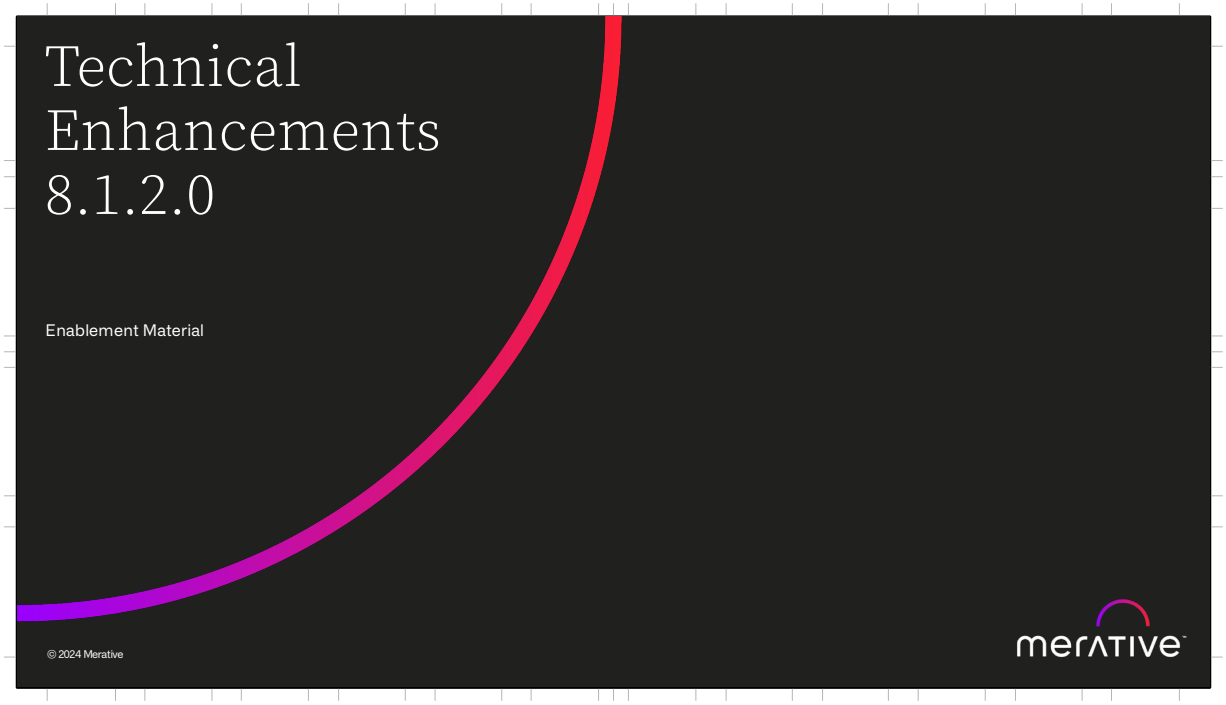
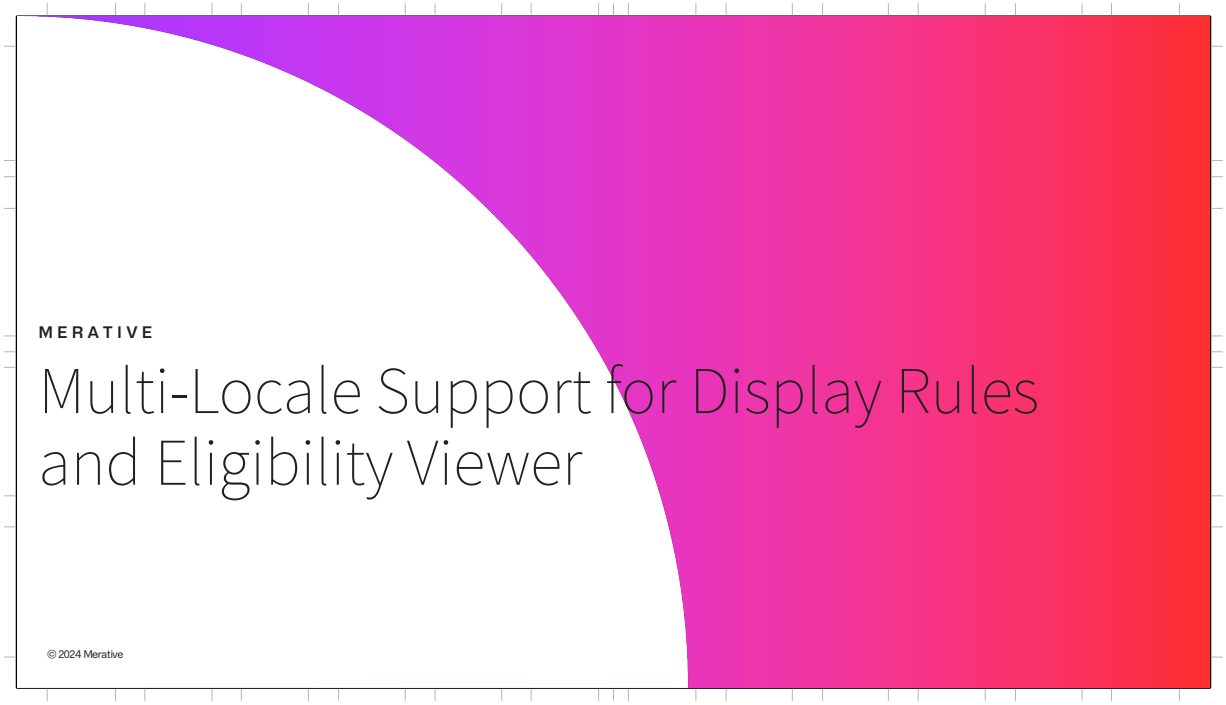
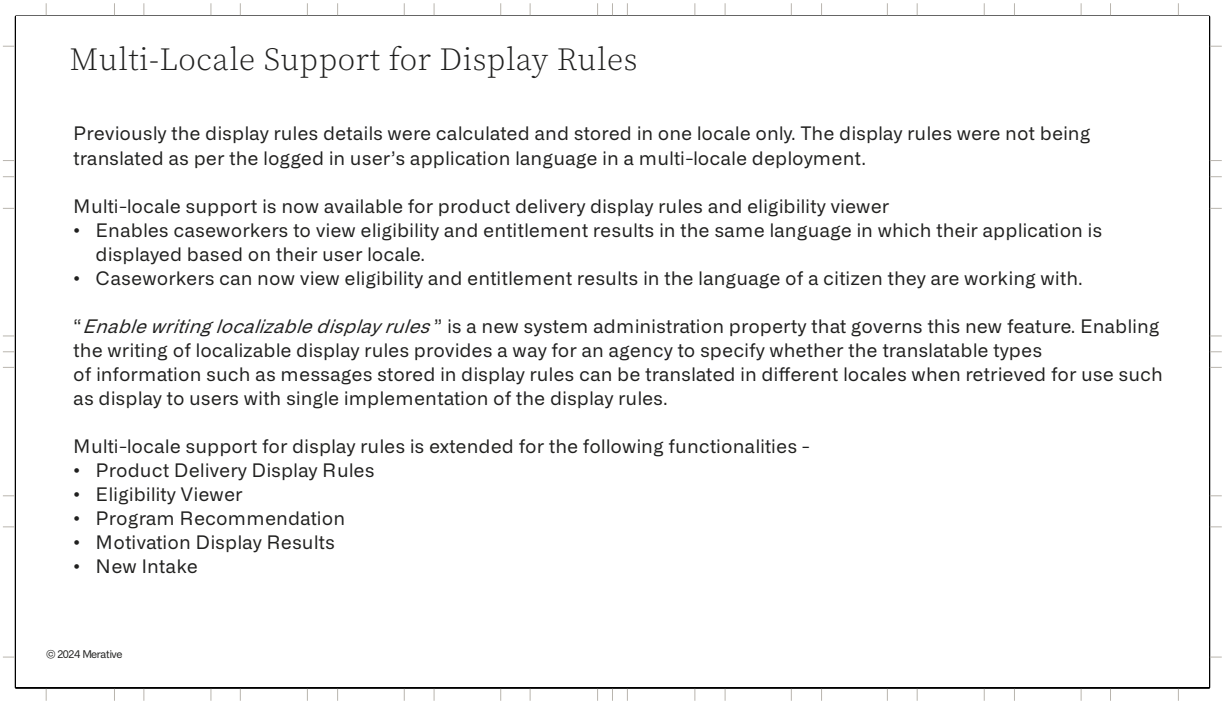


Hello and welcome to this deep dive presentation that introduces the technical enhancements that are available in Curam V8.1.2.0.



Hello and welcome to this deep dive presentation about the feature – Multi locale support for Display Rules and Eligibility Viewer in Cúram



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

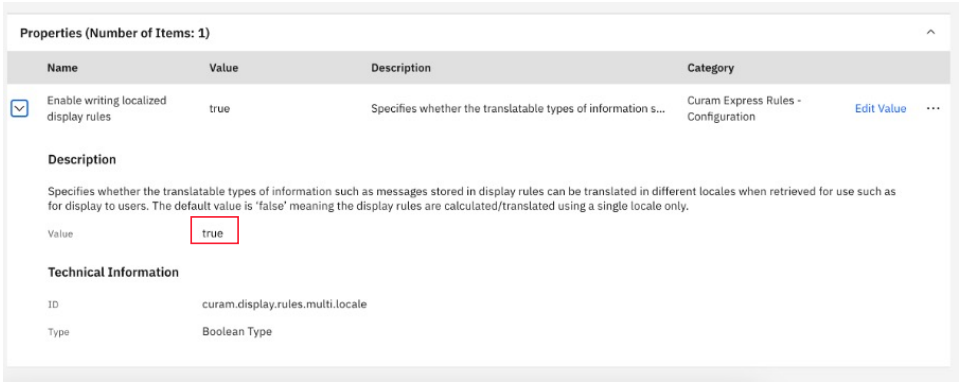
- Enables caseworkers to view eligibility and entitlement results in the same language in which their application is displayed based on their user locale.
- Caseworkers can now view eligibility and entitlement results in the language of a citizen they are working with.

"*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.



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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.

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

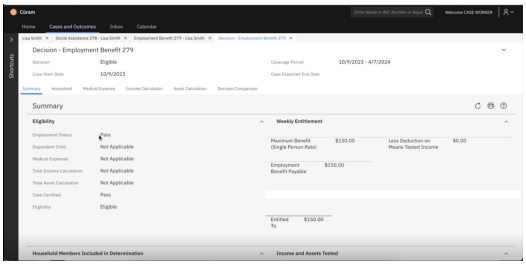
To-be

curam.displav.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):



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Previously the CER decision details display rules were calculated and stored in one locale only and not displayed in other locales when user switched to a different language in a multi-locale deployment. For example, in the as-is scenario the application menu language is set to English and when this user views the eligibility findings run by a French user earlier, the details are presented in French though it is not the logged in user's preferred language i.e. English.

From this release 8.1.2.0, when the system admin property is enabled, caseworkers can now view the product delivery display rule details in the same language in which their application is displayed. For example in the to-be scenario when the logged in user whose preferred language is English views the eligibility results run by a French user earlier, the details will now be presented in English.

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

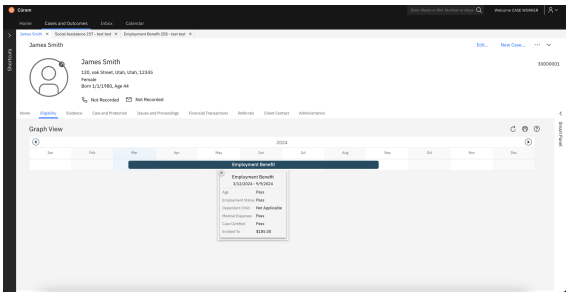
To-be

curam.displav.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):



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In the as-is scenario the application menu language is set to English and when this user views the eligibility results run by a French user earlier, the details are presented in French though it is not the logged in user's preferred language i.e. English.

From this release 8.1.2.0, when the system admin property is enabled, caseworkers can now view the eligibility viewer details in the same language in which their application is displayed. For example in the to-be scenario when the logged in user whose preferred language is English views the eligibility results run by a French user earlier, the details will now be presented in English.

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>
```

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For example, in the above DUIM there is no code change required. Decision Details data will be displayed as per the locale.

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

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When multi-locale feature is enabled, datatypes that make use of ResourceMessage and Codetable will be translated. The other data types namely Number, String, Boolean, Date, DateTime and FrequencyPattern will not be translated.

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 CREOLEDeterminationData.snapshotData will contain the refs to the bundle and key as above as well as any arguments - even nested ResourceMessages.

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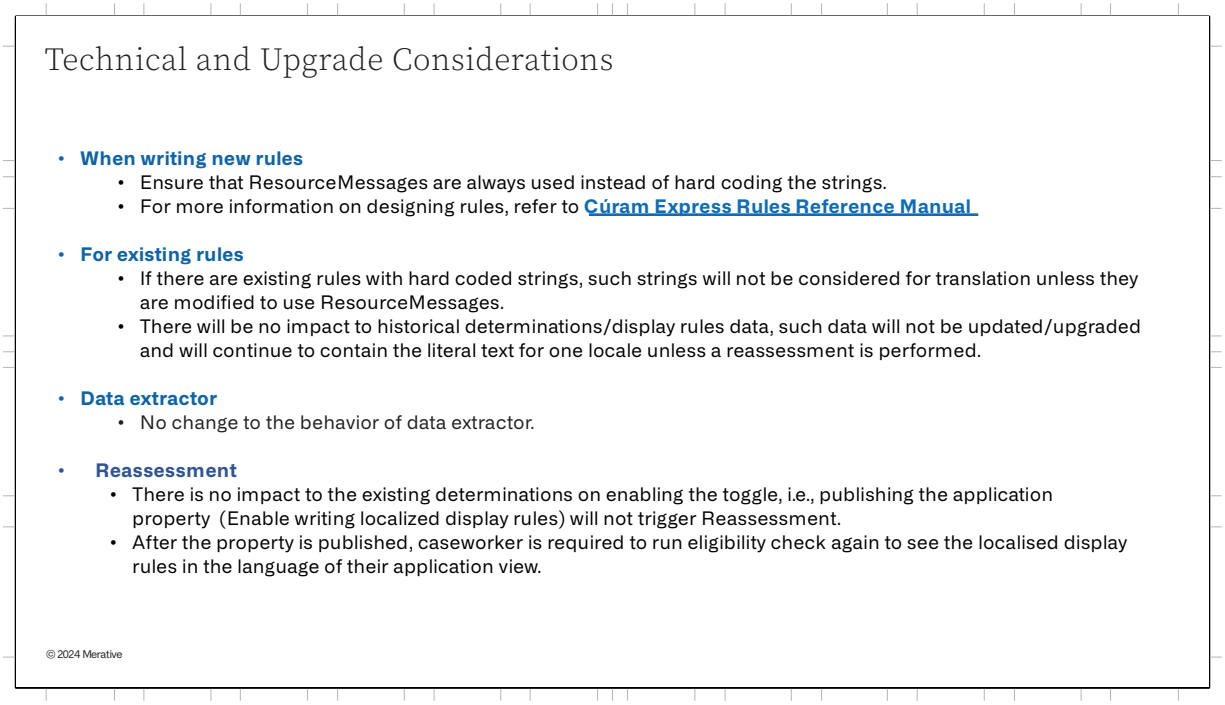
While designing rules, String based DRAs (Display Rule Attributes) with ResourceMessage should be used. A value generated for a ResourceMessage in the persisted CREOLEDeterminationData.snapshotData will contain the refs to the bundle and key as above. Codetable refs will remain unchanged as will monetary amounts and most other domains.

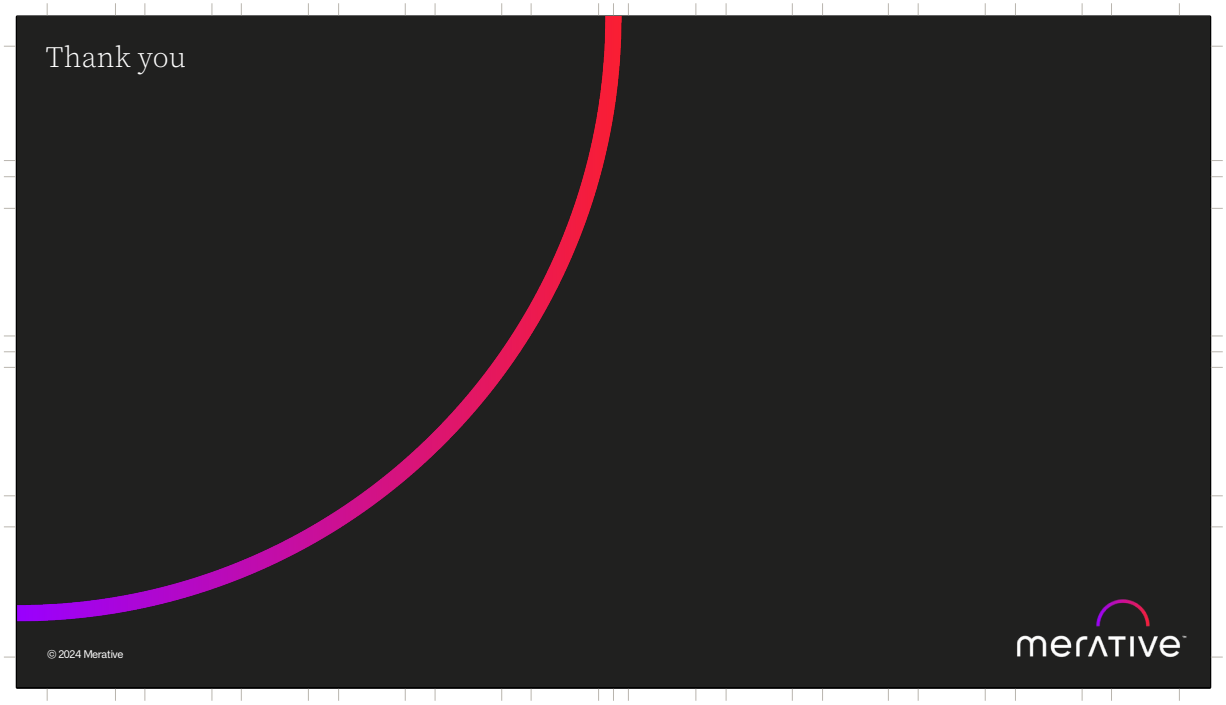


When writing new rules - Ensure that ResourceMessages are always used instead of hard coding the strings. For more information on designing rules, refer to **Cúram Express Rules Reference Manual**

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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