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Third Wave Analytics Announces Lockbox LIMS Version 2.19

New release expands Protocol Execution configurability, flexibility, and global customization.

SAN FRANCISCO – Third Wave Analytics is pleased to announce the release of Lockbox LIMS Version 2.19, introducing significant enhancements focused on expanding configurability and flexibility within Protocol Execution. The release provides laboratory administrators with greater control over procedure workflows, user interfaces, and system customization while improving usability for laboratory personnel.

Version 2.19 delivers a range of new capabilities designed to help laboratories tailor Lockbox LIMS to their unique operational requirements without custom development.

“Version 2.19 reflects our ongoing commitment to providing laboratories with a highly configurable platform that adapts to their workflows rather than forcing them to adapt to the software. These enhancements give administrators greater flexibility to design intuitive, efficient user experiences while maintaining the scalability and compliance capabilities laboratories depend on.”

– DAVE GEBHART, DIRECTOR, PRODUCT MANAGEMENT, THIRD WAVE ANALYTICS

KEY HIGHLIGHTS OF LOCKBOX LIMS 2.19

- **Custom Supported Actions: Open Page** to launch any Visualforce page directly from Procedure Execution.
- **Custom Input Parameters** supporting Lookup, Text, and Numeric fields for Open Page, Query, and Flow actions.
- **Data Entry column width override** for greater control over page layouts.
- **Dynamic Execute Procedure Header Configuration** on a per-procedure basis.
- **Step-level Supported Action button labels** to align button text with internal terminology.
- **Custom Labels across Procedure Execution** enabling full translation and text customization.

Enhanced Protocol Execution Flexibility

A key enhancement in Version 2.19 is the introduction of Custom Supported Actions: Open Page, allowing administrators to launch any Visualforce page directly from Procedure Execution. Defined through reusable custom metadata records, Open Page actions can be configured once and leveraged across multiple protocols and procedures, simplifying administration and extending workflow possibilities.

The screenshot below illustrates the custom metadata type record used to configure the Open Page Supported Action button. Once configured, the button can be added to a procedure step, enabling users to launch a Visualforce page directly from Procedure Execution.

The screenshot shows the 'Custom Metadata Types' setup page for 'Open Page Supported Action Configuration'. The page has a header with a gear icon and the text 'SETUP Custom Metadata Types'. Below the header is the title 'Open Page Supported Action Configuration'. Underneath is a sub-header 'Open Page Supported Action Configuration Edit' with 'Save', 'Save & New', and 'Cancel' buttons. The main section is titled 'Information' and contains the following fields:

- Label: Download PDF Report
- Open Page Supported Action Configuration Name: Download_PDF_Report
- Page Name: samplePDFContent
- Action Label: Download PDF Report
- Page Parameters: Id=sampleId
- Window Behavior: New Tab
- Height: New Window
- Width: New Window

At the bottom of the form are 'Save', 'Save & New', and 'Cancel' buttons.

Figure 1 – Custom metadata type record used to configure the Open Page Supported Action button

As shown below, the configuration creates a button that opens a PDF report with a single click.

The screenshot shows the 'Document Results' page. It has a header with the text '6 Document Results'. Below the header are several fields for test results:

- Absorbance: Result (Numeric) 0.2500 AU
- Wavelengths: Result (Numeric) 315.0000
- Concentration: Result (Numeric) 1.2000 ppm
- Visual QC: Result (Text) Good

At the bottom of the page is a section titled '7 Download PDF report with Test Results'. It contains a 'Download PDF Report' button, which is highlighted with an orange box. To the right of the button are 'Set Start Time' and 'Mark Completed' buttons. At the bottom of the page are 'Mark All Completed', 'Quick Save', 'Save & Exit', 'Save & Next', 'Complete & Next', and 'Cancel' buttons.

Figure 2 – Configured button opens a PDF report with a single click

Lockbox 2.19 also introduces Custom Input Parameters, enabling administrators to configure additional inputs for custom supported actions, including Open Page, Query, and Flow actions. Inputs can be configured as Lookup, Text, or Numeric fields, providing greater flexibility for capturing and passing information during protocol execution.

Improved User Experience and Workflow Configuration

To further enhance procedure execution, administrators can now configure an optional override for Data Entry column width, providing greater control over page layouts and improving usability for different workflow requirements.

The release also introduces Dynamic Execute Procedure Header Configuration, allowing organizations to customize the information displayed at the top of the Execute Procedure page on a per-procedure basis. This enables laboratories to highlight the most relevant contextual information for users during procedure execution.

In addition, Version 2.19 provides the ability to override standard Supported Action button labels at the step level, allowing organizations to align button text with internal terminology, procedures, and user expectations.

In the example below, the Supported Action button label on the Step record was modified from “Edit Plate” to “Prepare Working Solution.”

The screenshot displays the 'Step' configuration window. On the left, under 'Supported Actions', the 'Edit Plate' button is selected. A tooltip explains the override format: 'Override the labels of standard action buttons. Format: "Original Label, New Label, Original Label, New Label". If a single value is provided, it overrides all button labels.' Below this, the 'Standard Button Names Override' field contains the text 'Edit Plate, Prepare Working Solution'. The 'Filter' field is empty. The 'Insert Null Values - Data Entry Import' checkbox is unchecked. The 'Insert Null Values - Test Result Import' checkbox is also unchecked. The 'Cancel' and 'Save' buttons are at the bottom right. Below the configuration window, two examples are shown: 'Before:' and 'After:'. In the 'Before:' example, the 'Update Batch/Plate' button is highlighted with an orange box. In the 'After:' example, the 'Prepare Working Solution' button is highlighted with an orange box.

Step

Prepare the Qubit® working solution by diluting the Qubit® dsDNA HS Reagent 1:200 in Qubit® dsDNA HS Buffer. Use a clean plastic tube each time you prepare Qubit® working solution. Do not mix the working solution in a glass container.

Supported Actions

Available

- Associated Li...
- Associated S...
- Create Derived
- Create Invent...

Chosen

- Edit Plate

Override the labels of standard action buttons.
Format: "Original Label, New Label, Original Label, New Label". If a single value is provided, it overrides all button labels.

Standard Button Names Override

Edit Plate, Prepare Working Solution

Filter

Search Filters...

Insert Null Values - Data Entry Import

Insert Null Values - Test Result Import

Cancel Save

Before:

4 Prepare the Qubit® working solution by diluting the Qubit® dsDNA HS Reagent 1:200 in Qubit® dsDNA HS Buffer. Use a clean plastic tube each time you prepare Qubit® working solution. Do not mix the working solution in a glass container.

Update Batch/Plate Set Start Time Mark Completed

After:

4 Prepare the Qubit® working solution by diluting the Qubit® dsDNA HS Reagent 1:200 in Qubit® dsDNA HS Buffer. Use a clean plastic tube each time you prepare Qubit® working solution. Do not mix the working solution in a glass container.

Prepare Working Solution Set Start Time Mark Completed

Figure 3 – Step-level override of a Supported Action button label

Expanded Localization and Customization Capabilities

Lockbox LIMS Version 2.19 significantly expands system configurability by moving all Procedure Execution user interface text and error messages to Custom Labels. This enhancement enables full translation and text customization across multiple areas of the application, including:

- Procedure Execute
- Create Derived Sample
- Inventory Create
- MassTestUpdate
- Add to Pool
- Create Library
- MassFieldUpdate

By leveraging Custom Labels, organizations can more easily support multilingual environments, standardize terminology, and tailor the user experience to meet regional or organizational requirements.

Continuing the Evolution of Lockbox LIMS

Lockbox LIMS Version 2.19 is now available to customers.

To learn more about Lockbox LIMS and the latest product enhancements, visit thirdwaveanalytics.com.

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ABOUT THIRD WAVE ANALYTICS

Third Wave Analytics is a cloud computing company headquartered in San Francisco, California. Its flagship platform, Lockbox LIMS, is the world's first cloud-based, end-to-end laboratory information management system built on the Salesforce platform. Lockbox is trusted by organizations worldwide across R&D, quality control, life sciences, and industrial laboratory environments. The platform is 21 CFR Part 11 ready and supports HIPAA, GDPR, and GMP standards. For more information on Third Wave Analytics, visit thirdwaveanalytics.com/about-us.

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