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Lockbox LIMS Version 2.20 Expands Visualization, Configurability, and Workflow Management

New drag-and-drop lane planning, an expanded Object Hierarchy Visualizer, and no-code parent-child record management.

SAN FRANCISCO – Third Wave Analytics is pleased to announce the release of Lockbox LIMS Version 2.20, introducing new features and enhancements designed to give laboratories greater flexibility, visibility, and control across their workflows.

For NGS laboratories, Version 2.20 introduces new drag-and-drop functionality that makes it easier to find and assign libraries and pools to the desired Flow Cell lanes. The release also expands the Object Hierarchy Visualizer, allowing administrators to configure visualizations of parent-child relationships across different objects, not just samples.

Additional enhancements across Sequencing, Sample Tracking, Storage Management, and Protocol Execution provide laboratories with new ways to visualize complex data relationships, streamline workflows, and configure Lockbox LIMS to better support their operational requirements.

“Version 2.20 continues our focus on making Lockbox LIMS more flexible, visual, and intuitive. These new capabilities give laboratory teams better ways to manage complex relationships and workflows while providing administrators with more options to configure the system around the way their labs actually work.”

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

KEY HIGHLIGHTS OF LOCKBOX LIMS 2.20

- **Lane Visualizer** with drag-and-drop pool and library assignment across Flow Cell lanes.
- **Expanded Object Hierarchy Visualizer** for parent-child relationships across any object, without code.
- **Add/Associate Child to Parent** Lightning component and list view flow template.
- **Join IDs to String** invocable Apex action for more flexible Flows.
- **Renamable Protocol Execution buttons** for ‘Set Start Time’ and ‘Mark Completed.’

Simplify NGS Lane Planning

The new Lane Visualizer gives NGS users an interactive, drag-and-drop interface for managing pool and library assignments across the lanes of a Flow Cell. Users can easily find the library or pool they need and quickly assign it to the appropriate lane, simplifying the process of planning and managing sequencing runs.

The Lane Visualizer can also operate as a Lane Planner when placed on an individual Lane record page, providing a focused single-lane editing experience. Both modes share the same component and are distinguished automatically by the page context.

This gives sequencing teams greater flexibility to manage assignments at either the Flow Cell or individual Lane level while providing a more intuitive way to plan and organize sequencing workflows.

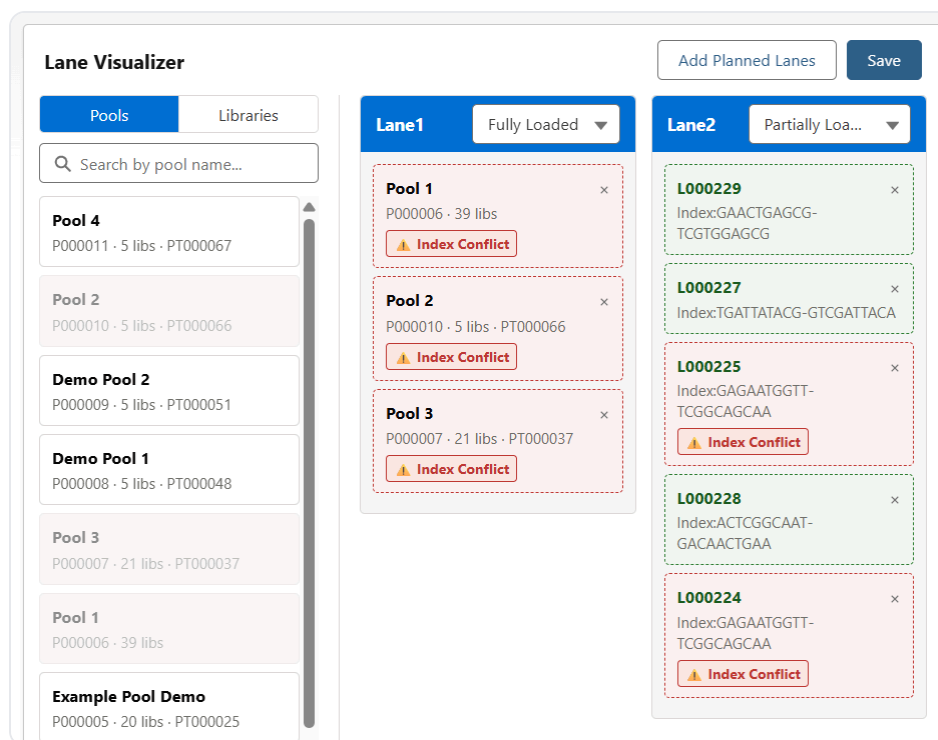


Figure 1 – Lane Visualizer for a Flow Cell with two Lanes. Lane 1 has three Pools and displays index clashing error messages. Lane 2 has five Libraries and two have duplicate indexes.

Visualize Complex Relationships

Version 2.20 delivers significant improvements to the Object Hierarchy Visualizer. This enhancement builds on the Object Hierarchy Visualizer released in version 2.14.

Previously focused on Sample relationships, the enhanced visualizer can now be configured to display parent-child relationships across different objects without code changes. This gives laboratories greater flexibility to visualize complex data relationships based on their specific workflows and data structures.

Additional configuration options include hover previews, color-coding rules, and load limits. Out-of-the-box starter configurations for Sample, Protocol, and Storage hierarchies also provide laboratories with a foundation for visualizing and navigating connected records.

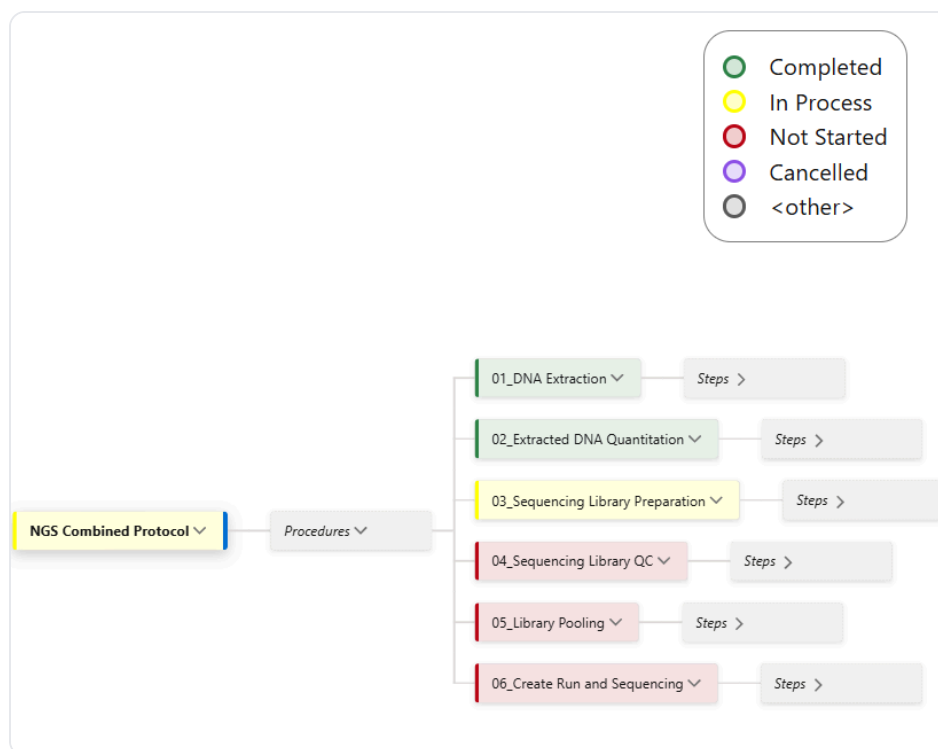


Figure 2 – Object Hierarchy Visualizer for a functional Protocol. The visualizer shows all the Procedures within the NGS Combined Protocol, and the colour coding provides insight into the status of the procedure.

Manage Parent-Child Relationships Without Code

Version 2.20 introduces a new configurable Add/Associate Child to Parent Lightning component that allows users to link child records to a parent without custom code.

The single, reusable component lets users search for child records and attach them to a parent using one of two configuration-driven approaches:

- **Add:** Sets a lookup field on the selected child records so they point directly to the parent record.
- **Associate:** Creates junction records in a bridging object to support many-to-many relationships.

Version 2.20 also introduces a reusable Launch Add/Associate Child to Parent from List View flow template. Administrators can implement the template on list views where bulk add or associate actions are needed, allowing users to select multiple records and connect them to a parent within a single workflow.

Details **Associate Samples To Plate** Plate Map

Associate Samples to Plate

Select Plate: PT000067

Search Samples: Search by Child fields

Filter Options: Select Filter

Show Samples already associated: ☒ True 12 Samples already associated

Associate Sample(s) (3)

Sample ID	Patient	Date of Collection	Requisition
☒ S001256	SBJ000035	2026-09-08	RQ000041
☒ S001257	SBJ000035		RQ000041
☒ S001258	SBJ000035		RQ000041
☐ S001259	SBJ000035		RQ000041
☐ S001245	SBJ000034	2026-09-10	RQ000040

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Associate Sample(s) (3)

Figure 3 – Associate Samples to Plate. In this example, the Add/Associate Child to Parent Lightning component is on a Plate record and is used to associate Samples to the virtual Plate.

Expand Flow Configuration Options

A new Join IDs to String invocable Apex action provides additional flexibility when building Flows. The action accepts a collection of record IDs and returns them into a single comma-separated string. This supports workflows where a downstream action requires IDs to be passed as text rather than as a collection, giving administrators another configurable tool for building and managing Flows within Lockbox LIMS.

Additional Protocol Execution Configuration Options

Version 2.20 also expands configuration options within Protocol Execution.

Administrators can now rename the ‘Set Start Time’ and ‘Mark Completed’ buttons on the Protocol Execution pages. This additional flexibility allows laboratories to tailor terminology within Lockbox LIMS to more closely reflect their workflows, processes, and user expectations.

Greater Flexibility Across Laboratory Workflows

With Version 2.20, Third Wave Analytics continues to expand the flexibility and configurability of Lockbox LIMS, giving laboratories more ways to adapt the platform to their workflows while reducing the need for custom development.

From drag-and-drop sequencing tools and expanded hierarchy visualization to configurable record relationships and Protocol Execution enhancements, Version 2.20 provides laboratories with new ways to visualize their data, simplify everyday processes, and configure Lockbox LIMS around the way their teams work.

Continuing the Evolution of Lockbox LIMS

Lockbox LIMS Version 2.20 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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