Agilent OpenLab CDS
Revision 2.6

Release Notes
Notices

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Software Revision
This guide is valid for the 2.6 revision or higher of Agilent OpenLab CDS software until superseded.

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CAUTION
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3. **Important Support Information**
Introduction

This document provides a listing of the major feature modifications made in each release of actively supported OpenLab CDS Software including selected add-ons.

Please see chapter 3, **Important Support Information** for references regarding known issues and workarounds.

For our Regulated Customers

When any change is made to Agilent software, the validation status of the software needs to be re-established by the user/customer.

Whenever software is changed, a validation analysis should be conducted not just for the validation of an individual change, but also to determine the extent and impact of that change on the entire software system.
OpenLab CDS version history

Version 2.6

Infrastructure Support updates

Cloud Services supported:
Agilent OpenLab with ECM XT as backend can run in an Amazon Web Services (AWS) or Microsoft Azure cloud environment. For details see your Agilent representative.

Compatibility updates (see CDS Requirement guide for full details)
Workstations, Clients, and Instrument Controllers (AICs) are now supported on:
- Windows 10 64-bit, Enterprise (1909 or greater), or Professional (2004 or greater)\(^1\)
- OpenLab Server / ECM XT 2.6, includes new Basic Server product

Communication port and protocol changes

OpenLab CDS with OpenLab Server or OpenLab ECM XT now utilizes secure https communication protocols between clients (e.g., OpenLab CDS Clients, AICs, and web browsers) and the server application. To ensure appropriate authentication of the applications, Agilent OpenLab can utilize any existing commercially signed digital certificate OR supplied OpenLab self-signed certificate as part of system configuration.

\(^1\) For support of LTSC/LTSB, and the most current versions check with your Agilent representative.
System / Installation

Enhanced System Preparation Tool (SPT)
- This SPT is now integrated in the installer and runs as the first step. It may still be launched prior to installation
- SPT steps and progress shown in installer UI
- Mandatory settings are checked, and OS settings are updated if possible or identified as requiring manual correction before installation proceeds
- The user can choose the recommended actions
- SPT report provides instructions how to update the setting manually before installation of the CDS

New dedicated installation workflow for Shared Services Server
- New workflow is used specifically for deployments connected to OpenLab ECM 3.x

Updated data integrity features
- Updated wording or category of audit trail and activity log entries
- Added entries to the audit trail

OpenLab Control Panel updates

Added Privileges for OpenLab CDS
- Disable/enable calibration points (default in built-in role Chemist, Technician, Everything)
- Use integration optimizer (default in built-in role Chemist, Everything)
- Integration optimizer: Display peak results (default in built-in role Everything)
Version 2.6

Added Privileges and Roles for Workstation Plus

New Privilege:
• Delete Content Of Project

New Roles:
• Project Content Deletion
• Content Management Administrator

Sample Scheduler for OpenLab delivered on OpenLab CDS media

Sample Scheduler for OpenLab is installed via OpenLab installer

Instrument dashboard available with OpenLab CDS (C/S only)
• Provides overview of instruments from a mobile device or PC
• Displays available instruments
• Shows status information and instrument errors

By activating the software and adding instrument licenses the instrument dashboard is turned into a full Sample Scheduler for OpenLab installation: This management tool includes a simple user interface for submitting analyses, time scheduling capabilities for unattended maintenance and calibration procedures, and more productivity features.

Launch Sample Scheduler for OpenLab (C/S only)
• New launch button for fast access from within the Acquisition client or the Windows start menu

Migration Tools for OpenLab
• No longer part of the OpenLab installer.
  It is now available on the media in Setup > Tools > Migration
Version 2.6

QualA
New QualA 3.4 release (Test Services) delivered with OpenLab CDS. See separate QualA Release Notes for details on feature updates

Updated Branding
Redesigned launch icons, splash screens and login screens, to adjust to new Agilent branding

Product Level Changes for v.2.6

Acquisition
Changes to Run Queue and Sequences
- Option to save each sample in a sequence as unique result set
- Edit currently running sequence when run queue is paused
- Sequences in progress can now be stopped to add priority samples or address a tray loading mistake

Changes to the dual simultaneous injection workflow
- Unique table fill down possible for front and back injections
- Sequence table can be filtered to display only the front or back channel
- Option to save front and back samples to separate result sets
- Option to save each sample in a dual simultaneous sequence as unique result set

Improved snapshot and result review feature
Once opened from the online signal window or sequence table, a snapshot/review instance can remain open for further snapshots taken in the context of the same sequence
Version 2.6

Added Reference Chromatogram in Acquisition
- Allows to visualize the reference chromatogram within the real time plot

Data Analysis and Reporting

Unique calibration curve handling
- A new quantification mode for calibration runs. When acquiring new sequences, the new function provides the option to post-pone processing and reporting until an uninterrupted series of calibration injections is finished. This mode needs to be activated in the project. When reprocessing data acquired with immediate processing or data acquired with an earlier version of OpenLab CDS, the quantification results for the intermediate calibration injections will be different
- In addition to the back quantification of calibration standards, de-activation of a single calibration point now gets automatically applied to all loaded calibration and sample injections where the corresponding calibration was used

New Integration Optimizer Wizard
- The integration optimizer helps find a suitable set of integration events. It allows integration parameters to be tuned via sliders (peak width, slope sensitivity, height reject, peak separation modes) and the resulting integration to be previewed in real-time in the Chromatograms window
- It enables easy deployment of integration settings to the lab

Reference Chromatogram
- Added option to define a reference chromatogram in the processing method and display up to 5 signal specific reference chromatograms in the chromatogram window

Enhanced compound management in the calibration tab
- New column in compound table provides the option to sort compounds by signal names and retention times

Enhanced visualization of sample types
- Added coloring in the injection list analogous to Acquisition context
Version 2.6

Miscellaneous updates to reporting
- User can choose separate acquisition method parameters to use in both Acquisition and DA reports
- Added ability to report MS Peak Table via a new snippet

Mass Spec related improvements

Update to Sample Purity
- Updated design of results table for sample purity analysis, to allow faster screening of results
- Added signal column: sample purity results can be viewed by signal
- Added sample purity results filter
- Added copy and export capabilities from the sample purity table
- Updated sample purity report to reflect the updated sample purity results table
- Added columns to the target table to show RT and Adducts.

Update to MS spectrum window
- Added a movable threshold selection to hide unwanted m/z values
- Added maximum abundance window to identify the most abundant m/z

Added MS Spectral Smoothing
- Option to apply the Gaussian smoothing algorithm to an MS Spectrum displayed in profile mode

Enhanced SIM data functionality
- Extract Chromatogram
- Add ion as compound to the method
- Add ion as qualifier to the compound

Added support for NIST/EPA/NIH EI-MS Library, 2020 release (NIST20)
Version 2.6

Enhancements to Backup and Restore

- Added automated Restore for Workstation Plus. Restore Utility is available from the Start Menu and provided on the media (Setup > Tools)
- New tools for all-in-one and 2-server topologies of OpenLab Server and ECM XT will allow users with limited technical skills to automate a scheduled back up and perform a restore when necessary
- Incremental backups are supported

Added basic CE and CE/MS Support

OpenLab CDS v2.6 supports basic CE release with LC & CE Driver 3.2 or higher

- Configure the CE instrument as part of the instrument type "Agilent LC"
- Connect to the CE instrument, create methods, and run analyses
- View CE monitor signals in Online Plot
- Review CE analytic data with same feature set as for LC
- Create reports from CE data with same feature set as for LC
Version 2.6

Driver Updates

Agilent Instrument driver packages shipped with OpenLab CDS 2.6:

<table>
<thead>
<tr>
<th>RC.NET Instrument Driver</th>
<th>Driver Software Revision</th>
<th>Installed by default</th>
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</thead>
<tbody>
<tr>
<td>Agilent LC &amp; CE</td>
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<td>Agilent LC/MS SQ</td>
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<td>●</td>
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<td>Agilent ELSD</td>
<td>1.8</td>
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<tr>
<td>Agilent GC</td>
<td>3.5</td>
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</tr>
<tr>
<td>Agilent GC/MS SQ</td>
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<tr>
<td>Agilent 7697A-8697 Headspace</td>
<td>3.1 *</td>
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<tr>
<td>Agilent 35900E A/D Converter</td>
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<td>●</td>
</tr>
<tr>
<td>Agilent SS420X A/D Converter</td>
<td>1.2</td>
<td>●</td>
</tr>
<tr>
<td>Agilent Data Player</td>
<td>2.4</td>
<td>●</td>
</tr>
<tr>
<td>Agilent CTC PAL 3</td>
<td>2.3</td>
<td></td>
</tr>
<tr>
<td>Agilent CTC PAL-xt</td>
<td>B.01.08</td>
<td></td>
</tr>
</tbody>
</table>

* Both HSS drivers may be co-installed on a system. Installing 3.1 or higher will upgrade both B.01.09 and B.01.10 drivers. To keep G1888 control install B.01.09.1 after the upgrade. See OpenLab CDS Requirement guide (CDS_Requirements.pdf) for details.

Non-Agilent Instrument Control Drivers

Support for non-Agilent instruments in OpenLab CDS continues to expand.

For the most current list of supported non-Agilent instruments visit the FAQ page "What instruments are supported in OpenLab CDS?" on the Agilent website.
Version 2.5

Infrastructure Support

OpenLab CDS version 2.5 is supported in the following configurations: Workstation Plus, Workstation with file-based storage, and Client/Server. Workstations, Clients and Agilent Instrument Controllers (AICs) are supported on:

- Windows 10, Enterprise or Professional, 64-bit (version 1809 or higher\(^2\))

Additionally, for networked deployments, clients\(^3\) and AICs\(^4\) are supported on:

- Windows Server 2016, Standard or Datacenter, 64-bit
- Windows Server 2019, Standard or Datacenter, 64-bit

\textit{Windows 7 and Windows Server 2012 are no longer supported}

Russian Language Support

- OpenLab CDS Workstation with file-based storage and OpenLab Workstation Plus now support Russian language.

Systems Management Software Support

- Supports installation and updates deployment of select components of OpenLab CDS using systems management software, such as Microsoft System Center Configuration Manager (SCCM).

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\(^2\) For support of the most current versions check with your Agilent representative.

\(^3\) In virtual environments

\(^4\) AICs are supported but not recommended on Windows Server 2016 or 2019, Standard or Data Center
Version 2.5

System Preparation Tool
- Performs an automatic check of PC requirements required to use OpenLab CDS, identifies errors encountered, and provides associated warnings. Automatically updates most required Windows settings as needed and generates an outcome report.

Product Level Changes

Introduction of core purification workflows
- OpenLab CDS now supports the use of Agilent Purification LC systems with fraction collection.
  - Includes UV signal triggered collection; time and volume-based collection and manual.
  - Includes delay volume collection calibration.
  - Includes pooling and recovery collection.
Note does not support Mass based purification.

Support for Single Sign-on
- Support for SSO on OpenLab CDS Systems using Windows domain authentication including card key access. Eliminates the need for multiple logins from valid users once they have logged in with their Windows credentials.

Introduction of Method Status labels to ensure that only approved methods can be used to acquire and process data.
- Ability to configure and enforce which methods are available for use within a project according to designated method status label.
  - Generic = default status. Users can be restricted from using this type of method.
  - Approved = Select users can be restricted to only see and “use Approved” methods.
  - Obsoleted = marked as no longer in use. Users cannot use this method type if Method Status is active for a project.

- New privileges introduced to define who can
  - change the associated status label of a method
  - use generic status methods
Version 2.5

Automatic Collection and Storage of Column Information
• OpenLab CDS now collects and saves column information as provided by instrument. This includes columns using RFID column tags. Column tags used in Agilent hardware and consumables will now auto-propagate information into the result set data available for search and reporting. Certain information may be automatically populated for further data analysis calculations
  • For LC: Use of RFID column tags requires an Agilent Infinity II LC series column compartment and appropriate columns.
  • For GC: Requires an Agilent 8890 or Intuvo 9000 GC with a J&W column with Smart ID Keys.

Inclusion of the eMethod software tool with OpenLab CDS
• Allows the import of available eMethods from Agilent to OpenLab CDS.

Acquisition

Added injection types for GC dual injection sequence
• Ability to run samples with "Manual/External" or "No Injection/Instrument Blank" as injection sources in the same dual sequence.

Data Analysis and Reporting

Integration parameters for individual MS signals
• Ability to setup integration parameters for individual MS signals similar to existing chromatographic signals.
  • Total Ion Chromatogram (TIC) Single Ion Monitoring (SIM), TIC Scan, SIM and EIC (Extracted Ion Chromatogram).

Normalized amount calculations
• Ability to easily apply NORM calculation using custom calculator. Supports % and ppm calculation corrected for different sample volume inputs.

Enhanced report generation and export capabilities.
• Ability to generate more than 2 reports automatically using a Data Analysis method.
Version 2.5

- Reports can now be named and saved to locations using tokens allowing for automated routing /printing using 3rd party applications.

**MS spectrum overlay**

- Ability to overlay several color-coded MS Spectrum to compare MS Spectrum from different samples.

**Split TIC SIM signal by Polarity, Fragmentor, and Gain for MS data**

- Ability to view separate TIC SIM signals based on Polarity, Fragmentor, and Gain to provide unique information for each of these different analytical conditions.

**Data exported in AIA. NetCDF standard format now includes MS spectra.**

**Export of files in Analytical Studio Reviewer (ASR) file format**

- Ability to generate files in ASR format to allow OpenLab CDS data to be viewed in MassHunter Analytical Studio Reviewer. *Plate view is not currently supported.*

**Backup tool for WorkStation Plus**

**New utility provides users with enhanced data backup and restore including the ability to:**

- Set up scheduled data backups
- Perform immediate data backup
- Supports cold backup or hot backup

**New PowerShell script enables one step data restore**

**Hot backup support for Client/Server**

**New procedure for hot backup and restore of the OpenLab Server and ECM XT system. Hot backup can be performed while the system continues to acquire and analyze data.**
Version 2.5

Driver Updates

Agilent Instrument driver packages shipped with OpenLab CDS 2.5

<table>
<thead>
<tr>
<th>RC.NET Instrument Driver</th>
<th>Driver Software Revision</th>
<th>Installed by default with OpenLab CDS 2.5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agilent LC</td>
<td>3.1</td>
<td>x</td>
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<tr>
<td>Agilent ELSD</td>
<td>1.8</td>
<td></td>
</tr>
<tr>
<td>Agilent LC/MS SQ</td>
<td>2.4</td>
<td>x</td>
</tr>
<tr>
<td>Agilent GC</td>
<td>3.2</td>
<td>x</td>
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<td>Agilent Micro GC</td>
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<tr>
<td>Agilent GC/MS SQ</td>
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<td>Agilent 35900E A/D Converter</td>
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<td>x</td>
</tr>
<tr>
<td>Agilent SS420X A/D Converter</td>
<td>A.01.01</td>
<td>x</td>
</tr>
<tr>
<td>Agilent Data Player</td>
<td>2.3</td>
<td>x</td>
</tr>
<tr>
<td>Agilent CTC PAL 3</td>
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<tr>
<td>Agilent CTC PAL-xt</td>
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</tbody>
</table>

Non-Agilent Instrument Control Drivers

For the most current list of supported Non-Agilent instruments visit the OpenLab CDS product page at: www.agilent.com/chem/openlabcds
Version 2.4

Infrastructure Support

OpenLab CDS version 2.4 is supported in the following configurations: Workstation Plus, Workstation with file-based storage, and Client/Server.

Workstations, Clients and Agilent Instrument Controllers (AICs) are supported on:

- Windows 10, Enterprise or Professional, 64-bit (version 1703, 1709, or 1803)\(^5\)
- Windows 7 SP1, Enterprise or Professional, 64-bit

Additionally, for networked deployments, clients and AICs are supported on:

- Windows Server 2012 R2, Standard or Datacenter, 64-bit
- Windows Server 2016, Standard or Datacenter, 64-bit

New support for OpenLab ECM as networked security repository for OpenLab CDS. Supported OpenLab ECM software:

- OpenLab ECM Version 3.5 Update 6 or later is required
- OpenLab ECM Version 3.6

No operating system support has been removed since v2.3.

Acquisition

Priority sample submission

- Ability to add priority sample. Users can submit priority samples that will acquire after the current injection is completed.

\(^5\) for support of the most current versions check with your Agilent representative
Version 2.4

Edit pending sequences
• Ability to edit pending sequence. Users can preview the pending sequence and modify all pending lines of the sequence without disruption to the run queue.

Support for multiple gain acquisition with LC/MSD
• Ability to acquire data with different gain settings for the same mass to allow increased throughput (see LC/MS Driver Update for details).

SIM ion override
• Allows users to specify target SIM ion other than what is currently defined in the acquisition method at time of sequence submission.

Reasons for aborting (see Data Integrity Enhancements for details)

Control client (see Data Integrity Enhancements for details)

Data Analysis and Reporting

Support for MS profile mode
• Acquire and view MS data in profile mode with quantitation through extracted chromatograms from spectrum peak.

Improvements to custom calculator expression editor
• Adoption of common scripting standards to provide improved readability
• Autofill and error highlighting
• Indenting and inline help

Multi MS library searching
• Ability to select up to 10 libraries in processing method to search spectrum in the NIST format Library
Automated batch export functionality of CSV file
• CSV file includes mass, peak area, peak height and retention time.

Automatic calculation of UV purity sensitivity value
• Ability to have the purity threshold calculated automatically for all compounds in the method based on the sensitivity set for a compound.

Signature order and locking results on sign (see Data Integrity Enhancements)

Data Integrity Enhancements

Improved signature workflow support
• Ability to enforce customizable signature paths
• Ability to approve/reject multiple at the same level

Signature order and Locking results on sign
• Administrators now have the ability to configure and enforce a signature order. When enabled, signatures in Data Analysis will have to follow the order and meaning as prescribed in the project’s signature settings. An additional enhancement in the Signature Settings page allows for all results to be automatically locked upon the first signature.

Reasons for aborting
• If reasons are enabled for Results modification, the user will now be prompted for a reason when they intentionally abort a run queue item.

Obscure Locked Windows
• If OpenLab CDS is locked, the text in the application is blurred in the event that it may be displaying confidential or sensitive information in its tests or descriptions.
Version 2.4

Control Client

- In a multi-user environment, users with the privilege to manually control an instrument can "take control" of an instrument to modify its settings. Other users can still submit runs to the instrument run queue, but only one user can be modifying these settings at a time. This reduces mistakes in user overlap and allows changes to the instrument settings to be correctly attributed to the person who is in-control.

Add-ons

Introduction of QualA add-on for OpenLab CDS WorkStation Plus and Client/Server

- New software qualification tool allowing customers to self-perform software qualification assessments for future minor software releases.

Version 1.4 of Migration Tools for OpenLab add on to support workstation to workstation upgrades to CDS 2.4 from the following software:

- ChemStation C.01.05, C.01.06 or C.01.07
- EZChrom A.04.05, A.04.06 or A.04.07

Support for creation and automated export of Alltrope files in OpenLab CDS WorkStation and Client/Server software. The Alltrope Data Format (ADF) files are a universal data format, a detailed description of the Alltrope Data Format and its structure is available on the Alltrope Foundation web site (https://www.alltrope.org).

- Automated creation of Alltrope Data Format when result set/injection completes. Consists of the LC-UV analytical raw data (chromatograms + spectra) plus metadata and the original OpenLab CDS files.
- Manual export of result set or sequence
**Driver Updates**

Agilent Instrument driver packages shipped with OpenLab CDS 2.4

<table>
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<tr>
<th>RC.NET Instrument Driver</th>
<th>Driver Software Revision</th>
<th>Installed by default with OpenLab CDS 2.4</th>
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<td>Agilent GC</td>
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<td>Agilent GC/MS SQ</td>
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<td>Agilent 490 Micro GC</td>
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<td>Agilent Headspace</td>
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<td>Agilent 35900E A/D Converter</td>
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<td>Agilent SS420X A/D Converter</td>
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<td>Agilent Data Player</td>
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</table>

**Non-Agilent Instrument Control Drivers**

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**LC/MSD Driver Update**

Method Editing with Gain

- Method editing now supports Gain instead of EMV. EMV from previous methods will be reset to Gain=1. Using constant gain in methods relieves the user from controlling delta EMV change in a regulated environment.

Two Scan Types with Method Manual Resolution
Version 2.4

- The driver now designates two scan types: Single Ion Monitoring (SIM) and Scan. The “Scan” scan type will persist throughout the run. If there are Scan method discrepancies, the Manual Resolution window with hover-over tips will appear for users to adjust their method. Additionally, users can check the “Target points per second” box to specify the number of points across the peak. The driver software will automatically calculate the scan time and dwell time to meet the “Target points per second” setting.

Time Segments in Audit Trail but Not in UI
- Since the scan will be run throughout the time segments, the audit trail reflects time segment changes although the UI no longer shows time segments as an option.

Distinguishing Scan Traces with Overlapping Masses
- When there are overlapping masses in multiple “Scan” scan segments and if all the parameters (fragmentor, gain, polarity) are the same, users will not be able to distinguish the scan trace that the overlapped mass came from in Data Analysis. If any of the above parameters is different, users will be able to distinguish the spectrum data based on the parameters shown in DA.
OpenLab CDS version 2.3 is supported in the following configurations: Workstation Plus, Workstation with file-based storage, and Client/Server.

Workstations, Clients and Agilent Instrument Controllers are supported on:
- Windows 10, Enterprise or Professional, 64-bit, version 1607 or later
- Windows 7 SP1, Enterprise or Professional, 64-bit

Licensing updates
- OpenLab CDS version 2.3 requires an update to the license file from SubscribeNet when upgrading.

Functional verification following upgrade installation

**Acquisition**

LC shutdown options in run queue allows users to set shutdown actions

Shifting of runs/sequences in the run queue
- Users can edit the order of pending items in the run queue.

Ability to display all users currently using the same instrument

Automated sequence summary report
- Ability to specify the sequence summary report(s) at the time of sequence submission.

Graphical display of sample location
- Optionally display the location of your samples in a sequence table when using most Agilent LC injectors.
**Data Analysis and Reporting**

Extract 2D (UV) signal from 3D matrix
- Ability to define specific chromatogram extraction parameters and identify and quantify compounds from extracted chromatograms.

Isoplot UI for interactive spectra and signal extraction
- Ability to display a 3D UV matrix as an isoplot and to provide tools for method optimization.

MS peak purity
- MS Peak Purity for SCAN and SIM/SCAN data. Users can setup in the processing method to calculate MS peak purity for identified peaks or all peaks.

Mass annotation
- Ability to label the UV and MS chromatogram peaks with base peak m/z.

Chromatogram smoothing
- Ability to setup the smoothing parameters in the processing method.

Loading methods from another project
- Allows authorized users to browse to another project, open a method and save a copy of that method to their current project or link it to a result set.

Overlay chromatograms from different projects
- Allows users to load data from other projects to compare results.

MS tune report
- Ability to display the MS tune report for selected injection from the injection tree.

Enhanced conditional formatting and Reporting
- Improved conditional formatting for tables, fields, and matrix including multiple color choice.

Automated export of ChemStation and AIA Files
- Ability to define automatic export of raw data (ANDI/AIA, CH) during a running sequence as part an automatic processing method.
**Version 2.3**

Load ChemStation/EZChrom Method
- Users can open a result set from ChemStation or EZChrom (option to have multiple methods imported and linked automatically).

OpenLab CDS data analysis updated to true native 64-bit support for handling of large files/data.

**Driver Updates**

Driver packages (revision) installed with OpenLab CDS version 2.3:

- Agilent LC A.02.19
- Agilent LC/MSD A.01.02.35
- Agilent GC B.01.03
- Agilent GC/MSD A.01.02
- Agilent 35900E A/D 2.3.0
- Agilent SS420x Interface A.01.01
- Agilent Data Player A.02.01

Other RC.NET drivers included on USB media:

- CTC PAL3 A.01.04
- PAL XT B.01.08
- ELSD A.01.07
- Agilent 490 Micro GC 1.12.3
- Agilent Headspace B.01.07.2

**Non-Agilent Instrument Control Drivers**

For the most current list of supported Non-Agilent instruments visit the OpenLab CDS product page at: [www.agilent.com/chem/openlabcds](http://www.agilent.com/chem/openlabcds)
Version 2.2

Infrastructure Support
OpenLab CDS version 2.2 is supported in the following configurations are Workstation Plus, Workstation with file-based storage, and Client/Server.
Workstations, Clients and Agilent Instrument Controllers can run under the following:
- Windows 10, Enterprise or Professional, 64 bit
- Windows 7 SP1, Enterprise or Professional, 64 bit
- Windows 8.1, Enterprise or Professional, 64 bit

Acquisition
Automated creation of sequence result folder and name
Project enhancements supporting template file sharing
- Ability to share sequence and templates within multiple projects.
Failover state for operational continuity
- Allow submission of samples through the AIC in case of network connectivity failure occurs.
Method translation from 68xx to 78xx and Intuvo
- Ability to open acquisition method created on a 68xx and use on 78xx or Intuvo.

Data Analysis
Snapshot via Data Analysis
- Ability to view, process and print from a sample that is being acquired.
Translation and import of MSD ChemStation data format to OpenLab CDS
Enhancement to user permissions and version access in Data Analysis
- Auto-lock result set when e-signing
- Version label will not change when a result set is signed or locked
- User can sign a locked result set
Version 2.2

- Load older version of a processing method & single run result sets where available
- Enhancements to user privilege control for MS functionality

Enhancements to reporting
- Zoom in/out of report preview with mouse wheel
- Ability to add any data field in header or footer
- Use of complex custom fields in filter, grouping and sorting expressions
- More formatting settings for custom tables
- New option to remove duplicate peaks when using named groups
- Ability to define sorting of a repeated table

Integrated template documentation tool
- Allows the template author to document the design of the report template.

Enhancements for MS data include:
- Report single values of method override parameters in table and single fields
- Print graphical qualifier results (limit lines) and missing qualifiers

Add-ons
The following add-ons are supported with OpenLab CDS (*additional licenses may be required):
- Support for Sample Scheduler for OpenLab
- Support for Gel Permeation Chromatography (GPC)* add-on
- Manual export of data files in legacy formats:
  - ChemStation Edition *.D (including ch)
  - AIA
- Support for Match Compare for OpenLab*
Version 2.2

Driver Updates

Driver packages (revision) installed with OpenLab CDS version 2.2:

- Agilent LC A.02.16.6
- Agilent LC/MSD A.01.02
- Agilent GC B.01.02
- Agilent GC/MSD A.01.01
- Agilent 35900E A/D 2.3.0
- Agilent SS420x Interface A.01.01
- Agilent Data Player A.01.02

Other RC.NET drivers included on USB media:

- CTC PAL3 A.01.03
- PAL XT B.01.08
- ELSD A.01.07
- Agilent 490 Micro GC B.01.12
- Agilent Headspace B.01.07.2

Non-Agilent Instrument Control Drivers

- Includes driver support for Waters e-Alliance, Alliance, Acquity and Acquity H-Class LC instruments
- Includes support for Bruker/Varian CP-3800/3900 and Scion 430/450/456 GC instruments
- Includes support for Valco Instruments Valves: EMHCA-CE, EMHA-C, EMTCA-C
- Includes support for Shimadzu GC and LC instruments
- Includes support for Thermo Accela / Surveyor LC instruments
3 Important Support Information

For known issues and workarounds in the OpenLab software at the time of release see the Software Status Bulletins (SSB), which can be found online at:

Software Support Lifecycle Policy

Check the Agilent Software Support Lifecycle Policy at https://www.agilent.com/en/support/agilent-openlab-software-support-lifecycle-policy so you can schedule the updates to keep your version up to date.

Agilent Community

To get answers to your questions, join over 10,000 users in the Agilent Community. Review curated support materials organized by platform technology. Ask questions to industry colleagues and collaborators. Get notifications on new videos, documents, tools, and webinars relevant to your work.

https://community.agilent.com/

Agilent on the web

Visit Agilent’s website for up to date issue information on Agilent’s Analytical Software suite.
In This Book

This document provides a listing of the major feature modifications made in each release of OpenLab CDS Software.