value	Details
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
curam.address.addressDataLocaleForDefaultAddress	<value>en_GB </value> <default-value>en_GB </default-value>	Sets the locale for the address data when an address for which no details are provided is created
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

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">

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	\\EJBServer\components\core\codetable
Filename	CT_Nationality.ctx
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 layout 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_identifier="" 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_identifier="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

Table 28. Available Locales details (continued)

Type	Value
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" >

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 10504-17

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, Nihombashi

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

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.

Linux is a registered trademark of Linus Torvalds in the United States, other countries, or both.

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.



Printed in USA