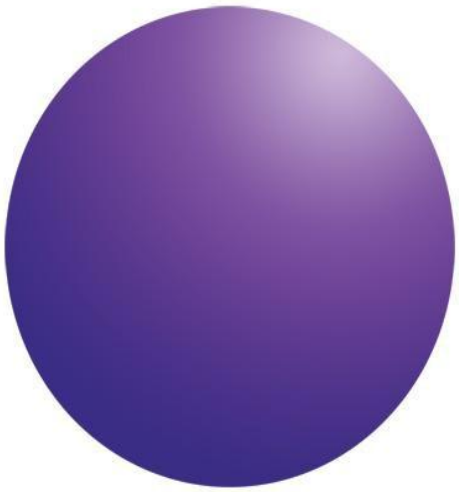
Agilent OpenLAB Chromatography Data System (CDS)

ChemStation Edition Version C.01.05



Release Notes

Agilent Technologies

Notices

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This guide is valid for Agilent OpenLAB Chromatography Data System (CDS) ChemStation Edition version C.01.05.

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Introduction

This document describes the functions, features and changes introduced with this and previous releases of the Agilent OpenLAB Chromatography Data System (CDS) ChemStation Edition product.

References to product documentation regarding known issues and workarounds are also provided.

Version History

This provides a listing of the major feature modifications made in each release of OpenLAB CDS ChemStation Edition.

Version C.01.05

New 7890B GC

This release of the RC.Net GC Driver 5.01 allows configuring the new Agilent 7890B and includes the following system enhancements:

- New Resource Conservation (Sleep/Wake)
- New Early Maintenance Feedback (EMF)
- Barcode Scanning with Auto-Input

Updated Agilent 78xx GC Driver (Version 5.01)

- Improved Handling of ALS Errors
- Updated Column Configuration, including the ability to lock the column
- New Syringe and Liner Configuration
- Support for the 7667A Mini TD
- New Calculator Integration into the method editor
- Updated Columns Database
- New Parts Finder Tool Integration
- New Syringe and Liner Databases
- New Keypad Lock Options

Ability to configure a 5890 Series GC has been reinstated

Updated Agilent LC and CE Driver

This release of the RC.Net LC & CE Driver allows configuring Agilent 1260 Prep LC Systems

- G1361A - 1260 Isocratic Prep Pump
  - Prep Pump Cluster of up to 4x G1361A 1260 Isocratic Prep Pumps
- G2260A - 1260 Preparative Autosampler
- G2258A - 1260 Dual Loop Autosampler
- G1364A Fraction Collector
  - Fraction Collector Cluster of up to 3x G1364A/B/C, or G5664A Fraction Collectors AND additionally 1x G1364A/B/C, or G5664A as Recovery Fraction Collector

New Data Analysis Workflow

- Improved support for the single sample workflow in the Data Analysis View

New Acquisition Method Viewer

- Review methods without loading the method to the instrument and without triggering method resolution

OpenLAB Data Store A.01.02

With OpenLab Data Store A.01.02, the Lab Applications have been introduced to accommodate common laboratory workflows and includes two applications:

Sample Submission

- Request an analysis - Prepare a chromatography sequence and assign it to the analyst through Data Store.
- Accept and complete the analysis - The analyst receives the sequence, runs it on an instrument using an Agilent CDS system, and stores the results into Data Store.
- Review results - Import the results, review, approve or reject them in Data Store.

Lab Journal

- Manage lab assets, such as instruments and columns.
- Capture important lab events such as instrument service, replacements, calibrations, and etc.
- Review the operations that occurred on a specific instrument or column.
- Display simple usage statistics for instruments or columns.

In addition, the Data Store user interface has been redesigned to support the new applications.

New M8370AA OpenLAB Data Analysis A.01.01

With OpenLAB Data Analysis, Agilent introduces a new data analysis package to create sample reports, sequence summary reports, and cross-sequence summary reports. It is fully integrated and compatible with data from EZChrom and ChemStation Edition.

The first release is designed for data analysis in Chemical and Petrochemical laboratories and Hydrocarbon Processing Industry. Version A.01.01 features:

- Very fast reprocessing (more than 10 times faster than OpenLAB CDS).
- Intuitive operation with "flat" user interface.
- Microsoft-style function ribbons and improved data selection tree allow fast access to main funcions and data. Select data from multiple folders, load complete result sets, or select single samples.
- One-click peak integration tool for fast review.
- Easy sample review: New data viewing concept allows overlaying and comparing hundreds of signals. Work with both LC and GC instruments at the same time and use multiple methods and data sets in parallel.
- Automatically scale to a specific peak, ignore main peaks, or scale to the baseline.
- Supports customization of sceen layout based on four predefined configurable layouts.

Version C.01.04

OpenLAB Data Store A.01.01 Supported with CDS

OpenLAB Data Store is a central repository where you can safely archive, store, and share electronic files.

OpenLAB CDS ChemStation Edition and Shared Services support the use of OpenLAB Data Store as the storage location for your scientific data. Use of Data Store storage is supported in networked and distributed configurations of OpenLAB CDS and provides several benefits for your system:

- Central Storage with security for small to medium sized labs
- Handles localized Chinese/Japanese content
- Web based data access for search, share, and review
- 21 CFR 11 Compliant e-signatures and audit trail

Master Installer Updates

- Master Installer now supports installation on top of an existing C.01.03 system resulting in an automatic upgrade.
- Master Installer now supports the installation of either Data Store or ECM for central data storage system components including servers, AICs, and clients.
- Software installation repair is now supported using the repair utility found in the maintenance section of the Master Installer.
- A new additional software installation tool is now available in the maintenance section of the Master Installer. This currently only supports the addition of OpenLAB Data Store components to an AIC or client upgraded from a previous revision.
- Scripted installation of clients and AICs is now supported. An XML file may be exported at the end of installer parameter definition which can then be used to install an identical configuration on other machines.

OpenLAB Control Panel/Shared Services Updates

- Enhancements to the Licensing User Interface
- Generic projects for Data Store
- Authentication for Data Store
- Data Store Synchronization

NEW html-page for accessing OpenLAB documentation and manuals

- OpenLAB CDS Documentation is accessed from the START menu > All Programs > Agilent Technologies > OpenLAB CDS Documentation

Updates to the Intelligent Reporting Report Template Editor (RTE)

- User-entered report parameters
- Protection of individual report items in report templates
- Double row table
- Document map
- Export report as DOC and TXT

Method and Sequence Queue

- Single Sample Queuing
- Enhanced options for single run data file naming

Method Download Options at Instrument startup

- User options for method download on startup of ChemStation

Data Analysis Improvements

- Calculation of relative retention time, Resolution, Number of theoretical plates, S/N ratio, and Peak-to-valley ratio according to European Pharmacopeia and Japanese Pharmacopeia and reporting of these values using Intelligent Reporting.
- Peak Performance
- Enhancements to Area Summing
- Updated Agilent LC Drivers
- Improved status dashboard for enhanced control and interaction
- 1290 Quat Pump (G4204A)
- 1220 Infinity LC with DAD (G4294B)
- Flexible Cube (G4227A) (Standalone Driver)
- Universal Interface Box II (G1390B)

Updated Agilent GC Drivers

- Support for the (G4567A) 7650 Injector with 78xx GCs (Version 4.02[043])
- New menu item to extend run for 68xx GC (Version 6.11[032])
- GC Tray user interface enhanced (RC.NET only)
- Method Audit Trail and Method Resolution Audit Trail

Version C.01.03

Sequence Planner

The **Queue Planner** is used to set up an ordered set of sequences (either ChemStation sequence templates or Easy Sequences) and pauses. The **Queue Planner** allows you to schedule lengthy routine tasks to run overnight or over a weekend.

Updated Agilent LC Driver

- Support for ISET
- RC.NET drivers for single G1364A/B/C and D Automated Fraction Collectors,
- Low-flow Samplers, pumps and valves (G1377A, G1389A, G1376A, G2226, G1162A, G1163A)
- New LC hardware G5664A Bio-inert AFC, 1290 UVD (G1170A),

Updated Agilent GC Drivers

78xx Driver Version 4.02[023]

Updates to Low Thermal Mass II (LTM-II) Rapid Heating/Cooling System for 7890A GC. This release integrates complete control of the Low Thermal Mass II (LTM II) system into the 7890A GC and Chemstation. The added support of ID tags on the LTM II columns allows for automatic configurations loaded in the GC and Chemstation and the ability to track number of runs, over temperatures, and excursions.

68xx Driver Version 6.11[008]

New G3581A 490 micro GC support

Version C.01.02

Agilent OpenLAB ECM connectivity

With the C.01.02 release of OpenLAB CDS ChemStation Edition, ECM is supported as a data storage location. With this feature you get the following enhancements for your data system:

Store and retreive data directly in the Agilent OpenLAB Enterprise Content Management (ECM) system from the CDS with ECM as a valid storage location and authentication provider.

This provides the following benefits:

- Keyword searches for data, methods and sequences
- Web based data access for sharing and review
- Automated data archival
- Result package version control
- Enhanced security
- Consolidate CDS data with all laboratory content
- Thin client configuration support

Master Installer Updates

Automated uninstall of all OpenLAB CDS components is now available from the master installer.

New Topology: Distributed Systems (Networked AIC and Clients)

Support for LC/MS and CE/MS on Workstation and Networked Workstation

Updated Agilent GC Drivers, 78xx Version 4.01[049], 68xx Version 6.10[027]

- Barcode support with the 68xx Software Driver version 6.10 has been updated to transfer the vial from the barcode reader directly to the turret for injection. The intermediate stop back to the tray location has been eliminated.
- Instrument parameter actuals are now available next to the set points in method edit user interface
- 7890A: Digital Signal Switching, Signal Zero, Signal Freeze/Resume available in the Signal Event Table (7890A requires a minimum Firmware revision of A.01.12.)
- Hide and display the instrument actuals view and graphic plot
- 7890A: Shutdown events such as Hydrogen shutdown now included in Software Status (7890A requires a minimum Firmware revision of A.01.12.)
- Column User interface includes Constant Flow, Constant Pressure, Ramped Pressure, and Constant Flow for the Control Mode selections
- G4514A 7693A tray support for 7820A GC
- Start run from GC by pressing the start button now available for 68xx GC

Agilent Support information

- All instrument sessions come with a support information tool that is started from the Help menu. This is a troubleshooting tool that can be used to collect information about the current status of the system, log software and hardware error messages, and the revision of the operating system. The information is collected in the instrument's Temp folder.
- The tool will not collect names, addresses, or personal information.

Version C.01.01

Intelligent Reporting

OpenLAB CDS provides a new Intelligent Reporting feature for GC and LC ChemStation data. The new intelligent reporting is provided in addition to classic reporting. The new Intelligent Reporting allows you to create state-of-the-art reports in an industry standard reporting format. You can easily create and modify report templates with the new Report Template Editor built into the system that has an easy to use WYSIWYG interface. Report templates are saved in the standardized Report Definition Language (RDL) format that is also used by Microsoft Business Intelligence Studio.

When Intelligent Reporting is activated, a new Review view is available. It allows you to apply any report template to any combination of data files.

New licensing

With OpenLAB CDS ChemStation Edition, a new licensing strategy is introduced that helps you use your licenses more effectively. All instrument control, driver and Add-on licenses are floating licenses. Any instrument that starts up requests licenses from License Management, and when the instrument is closed, it returns the licenses. The new licensing is based on Flexera Software™ SubScribeNet® technology. It simplifies your software license management and license tracking and allows you to receive new or urgent software and patch download information immediately after release.

OpenLAB Control Panel / OpenLAB Shared Services

OpenLAB Shared Services allow the management of users, instruments and licenses. OpenLAB Shared Services is managed using the OpenLAB Control Panel.

- **Instrument Management:** OpenLAB Control Panel allows you to set up and configure instruments. Instruments are launched from the OpenLAB Control Panel. In addition, the Control Panel provides a lab-at-a-glance overview of the status of the instruments on a workstation or networked workstation.
- **User Management:** OpenLAB Control Panel allows you to manage users, groups, roles, and privileges. If you manage your users within an ECM system or a Windows domain, you can map those existing users into OpenLAB Shared Services.
- **License Management:** This service includes the administration of licenses that are required for your instrument modules and Add-Ons. You can add or remove licenses and view the status of all licenses.

New Data Analysis Workflows

OpenLAB ChemStation C.01.01 provides two Data Analysis modes: the Recalculation mode and the Reprocessing mode. The reprocessing mode allows you to reprocess samples in the context of a sequence (e.g. for a bracketed calibration). The recalculation mode allows you to quickly recalculate a sample or a set of samples with a different method. The required functions associated with each mode are available in separate toolbars.

Result sets: Containers are now called result sets. Methods that are used in result sets may be modified during acquisition. You can create your own result sets using any collection of existing data. You can use the user-assembled result sets, for example, for cross sample calculations.

Method Handling: It is possible to directly load master methods and sequence methods from the ChemStation explorer. The Update Methods dialog box allows you to synchronize master methods and sequence methods.

Known Issues

For known issues and workarounds in the OpenLAB CDS ChemStation software at the time of release see the Software Status Bulletin file named M*83xxAA-SSB.html* located on Disc 2 of the OpenLAB CDS Installation media.

For known issues that have been resolved and/or closed with a workaround, see the Software Release Bulletin file named *M83xxAA-SRB.html* located on Disc 2 of the OpenLAB CDS Installation media.

You may also visit www.Agilent.com for up to date issue information for all Agilent software products:

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