

IBM Cúram Social Program Management



Cúram Regionalization Guide

Version 6.05

IBM Cúram Social Program Management



Cúram Regionalization Guide

Version 6.05

Note

Before using this information and the product it supports, read the information in "Notices" on page 15

Revised: May 2013

This edition applies to IBM Cúram Social Program Management v6.0 5 and to all subsequent releases unless otherwise indicated in new editions.

Licensed Materials - Property of IBM.

© **Copyright IBM Corporation 2012, 2013.**

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	3.2 Bootstrap properties.	7
Tables	vii	3.3 Application Configuration properties	7
Chapter 1. Introduction	1	3.4 I18n.properties files	8
1.1 Purpose.	1	3.4.1 Client Development Environment using Java (CDEJ) Resources	8
1.2 Audience	1	3.4.2 CDEJ Calendar Strings	8
1.3 Prerequisites	1	3.4.3 Frequency Pattern Selector	9
1.4 Scope	1	3.4.4 Gantt Chart Currency Symbol	9
1.5 Chapters in this Guide	1	3.5 Project Properties	9
Chapter 2. Regional Settings.	3	3.5.1 Application Properties (.PRX)	9
2.1 Introduction	3	3.6 Code Tables	10
2.2 Configuring Regional Settings	3	3.6.1 Default Currency.	10
2.2.1 bootstrap.properties	3	3.6.2 Default Nationality	11
2.2.2 Application.prx.	3	3.6.3 Default Country	11
2.2.3 Code Table Settings	4	3.6.4 Default Address Layout Type.	11
2.2.4 ApplicationConfiguration.properties.	5	3.6.5 Codetable Language.	12
2.2.5 Environment Variables	5	3.6.6 Language	12
Chapter 3. Settings Reference	7	3.6.7 Available Locales.	12
3.1 Introduction	7	Notices	15
		Trademarks	17

Figures

Tables

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

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,” on page 3. This chapter details the changes needed to set currency, date and time standards and address formats in the application.

Chapter 3, “Settings Reference,” on page 7. 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

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.

2.2.2 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

Table 3. Settings for en_US locale (continued)

Property Name	Value
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

2.2.3 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.

Table 6. Settings for en_US locale (continued)

Code Table	Settings
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.

2.2.4 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.

2.2.5 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

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.

Table 10. Settings

ID	Value	Details
<code>curam.environment.default.dateseparator</code>	<code>, or / or. or -</code>	Overrides the default date separator
<code>curam.environment.default.dateformat</code>	<code>M d yyyy or d M yyyy etc.</code>	Overrides the default date display pattern
<code>curam.DMX.locale</code>	<code>en_US or en_GB etc.</code>	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 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 `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 will fall back on the `en` locale.

Table 11. `Bootstrap.properties` details

Type	Value
Setting	<code>Bootstrap.properties</code> settings
Setting Type	Override String values
Path	<code>\EJBServer\project\properties</code>
Filename	<code>Bootstrap.properties</code>

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.

Table 12. Settings

ID	Value	Details
<code>dateseparator</code>	<code>, or / or. or -</code>	Overrides the default date separator
<code>dateformat</code>	<code>M/d/yyyy or dd MM yyyy etc.</code>	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

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

Table 14. Settings

ID	Value	Details
curam.validation.calendar.dateTimeFormat	hh:mm	Overrides the default time format
curam.validation.calendar.dateFormat	M/d/yyy or dd MM yyyy etc.	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

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.

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

Table 16. Settings (continued)

ID	Value	Details
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 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

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.

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

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.

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 \$

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.

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 used in server messages displayed on the client
curam.address.addressDataLocaleForDefaultAddresses	<value>en_GB </value> <default-value>en_GB </default-value>	Sets the locale for the 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

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".

Table 22. Default Currency details

Type	Value
Setting	Default Currency
Setting Type	Codetable values
Path	\EJBServer\components\core\codetable
Filename	CT_Currency.ctx

Table 22. Default Currency details (continued)

Type	Value
Sample Value	<code default="true" java_identifier="EURO" status="ENABLED" value="EUR">

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".

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">

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".

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">

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".

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">

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".

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">

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".

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">

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".

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_identifier="ENGLISH_GB" status="ENABLED" value="en_GB">

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.

19-21, Nihonbashi-Hakozakicho, Chuo-ku

Tokyo 103-8510, 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 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 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 should be addressed to the suppliers of those products.

All 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 the names and addresses used by an actual business enterprise 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.

Each copy or any portion of these sample programs or any derivative work, must include a copyright notice as follows:

© (your company name) (year). Portions of this code are derived from IBM Corp. Sample Programs.

© Copyright IBM Corp. _enter the year or years_. All rights reserved.

If you are viewing this information softcopy, the photographs and color illustrations may not appear.

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/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.



Printed in USA