

Cúram 8.1.2

Regionalization Guide

Note

Before using this information and the product it supports, read the information in [Notices on page 21](#)

Edition

This edition applies to Cúram 8.1, 8.1.1, and 8.1.2.

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Contents

Note.....	iii
Edition.....	v
1 Developing for Regional Support.....	9
1.1 Configuring Regional Settings.....	9
The <i>Application.prx</i> file.....	9
Code Table Settings.....	10
ApplicationConfiguration.properties.....	11
Environment Variables.....	11
bootstrap.properties.....	12
1.2 Settings Reference.....	12
Bootstrap properties.....	12
Application Configuration properties.....	13
l18n.properties files.....	14
Project Properties.....	16
Code Tables.....	17
Notices.....	21
Privacy policy.....	22
Trademarks.....	22

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.

1.1 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
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.

Table 4: 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 5: 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.

Code Table	Settings
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.

1.2 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	colon or . or -	Overrides the default date separator -
curam.environment.default.dateformat	MM dd yyyy or d M yyyy etc.	Overrides the default date display pattern yyyy MM dd
curam.environment.default.timeseparator	:	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	<code>\EJBServer\project\properties</code>
Filename	<code>Bootstrap.properties</code>

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	<code>\webclient\JavaSource\curam\omega3</code>
Filename	<code>ApplicationConfiguration.properties</code>

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/yy 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

ID	Value	Details
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	<code>\webclient\JavaSource\curam\omega3\i18n</code>
Filename	<code>Calendar_<locale>.properties</code>

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	<code>\webclient\JavaSource\curam\omega3\i18n</code>
Filename	<code>FrequencyPatternSelector_<locale>.properties</code>

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	<code>\webclient\JavaSource\curam\omega3\i18n</code>
Filename	<code>GanttChart_<locale>.properties</code>
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	<code>\EJBServer\project\properties</code>
Filename	<code>Application.prx</code>

Application Properties (.PRX) settings

Table 21: Application.prx settings

ID	Value	Details
curam.environment.default.locale	<code><value>en_GB </value></code> <code><default-value>en_GB </default-value></code>	Specifies the default value of the locale code that is used on the server if one is not set
curam.financial.basecurrency	<code><value>EUR </value></code> <code><default-value>EUR </default-value></code>	Application base currency
curam.miscapp.defaultdateformat	<code><value>Date_mdy_ext </value></code> <code><default-value>Date_mdy_ext </default-value></code>	Date/time format that is used in server messages that are displayed on the client
curam.address.addressDataLocaleForDefaultAddresses	<code><value>en_GB </value></code> <code><default-value>en_GB </default-value></code>	Sets the locale for the address data when an address for which no details are provided is created
curam.rules.default.locale	<code><value>en_GB </value></code> <code><default-value>en_GB </default-value></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><code default="true" java_identifier="EURO" status="ENABLED" value="EUR"></code>

Default Nationality

The `CT_Nationality.ctx` file lists the available nationality options and includes a single default nationality.

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

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

Table 23: Default Nationality details

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

Default Country

The `CT_Country.ctx` file lists the available country options and includes a single default country.

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

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

Table 24: Default Country details

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

Default Address Layout Type

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

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

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

Table 25: Default Address Layout Type details

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

Codetable Language

The `CT_CodetableLanguage.ctx` file lists the available codetable languages and includes a single default value.

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

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

Table 26: Codetable Language details

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

Language

The *CT_Language.ctx* file lists the available selectable languages values and includes a single default value.

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

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

Table 27: Language details

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

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	<code>\EJBServer\components\core\codetable</code>
Filename	<code>CT_Locale.ctx</code>
Sample Value	<code><code default="true" java_identifier="ENGLISH_GB" status="ENABLED" value="en_GB" ></code>

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