

AssayNet LIMS 4

Release Notes



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Overview

AssayNet is a robust and highly scalable client/server laboratory information management system (LIMS) designed specifically for mining laboratories. Conforming to ASTM level II specifications, it manages the entire laboratory workflow from sample reception, logging, and preparation to analysis and reporting. AssayNet features an intuitive, menu-driven interface that is easy to learn yet rich in features, providing access to a complete quality control (QC) program, quotations, invoicing, and sample storage. By automating processes and integrating with instruments, AssayNet ensures reliable, efficient operations, optimising costs and maximising sample throughput, making it ideal for mine laboratory technicians, quality control, and management.

Further Information

This document includes cumulative release notes for AssayNet LIMS 4.

Release notes for other versions of AssayNet are available via the Support Portal <https://www.dataminesoftware.com/support/>.



AssayNet LIMS 4.3 Release Notes

AssayNet LIMS 4.3.1.0 (Nov 2025)

Bug fixes and performance improvements only.

AssayNet LIMS 4.3.0.1 (Oct 2025)

Bug fixes and performance improvements only.

AssayNet LIMS 4.3.0.0 (Oct 2025)

Improved Security Model

LIMS 4 introduces a completely redesigned security model, now integrating with Active Directory for authentication and offering a new role-based access system to simplify permission management.

With Active Directory support, you can log in using your existing company credentials, ensuring compliance with your organisation's security policies. This removes the need for SQL Server-based security and allows LIMS 4 to follow standard IT practices such as centralised password management, account control, and policy enforcement.

Alongside this, default roles have been added to help you manage user access more efficiently. These roles reflect common responsibilities within the system and provide a solid starting point for permission control. You can customise them as needed—adjusting permissions or creating new roles—to suit your specific operational requirements.

Together, these changes make user management in LIMS 4 more secure, scalable, and easier to administer, giving you better alignment with corporate IT standards while maintaining flexibility for your site's unique workflows.



User and Role management tools

LIMS 4 now includes dedicated admin tools for managing users and roles, making it easier to control access and maintain security across your environment.

These tools provide a clear, centralised interface where you can create, edit, and assign roles, as well as manage user accounts directly within the application. This enhancement supports the newly redesigned security model and allows you to align permissions with your organisation's structure and policies more efficiently.

With built-in role management, you can quickly apply default roles or tailor permissions to suit specific job functions, ensuring users have the right level of access without unnecessary complexity.

This addition simplifies day-to-day administration and strengthens your ability to manage secure, role-based access in LIMS 4.



AssayNet LIMS 4.2 Release Notes

AssayNet LIMS 4.2.0.1 (Aug 2025)

Bug fixes and performance improvements only.

AssayNet LIMS 4.2.0.0 (Aug 2025)

Exporting logic moved to script files

The logic for exporting to XLS and CSV formats has been moved to Roslyn script files, giving you greater flexibility and customisation when exporting your data.

By shifting the export logic to scripts, you can now tailor the export behaviour to suit specific project or organisational requirements. This includes adjusting formatting, filtering, or transforming data as needed—without requiring changes to the core application.

Roslyn scripting offers a powerful yet accessible way to control the export process, allowing advanced users to fine-tune outputs while maintaining a clear and maintainable structure.

Customised Labels, Worksheets and Labels

This change enhances the adaptability of the export functionality and opens the door to more complex, context-aware data exports that align better with your reporting and integration needs.

The logic for creating PDFs for labels, reports, and worksheets has been moved to XML-formatted files, enabling more flexible and customisable output generation.

With this change, the structure and layout of your PDF documents are now defined in XML, allowing for easier editing and configuration. This approach separates the content from the application logic, making it more straightforward to tailor documents to your specific needs.



These XML files can be edited using the new built-in report designer, which provides a visual interface for adjusting layouts, formatting, and content elements. This removes the need for hard-coded changes and makes it easier to maintain consistent and professional outputs across your workflows.

This enhancement improves the maintainability and adaptability of document generation, giving you greater control over how labels, reports, and worksheets are formatted and presented.



AssayNet LIMS 4.1 Release Notes

AssayNet LIMS 4.1.3.0 (Aug 2025)

Sample Reception Weight Entry

Manual weight entry at sample reception is now supported, providing greater flexibility and control during the initial sample handling process.

AssayNet LIMS 4.1.2.0 (Jul 2025)

Fusion API integration

A new Export to Fusion integration is now available, making it easier to transfer your data directly into Fusion projects.

This initial implementation introduces a dedicated Export Format for Fusion that you can configure within the Project Setup. By defining the export parameters upfront, you can ensure consistent and structured data output tailored specifically for Fusion.

The export process is handled using the Datamine Fusion API, which streamlines data transfer and improves both reliability and performance. This API-driven approach ensures your data is uploaded efficiently and aligns with Fusion's data management standards.

With this integration, you can reduce manual steps and ensure your data is Fusion-ready with minimal effort, enhancing interoperability across systems and improving overall workflow efficiency.

Analysis Package Management

A comprehensive set of tools for managing Analysis Packages is now available, giving you greater control and flexibility in how you configure and organize your analytical workflows.



You can now create, clone, search, and filter Analysis Packages directly within the application, making it easier to manage complex configurations and reuse existing setups across projects. These enhancements simplify the process of setting up new analyses while maintaining consistency and saving time.

New configuration forms have been introduced to support these features, providing a structured and user-friendly interface for defining the components of each package. Whether you're setting up from scratch or modifying a clone, the forms guide you through each step of the process with clarity.

This update streamlines how you work with Analysis Packages, reducing setup time and improving overall usability, especially in environments where multiple configurations are managed across different projects or teams.

AssayNet LIMS 4.1.0.0 (Jun 2025)

Overview

The first internal release of AssayNet LIMS, delivering a lightweight, mining-focused laboratory information management system.

This major release delivers a modern, clean, and intuitive browser-based interface, removing the need for full installations on individual machines. Instead, the system is hosted on a central server, with only a lightweight connector required to enable communication between your lab instruments and the web interface. This shift greatly simplifies both deployment and ongoing maintenance.

Enhanced filtering capabilities

Across all screens, you'll now find enhanced filtering capabilities, making it faster and easier to locate the data you need. Whether you're managing batches, reviewing workflows, or tracking samples, the new interface helps streamline your daily tasks and improves system usability.

Intuitive Dashboard

Gain instant insight into lab activity. The latest release introduces a new intuitive dashboard that gives you a clearer view of your lab and project activity at a glance.

With this update, you can quickly see a list of work in progress, including active batches currently being worked on. This allows for improved tracking and transparency across your team's workflows. The streamlined layout makes it easier to monitor ongoing tasks and understand where work is currently focused.



To help you stay on target, a dedicated turnaround time graph breaks down performance by project, so you can instantly see whether deadlines are being met. This visual insight makes it easier to identify potential delays early and take action where needed.

You'll also benefit from two new graphs that enhance your ability to monitor lab throughput: one showing the number of samples received over a selected time period, and another summarizing the volume of determinations completed. These graphs offer an efficient way to spot trends or spikes in workload.

All dashboard elements can be filtered by time period, client, or project, giving you flexibility to drill into the data that matters most. Whether you're managing multiple clients or tracking individual project progress, the new dashboard is designed to keep you informed and in control.

Live QC charts

Live QC charts now update in real time, giving you instant visibility into the quality of your data as it changes.

This new feature allows you to monitor your QC data dynamically, with the charts refreshing automatically to reflect the latest information. There's no need to manually refresh or reload the interface—data quality issues can now be identified and addressed as they occur, improving responsiveness and confidence in your results.

You can also define custom templates tailored to your specific QC requirements. These templates are linked to your login, meaning your preferred setup is ready to go each time you open the QC window. This personalization helps streamline your workflow and ensures consistency in how you view and interpret quality data.

By immediately presenting a visual overview of your QC metrics, the updated interface makes it easier to detect trends, spot anomalies, and maintain high data standards throughout your projects.

Instrument Manager

Instrument Manager is a new feature that enables seamless communication between your local hardware and the browser-based application.

Delivered as an executable file, Instrument Manager runs on your local machine to bridge the gap between the cloud and your on-site instruments, including COM ports, label printers, and other connected peripherals. This integration removes the need for complex workarounds when accessing or managing local devices through a web interface.



By handling local communication directly, Instrument Manager ensures reliable and efficient data transfer between your instruments and the browser, supporting tasks such as sample labeling, data collection, and real-time updates. It enhances interoperability without compromising the simplicity of a browser-based workflow.

This new tool streamlines operations that rely on physical hardware, improving both usability and performance when working with locally connected devices.



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