

# Technical Enhancements 8.1.2.0

Enablement Material

MERATIVE

# Multi-Locale Support for Display Rules and Eligibility Viewer

# Multi-Locale Support for Display Rules

Previously the display rules details were calculated and stored in one locale only. The display rules were not being translated as per the logged in user's application language in a multi-locale deployment.

Multi-locale support is now available for product delivery display rules and eligibility viewer

- Enables caseworkers to view eligibility and entitlement results in the same language in which their application is displayed based on their user locale.
- Caseworkers can now view eligibility and entitlement results in the language of a citizen they are working with.

“*Enable writing localizable display rules*” is a new system administration property that governs this new feature. Enabling the writing of localizable display rules provides a way for an agency to specify whether the translatable types of information such as messages stored in display rules can be translated in different locales when retrieved for use such as display to users with single implementation of the display rules.

Multi-locale support for display rules is extended for the following functionalities -

- Product Delivery Display Rules
- Eligibility Viewer
- Program Recommendation
- Motivation Display Results
- New Intake

# Multi-Locale Support for Display Rules

Caseworkers can now view translatable types of information in display rules by enabling a system admin application property “Enable writing localizable display rules” by setting the value to ‘true’. By default, the value is set to ‘false’ meaning the display rules are calculated/translated using a single locale only.

**Properties (Number of Items: 1)** ^

Name	Value	Description	Category
<input checked="" type="checkbox"/> Enable writing localized display rules	true	Specifies whether the translatable types of information s...	Curam Express Rules - Configuration <a href="#">Edit Value</a> ...

**Description**

Specifies whether the translatable types of information such as messages stored in display rules can be translated in different locales when retrieved for use such as for display to users. The default value is 'false' meaning the display rules are calculated/translated using a single locale only.

Value: true

**Technical Information**

ID	curam.display.rules.multi.locale
Type	Boolean Type

# Multi-Locale Support for Display Rules

As-is

Application menu language set to English

**Manual eligibility ran by French user and being viewed by English user**

The user was presented with eligibility findings in French, which is not the user's preferred language i.e. English

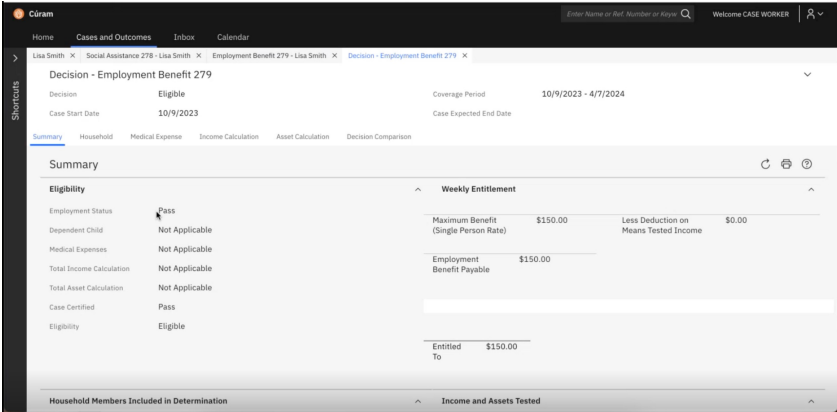
To-be

curam.display.rules.multi.locale = **true** (Application Property Enabled)

Application menu language set to English

**Manual eligibility ran by French user and being viewed by English user after reassessment.**

Sample screenshot (internal representation):



# Multi-Locale Support for Eligibility Viewer

As-is

Application menu language set to English

**Manual eligibility ran by French user and being viewed by English user**

The user was presented with eligibility findings in French, which is not the user's preferred language i.e. English

To-be

curam.display.rules.multi.locale = **true** (Application Property Enabled)

Application menu language set to English

**Manual eligibility ran by French user and being viewed by English user after reassessment.**

Sample screenshot (internal representation):

The screenshot displays the Curam Eligibility Viewer interface. At the top, the user's name 'James Smith' and address '120, oak Street, Utah, Utah, 12345' are visible. Below this, a 'Graph View' section shows a calendar for the year 2024. A blue bar highlights the month of March, indicating an 'Employment Benefit' finding. A tooltip is displayed over this bar, showing the following details:

Employment Benefit	
3/2/2024 - 9/9/2024	
Age	Pass
Employment Status	Pass
Dependent Child	Not Applicable
Medical Expenses	Pass
Case Certified	Pass
Entitled To	\$185.00

# Technical Details

For all the existing DUIM screens used by Display Rules, there is no change needed. Decision Details data will be displayed as per the locale.

```
<LIST TITLE="EligibilityRuleList.Title">
  <FIELD WIDTH="20" LABEL="EligibilityRuleList.Field.Label.RuleDescription">
    <CONNECT>
      <SOURCE
        EXTENDED_PATH="/DecisionDetails/Covid19BenefitSummaryCategory/eligibilityRulesNames/Item[]"
        NAME="DISPLAY"
        PROPERTY="result$xmlData"
      />
    </CONNECT>
  </FIELD>

  <FIELD WIDTH="10" LABEL="EligibilityRuleList.Field.Label.Result">
    <CONNECT>
      <SOURCE
        EXTENDED_PATH="/DecisionDetails/Covid19BenefitSummaryCategory/eligibilityRulesResults/Item[]"
        NAME="DISPLAY"
        PROPERTY="result$xmlData"
      />
    </CONNECT>
  </FIELD>

  <FIELD WIDTH="70" LABEL="EligibilityRuleList.Field.Label.Explanation">
    <CONNECT>
      <SOURCE
        EXTENDED_PATH="/DecisionDetails/Covid19BenefitSummaryCategory/eligibilityRulesExplanations/Item[]"
        NAME="DISPLAY"
        PROPERTY="result$xmlData"
      />
    </CONNECT>
  </FIELD>
</LIST>
```

# Technical Details – Impact on various datatypes

- **Datatypes that will be translated**

- Any datatype that makes use of ResourceMessage
- Data types that use Codetable

- **Datatypes that will NOT be translated**

- Number
- String
- Boolean
- Date
- DateTime
- FrequencyPattern



# Technical Details

While designing rules, String based DRAs (Display Rule Attributes) with ResourceMessage should be used. Codetable refs will remain unchanged as will monetary amounts and most other domains.

Example portion of a DRA :

```
<ResourceMessage key="Claimant.description"  
resourceBundle="curam.exprod.rules.IncomeAssistanceProductHouseholdDecisionDetailsRuleSet">  
<reference attribute="description">  
<reference attribute="person">  
<reference attribute="casePersonCalculator"/>  
</reference>  
</reference>  
</ResourceMessage>
```

A value generated for a ResourceMessage in the persisted CREOLEDeterminationsData.snapshotData will contain the refs to the bundle and key as above as well as any arguments - even nested ResourceMessages.

# Technical and Upgrade Considerations

- **When writing new rules**

- Ensure that ResourceMessages are always used instead of hard coding the strings.
- For more information on designing rules, refer to [Cúram Express Rules Reference Manual](#)

- **For existing rules**

- If there are existing rules with hard coded strings, such strings will not be considered for translation unless they are modified to use ResourceMessages.
- There will be no impact to historical determinations/display rules data, such data will not be updated/upgraded and will continue to contain the literal text for one locale unless a reassessment is performed.

- **Data extractor**

- No change to the behavior of data extractor.

- **Reassessment**

- There is no impact to the existing determinations on enabling the toggle, i.e., publishing the application property (Enable writing localized display rules) will not trigger Reassessment.
- After the property is published, caseworker is required to run eligibility check again to see the localised display rules in the language of their application view.

Thank you

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