Multilingual Configuration

Last Modified on 01/20/2023 5:11 am EST

V9.4

Overview

Cora SeQuence supports multiple languages. With minimal effort, you can configure a Flowtime environment in any supported language. Multilingual support enables you to translate the following metadata values:

- Activity Alias
- Activity Description
- Workflow Alias
- Workflow Description
- Message Subject
- Message Body
- Expression Value

NOTE

Translating a workflow should be the last step of the workflow development process.

Supported Languages

Cora SeQuence supports several languages out-of-the-box.

- Dutch
- English
- French
- Hebrew
- Portuguese
- Spanish
- Japanese

You can configure additional languages with minimal effort.

Create and translate the resource file

You need to perform several procedures to prepare your workflow for translation.

- 1. Create the resource file.
- 2. Configure the workflow in App Studio.
- 3. Translate the workflow metadata.

Create the resource file

The first time you perform the workflow translation procedure, Cora SeQuence creates a directory and a language-specific resource file for the workflow.

Resource	Location/Name
Directory	C:\Program Files\PNMsoft\Shared Resources\Resources\< <i>Your Workflow Name> directory</i>
Resource File	<your name="" workflow="">.TEMPLATE.resx</your>

You will make all future modifications to this file. For example, if you have designed a workflow in English, and want to translate the workflow to French, copy the template file and rename it to < Your Workflow Name > fr-FR.resx .

NOTE

fr-FR is the target language culture, and as such is hierarchically structured. For more details on the *CultureInfo* Class, see this page.

Configure the workflow in App Studio

There are several parameters in the Globalization section of the Properties panel that require configuration and resolution before you translate the workflow. To access the parameters, navigate to **App Studio** > **Properties panel** > **Globalization section**. To enable these features, set the **Localizable** parameter to *True*.

Field	Description
Formatting	Formatting defines how dates and numbers display. Formatting is determined by one of the following. • Enforce a format: select a culture from the drop-down menu. • Thread of the application: selection(auto) from the drop-down menu.
Language	The language is determined by one of the following: • Enforce a language: select a culture from the drop-down menu. • Thread of the application: selection(auto) from the drop-down menu.

Translate the workflow metadata

- 1. Open the workflow in App Studio.
- Navigate to App Studio > Properties panel > Globalization section, and set the Localizable parameter to *True*.
 You must perform this configuration every time you add a new activity to the workflow. After you add the new activity, set the Localizable parameter to *False* and then set it back to *True*.
- 3. (Optional) Edit the resource file name to reflect the translation target language.
- 4. Open the resource file in a text editor, and translate the content of the **Value** column. Visual Studio offers a convenient Excel-like experience.
- 5. Perform IISReset to implement the modifications.

Workflow runtime expressions

Runtime Cora SeQuence expressions is an efficient tool for retrieving any information you need related to the runtime context. For more information, see this article.

Runtime expressions enable users to retrieve data from the workflow resource file. You can use expressions to define default values, business roles, and much more, by using the following expression: rt.GetResourceString(< key from resource file>) .

For example, to return the localized workflow alias: rt.GetResourceString("ApprovalKey") .

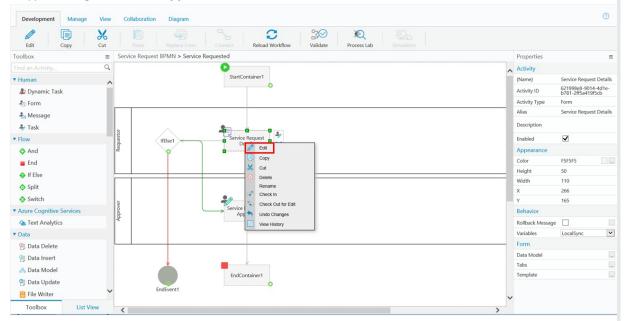
When you use Runtime expressions make sure that all available languages have a resource file.

For example: <sq8:Label runat="server" Text='<%\$sq8: rt.GetResourceString("Request_Form_Comment") %>' /> .

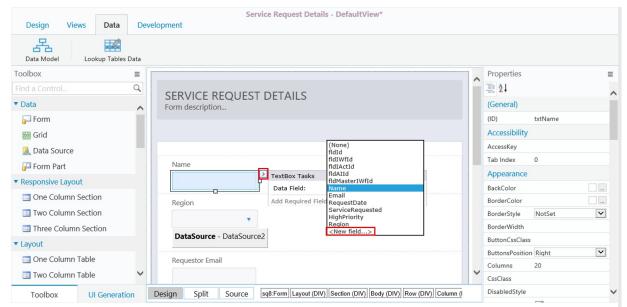
You can also use <%\$ Resources:MyResourceFile,LabelText%> to hold the expressions. If you do this, you will have to maintain the translations in two locations.

Create or edit a runtime expression

1. In App Studio, right-click the activity you want to edit and select Edit.



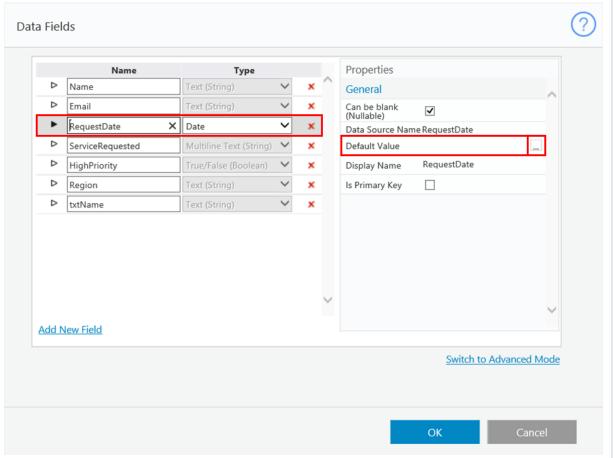
2. In UX Studio, click the arrow next to a form field and click < New field...> to access the data field window.



3. Select a data field that you want to edit.

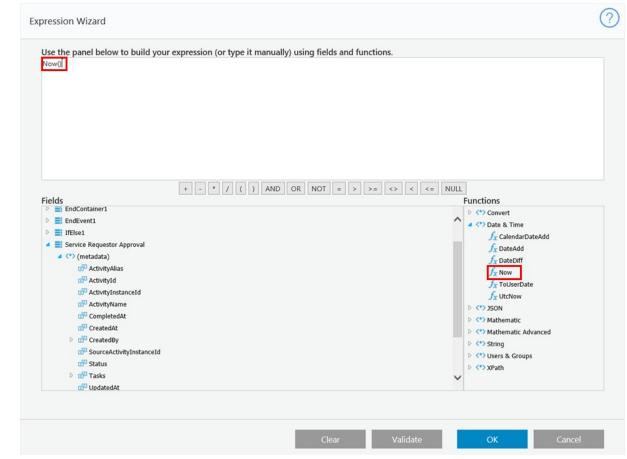
As an example, we are going to assign a default value for the **RequestDate** field in the form.

4. In the **Properties** panel, click the ellipsis button next to the **Default Value** field.



5. Assign a default value for the **RequestDate** field.

For our example, we are going to assign the default value as the current day.



6. Click Validate.

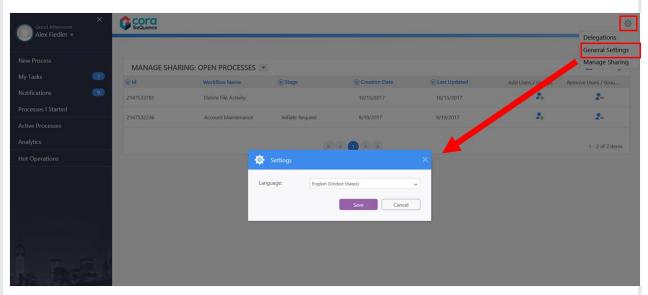
Create a multilingual form

You can create a Form in any supported language of your choice. For details on creating a multilingual form, see this article.

Cora SeQuence Flowtime Behavior

Follow this procedure to change the display language in Flowtime.

In Flowtime, click the **Settings icon** > **General Settings**, and select a language.



Translate Flowtime Categories

1. Create a resx file for each language that you want to translate the categories into.

The file should include the translated alias and description for each category. For example, if you want to translate the categories into French, the file should be Categories.fr-FR.Resx . The keys in the file would be CategoryName_Alias and CategoryName_Description. If one of the categories is Retail Banking, this is what the file would look like.

- 2. Create a folder named Portal in Shared Resource\Resources\Sequence.
- 3. Put the category translation resx files in the Portal folder.

V8.4 and earlier

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NOTE: Translating a workflow should be the last step of the workflow development process.

Supported Languages

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- Portuguese
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Create and Translate the Resource File

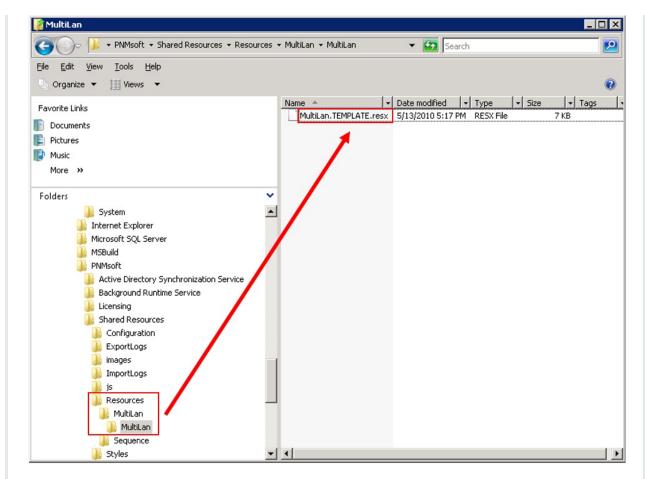
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- 1. Create the resource file.
- 2. Configure the workflow in App Studio
- 3. Translate the workflow metadata

Create the resource file

The first time you perform the workflow translation procedure, sCora SeQuence creates a directory and a language-specific resource file for the workflow.

Resource	Location/Name
Directory	C:\Program Files\PNMsoft\Shared Resources\Resources\< <i>Your Workflow Name> directory</i>
Resource File	<pre><your name="" workflow="">.TEMPLATE.resx</your></pre>



You will make all future modifications to this file. For example, if you designed a workflow in English, and want to translate the workflow to French, copy the template file and rename it to <a href="https://example.com/rename/scre

NOTE: fr-FR is the target language culture, and as such is hierarchically structured. For more details on the *CultureInfo* Class, see http://msdn.microsoft.com/en-us/library/system.globalization.cultureinfo.aspx.

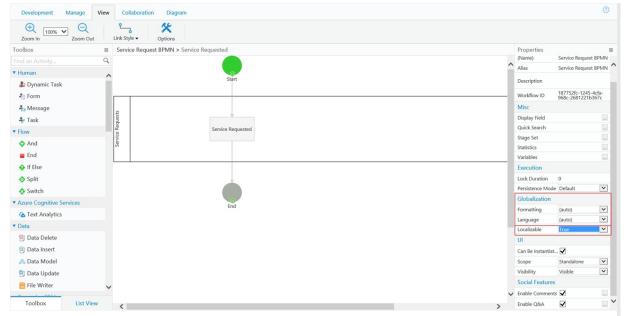
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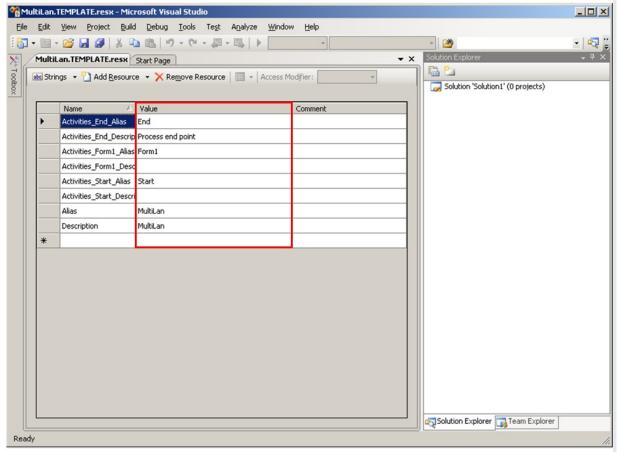
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- Navigate to App Studio > Properties panel > Globalization section, and set the Localizable parameter to True.
 You must perform this configuration every time you add a new activity to the workflow. After you add the new activity, set the Localizable parameter to False and then set it back to True.



- 3. (Optional) Edit the resource file name to reflect the translation target language.
- 4. Open the resource file in a text editor and translate the content of the **Value** column. Visual Studio offers a convenient Excel-like experience.



5. Perform IISReset to implement the modifications.

Workflow Runtime Expressions

Runtime Cora SeQuence expressions is an efficient tool for retrieving any information you need related to the runtime context. For more information, see Understanding Expressions.

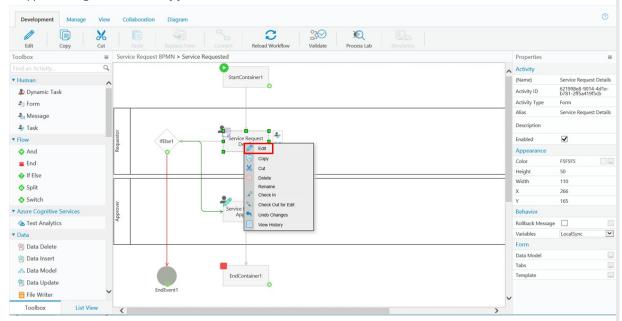
Runtime expressions enable users to retrieve data from the workflow resource file. You can use expressions to define default values, business roles, and much more, by using the following expression: rt.GetResourceString(key from resource file). For example, to return the localized workflow alias: rt.GetResourceString("ApprovalKey").

When you use Runtime expressions make sure that all available languages have a resource file. For example: <sq8:Label runat="server" Text='<%\$sq8: rt.GetResourceString("Request Form Comment") %>'/> .

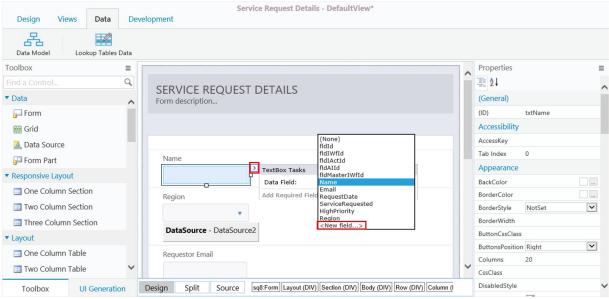
You can also use <%\$ Resources: MyResourceFile, LabelText %> to hold the expressions. If you do this, you will have to maintain the translations in two locations.

Create or edit a runtime expression

1. In App Studio, right-click the activity you want to edit and select Edit.



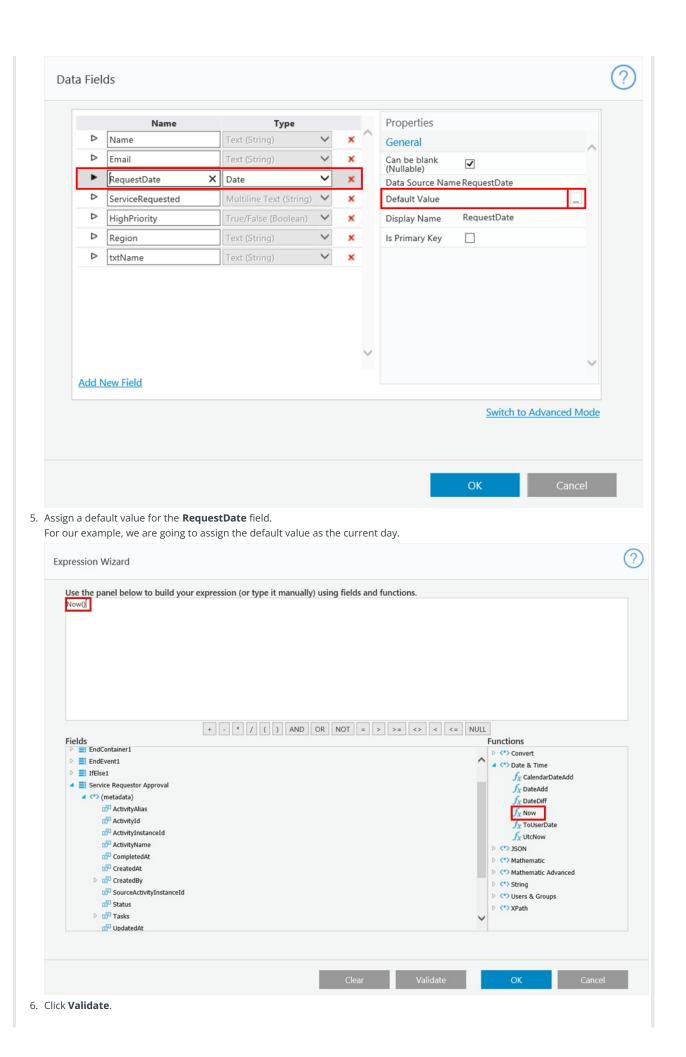
2. In UX Studio, click the arrow next to a form field and click < New field... > to access the data field window.



3. Select a data field that you want to edit.

As an example, we are going to assign a default value for the **RequestDate** field in the form.

4. In the **Properties** panel, click the ellipsis button next to the **Default Value** field.



Create a Multilingual Form

- 1. In Visual Studio, create a resource file for the language that you want to create for the form. Example: MyResourceFile.resx
- 2. Add values to the resource file, in which the key is the value used in the form's markup and the "value" is the display value in runtime
- ${\it 3. \ Translate \ the \ resource \ file \ to \ the \ new \ language, \ and \ name \ it \ with \ a \ corresponding \ extension.}$
 - Example: MyResourceFile.fr.resx
- 4. Copy the resource files to the application's App_GlobalResources directory.

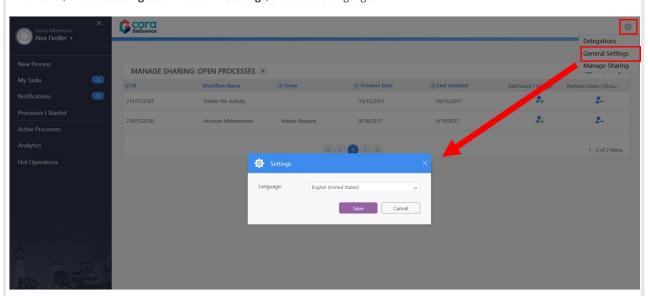
 The App_GlobalResources directory is located in the application root directory. For example, in the default Flowtime installation, the path is: C:\inetpub\wwwroot\Workflow Runtime\App_GlobalResources . If this directory does not exist, you need to create it.
- 5. In your forms, use the key as we show it in the exmple below.

 <sq8:Label runat="server" Text="<%\$ Resources: MyResourceFile, LabelText %>" />

Cora SeQuence Flowtime Behavior

Follow this procedure to change the display language in Flowtime.

In Flowtime, click the **Settings icon** > **General Settings**, and select a language.



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The file should include the translated alias and description for each category. For example, if you want to translate the categories into French, the file should be CategoryName_Alias and CategoryName_Description. If one of the categories is Retail Banking, this is what the file would look like.

- 2. Create a folder named [Portal] in [Shared Resource\Resources\Sequence].
- 3. Put the category translation resx files in the Portal folder.