

# Merative Cúram Enhancements

Cúram 8.1.3 Enablement Material

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Hello and welcome to this deep dive presentation that introduces the enhancements to Merative Cúram (SPM) that are available in 8.1.3.0



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# Accessibility Improvements

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There is new legislation both in the US and Canada designed to ensure that users with accessibility needs receive equal access to the systems available to them.

In the US, a new rule was finalized revising Title II of the Americans with Disabilities Act. The rule requires that US state and local governments make their websites and mobile applications accessible for people with disabilities and comes into effect in April 2026.

In Canada, there's the Accessible Canada Act (ACA) which came into force in 2019. The overarching goal of the ACA is to realize a barrier-free Canada by 2040. The legislation benefits all Canadians, especially persons with disabilities, through the proactive identification, removal and prevention of barriers to accessibility.

This section details the Accessibility Improvements now available in 8.1.3.0 in the Caseworker Application

Accessibility Improvements	
8.1.3.0 contains <b>48 Accessibility improvements</b> throughout the Cúram Application	<p>These changes will benefit many different types of users of the system.</p> <p>The following sections detail before and after screens and descriptions (where applicable)</p> <p>In addition, there are also some technical details regarding the change and if any specific upgrade steps are required, this is also noted.</p> <p>Note: If a client has customized any of the pages mentioned, these changes made by Merative will need to be taken into consideration in that client's code.</p> <p>Refer to the External Release Notes for additional details for any of the items listed below</p>

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The following sections of this enablement material details before and after screens and descriptions, where applicable.

In addition, you will also find some technical details regarding the improvement made and if any specific upgrade steps are required to take advantage of the improvements.

If a client has customized any of the pages mentioned in the technical details sections, these changes will need to be taken into consideration in the client's code.

To read additional information about any of the improvements, refer to the External Release Notes.

## List of Accessibility Improvements

1. Fields that do not have a label cannot display the mandatory asterisk indicator
2. Long code table descriptions are truncated, and the full details are not readable
3. The bottom of the Dialogs titles in Rich Text Editor are truncated
4. The tooltips displaying phone and fax number field labels are not accessible for keyboard or mobile users
5. Buttons rendered as Links but styled as buttons cannot be activated by the Space key
6. Calendar fails the minimum color contrast requirement
7. Text Truncated and overlapped when Context Panel preview shown in a modal
8. Content overlaps and is truncated on the Person Context panel when viewed zoomed to 200%
9. List tables without actions menus are breaking words and not scrolling horizontally when zoomed
10. Button labels used to launch certain dialogs do not match the dialog headings
11. Focus not visible when Calendar icon in IEG receives the focus
12. The focus marker is not displayed for the options of a single-select IEG List question which is displayed as a dropdown
13. Focus is not shown when the user navigates to the navigation menu in the content area navigation bar
14. Focus is not shown clearly when the user navigates to email on the person context panel
15. Visualization of Reserved Tasks
16. No labels defined for Photo & List view tabs in context panel
17. Improvements for screen reader users (18 items)
18. Updated Icons (7 Items)

The focus for the last few months has been on accessibility. There are 48 Accessibility defects addressed in the 8.1.3.0 release. These cross many different parts of the application and are beneficial to many different types of users. There are improvements for sighted, screen reader, and keyboard users.

This deep dive provides details in relation to 41 of these improvements. Items listed number 1 to 16, relate to individual accessibility enhancements. Number 17 is a list of all 18 screen reader Improvements and number 18 details the 7 icons updated.

To see all accessibility improvements and further details on those contained in this material, consult the Accessibility section in the External Release Notes. If you want to review the WCAG category that is now achieved by each of the Improvements listed, see the Launch Readiness document.

Fields that do not have a label cannot display the mandatory asterisk indicator

1. Fields that do not have a label cannot display the mandatory asterisk indicator

Fields that do not have a label cannot display the mandatory asterisk indicator

**Before 8.1.3**

There are several fields in the application that should be marked as mandatory, but they do not have a label. Without a label, the mandatory asterisk indicator cannot be displayed

The screenshot shows a 'New Service' form in the 'Details' step. The 'Client' field is populated with 'James Jones (34 years)'. Below it is a 'Units (Session)' field with the value '0'. Under 'Nominee', there is a dropdown menu set to 'Employer'. In the 'Sensitivity' section, the value '1' is selected. At the bottom of the form, there is a large text area labeled 'Reason' which is currently empty. This 'Reason' field is highlighted with a red rectangular box.

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Prior to 8.1.3, there were several fields in the Cúram Application that should have been marked as Mandatory, but these fields do not have a label. Without a label, the Mandatory asterisk cannot be displayed.

Fields that do not have a label cannot display the mandatory asterisk indicator

### In 8.1.3

The affected pages have been updated to include labels, allowing the mandatory asterisk to be displayed.

#### Technical Considerations

The following 8 pages have been updated:

1. webclient/components/ChildServices/Intake/CCSIntake\_modifyNarrative.uim
2. webclient/components/AssessmentPlanning/Delivery/OutcomePlan/Factors/OutcomePlanFactor\_addNote.uim
3. webclient/components/AssessmentPlanningCPM/overridden/CPM/Referral/ProviderManagement\_editReferralNotificationsNotSent.uim
4. webclient/components/AssessmentPlanningCPM/overridden/CPM/ServiceDelivery/ProviderManagement\_editService1.uim
5. webclient/components/CPM/Referral/AddReferralWizard/ProviderManagement\_referralWizardCommonDetails.vim
6. webclient/components/CPM/Referral/ProviderManagement\_editReferralNotificationsNotSent.uim
7. webclient/components/CPM/ServiceDelivery/CreateServiceDeliveryWizard/CreateServiceDeliveryWizard\_details1.uim
8. webclient/components/CPM/ServiceDelivery/ProviderManagement\_editService1.uim

The screenshot shows a software application window titled 'New Service'. At the top, there are three tabs: 'Service' (selected), 'Details', and 'Schedule'. Below the tabs, the section is labeled 'Step 2: Details'. There are several input fields: 'Client' (set to 'James Jones (14 years)'), 'Units (Session)' (set to '0'), 'Nominee' (dropdown menu), 'Employer' (dropdown menu), 'Sensitivity' (dropdown menu set to '1'), and a large text area for 'Reason' which has a dropdown arrow pointing down. A toolbar with various icons is visible at the bottom of the form.

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After 8.1.3 the affected pages have been updated to include a label, therefore allowing the mandatory asterisk to be displayed. The following 8 pages have been updated:

1. webclient/components/ChildServices/Intake/CCSIntake\_modifyNarrative.uim
2. webclient/components/AssessmentPlanning/Delivery/OutcomePlan/Factors/OutcomePlanFactor\_addNote.uim
3. webclient/components/AssessmentPlanningCPM/overridden/CPM/Referral/ProviderManagement\_editReferralNotificationsNotSent.uim
4. webclient/components/AssessmentPlanningCPM/overridden/CPM/ServiceDelivery/ProviderManagement\_editService1.uim
5. webclient/components/CPM/Referral/AddReferralWizard/ProviderManagement\_referralWizardCommonDetails.vim
6. webclient/components/CPM/Referral/ProviderManagement\_editReferralNotificationsNotSent.uim
7. webclient/components/CPM/ServiceDelivery/CreateServiceDeliveryWizard/CreateServiceDeliveryWizard\_details1.uim
8. webclient/components/CPM/ServiceDelivery/ProviderManagement\_editService1.uim

Long code table  
descriptions are  
truncated, and the full  
details are not readable

2. Long codetable descriptions are truncated and the full details are not readable

Long code table descriptions are truncated, and the full details are not readable

**Before 8.1.3**

Code table descriptions are truncated when they are too long to fit in the combo box dropdown menu widget.

This makes the code table dropdown items unreadable.

The screenshot shows a 'New Investigation' dialog box. In the 'Type' field, there is a dropdown menu with several options. One option, 'Benefit Fraud misappropriated Covid 19 Pandemic Reli...', is highlighted with an orange border. The text inside the dropdown is truncated at the end with an ellipsis (...). Other visible options in the dropdown include 'Child Services' and 'Benefit Fraud misappropriated Covid 19 Pandemic Reli...'. To the right of the dropdown, there are fields for 'Priority' (set to 'High') and 'Start Date' (set to '11/26/2024'). At the bottom of the dialog box are 'Cancel' and 'Save' buttons, with 'Save' being the primary button and highlighted in blue.

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Before 8.1.3, code table descriptions were truncated when the text was too long to fit in the combo box dropdown menu widget, as you will see in the screenshot. This made the code table dropdown items unreadable, and difficult to know which option to select.

Long code table descriptions are truncated, and the full details are not readable

#### In 8.1.3

The code table dropdown menu items now display the entire code table descriptions for long text values. For long descriptions, the description text is wrapped rather than truncated.

#### Technical & Upgrade Considerations

- Updates were made to enable wrapping in Technical infrastructure related Code table hierarchy and Combo box dropdown components.
- If a client takes on 8.1.3.0, they will see the changes on all combo box and code table hierarchy dropdowns.
- If the client has customized the handling of code table hierarchy dropdowns, then the wrapping updates need to be taken into consideration in the customer code

The screenshot shows a software interface titled 'New Investigation'. In the 'Type' field, a dropdown menu is open, displaying the option 'Benefit Fraud misappropriated Covid 19 Pandemic Relief Funds in another jurisdiction'. This option is wrapped into two lines due to its length. Other fields visible include 'Priority' set to 'High', 'Child Services' dropdown, and a 'Start Date' field set to '11/26/2024'. At the bottom are 'Cancel' and 'Save' buttons, with 'Save' highlighted in blue.

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After 8.1.3, the code table dropdown menu items now display the entire code table descriptions for long text values. For long descriptions, the description text is wrapped rather than truncated. Users now have a full view of the options available for selection in the dropdown menu.

The Technical approach involved updating the Technical Infrastructure to enable wrapping in related Code table hierarchy and Combo box dropdown components. If a client takes on 8.1.3.0, they will see the changes on all combo box and code table hierarchy dropdowns. If the client has customized the handling of code table hierarchy dropdowns, then the wrapping updates need to be taken into consideration in the customer code.

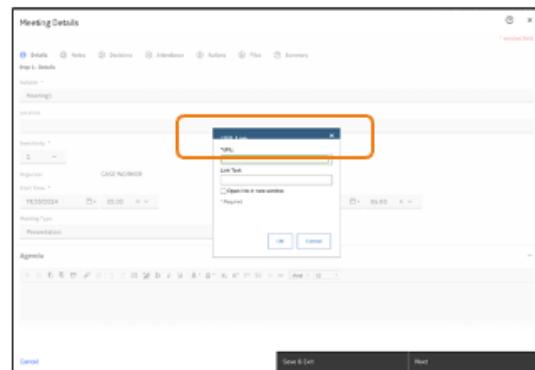
The bottom of the  
Dialogs titles in Rich Text  
Editor are truncated

3. The bottom of the Dialogs titles in Rich Text Editor are truncated

The bottom of the Dialogs titles in Rich Text Editor are truncated

**Before 8.1.3**

The bottom half of dialog titles in the Rich Text Editor are being truncated.



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As seen in the above screenshot, prior to 8.1.3 the bottom half of Dialog titles in the Rich Text Editor were being truncated and were not fully visible to the user

The bottom of the Dialogs titles in Rich Text Editor are truncated

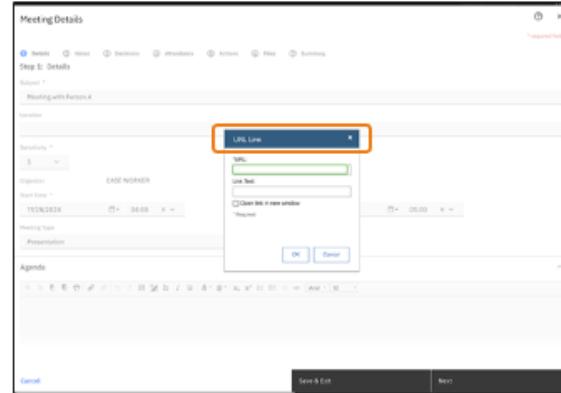
### In 8.1.3

The truncated issue has been fixed. All dialog titles in the Rich Text Editor now display correctly.

#### Technical Considerations

Updates were made to the following files in **CEFWidgets repository**:

1. components/CEFWidgets/WebContent/cefwidgets/ckeditor\_settings/skins/curamv4/dialog.css
2. components/CEFWidgets/WebContent/cefwidgets/ckeditor\_settings/skins/curamv4/dialog\_gecko.css
3. components/CEFWidgets/WebContent/cefwidgets/ckeditor\_settings/skins/curamv4/dialog\_ie.css
4. components/CEFWidgets/WebContent/cefwidgets/ckeditor\_settings/skins/curamv4/dialog\_ie7.css
5. components/CEFWidgets/WebContent/cefwidgets/ckeditor\_settings/skins/curamv4/dialog\_ie8.css
6. components/CEFWidgets/WebContent/cefwidgets/ckeditor\_settings/skins/curamv4/dialog\_ie9.css
7. components/CEFWidgets/WebContent/cefwidgets/ckeditor\_settings/skins/curamv4/dialog\_iequirks.css
8. components/CEFWidgets/WebContent/cefwidgets/ckeditor\_settings/skins/curamv4/dialog\_opera.css



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In 8.1.3, the truncated text is no longer an issue and all dialog titles in the Rich Text Editor display correctly.

To make this improvement updates were made in the following CEF Widgets repository:

1. components/CEFWidgets/WebContent/cefwidgets/ckeditor\_settings/skins/curamv4/dialog.css
2. components/CEFWidgets/WebContent/cefwidgets/ckeditor\_settings/skins/curamv4/dialog\_gecko.css
3. components/CEFWidgets/WebContent/cefwidgets/ckeditor\_settings/skins/curamv4/dialog\_ie.css
4. components/CEFWidgets/WebContent/cefwidgets/ckeditor\_settings/skins/curamv4/dialog\_ie7.css
5. components/CEFWidgets/WebContent/cefwidgets/ckeditor\_settings/skins/curamv4/dialog\_ie8.css
6. components/CEFWidgets/WebContent/cefwidgets/ckeditor\_settings/skins/curamv4/dialog\_ie9.css
7. components/CEFWidgets/WebContent/cefwidgets/ckeditor\_settings/skins/curamv4/dialog\_iequirks.css
8. components/CEFWidgets/WebContent/cefwidgets/ckeditor\_settings/s

kins/curamv4/dialog\_opera.css

The tooltips displaying phone and fax number field labels are not accessible for keyboard or mobile users

4. The tooltips displaying phone and fax number field labels are not accessible for keyboard or mobile users

The tooltips displaying phone and fax number field labels are not accessible for keyboard or mobile users

#### **Before 8.1.3**

Phone and fax number input fields contain no visible labels for the individual fields that represent the different components that make up the phone or fax number, for example, a phone number's country code or the area code.

Currently, the field labels are only visible via tooltips.

The screenshot shows a 'New User' dialog box with various input fields. The 'Contact' section contains two input fields: 'Business Phone Number' and 'Personal Phone Number'. Both of these fields are highlighted with an orange rectangle, drawing attention to the lack of visible labels for these specific components. Other visible fields include 'Title' (set to 'Mr'), 'First Name', 'Last Name', 'Location', 'User Default Locale' (set to 'English'), 'Sensitivity', and email fields for 'Business Email' and 'Personal Email'. The 'Save' button is at the bottom right.

Prior to 8.1.3, Phone and Fax number input fields contained no visible labels for the individual fields that represent the components that make up a Phone or fax number, such as country code or area code.

Currently, the field labels are only visible via tooltips, which are visible only when hovering over an input field with a mouse or trackpad. This is an accessibility issue, as not all users navigate the page with a mouse or a trackpad. Many users rely on a keyboard for navigation or use mobile devices, so these users cannot easily determine what each field represents.

The tooltips displaying phone and fax number field labels are not accessible for keyboard or mobile users

**In 8.1.3**

The labels for the individual input fields that make up a phone or fax number are now visibly displayed on the page.

The screenshot shows a 'New User' form interface. At the top, there are fields for 'Title' (set to 'Mr.'), 'First Name' (marked as required), 'Last Name', 'Location', 'User Default Locale' (set to 'English'), and 'Sensitivity'. Below this is a 'Contact' section. Within the 'Contact' section, there are two groups of input fields: 'Business Phone Number' and 'Personal Phone Number'. Each group has four fields: 'Country Code', 'Area Code', 'Number', and 'Extension'. An orange box highlights the 'Country Code', 'Area Code', 'Number', and 'Extension' fields in both groups. Below the contact section is a 'Business Email' field. At the bottom of the form are 'Cancel' and 'Save' buttons. A copyright notice '© 2024 Merative' is at the bottom left, and the number '16' is at the bottom right.

In 8.1.3, The labels for the individual input fields that make up a phone or fax number are now visibly displayed on the page. These field labels are Country Code, Area, Code, Number and Extension.

## Technical & Upgrade Considerations

### Technical Considerations

A new UIM attribute called SHOW LABELS has been added for CONTAINER elements to support this for phone or fax number input fields.

The SHOW LABELS attribute default value is 'false', so SHOW LABELS="true" must be set on the phone or fax number CONTAINER element to display the input field labels, if LABEL attributes have been configured for the CONTAINER's child FIELD elements.

For more information on this new attribute, please see the CONTAINER element documentation in the UIM pages and views reference section in the *Cúram Webclient Reference Manual*.

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### Upgrade Considerations

- If your custom UIM pages contain CONTAINER elements which represent a Phone or Fax number input field and you would like fields within those containers to display individual labels which the OOTB UIM pages now display, then you are affected by this change.
- The changes in HTML may impact JavaScript or CSS customisations and you may need to update them based on the new input CONTAINER HTML structure.
- The new HTML structure will apply for any CONTAINER element which has at least one child input FIELD element.
- It does not apply to CONTAINER elements which have read-only FIELDS only.

For more information, please see the *Cúram Upgrade Guide*

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To provide this improvement, a new UIM attribute called SHOW LABELS has been added for CONTAINER elements to support this for phone or fax number input fields.

The SHOW LABELS attribute default value is 'false', so SHOW LABELS="true" must be set on the phone or fax number CONTAINER element to display the input field labels, if LABEL attributes have been configured for the CONTAINER's child FIELD elements.

For more information on this new attribute, please see the CONTAINER element documentation in the UIM pages and views reference section in the *Cúram Webclient Reference Manual*.

There are some Upgrade considerations for this feature as follows:  
If your custom UIM pages contain CONTAINER elements which represent a Phone or Fax number input field and you would like fields within those containers to display individual labels which the OOTB UIM pages now display, then you are affected by this change.

The changes in HTML may impact JavaScript or CSS customisations and you may need to update them based on the new input CONTAINER HTML

structure.

The new HTML structure will apply for any CONTAINER element which has at least one child input FIELD element.

It does not apply to CONTAINER elements which have read-only FIELDS only.

There is additional information available to assist client in the Cúram Upgrade Guide

Buttons rendered as  
Links but styled as  
buttons cannot be  
activated by the Space  
key

5. Buttons rendered as Links but styled as buttons cannot be activated by the Space key

## Buttons rendered as Links but styled as buttons cannot be activated by the Space key - Cluster Level Actions

### ***Before 8.1.3***

The Search and Reset controls are links styled like buttons. Screen readers handle links differently than buttons.

While both links and buttons can be tabbed, pressing the Space or Enter key triggers a button, whereas pressing the Enter key only triggers a link.

This behavior may confuse users of assistive technology, as the expected behavior differs from the actual behavior.

### ***In 8.1.3***

Both the Enter and Space keys can now invoke the functionality of a button.

This change is applied to Cluster Level Actions

Before 8.1.3, The Search and Reset control links were styled like buttons. Screen readers handle links differently than buttons.

While both links and buttons can be tabbed through, pressing the Space or Enter key triggered a button, whereas pressing the Enter key only triggered a link.

This behavior may confuse users of assistive technology, as the expected behavior differs from the actual behavior.

In 8.1.3, both the Enter and Space keys can now invoke the functionality of a button. This results in consistent behaviour for users of assistive technology  
This change is applied to Cluster Level Actions.

Note this is not a visual change rather a change for keyboard and screen reader users.

## Technical & Upgrade Considerations

### Technical Considerations

- The ACTION CONTROL element, which resides within the CLUSTER/ACTION SET and LIST/ACTION SET components, is now displayed as a button.
- References to the specific positioning classes (right-corner, left-corner, middle) are no longer used.
- This functionality can be disabled by accessing the system administration settings, navigating to application properties, and setting the 'curam.temp.cluster.list.buttons.enable' property to 'false'.
- For more information on this new functionality, please see the Updated Button Functionality in the Application Configuration section in the Cúram Webclient Reference Manual.

### Upgrade Considerations

- If you have custom pages which contain list and/or cluster buttons, then you are affected by this change.
- The Cúram user interface has been updated, and the underlying HTML structure of some components has changed.
- The changes in HTML may impact JavaScript or CSS customizations.
- For more information on how this change might impact customizations, see the Cúram Upgrade Guide.

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The **technical approach** to this issue involved displaying the ACTION CONTROL element, which resides within the CLUSTER/ACTION SET and LIST/ACTION SET components, as a button.

References to the specific positioning classes (right-corner, left-corner, middle) are no longer used.

This functionality can be disabled by accessing the system administration settings, navigating to application properties, and setting the 'curam.temp.cluster.list.buttons.enable' property to 'false'.

For more information on this new functionality, please see the Updated Button Functionality in the Application Configuration section in the Cúram Webclient Reference Manual.

The are **Upgrade Consideration** for Clients, If they have custom pages which contain list and/or cluster buttons, then they are affected by this change.

The Cúram user interface has been updated and the underlying HTML structure of some components has changed.

The changes in HTML may impact JavaScript or CSS customizations.

Clients can find further supporting information on how this change might impact customizations in the Cúram Upgrade Guide.

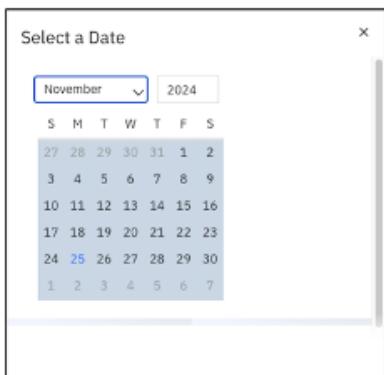
Calendar fails the  
minimum color contrast  
requirement

## 6. Calendar fails the minimum color contrast requirement

Calendar fails the minimum color contrast requirement

**Before 8.1.3**

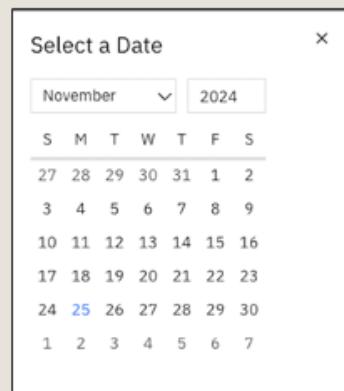
The current date in the Calendar date picker has insufficient contrast with the background color.



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**In 8.1.3**

The blue background color in the Calendar date picker has been removed. The background colour is now white.



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Prior to 8.1.3 the current date in the Calendar date picker was difficult to see as it had insufficient contrast with the background color, and failed the minimum color contrast requirements.

In 8.1.3, the current date is easier to identify as the blue background color has been removed and replaced with white as per the screens displayed.

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Text Truncated and  
overlapped when  
Context Panel preview  
shown in a modal

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7. Text Truncated and overlapped when Context Panel preview shown in a modal

Text Truncated and overlapped when Context Panel preview shown in a modal

### Before 8.1.3

Long text values are truncated and overlapping on the context panel preview.

The screenshot shows the 'New Participant' dialog box. At the top, there are tabs for 'Details' (selected) and 'Previous Activities'. Below that is a note: 'If any of the information provided in the participant details screen is potential hazard or one of the participant details is the same person as entered, select "Exact". If one or more of the participants do not represent the same person as entered, select "Previous". If none of the participants below is the same person as entered, click "Next".' There is a required field indicator (\*).

Exact or Previous	Name	Gender	Date of Birth	Address
-Select-	Bartolomeus Friedrich... Wolfschlegelsteinhaeuserbergdorf - Brandenburg	Male	06/31/1990	21452-23, Belvoir Lake Neighbors Road, Hemlock, Young America, Southern Ute Indian Reservation, Beaver County, Colorado, 81221-0000

Below the table, there is a preview section with a user icon and the following details:  
Name: Bartholomeus Friedrichson  
Gender: Male  
Age: 34 years  
Address: 21452-23, Belvoir Lake Neighbors Road, Hemlock, Young America, Southern Ute Indian Reservation, Beaver County, Colorado, 81221-0000

At the bottom right of the preview section, there are three status indicators: 'Not listed in CRM' (blue), 'No CrimCheck cases' (pink), and 'No Engaging cases' (green). The entire preview section is highlighted with a red box.

Before 8.1.3, if a Name and address was long it was truncated and overlapped on the Context Panel Preview.

Text Truncated and overlapped when Context Panel preview shown in a modal

### In 8.1.3

Field labels and values no longer overlap on the context panel.

Long values such as 'Name' and 'Address' now wrap in the context panel.

#### Technical Considerations

Updates were made to the following files in **CEFWidgets repository**

1. /cefwidgets/CEFWidgets/webclient/components/CEFWidgets/css/PersonDetailsPanel.css
2. /cefwidgets/CEFWidgets/webclient/components/CEFWidgets/css/tab-content.css
3. /cefwidgets/CEFWidgets/webclient/components/CEFWidgets/css/tab-details.css
4. /cefwidgets/CEFWidgets/webclient/components/CEFWidgets/css/links-panel.css



Updates were made to the following files in **CFSS repository**

These changes are specific only to the CFSS repo and CFSS pages.

1. /cfss/CFSS/webclient/components/ChildServices/css/cfss-PersonDetailsPanel.css
2. /cfss/CFSS/webclient/components/ChildServices/css/cfss-inline-context-panel-expanded-row.css
3. /cfss/CFSS/webclient/components/ChildServices/css/cfss-inline-context-panel-expanded-row-rtl.css
4. /cfss/CFSS/webclient/components/ChildServices/css/ccscontentpanel.css
5. /cfss/CFSS/webclient/components/ChildServices/css/CCSParticipantContextPanel.css

In 8.1.3 Field labels and values no longer overlap on the context panel. Long values such as 'Name' and 'Address' now wrap in the context panel.

To implement this improvement, Updates were made in the CEF Widgets and CFSS Repositories as listed above.

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Content overlaps and  
is truncated on the  
Person Context panel  
when viewed zoomed  
to 200%

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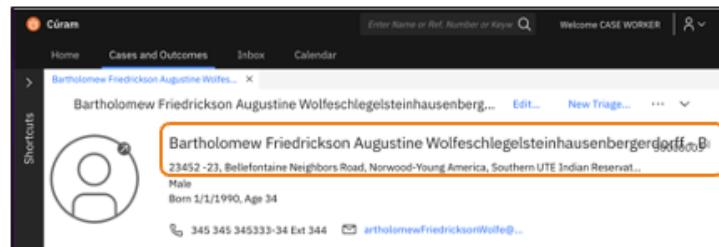
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8. Content overlaps and is truncated on the Person Context panel when viewed zoomed to 200%

Content overlaps and is truncated on the Person Context panel when viewed zoomed to 200%

### **Before 8.1.3**

When viewing the Context panel for a person with a long address at 200% zoom, fields are overlapping and values are truncated making it more difficult to read.



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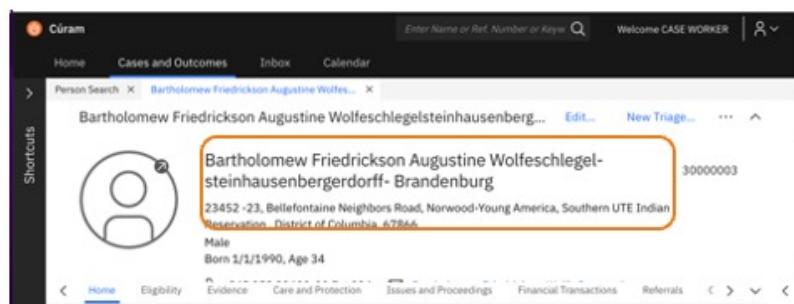
Before 8.1.3, When viewing the Context panel for a person at 200% zoom, with a long name and address, fields were overlapping, and values were truncated making it more difficult to read.

Content overlaps and is truncated on the Person Context panel when viewed zoomed to 200%

### In 8.1.3

The person detail fields such as name, address, age and email are wrapped to the next line so that the full details are readable when viewed using zoom.

This is specific to only **Person Context Panel**.



#### Technical Considerations

Updates were made to the following files in CEFWidgets and CFSS repository

- CFSS/webclient/components/ChildServices/css/cfss-PersonDetailsPanel.css
- CEFWidgets/webclient/components/CEFWidgets/css/PersonDetailsPanel.css

In 8.1.3, the overlapping issue is now resolved. As you can see in the screenshot, the name and address now wrap to the next line, so the user can clearly see the persons details. This improvement is specific to the Person Context Panel.

The technical change required updates in both CEF Widgets and the CFSS Repository.

List tables without actions menus are breaking words and not scrolling horizontally when zoomed

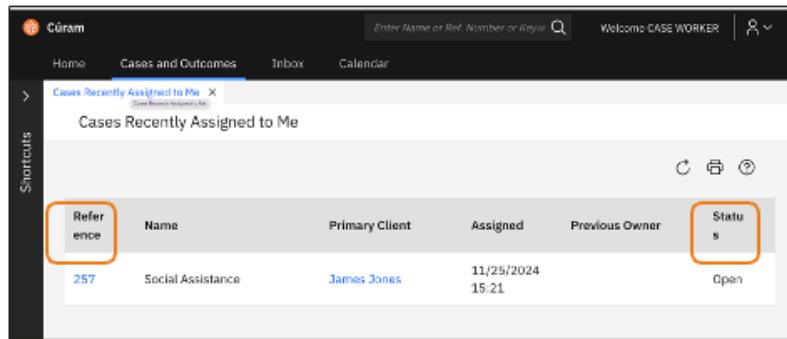
9. List tables without actions menus are breaking words and not scrolling horizontally when zoomed

List tables without actions menus are breaking words and not scrolling horizontally when zoomed

#### **Before 8.1.3**

When inline action menus for lists are enabled, list tables without action menus do not use auto layout. As a result, they do not scroll horizontally when there isn't enough space, such as when zooming.

Instead, words break to fit within the available space, making the table headers more difficult to read.



Reference	Name	Primary Client	Assigned	Previous Owner	Status
257	Social Assistance	James Jones	11/25/2024 15:21		Open

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Prior to 8.1.3, words were breaking to fit within the available space, making the table headers more difficult to read.

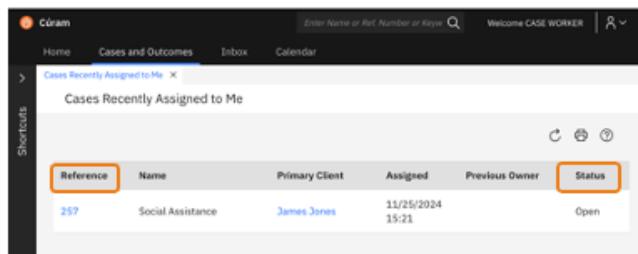
The problem is when inline action menus for lists are enabled, list tables without action menus do not use auto layout.

As a result, they did not scroll horizontally when there wasn't enough space, such as when zooming.

List tables without actions menus are breaking words and not scrolling horizontally when zoomed

#### In 8.1.3

Auto layout has been applied to all lists, and column headers now scroll horizontally when there isn't enough space to display the content within the table.



Reference	Name	Primary Client	Assigned	Previous Owner	Status
257	Social Assistance	James Jones	11/25/2024 15:21		Open

Previously we had a condition that checked if the Display Inline Actions is enabled, if enabled then the Auto Layout is applied.

In 8.1.3.0, Auto Layout is applied to all lists regardless of whether Display Inline Actions is enabled or not.

As a result, the ability to turn off the auto layout mode has also been removed.

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In 8.1.3 auto layout has been applied to all lists. This means that column headers now scroll horizontally where there is not enough space to display all the content within the table

Previously we had a condition that checked if the Display Inline Actions is enabled, if enabled then the Auto Layout is applied.

Now Auto Layout is automatically applied to all lists regardless of whether Display Inline Actions is enabled or not.

As a result, the ability to turn off the auto layout mode has also been removed.

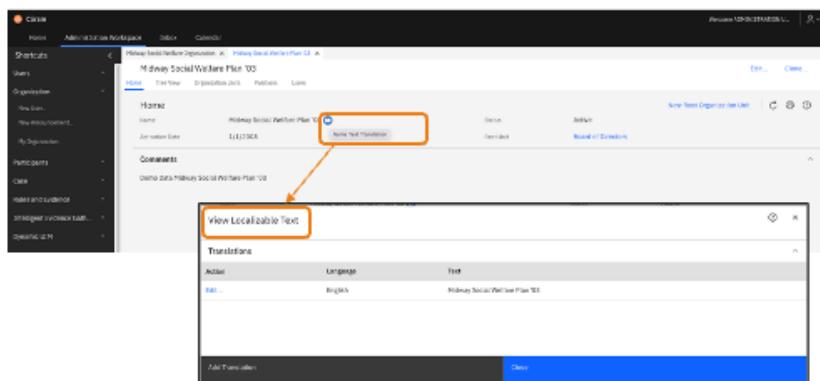
Button labels used to launch certain dialogs do not match the dialog headings

10. Button labels used to launch certain dialogs do not match the dialog headings

Button labels used to launch certain dialogs do not match the dialog headings

#### Before 8.1.3

The button labels used to launch certain dialogs do not match the dialog headings, which can cause confusion when navigating the application.



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Before 8.1.3, the button labels used to launch certain dialogs did not match the dialog headings, which caused confusion when navigating the application. In the example shown the button label was 'Name Text Translation' and the dialogue heading was 'View Localizable Text'

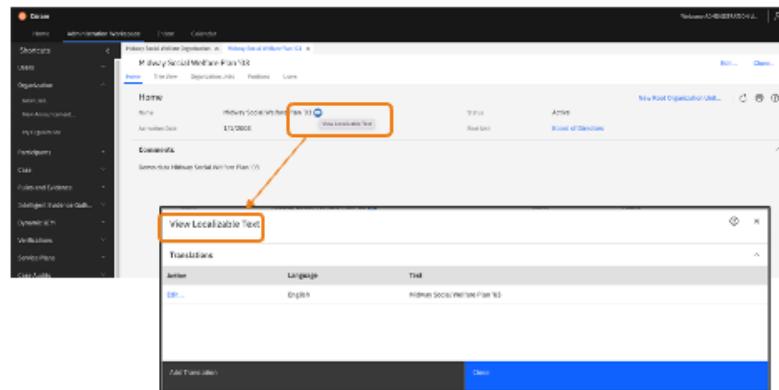
Button labels used to launch certain dialogs do not match the dialog headings

#### In 8.1.3

The link text in the associated properties file for each affected UIM page was updated to match the title of the page that it opens i.e. "View Localizable Text"

This pattern occurs in multiple places throughout the administration application.

The following areas have also been updated: Organization, Quick Links, Delivery Patterns, Milestones, Outcome Management and Universal Access.



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In 8.1.3, the link text has been updated to match the dialogue heading. See 'View Localizable Text'.

This was updated in the properties file for each affected UIM page. The pattern is evident in multiple places throughout the administration application.

The link update was made in Organization, Quick Links, Delivery Patterns, Milestones, Outcome Management and Universal Access.

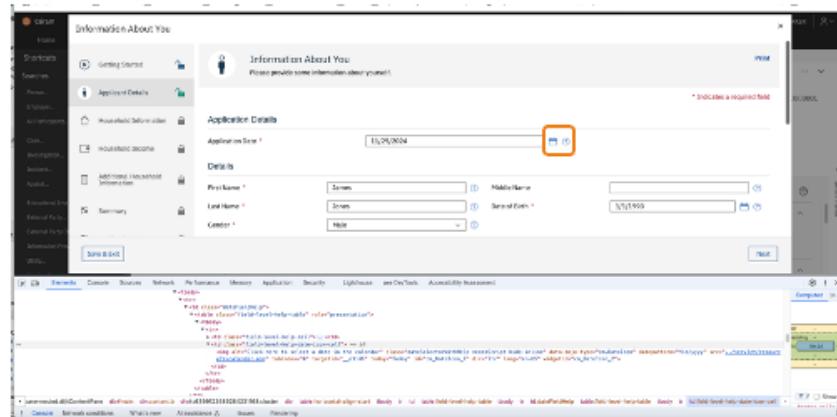
Focus not visible  
when Calendar icon in  
IEG receives the focus

#### 11. Focus not visible when Calendar icon in IEG receives the focus

## Focus not visible when Calendar icon in IEG receives the focus

### Before 8.1.3

The focus indicator is not visible when the calendar icon in IEG receives focus.



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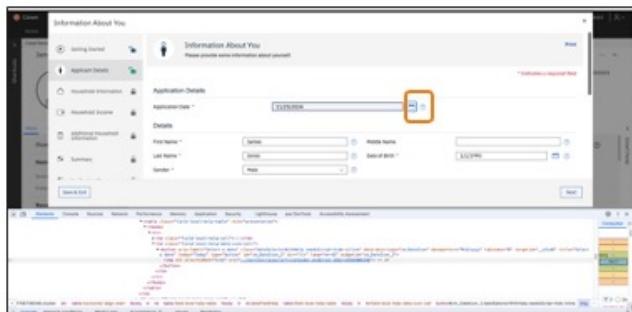
36

Prior to 8.1.3, the focus indicator was not visible when the calendar in IEG received focus

## Focus not visible when Calendar icon in IEG receives the focus

### In 8.1.3

A button element has been added to contain the calendar icon, and the focus is now visible.



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### Technical Considerations

- Used a button element and provided a title attribute and aria-label on the button. Reused the text from the img alt attribute: "Select a date".
- The title attribute is for sighted users, the aria-label is for screen readers/assistive technology.

### Files updated to make this change:

- EJBServer/components/IntelligentEvidenceGathering/data/initial/blob/ieg-config.properties
- EJBServer/components/IntelligentEvidenceGathering/data/initial/blob/ieg-css-template.css

### New text added to the properties file:

calendar.button.title=Select a date  
EJBServer/components/IntelligentEvidenceGathering/data/initial/blob/ieg-config.properties

In 8.1.3, a button element has been added to contain the calendar icon. This means that the focus indicator is now visible when the calendar icon in IEG receives focus.

Some technical details about this change:

A button element was used and also provided a title attribute and aria-label on the button. Reused the text from the img alt attribute: "Select a date".

Note: The title attribute is for sighted users, the aria-label is for screen readers/assistive technology.

Two IEG files were updated to make this change:

- EJBServer/components/IntelligentEvidenceGathering/data/initial/blob/ieg-config.properties
- EJBServer/components/IntelligentEvidenceGathering/data/initial/blob/ieg-css-template.css

Also new text was added to the properties file.

The focus marker is not displayed for the options of a single-select IEG List question which is displayed as a dropdown

12. The focus marker is not displayed for the options of a single-select IEG List question which is displayed as a dropdown

The focus marker is not displayed for the options of a single-select IEG List question which is displayed as a dropdown

#### **Before 8.1.3**

The focus indicator is not displayed for keyboard users when navigating through the options of a single-select Intelligent Evidence Gathering (IEG) list question displayed as a dropdown menu.

A screenshot of a web-based survey application. The page title is 'Extra Household Information'. It contains two questions: 'Is anyone in your household disabled?' and 'Is anyone in your household pregnant?'. Below these questions is a dropdown menu with three options: 'No', 'Yes', and 'Don't know'. The 'Yes' option is highlighted with an orange rectangle. At the bottom right of the page are 'Back' and 'Next' buttons.

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Before 8.1.3, The focus indicator was not displayed for keyboard users when navigating through the options of a single-select Intelligent Evidence Gathering (IEG) list question displayed as a dropdown menu.

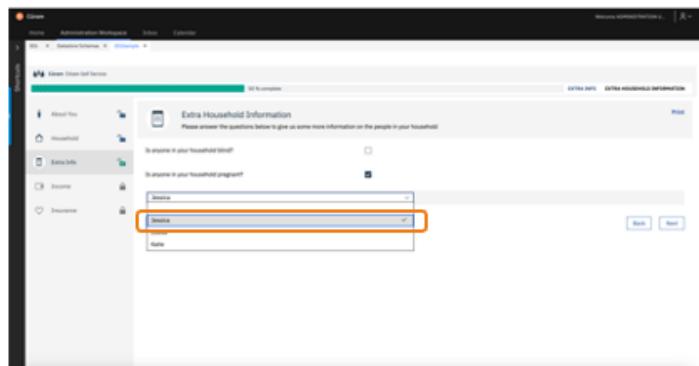
The focus marker is not displayed for the options of a single-select IEG List question which is displayed as a dropdown

#### **In 8.1.3**

The focus indicator is now displayed for keyboard users when navigating through the options of a single-select IEG list question displayed as a dropdown menu.

#### **Technical Considerations**

The IEG list question single select dropdown is now configured to use the filter and sort feature for dropdown menus when it has been enabled in Cúram.



In 8.1.3 the focus indicator is now displayed for keyboard users when navigating through the options of a single-select Intelligent Evidence Gathering (IEG) list question displayed as a dropdown menu.

This was achieved by configuring the IEG list question single select dropdown to use the filter and sort feature for dropdown menus, when it has been enabled in Cúram.

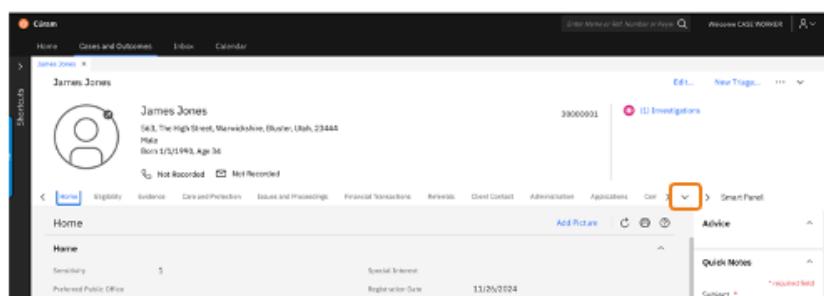
Focus is not shown  
when the user navigates  
to the navigation menu  
in the content area  
navigation bar

13. Focus is not shown when the user navigates to the navigation menu in the content area navigation bar

Focus is not shown when the user navigates to the navigation menu in the content area navigation bar

#### **Before 8.1.3**

The focus is not visible when the user navigates to the navigation menu button in the content area navigation bar.



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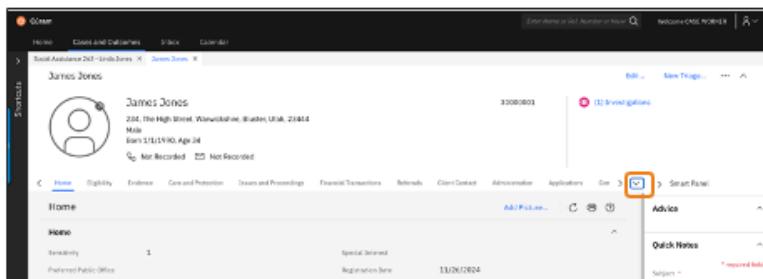
42

Before 8.1.3, the focus was not visible when the user navigated to the navigation menu button in the content area navigation bar.

Focus is not shown when the user navigates to the navigation menu in the content area navigation bar

### In 8.1.3

The focus now properly moves to the navigation menu button, making it visible.



### Technical & Upgrade Considerations

The following file in the **TI** repository has been updated:

`TI/client/CoreInf/CuramCDEJ/lib/curam/web/themes/curam/css/curam_navigation_tabs.css`

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In 8.1.3, the focus is now visible when the user navigates to the navigation menu button in the content area navigation bar.

The technical update was to update the following file in the **TI** repository:

`TI/client/CoreInf/CuramCDEJ/lib/curam/web/themes/curam/css/curam_navigation_tabs.css`

Focus is not shown clearly when the user navigates to email on the person context panel

14. Focus is not shown clearly when the user navigates to email on the person context panel

Focus is not shown clearly when the user navigates to email on the person context panel

#### **Before 8.1.3**

The focus is not visible when the user navigates to the email content in the person context panel using a keyboard.



#### **In 8.1.3**

The focus now moves to the email link on the person context panel and is fully visible.



Before 8.1.3, the focus was not visible when the user navigated to the email content in the person context panel using a keyboard.

In 8.1.3, the focus is visible when the user navigates to the email content in the person context panel using a keyboard.

CURAM - ACCESSIBILITY

## Visualization of Reserved Tasks

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### 15. Visualization of Reserved Tasks

## Visualization of Reserved Tasks

### Before 8.1.3

- Previously the first column on task list pages was not accessible.
- The column displayed visual indicator but no visible column name that described the purpose of the column to accessible users.
- The column content displayed an orange icon to indicate the task was reserved and an invisible icon for an unreserved task but no legend/inline text that explained the actual meaning.

The screenshot shows the Caseworker interface with the 'Cases and Outcomes' tab selected. On the left, there's a sidebar with various navigation links like 'Shelters', 'Searches', 'Registration', 'Person...', 'Prosper Person...', 'Employee...', 'Prosper Employee...', 'Educational Institutions...', 'External Party...', 'Information Provider...', 'Utilities...', 'Product Provider...', 'Service Supplier...', 'Cases', 'Investigations', 'Social Enterprise Folders', and 'Outcome Plans'. The main area displays a case summary for 'Social Assistance - Ann Jones' with a profile picture of 'Ann Jones'. Below this is a 'Tasks' section with a table. The table has columns: 'Task ID', 'Subject', 'Priority', 'Status', and 'Deadline'. Two rows are shown: one for task 259 with subject 'Task for supervisor' and another for task 327 with subject 'Task for caseworker'. The 'Task ID' column for both rows contains an orange square icon with a white dot, indicating it's a reserved task. The 'Status' column for both rows shows 'Open'. The 'Deadline' column is empty.

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Before 8.1.3, the first column on the task list pages was not accessible.

The column displayed visual indicator but no visible column name that describe the purpose of the column to accessible users.

The column content displayed an orange icon to indicate the task was reserved and an invisible icon for an unreserved task but no legend/inline text that explained the actual meaning.

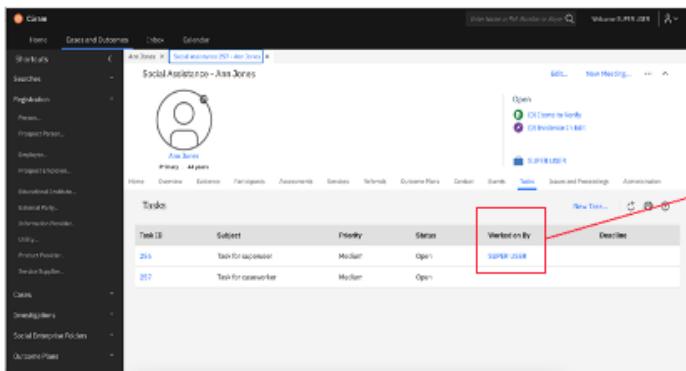
When viewing the tasks list pages, caseworkers were facing challenges in understanding which user a task is reserved to.

## Visualization of Reserved Tasks

### In 8.1.3

Caseworkers are now able to see at first glance which tasks are reserved and by which user.

The Task list pages now include a new column titled 'Worked on By'. If the column is populated with a username, this indicates that the task is reserved and which user the task is reserved to.



The screenshot shows a 'Social Assistance - Jim Jones' task page. On the left is a navigation sidebar with links like Home, Search, Projects, and Reports. The main area has tabs for Home, Overview, Details, Participants, Assessment, Goals, Referrals, Outcome Plans, Contact, Tasks, and Help. The 'Tasks' tab is selected. A table lists two tasks:

Task ID	Subject	Priority	Status	Worked on By
201	Task for supervisor	Medium	Open	JIMMY JONES
202	Task for caseworker	Medium	Open	

A red box highlights the 'Worked on By' column for the first task. An arrow points from this box to a separate 'User Details' window on the right, which displays information for 'JIMMY JONES'.

Clicking on the 'Worked on By' name will provide additional user details.

User Details	
Username: JIMMY	User Name: JIMMY
Title: Caseworker	Office: Admin
Employee Role: Caseworker	
Contact Details	
Business Phone: 123-4567	Personal Phone: 123-4567
Business Email: jones.jim@caseworker.com	Personal Email: jones.jim@caseworker.com
Mobile: 123-4567	Fax: 123-4567
Pager: 123-4567	

In 8.1.3, the task list pages are updated to include a new column, 'Worked on By'.

If the column is populated with a username, this indicates that the task is reserved and which user the task is reserved to. Clicking on the 'Worked on By' name will provide additional user details.

The column enables the caseworkers to be able to see at first glance which tasks are reserved and by which user.

## Visualization of Reserved Tasks

### Technical Considerations

Updates were made to the following Task pages in Cúram:

```

Appeal_ListHearingCaseIssueTaskForIC
Appeal_ListHearingCaseTask
Appeal_ListJudicialReviewTaskForIC
Appeal_ListJudicialReviewTask
Appeal_ListJudicialReviewIssueTaskForIC
Appeal_ListHearingReviewTaskForIC
Appeal_ListHearingReviewTask
Appeal_ListHearingReviewIssueTaskForIC
Appeal_ListHearingCaseTaskForIC

DecisionAssistApplication_ListTaskNoCOC
DecisionAssistApplication_ListTaskNoCOCMultiSourceAC
DecisionAssistApplication_ListTaskNoCOCMultiSourceMC
DecisionAssistApplication_ListTaskNoCOCSingleSource
DecisionAssistApplication_ListTaskWithCOC

DefaultIC_ListTask
DefaultICEmployer_ListTask
DefaultICInformationProvider_ListTask
DefaultICMember_ListTask
DefaultICProduct_ListTask
DefaultICProductProvider_ListTask
DefaultICProspectPerson_ListTask
DefaultICRepresentative_ListTask
DefaultICServiceSupplier_ListTask
DefaultICUtility_ListTask

```

ICBenefitUnderPayment_ListTask	LiabilityOverBilling_ListTask	Person_ListTask
ICEmployer_ListTask	LiabilitySample_ListTask	Person_ListTaskForDuplicate
ICInformationProvider_ListTask	LIFCProduct_ListTask	ProductProvider_ListTask
ICInvestigationSample_ListTask	LTCProduct_ListTask	ProspectEmployer_ListTask
ICMember_ListTask	MAMPProduct_ListTask	ProspectPerson_ListTask
ICPerson_ListTask	PaymentCorrection_ListTask	ProviderInvestigation_ListTask
ICProductProvider_ListTask	PDBenefitUnderPayment_ListTask	RefugeeProduct_ListTask
ICProductSample_ListTask	IssueDelivery_ListTask	Screening_ListTask
ICProspectPerson_ListTask	IssueDelivery_ListTaskForAppeal	ServicePlanDelivery_ListTask
ICRepresentative_ListTask	LegalAction_ListTask	ServicePlanDelivery_ListTask
ICSample_ListTask	CYSIntegratedCase_ListMemberTask	ServiceSupplier_ListTask
ICSampleSportingGrant_ListTask	CYSIntegratedCase_ListTask	TBCC_ListTask
ICServiceSupplier_ListTask	ICBenefitUnderPayment_ListTask	Utility_ListTask
ICSportingGrantSample_ListTask	ICEmployer_ListTask	Employer_ListTask
ICUtility_ListTask	ICInformationProvider_ListTask	ExternalParty_ListTask
	ICInvestigationSample_ListTask	Case_ListTasks
	ICMember_ListTask	BenefitSample_ListTask
	ICPerson_ListTask	BenefitSampleOverpayment_ListTask
	ICProductProvider_ListTask	CHIPPremiumsProduct_ListTask
	ICProductSample_ListTask	CHIPProduct_ListTask
	ICProspectPerson_ListTask	
	ICRepresentative_ListTask	
	ICSample_ListTask	
	ICSampleSportingGrant_ListTask	
	ICServiceSupplier_ListTask	
	ICSportingGrantSample_ListTask	
	ICUtility_ListTask	
		IncomeScreening_ListTask
		IncomeSupportScreening_ListTask
		InformationProvider_ListTask
		InvestigationSample_ListTask

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This slide shows all tasks list pages which have been updated to include the new column, 'Worked on By'.

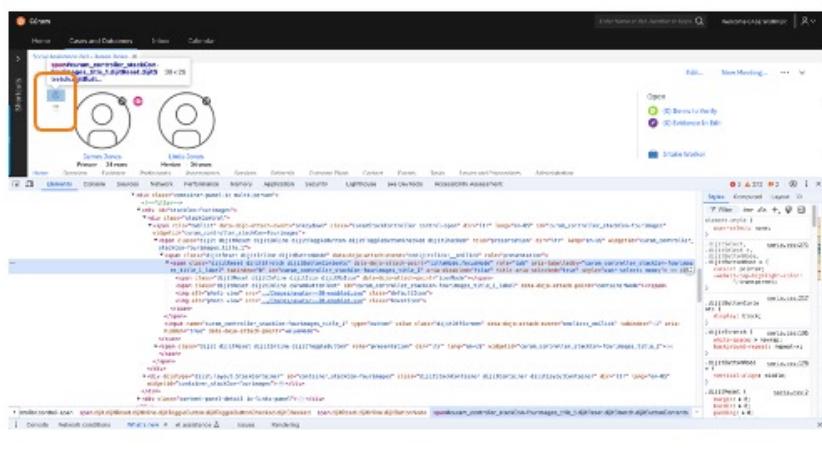
No labels defined for  
Photo & List view tabs in  
context panel

## 16. No labels defined for Photo & List view tabs in context panel

No labels defined for Photo & List view tabs in context panel

### Before 8.1.3

The Photo View and List View tabs in the context panel are missing property elements, which may cause accessibility issues.



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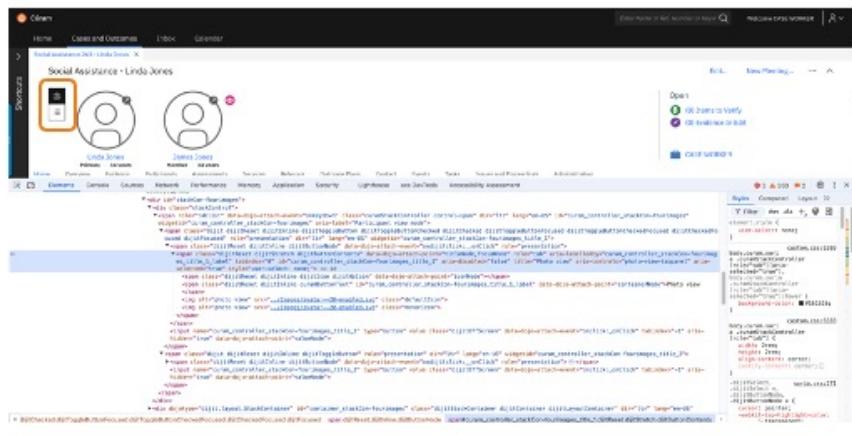
Before 8.1.3, the Photo View and List View tabs in the context panel were missing property elements, which caused accessibility issues

No labels defined for Photo & List view tabs in context panel

### In 8.1.3

The Photo View and List View tabs in the context panel now contain property elements.

There is a visual indication of which tab is selected either Photo view or List View



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In 8.1.3, the Photo View and List View tabs in the context panel now contain property elements. There is a visual indication of which tab is selected either Photo view or List View

## Technical & Upgrade Considerations

### **Technical Considerations**

An aria-controls property has been added for each element with a role tab, the 'aria-label' Participant view mode has been added, and there is now only one tabstop for the tablist  
Updates were made to the following files in TI, CEFWidgets, SPM-EntMods, HCR and CFSS repository

- (1) Ti/component/client-inf/jscript/javascript-properties/default/CuramStackController.js.properties (**NEW**)
- (2) CEFWidgets/webclient/components/CEFWidgets/css/stackContainer.css
- (3) CEFWidgets/webclient/components/CEFWidgets/css/integratedCase.css
- (4) SPM-EntMods/webclient/components/Appeal/css/appealhearing.css
- (5) SPM-EntMods/webclient/components/CommonIntake/css/ApplicationCaseContextPanel.css
- (6) SPM-EntMods/webclient/components/AssessmentPlanning/css/OutcomePlanContextPanel.css
- (7) HCR/webclient/components/ISProduct/css/StackContainerC.css
- (8) HCR/webclient/components/ISProduct/css/cfiss-application-case.css
- (9) CFSS/webclient/components/ChildServices/css/cfss-integratedCase.css
- (10) CFSS/webclient/components/ChildServices/css/cfss-ongoing-case-context-panel.css

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### **Upgrade Considerations**

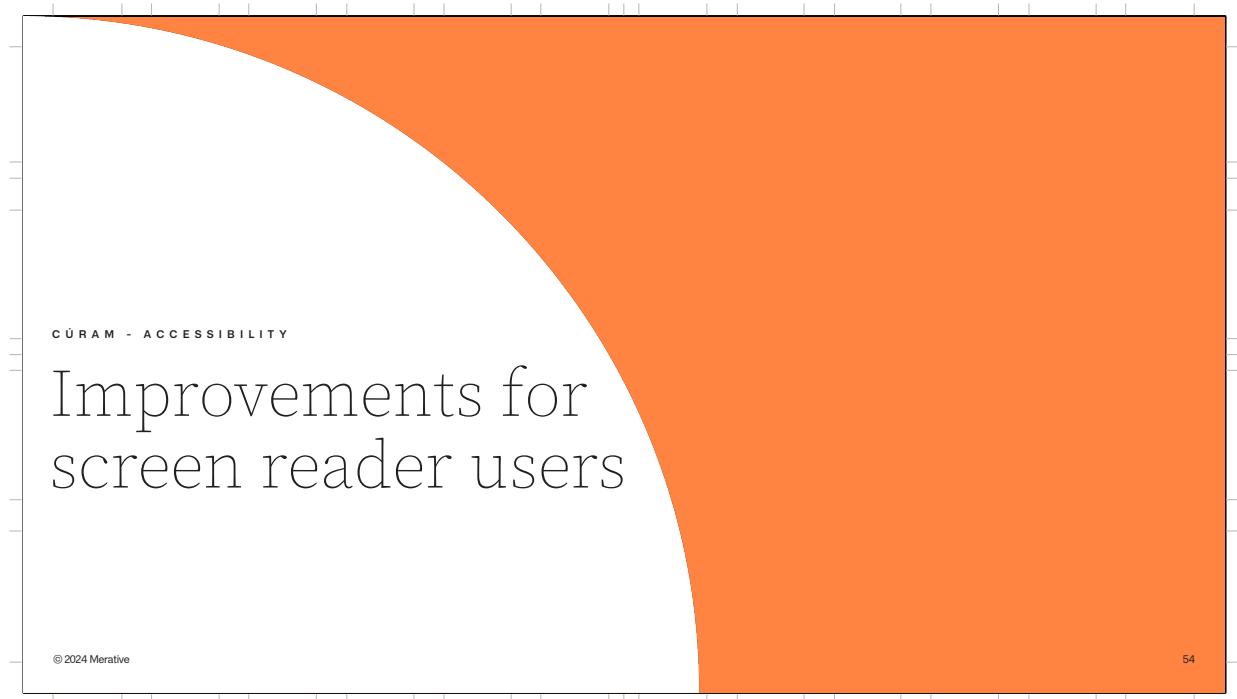
Clients upgrading to 8.1.3.0 will notice changes that labels are defined for the Photo View and List View tabs in the context panel and there will be visual indication of which tab is selected either Photo view or List View.

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The technical approach to this issue was to add an aria-controls property for each element with a role tab, the 'aria-label' Participant view mode has been added, and there is now only one tabstop for the tablist

Updates were made to the 11 files in TI, CEFWidgets, SPM-EntMods, HCR and CFSS repository

Clients upgrading to 8.1.3.0 will notice changes that labels are defined for the Photo View and List View tabs in the context panel and there will be visual indication of which tab is selected either Photo view or List View



This section groups the list of screen reader improvements to aid the visually impaired users in navigating through the Cúram Case worker application

The following screen reader improvements are available in 8.1.3.0

Problem	Resolution	WCAG
1. IEG mandatory radio button and multi-select questions are not announced as mandatory by screen readers	The legend text for radio buttons and multi-select questions has been updated to append a mandatory indicator. This indicator will be announced by screen readers.	1.3.1
2. Screen reader reads Blank before reading Information text about no tabs opened when there are no tabs opened in a section	The screen reader now reads the information text present when no tabs are opened.	1.3.1
3. Links in Context Panel should be part of the list and each link should be a list item	The links in the context panel have been updated to be part of an unordered list (<ul>), with each link correctly displayed as a list item (<li>), this will allow screen reader users to navigate the application efficiently.	1.3.1
4. Screen reader announces invisible non-actionable elements *	The issue is resolved, the screen reader does not read the non-focused elements in the shortcuts panel when attention is shifted to a different element when all the tabs are closed on the workspace.	1.3.1
5. Screen reader does not announce Required Date fields as mandatory	All required date input fields are announced as mandatory in the same manner as text fields.	1.3.1
6. Graphical View Instance Data Details table is missing table header elements *	The previous cluster implementation, which used dl, dt, and dd tags, has now been replaced with a table implementation.	1.3.1
7. Screen reader not reading the legend text for check-boxes group on search pages	Legend text is present for all the affected searches, but the associated CSS class was 'hidden'. Updated this to unhide the class.	1.3.1
8. How to close Application tabs info not available for screen reader users and for keyboard users unless they read documentation	The close icon [X] on application tabs is now focusable. When the icon is selected, the screen reader announces the tab title correctly, and the close action can be activated by clicking Enter.	2.1.1

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The first 8 screen reader improvements are described by detailing the Problem and the resolution applied. The associated WCAG Checkpoint reference is also supplied for each item.

The following screen reader improvements are available in 8.1.3.0

Problem	Resolution	WCAG
9. Heading structure in all modal windows and wizard modals within Cúram is incorrect	The heading structure in the Register Person modal window has been corrected. Now, 'Register Person' is properly displayed as a <h2> tag, and 'Step 2: Registration' is displayed as a <h3> tag, this will allow screen reader users to navigate the application more easily.	2.4.6
10. Label for expand/collapse context panel button is not meaningful and does not describe its purpose	The 'aria-label' has been updated to include the context. When the context panel is expanded, the screen reader announces 'Context Panel, button, expanded', and when it is collapsed, it announces 'Context Panel, button, collapsed'. Additionally, the tooltip shows 'Expand Context Panel' when the panel is collapsed and 'Collapse Context Panel' when the panel is expanded, providing clear visual feedback for sighted users.	2.4.6
11. Accessibility issues with the Search button in the Application Search	The screen reader now announces 'Search' for the input field and 'Search' when the search button is selected, the repetitive text has been removed. The underlying HTML has been updated to a button tag. This will assist screen reader users in navigating the search fields.	4.1.2
12. iFrames within expandable lists have empty title HTML attributes	The title attribute has been added to the iFrames, improving navigation for screen reader users.	4.1.2
13. Issue with the aria-expanded="false" attribute added to the div element	Two updates were made to address this issue: Removed the 'aria-expanded' attribute from the DropDownBox.html template for elements where role="presentation" is set. Modified the openDropDown and closeDropDown functions in FilteringSelect.js such that 'aria-expanded' is removed from buttonNode.	4.1.2

The screen reader improvements (numbered 9 to 13) are described by detailing the problem and the resolution applied  
The associated WCAG Checkpoint reference is also supplied for each item.

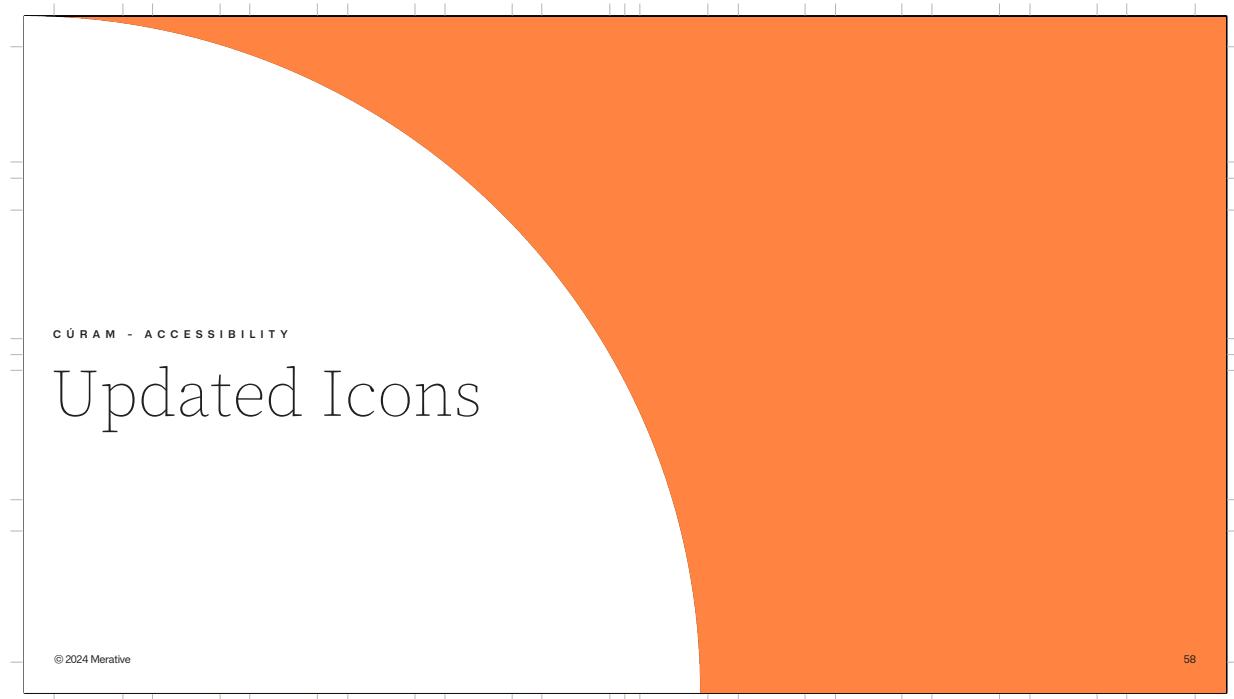
The following screen reader improvements are available in 8.1.3.0

Problem	Resolution	WCAG
14. Empty <h1> Heading on Calendar page causing Accessibility violations	The properties file is updated to populate appropriate text and the accessibility violation has been resolved.	4.1.2
15. Screens with file upload widgets do not announce the name of the selected file when accessed by screen readers	The name of the selected file is now announced by the screen reader.	4.1.2
16. The shortcuts and smart panel buttons have a nested interactive control button *	The shortcuts and smart panel buttons now have one nested interactive control button.	4.1.2
17. Screen reader does not inform the impaired user when in-page navigation buttons are selected	The 'aria-pressed' attribute has been added to each in-page navigation button. The value of this attribute is set to true for the currently selected button and false for all other buttons. This improvement will make it easier for screen reader users to navigate the application.	4.1.2
18. The browse button label in Attachment dialogs has a generic description and doesn't clearly describe its purpose	A screen reader now announces the purpose of the Browse button, which is to upload a file.	4.1.2

For full details of each screen reader improvement, consult the External release notes

The screen reader improvements (numbered 14 to 18) are described by detailing the problem and the resolution applied  
The associated WCAG Checkpoint reference is also supplied for each item.

To view full details of each problem and resolution, consult the release notes.



This section groups the list of icons that have been updated in 8.1.3

The following Icons are updated and available in 8.1.3.0

Icon	Resolution
1. Reserved icon for a task	The icon has been removed and replaced by a new column titled 'Worked on by'.
2.Appealed Items & Appealed items awaiting approval icons on Appeal case context panel	The icons have been replaced and the accessibility checks and now passes the non-text contrast accessibility check
3.Ongoing Cases icon	The icon has been replaced and now passes the non-text contrast accessibility check
4.Expedited icon	The icon has been replaced and now passes the non-text contrast accessibility check
5.Successful & Unsuccessful icons in Outcome Plan workspace	The icons have been replaced and now passes the non-text contrast accessibility check
6.Income Support 'Federal Time Limit'/'days reaching limit' icon	The icon has been replaced and now passes the non-text contrast accessibility check
7.Todo tick icon on the income support application home page	The icon has been replaced and now passes the non-text contrast accessibility check

Number 1 on this list relates to the reserved icon for a Task, this has now been removed and is replaced by a new column title 'Worked on By'  
The items listed from 2 to 7 have all been replaced and now passes the non-text color contrast accessibility check

# Cúram Security Enhancements

Cúram 8.1.3 Enablement Material

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Hello and welcome to this deep dive presentation that introduces the enhancements to Cúram Security Enhancements that are available in Merative Curam (SPM) 8.1.3.0.

Note: We have supporting documentation with these enhancements in the Whats New guide and specific Curam Product Documentation pdfs with more in-depth technical details.

The focus on these enhancements is within the security access and authentication area.



SECURITY TEAM / TECHNICAL INFRASTRUCTURE

OpenID Connect (OIDC)  
Authentication Support and  
Enhancements to Cúram Login Module  
and SAML Authentication

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Firstly, we have listened to customers' requirements and implemented extended support for authentication methods.

Security Assertion Markup Language (SAML) is the authentication standard currently adapted in Curam it allows for single sign on authentication.

OIDC is a more lightweight approach to SAML which is an open standard and more suitable for REST whereas SAML 2.0 is targeted at enterprise-level SSO in legacy systems and federated identity management.

OIDC allows user access and OIDC authenticates the user with an application, so work to support this framework has started.

**OIDC:** Designed for APIs and uses HTTP/REST for communication.

**SAML:** Uses browser-based communication with redirects and POSTs.

## OIDC Authentication

### **Business Problem:**

Customers aim to implement their own security strategies and require OIDC (OpenID Connect) support within the Cúram application, leveraging REST for secure access and authentication.

### **Before:**

JAAS and SAML have previously served as the foundational security frameworks for access and authentication, they are not well suited for REST based architectures, which require more lightweight and flexible protocols..

### **After:**

OIDC has been seamlessly integrated into our authentication framework and protocols, providing customers with greater flexibility and an expanded range of options to choose the most suitable security framework for their needs. Additionally, SAML SSO support has been enhanced to accommodate a broader array of Cúram authentication features.

Improving the authentication coverage for Cúram has been ongoing for the past number of releases and will continue to be.

Please see the Cúram Security Handbook <https://curam-spm-devops.github.io/wh-support-docs/spm/pdf-documentation#curam-813> for the information detailing the security updates that have been made.

Support for this framework is currently for IBM WebSphere Liberty  
Before customers didn't have a choice of security frameworks to choose from when adopting their access and authentication.  
Now for Liberty customers this ability to choose OIDC is now available as an option.

## Technical Considerations

### **What is provided?**

This enhancement has been added for IBM WebSphere Liberty

- OIDC support for REST-based B2B scenarios.
- Documentation for implementing REST B2B using the Resource Owner Password Credentials (ROPC) flow as a starting point and other options are configurable depending on customer security needs.
- Alternate Login ID support for both OIDC and SAML.
- Security cache population for OIDC and SAML flows.
- Population of the AuthenticationLog table for logins using OIDC and SAML.
- Comprehensive documentation for configuring IBM® WebSphere® Liberty with Keycloak as the OIDC provider (OP) and Identity Provider (IdP) for SAML

### **Upgrade**

#### **What do you need to do?**

For more in-depth explanation of the details in this security enhancements please refer to the CuramSecurityHandbook for enhanced documentation on enabling OIDC and SAML for IBM WebSphere Liberty.

See the Tables in the following slides for supported authentication controls and features for each supported Curam Application Server.

For more information on these settings, see the chapter in the Cúram Security Handbook

\* <https://curam-spm-devops.github.io/wh-support-docs/spm/pdf-documentation#curam-813> (click the link to download the 8.1.3.0 product documentation

Within the PDF813 folder select the CuramSerurityHandbook\_813.pdf  
The topic in this guide is **Configuring SSO** these 16 pages step through the SSO topic and detail the setup of OIDC.

IBM WebSphere Liberty	Curam	Browser	Curam	SAMLSSO ✓	Supported/Tested Features	
					User verification ✓	
					Alternate Login ID ✓	
					Security Cache ✓	
					Authentication Log ✓	
					User verification ✓	
					Alternate Login ID ✓	
					Security Cache ✓	
					Authentication Log ✓	
IBM WebSphere Liberty	CE	CE	Basic (JAAS) ✓	All features ✓	Supported/Tested Features	
					User verification ✓	
					Alternate Login ID ✓	
					Security Cache ✓	
					Authentication Log ✓	
					OIDC ✗	N/A
					Basic (JAAS) ✓	All features ✓
					User verification ✓	
					Alternate Login ID ✓	
IBM WebSphere Liberty	REST	REST	Basic (JAAS) ✓	All features ✓	Supported/Tested Features	
					User verification ✓	
					Alternate Login ID ✓	
					Security Cache ✓	
					Authentication Log ✓	
					OIDC ✓	
					SAMLSSO ✓	
					User verification ✓	
					Alternate Login ID ✓	
IBM WebSphere Liberty	Flex Editors	Curam	Basic (JAAS) ✓	All features ✓	Supported/Tested Features	
					SAMLSSO ✗	N/A
					OIDC ✗	N/A
					Basic (JAAS) ✓	All features ✓
					SAMLSSO ✗	N/A
					OIDC ✗	N/A
					Basic (JAAS) ✓	All features ✓
					SAMLSSO ✗	N/A
					OIDC ✗	N/A
IBM WebSphere Liberty	Soap WebServices	Curam	Basic (JAAS) ✓	All features ✓	Supported/Tested Features	
					SAMLSSO ✗	N/A
					OIDC ✗	N/A
					Basic (JAAS) ✓	All features ✓
					SAMLSSO ✗	N/A
					OIDC ✗	N/A
					Basic (JAAS) ✓	All features ✓
					SAMLSSO ✗	N/A
					OIDC ✗	N/A

IBM WebSphere Liberty support coverage as you can see from the **Supported/Tested Features** column SAML and OIDC are supported across **multiple features** listed above.

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**Table 2**  
**IBM WebSphere Application Server Supported Authentication features**

- JAAS, OIDC and SAML Supported for Cúram
- OIDC not supported yet on CE
- JAAS and SAML Supported for REST
- AlternateLoginID, Security Cache and AuthenticationLog features are not currently supported

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Application Server	Access Channel	Application	Authentication method	Supported/Tested Features	
IBM WebSphere	Browser	Cúram	SAMLSSO ✓	User verification ✓	
				Alternate Login ID ✗	
				Security Cache ✗	
				Authentication Log ✗	
	CE	CE	OIDC ✓	User verification ✓	
				Alternate Login ID ✗	
				Security Cache ✗	
				Authentication Log ✗	
	REST Client	REST	Basic (JAAS) ✓	All features ✓	
			SAMLSSO ✓	User verification ✓	
				Alternate Login ID ✗	
				Security Cache ✗	
	Flex Editors	Cúram	OIDC ✗	N/A	
			Basic (JAAS) ✓	All features ✓	
			SAMLSSO ✗	N/A	
	Soap WebServices	Cúram	OIDC ✗	N/A	
			Basic (JAAS) ✓	All features ✓	
			SAMLSSO ✗	N/A	

IBM WebSphere Application Server support coverage as you can see from the **Supported/Tested Features** column SAML and OIDC are supported specifically for **user verification** feature

**Table 3**  
**Oracle Weblogic Application Server Supported Authentication features**

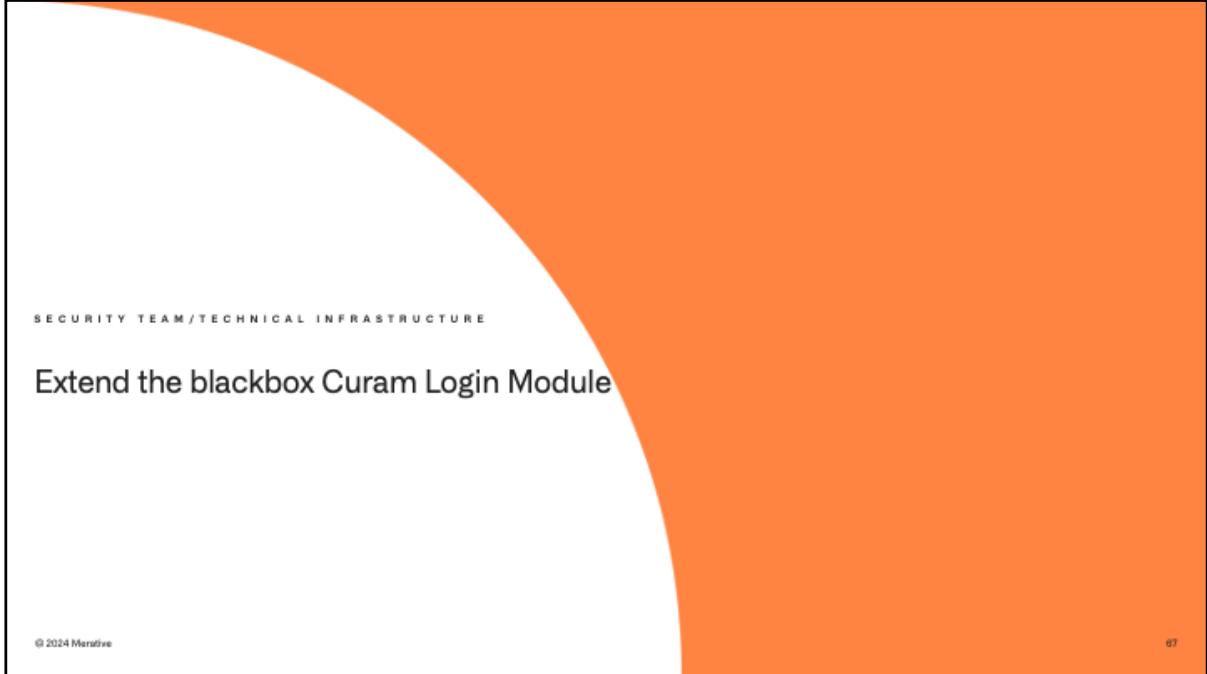
- JAAS and SAML Supported for Curam
- OIDC not supported/Tested
- JAAS and SAML Supported for REST
- AlternateLoginID, Security Cache and AuthenticationLog features are not currently supported

Application Server	Access Channel	Application	Authentication method	Supported/Tested Features
Oracle Weblogic	Browser	Curam	SAMLSSO ✓	User verification ✓ Alternate Login ID ✗ Security Cache ✗ Authentication Log ✗
			OIDC ✗	N/A ✓
			Basic (JAAS) ✓	All features ✓
			SAMLSSO ✓	User verification ✓ Alternate Login ID ✗ Security Cache ✗ Authentication Log ✗
		CE	OIDC ✗	N/A
			Basic (JAAS) ✓	All features ✓
	REST Client	REST	SAMLSSO ✓	User verification ✓ Alternate Login ID ✗ Security Cache ✗ Authentication Log ✗
			OIDC ✗	N/A
			Basic (JAAS) ✓	All features ✓
			SAMLSSO ✗	N/A
	Flex Editors	Curam	OIDC ✗	N/A
			Basic (JAAS) ✓	All features ✓
		Soap WebServices	SAMLSSO ✗	N/A
		OIDC ✗	N/A	
		Basic (JAAS) ✓	All features ✓	

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Oracle Weblogic Application server support coverage as you can see from the Supported/Tested Features column SAML and OIDC are supported specifically for **user verification** feature



SECURITY TEAM / TECHNICAL INFRASTRUCTURE

## Extend the blackbox Curam Login Module

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Next we have the extension of our login module to allow for the addition of users to the security configuration without the need to restart the server.

Support for this new feature is currently for IBM WebSphere Liberty Application Server

Ability to extend blackbox CuramLoginModule

***Business Problem:***

Customers require the ability to dynamically add new users to their security configuration without necessitating a server restart, as restarts are impractical in typical production environments.

***Before:***

Previously, Cúram customers were required to restart their server to add a new user to the authentication security configuration.

***After:***

An enhancement has been implemented to eliminate the need for server restarts in production environments, providing support for SAML, OIDC, and the default JAAS authentication flow.

Before when customers added a new user to their security configuration a server restart was required to add this user into their configuration. Now the ability to add a user onto their security configuration without a server restart in Cúram 8.1.3.0.

## Technical Considerations

### **What is provided?**

This enhancement has been added for IBM WebSphere Liberty

An enhancement to the CuramLoginModule enables the dynamic population of newly added users in the Security Cache, eliminating the need for server restarts in production environments. This feature supports SAML, OIDC and the default JAAS authentication flow.

Dedicated authentication modules have been implemented for SAML and OIDC, providing a streamlined architecture that supports future enhancements.

\* Please refer to the CuramSecurityHandbook for enhanced documentation on CuramLoginModule and SAML/OIDC

\* <https://curam-spm-devops.github.io/wh-support-docs/spm/pdf-documentation#curam-813> (click the link to download the 8.1.3.0 product documentation)

Within the PDF813 folder select the CuramSecurityHandbook\_813.pdf  
The reference in this guide is these pg 49 (6. Security Cache Refresh) and pg 138 (Security Cache Refresh)

The security cache refresh for SAML wasn't there in previous version that was causing the server restart issue. We fixed it for SAML and also implemented it for OIDC.