Agilent OpenLAB Networked Solutions

INCREASE PRODUCTIVITY WITH NETWORKED CHROMATOGRAPHY DATA SYSTEMS

The Measure of Confidence

Agilent Technologies
The Challenge

Today's laboratories are under pressure to increase their productivity and lower their costs. These two imperatives apply to all areas of lab operations including sample analysis and processing, data and asset management, and compliance. Adding to the challenge, laboratories must often integrate and manage the information produced by multiple chromatography and other analytical systems.

The chromatography software used to control instruments and to capture, process and report data is fundamental to a laboratory's work. Analysts often spend more time reviewing and re-analyzing data than running samples. When chromatography workstations are isolated, it's time-consuming to update and ensure the correct methods are used on each individual system. Likewise, securing data can be tedious when systems must be backed up individually. Once data is stored, finding it and sharing it later can be difficult without a solution that automatically stores it in a searchable central repository.

The Solution: networked OpenLAB CDS and OpenLAB data management software

An OpenLAB CDS networked solution saves valuable time by simplifying and centralizing the administration and management of laboratory operations. The solution offers more than putting instruments on the network for remote access and central data storage, it enables the lab manager to monitor and control all of its key elements—administration, methods, sequences, data storage and instruments—either locally or centrally. When a lab-wide operational change needs to be made, it can be carried out once over the network, rather than multiple times on every chromatography workstation.

OpenLAB CDS is scalable from an individual workstation to a fully distributed system. It is available in two versions—OpenLAB CDS ChemStation Edition and OpenLAB CDS EZChrom Edition—both of which integrate seamlessly with the other components of the OpenLAB software suite to provide a complete solution. If you use ChemStation or EZChrom Elite today, OpenLAB CDS is a straightforward upgrade, offering the shortest path to implementation of a networked solution with full backwards compatibility for raw data, methods, workflows and results.
Together, Agilent’s OpenLAB CDS and data management software—either OpenLAB Enterprise Content Manager (ECM) or OpenLAB Data Store—provide an integrated solution that enables laboratories to capture and manage scientific information with unsurpassed ease and efficiency. In addition to organizing data, methods and sequences, and providing fast search and retrieval of information, these solutions deliver all the capabilities necessary for achieving regulatory compliance.

Benefits of an OpenLAB networked solution:

- Streamlined collection, processing and integrated reporting of chromatography data
- Centralized storage of master methods and sequence templates for easier enforcement of Standard Operating Procedures (SOPs)
- Comprehensive data security, audit trails, versioning and e-signature authorization
- Straightforward data storage with features to support 21 CFR Part 11 and EU Annex 11 compliance
- Future-facing, scalable to grow with your lab
Time-saving, central system administration and instrument management

Designed to simplify and centralize system administration and instrument management, the OpenLAB Shared Services Control Panel saves you valuable time. It enables you to access its capabilities from any location with an internet connection, eliminating the need to make administrative changes or to check the system status at individual workstations. The extent of control available helps you run your lab with the highest possible efficiency and uptime. Tasks you can perform over the network using the OpenLAB Shared Service Control Panel include:

• Viewing the status of all instruments on your laboratory network
• Setting up and managing roles and permissions for users or user groups
• Creating administrative reports
• Viewing the status of all available user and instrument licenses and which are in use

Efficient method, sequence and data management

OpenLAB Data Store and OpenLAB ECM are easily integrated with OpenLAB CDS. Agilent OpenLAB ECM is a secure central content management solution that scales from a small workgroup to a large enterprise-wide deployment. It is unique in its ability to manage raw data and human readable documents of any data, in any form, from any supplier.

Dashboard for the Agilent Infinity LC with secure bi-directional instrument control and real-time display of instrument parameters.

Designed for smaller deployments of up to fifteen OpenLAB CDS supported instruments, OpenLAB Data Store is an affordable solution for the central storage of OpenLAB CDS data, master methods and sequence templates. It also includes tools that simplify management of laboratory operations and assets. OpenLAB Data Store is designed to accommodate common laboratory workflows and is focused on the essential tasks that make it easy to deploy and use—right out of the box. Data management tasks that can be performed more efficiently using OpenLAB Data Store and OpenLAB ECM include:

• Securing master methods and data with audit trails and e-signatures
• Storing and retrieving master methods, sequence templates and data
• Backing up data from a single server rather than individual workstations to save time and reduce the likelihood of data loss
• Complying with 21 CFR Part 11 and EU Annex 11 data storage requirements

The OpenLAB Shared Services Control Panel gives you an unprecedented level of control over your laboratory.
OpenLAB CDS software is designed to increase laboratory productivity by reducing the time spent on data processing, review, reporting and re-analysis. OpenLAB CDS EZChrom Edition provides you with superior control of Agilent and non-Agilent instruments, while its ChemStation Edition handles the broadest range of separation techniques including GC, LC, CE, SFC, LC/MS, and CE/MS.
OpenLAB CDS Intelligent Reporting allows you to create state-of-the-art standard or custom reports in OpenLAB CDS. An easy-to-use report template editor allows you to create report templates using simple drag-and-drop and configuration operations. OpenLAB CDS Intelligent Reporting comes with a number of pre-defined report templates that can be used as-is, or serve as a starting point for reports tailored to your specific needs.

Intelligent reporting is fully integrated into OpenLAB CDS and allows you to create single injection reports as well as sequence summary reports using familiar workflows.

Intelligent reports can include standard or advanced result calculations. Easily create reports for typical pharmaceutical and chemical applications such as, system suitability, impurity profiling, BTU or content uniformity.

Intelligent Reporting lets you flexibly design reports the way you need them—e.g., showing minor components next to the full-scale chromatogram.
OpenLAB Intelligent Reporting offers intuitive and effortless generation of complex analytical reports. “Drag and drop” report elements can be used to create report templates with remarkable ease.

Toggle between template edits and report preview for intuitive template development.

Easily include graphics such as your company logo.

“Drag and drop” preconfigured report elements to your report template and edit them easily.

Custom calculations and pass/fail results are included with the report template.
Take a step forward into the future

Whether you use an Agilent or another manufacturer’s CDS, consider migrating to OpenLAB. If you use Agilent’s ChemStation or EZChrom Elite solutions, OpenLAB CDS is a straightforward upgrade that brings your data and methods forward into the future with little disruption and downtime. Agilent ChemStation or EZChrom Elite customers upgrading to an OpenLAB CDS networked solution avoid the need to re-create or revalidate methods, compound lists and institutionalized workflows. Because Agilent’s proven integration and quantitation algorithms are carried over from one software revision to the next, results obtained yesterday can be compared to those obtained today. And because Agilent systems are found in most laboratories around the world, when you choose an OpenLAB networked solution, chances are you are choosing a system your staff already knows.

The Agilent OpenLAB software suite

Agilent OpenLAB is an industry-leading suite of software products designed to integrate and manage scientific information throughout its lifecycle, across the laboratory. With the OpenLAB portfolio, you have access to an open system architecture that helps you create, capture, and share information more easily, increase productivity and security, and manage your lab more efficiently. In addition to OpenLAB CDS, ECM and Data Store, the OpenLAB suite includes OpenLAB Electronic Lab Notebook (ELN), a flexible solution that simplifies the recording, managing and sharing of all types of laboratory information.

Adopt a networked environment and increase your laboratory productivity. To learn more about how you can reduce the complexity of managing chromatography workflows and regulatory compliance, contact Agilent today.

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