Agilent OpenLAB Chromatography Data System

IT’S TIME TO ACHIEVE MORE

The Measure of Confidence
Today’s laboratories are under pressure to increase productivity and lower costs. These two imperatives apply to all areas of lab operations from sample analysis and processing, to data management, and regulatory compliance when applicable.

The software used to control instruments, and to capture, process and report data can have a significant impact on laboratory efficiency. Analysts generally spend most of their time using software to review and re-analyze data, and to generate reports.

With chromatography workstations, it can be time-consuming to update or to 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. Bottlenecks in any of these processes lower laboratory productivity and raise operating costs.

**Achieve more with Agilent OpenLAB CDS**

Count on OpenLAB CDS to deliver the productivity and cost savings that enable you to achieve more, with less.

OpenLAB CDS is part of a comprehensive software suite to manage the all of the scientific information produced in the laboratory. With Agilent’s OpenLAB suite, you have access to an open system architecture that helps you to capture, analyze, and share information more easily, increase productivity and security, and manage your multi-vendor lab more efficiently.

**Benefits**

- Maximize uptime and efficiency with comprehensive, instrument control from anywhere
- Boost productivity using powerful chromatography data processing and reporting features
- Save time and money with centralized system management that streamlines laboratory and IT processes
We enable your success

When you choose OpenLAB CDS, you choose more than software. You also get support from a global professional services and support network with over 30 years of experience assisting the world’s leading life sciences and chemical analysis companies. This global network can respond to your needs rapidly, boosting the performance and uptime of your OpenLAB solution.

Agilent Professional Services for the OpenLAB Software Suite—Site Preparation, Installation and Familiarization, Training, Migration, Workflow and General Consulting Services—maximize your return on investment in OpenLAB software. For example, installation and familiarization services ensure you can implement your OpenLAB solution quickly and successfully. Onsite training brings our experts to your site, eliminating downtime due to travel of your staff, while dramatically accelerating system adoption.

A compelling tool for laboratories and IT

OpenLAB CDS offers substantial benefits for both laboratory and IT operations.

Laboratory managers get:

• More uptime with full control of chromatography instruments, including the ability to optimize instrument utilization, from anywhere
• Simplified training and faster user acceptance using software designed for LC, GC, LC/MS, SFC and CE
• Greater user productivity with advanced data analysis and reporting
• Reduced costs with time-saving central system administration in a networked deployment
• Less risk of data loss and easier application of SOPs with secure central storage of master methods, sequence templates, and data using an OpenLAB data management solution

Chromatographers get:

• Multi-technique software for GC, LC, LC/MS, SFC and CE
• Better workflow support with fewer manual steps needed to review, reprocess and report data
• Easier, faster, more flexible reporting using templates, intuitive drag-and-drop report creation and extensive custom calculating capabilities

IT managers get:

• Lower support and hardware infrastructure costs with centralized deployment and support in a networked implementation
• Better utilization of IT processes such as licensing, software updates, disaster recovery and backups
• Reduced risk of data loss when data and methods are secure with central storage and backup
• Future readiness with a scalable modern architecture that supports the Microsoft Windows 7 and 8 operating systems, thin client operation and virtualization
One software solution for all of your chromatography needs

Software enables you and your staff to get the most from your chromatography instruments. With control of both Agilent and non-Agilent instruments, and the ability to handle a broad range of separation techniques including GC, LC, CE, SFC, LC/MS, and CE/MS, OpenLAB CDS maximizes your productivity. And by choosing one, easy-to-use software platform, you reduce training needs and accelerate system adoption.

Using OpenLAB CDS, you can take full advantage of the advanced features of the Agilent GC and LC instruments you have now, and new instruments, when released. Rest assured you will have ongoing immediate access to the latest innovative technology from Agilent. Other manufacturers’ products often have a delay in availability or non-availability of new Agilent features. OpenLAB CDS software uses standards-based instrument drivers, and its modular architecture eliminates the need to update the software when adding new instruments.

“OpenLAB CDS is like a Fast Lane Pass at a theme park. There is no more queuing up in front of the local GC workstation. Efficiency, reliability and flexibility – that’s what we like.”

EVELIEN STRUYVELT, R&D ANALYST, TAMINCO
Get the most from your Agilent 7890B GC

OpenLAB CDS offers complete 7890B GC control, and supports its integrated maintenance and energy-conservation features, and single sample workflows including:

- **Sleep/wake mode**: puts the GC in a resource-saving sleep mode to save energy and gas
- **Early Maintenance Feedback (EMF) counters**: tracks injections and consumables use and alerts users when maintenance is required, thereby reducing costly downtime
- **Parts Finder**: allows users to quickly identify and reorder specific instrument parts
- **Retention time locking (RTL)**: reproduces retention times from one Agilent GC system to another, so you can confidently transfer methods worldwide
- **Automatic Liquid Sampler (ALS) error handling**: provides the choice to pause for user interaction, abort the sequence, or skip to the next sample
- **Single sample workflow support**: automatically loads the method for a single sample run
- **Acquisition Method Viewer**: enables users to review methods without loading them to the instrument and without triggering method resolution

OpenLAB CDS also controls the Agilent Headspace Sampler.

Comprehensive Agilent LC and LC/MSD control

- OpenLAB CDS controls the portfolio of Agilent UHPLC and HPLC systems including:
  - 1200 Series autosamplers and Flexible Cube
  - 6100 Series Single Quadrupole LC/MS
  - Full spectra and fraction collection control
  - Soft configuration parameters, which support tray and column changes
  - Pump Valve Clusters (PVC) solvent configuration setup

Maximize instrument utilization and uptime

The OpenLAB CDS control panel gives you lab-at-a-glance capability, allowing you to manage your instruments from anywhere with Internet connection. Using the control panel you can configure instruments, check instrument status, and review instrument logs, across one or more networked laboratories. The extent of visibility and control available enables you to run your laboratory with the highest possible efficiency and uptime.

Lab-at-a-glance capability gives you more control of your chromatography.
Accelerate data processing and review

State-of-the-art data analysis speeds processing and review of large data sets by eliminating unnecessary manual data analysis steps. Data analysis capabilities enable users to:

• Work their preferred way with predefined or tailored user interface layouts
• Access data from multiple folders, load complete result sets, or select single samples, quickly and easily
• Overlay and compare hundreds of signals from both LC and GC instruments
• Identify artifacts instantly within thousands of peaks and compounds with Peak Explorer
• Integrate peaks with a single click using intuitive integration tools
• Scale automatically to a specific peak, ignore main peaks, or scale to the baseline

Easy, flexible lab-wide reporting

The reports laboratories generate are the final product of their efforts. To streamline the creation of compelling reports, OpenLAB CDS includes predefined report templates that can be used as-is, or that serve as a starting point for reports tailored to your needs. Intelligent reporting uses an intuitive drag-and-drop approach that makes it easy to create reports, without the need to export results into other software, such as Microsoft Excel.

Reporting is flexible, enabling you to create single injection or sequence summary reports across many sequences. Reports can also include result calculations, allowing users to build reports for pharmaceutical and chemical applications such as:

• System suitability
• Impurity profiling
• British Thermal Unit (BTU) analysis
• Content uniformity

To facilitate laboratory communication processes, including report distribution, review, and approval, reports can be viewed on-line, printed or saved to a PDF or .xls file. These features also support faster and more efficient paperless workflows.
Scales to a networked solution with secure data storage

OpenLAB CDS readily scales to a networked solution that saves valuable time by centralizing the administration and management of laboratory operations.

More than just putting instruments on the network, an OpenLAB CDS networked solution allows you to monitor and control its key elements—administration, methods, sequences, secure data storage, and instruments—either locally or remotely. This significantly reduces your total cost of ownership. For example, when a task needs to be deployed lab-wide, it can be carried out once over the network, rather than on every workstation.

Secure centralized data storage is available using an OpenLAB data management solution. The benefits of such a solution include:

Benefits

- Streamlined collection, processing and lab wide reporting of chromatography data
- Remote instrument monitoring using lab-at-a-glance views
- Centralized storage of methods and sequence and report templates for easier adherence to SOPs and best-practices
- Single-point setup and management of roles and permissions for users or user groups
- Comprehensive data security, audit trails, versioning, and e-signature authorization
- Features for 21 CFR Part 11 and EU Annex 11 compliance

IT-friendly solution saves time and money

The central system administration capabilities of an OpenLAB CDS networked solution make it much easier for laboratories to use IT department services. As a result, many organizations have achieved lower support and hardware infrastructure costs through centralized deployment and support of their OpenLAB CDS networked solution.

IT-managed software updates, licensing, disaster recovery and regularly schedule backups, save time and free laboratory staff to focus on analytical work. Risk of data loss is reduced when data and methods are secure with central storage and backup.

OpenLAB CDS is IT friendly software that supports the Microsoft Windows 7 and 8 operating systems, thin client operation and virtualization.

Personalized on-demand training speeds user results

New eFamiliarization provides a tailored approach to getting started with the software, allowing users to learn the software at their own pace whenever they need to learn. The detailed training modules walk users through specific steps of using the OpenLAB CDS software.
OpenLAB Software Suite

OpenLAB CDS is part of an industry-leading suite of software products designed to capture, analyze and share scientific information throughout its lifecycle, across the laboratory and the enterprise.

Join 250,000 users across all industries in choosing Agilent OpenLAB CDS. Contact Agilent today to learn how you can maximize instrument uptime and efficiency, speed data processing and reporting, and streamline system management using OpenLAB CDS.

To learn more about OpenLAB CDS, visit:
http://www.agilent.com/chem/openlab

Find an Agilent customer center:
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© Agilent Technologies, Inc. 2014
Published in USA, April 22, 2014
Publication Number 5990-6926EN