InfinityLab Assist Control Software 2.3

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Introduction

This release note summarizes information for release 2.3 of the InfinityLab Assist Control Software.

For the InfinityLab Assist Control Software, find the summary of major changes below.

For information about defect fixes, please see the additional documents Software Status Bulletin (SSB) and if applicable a Software Release Bulletin (SRB).

Features and Changes

New Features

General

- Active Directory Authentication – Administrators can configure Active Directory-based authentication for InfinityLab Assist Control Software and Active Directory user activity logging.
- Real-Time Sequence Progress View – For systems connected to OpenLab CDS, Run Control now shows the active sequence name, method and sample name, and a progress bar directly from the InfinityLab Assist Control Software interface, without switching to the CDS application.
- Time Sync Mode Default in Startup Guide – First-time setup without a reachable NTP server now sets the time sync mode to CDS Sync automatically.
- Auto-Clean Quick Action for Multisampler – A new Auto-Clean quick action is available directly from the Multisampler status card, running a configurable wash cycle.
- USB Port Lock – USB ports can now be disabled under Settings > Security.

NOTE Real-time sequence progress requires Agilent LC and CE Drivers 3.12 and OpenLab CDS 3.0.

NOTE Active Directory authentication requires an OpenLab Forward Proxy (minimum version 1.9.0.99).

Health

- Injector Steps for Multisampler & Vialsampler – Manual, step-by-step control over the full injector sequence for troubleshooting and repair verification.
- Spectral Scan Tool – A new guided diagnostic captures spectral scans for DAD/MWD/VWD and Fluorescence detectors.
- ICC Heater Test – Verifies correct function of the Integrated Column Compartment heating element.

Tasks

- Prepare Needle and Seal Wash Step – An optional Make Ready step prepares seal wash and cleans the sampler needle, adapting automatically to the installed sampler (Vialsampler or Multisampler).
- RID Baseline-Based Equilibration – The Make Ready Equilibrate step for RID workflows now supports automatic baseline-stability monitoring.

Changed

General

- Instrument Status Distribution Report – The trend graph now supports any custom date range, updating dynamically for the selected period. PDF export for the selected range now also includes a summary table of total hours by instrument status (Analysis, Idle, Not Ready, Error, Offline), supporting instrument utilization tracking, compliance reporting, and maintenance planning.
- Classic/Smart Purge – Retain Last-Used Settings. The Purge dialog now remembers the last-used mode and parameters between sessions.

Features and Changes

- Expanded Activity Data Shared with CDS – More diagnostic, task, and authentication activity is now included in the data shared with the connected CDS.
- Clustered Module Grouping – Modules that are part of a supported cluster (VTC, HDR) are now shown grouped in an expandable section under Settings > Instrument, instead of listed individually.

Compatibility Matrix

The compatibility matrix provides information about installation and execution prerequisites with respect to hardware, firmware and the operating system.

Supported Operating Systems

The following PC and software requirements are needed for viewing the browser user interface.

Specification Description	Details
Operating system name, version	Windows 10 or 11, Enterprise or Professional, 64-bit
Web browser	Chromium-based browser (Chrome, Edge) with a version 147 or higher Safari-based browser with a version 26.5 or higher

InfinityLab Assist Control Software Localization

The Agilent InfinityLab Assist Control Software is available in US English, Chinese, and Japanese language.

Supported Chromatographic Data Systems

This version of the Agilent InfinityLab Assist Control Software is supported with the CDS listed below:

Software	Software Versions/ Feature Introduction
OpenLab CDS	2.7 (and subsequent Services Releases (SR)) 2.8 (and subsequent Services Releases (SR) and Feature Packs (FP)) • 2.8 Update 2 (provides browser access) • 2.8 Update 3 (supports OpenLab CDS authentication) 3.0 (supports the real-time sequence progress view)
OpenLab CDS ChemStation Edition	C.01.11 LTS
Agilent MassHunter Acquisition	12.1 (QTOF) 12.2 and 12.3 (TQ)
Waters™ Empower™ (Waters and Empower are trademarks of Waters Corporation.)	Refer to Release Notes for Agilent Driver for Waters Empower under resources in User Manual. Agilent Drivers for Waters Empower CDS
Thermo Scientific Chromeleon	Refer to Release Notes for Agilent Driver for Thermo Fisher Chromeleon under resources in Technical Overview. Instrument Control Framework for LC | Non-Agilent Software

Some of the functionality offered by the Assist Control Software may not be supported by all LC drivers and CDSs. Please refer to above feature list and the corresponding CDS and ICF documentation for further details.

Assist Control Software features that rely on LC Driver functionality are only available when the installed driver version supports them. See *Agilent LC and CE Drivers* below for the minimum driver version per feature.

Drivers	Software Versions/ Feature Introduction
Agilent LC and CE Drivers	3.7 SR1. Minimum supported version. 3.8. Adds the Assist Hub driver tile in the CDS Instrument Status Dashboard, support for security features "CDS Required" and "Access Token".

Compatibility Matrix

	3.10 Supports Instrument Service Blocking feature. 3.11. Required for Valve-Thermostat Cluster and High Dynamic Range cluster support. 3.12. Required for the Real-Time Sequence Progress View
Agilent Drivers for Thermo Scientific Chromeleon	3.1, Update 1 and Update 2 (Agilent LC Drivers 3.7 SR1) 3.2 (Agilent LC Drivers 3.11)
Agilent Drivers for Waters Empower Chromatography Data System	4.1 (Agilent LC Drivers 3.8) 4.2 (Agilent LC Drivers 3.9) 4.3 (Agilent LC Drivers 3.11)

Installation

For proper installation and setup of the Agilent InfinityLab LC Series Assist system, users are advised to follow the procedures outlined in the official documentation. Please refer to the Agilent InfinityLab LC Series Assist User Manual.

This manual provides comprehensive, step-by-step guidance to ensure correct installation, configuration, and initial operation of the system in accordance with Agilent's specifications and best practices.

Other Documents

The InfinityLab Assist Control Software USB drive includes more documents with further information:

- Software Status Bulletin (SSB): The Software Status Bulletin lists known limitations, incompatibility and information about available fixes or workarounds for this and previous versions.
- Software Release Bulletin (SRB): The Software Release Bulletin is an excerpt from the SSB which lists issues which have been fixed with this revision.

Where to find additional information online

- SSB and SRB are included in the InfinityLab Assist Control Software installation media and can be found in the folder documentation.
- The SSB is updated regularly. Please visit our Website for the latest version at https://www.agilent.com/cs/library/support/Patches/SSBs/Assist_Control_Software.html
- For detailed information on new modules and features, please refer to the InfinityLab Assist Control Software online help and corresponding module manuals, which are available at http://www.agilent.com.

Updates

Agilent continuously improves its drivers, firmware and software and recommends using latest updates. If applicable, any updates or bug fix releases for this InfinityLab Assist Control Software are available from Agilent InfinityLab Assist Updates https://update.pl29.agilent.com/infinitylab.

To ensure a smooth update process for the Agilent InfinityLab LC Series Assist system, users are encouraged to follow the official documentation. Detailed instructions and best practices can be found in the Agilent InfinityLab LC Series Assist User Manual.

This manual outlines the necessary steps for performing updates safely and effectively, in alignment with Agilent’s operational standards.

Appendix

Appendix A – Release History

Version 2.2.12

Released Apr 2026

Added

Compatibility

- Triple Quadrupole Mass Spectrometry Support - Support for Triple Quadrupole instruments (6495D Triple Quadrupole LC/MS, 6475 Triple Quadrupole LC/MS, Ultivo Triple Quadrupole LC/MS). Includes a dedicated status card for LC/MS system status and instrument actuals, real-time monitoring of MS signal actuals on the Ambient Screen, and guided maintenance procedures for Source Cleaning, Nebulizer Cleaning, and Capillary Cleaning.
- 1290 Infinity III Fluorescence Detector Support - Support for the Agilent 1290 Infinity III Fluorescence Detector. Includes status card with operation mode and instrument actuals, quick actions for Lamp On/Off, Balance, and Identify Device, real-time signal monitoring on the Ambient Screen, configurable lamp on/off in Make Ready and Standby tasks, Lamp Intensity Scan and Wavelength Accuracy Test, guided procedures for Wavelength Calibration, Hg-Xe Lamp Exchange, Lamp House Window Exchange, and Flow Cell Exchange, and EMF counters for accumulated Hg-Xe Lamp On-Time and Number of Ignitions.
- Valve-Thermostat Cluster Support - The Valve-Thermostat Cluster (VTC) consolidates all components of a multi-column switching system into a single, unified interface. Includes a unified status card showing active flow path, temperature zones, and device status at a glance, column path switching from the status card, column-to-flow-path assignments in the Instrument details view, and Make Ready and Standby task support.
- High Dynamic Range Detector Cluster Support - Support for High Dynamic Range (HDR) detector configurations combining two Photodiode Array Detectors (DADs) to extend the linear dynamic range. Includes a single combined status card, Make Ready and Standby task support, and combined HDR signal on the Ambient Screen for real-time monitoring.

NOTE Full support for Valve-Thermostat Cluster (VTC) and High Dynamic Range (HDR) detector cluster configurations requires Agilent InfinityLab LC and CE Drivers version 3.11 or later.

Health

- Expanded Diagnostic Tests - New guided procedures for Holmium Oxide Test (G7114A/B, G7115A, G7165A), Dark Current Test (G7114A/B, G7115A, G7117A/B/C, G7165A), and Cell Test (G7114A/B, G7115A, G7117A/B/C, G7165A).
- New Maintenance Procedures - Wavelength Calibration for G7121A and G7121B.
- New Maintenance Procedures - Source Cleaning, Nebulizer Cleaning, and Capillary Cleaning for the Agilent InfinityLab Pro iQ Mass Detector (G6160B) and Pro iQ Plus Mass Detector (G6170A).

General

- Custom Role Name - Custom display names can now be assigned to the built-in user roles (Viewer, Lab Analyst, Maintenance Technician).
- RID Status Card - The status card for Refractive Index Detectors (G7162A, G7162B) now shows the RI Signal actual value directly on the card.

- Make Ready Gradient Flush: Composition Graph - During the Gradient Flush step of a Make Ready task, a composition graph now shows the change in eluent composition over time for each pump channel.
- Sample ID Reader Firmware Version - The installed firmware version of the Sample ID Reader is now shown in Settings.

Changed

- Improved Existing Procedures - Thermostat Test and Pump Leak Rate Test have been improved.
- Module Mapping Guide - The Module Mapping Guide now automatically resolves task-to-module assignments in a wider range of scenarios, including settings file import, module type exchange, and system expansion. If tasks require manual resolution, a direct link to the Module Mapping Guide is shown automatically.
- Firmware Details Expanded - In the software update details screen, the Firmware Update row is now expanded by default when a firmware update is available.

Version 2.1.14

Released 27 Mar 2026

General

Service Release 2 for InfinityLab Assist Control Software 2.1, resolving a critical issue in Assist Control Software 2.1 and 2.1 SR1 where Assist Hub could terminate unexpectedly after a fresh installation.

Version 2.1.13

Released 26 Feb 2026

General

Service Release 1 for InfinityLab Assist Control Software 2.1, providing compatibility with Agilent LC & CE Drivers 3.11.

Version 2.1.9

Released 04 Nov 2025

Tasks Enhancements

- Advanced Task Configuration: Users can now define ramp parameters, customize detector wavelengths, and utilize the newly added gradient flush support.

Software Enhancements

- Pump Control Enhancements: Quick actions now allow control over minimum and maximum pressure settings.
- Firmware Update: The Sample ID reader now supports automated firmware updates for streamlined maintenance.
- Multi-IP Support: Stored mode now supports multiple IP configurations.
- Ambient Screen Improvements:
    - Display block messages directly on the ambient screen.
    - Add contextual notes to support collaboration and provide relevant information for colleagues.

- Admin Settings: More granular control options available in the admin settings panel.

Compatibility

- Cluster Visualization: Enhanced status board now supports visualization of:
    - 2D-LC Clusters
    - Pump Valve Clusters
    - Valve Thermostat Clusters

Health

- Temperature Trends: Autosampler temperature trends are now available in Insights.
- Diagnostic Tools: A new guided procedure for thermostat testing has been added to the diagnostic toolkit.

User Information

- Application Notes Access: A direct link is now provided to application notes for the Assist Control software.

Changed

- Improved Automation: Enhanced thermostat behavior and sensitivity for automated tasks, along with improved task duplication functionality.

Version 2.0.14

Released 18 Jul 2025

General

- OpenLab CDS Login Support - Login to InfinityLab Assist is now supported using OpenLab CDS credentials (This feature is supported with OpenLab CDS version 2.8 update 3 and requires an OpenLab Forward Proxy minimum version 1.9.0.64).
- PDF Report Export - PDF reports can now be generated and exported from logbook entries to support archiving and documentation.
- Instrument Service Blocking - Instrument can be blocked for service, restricting user access and CDS connectivity. Includes scheduled maintenance notifications. (Instrument Service Blocking in CDS is supported with LC and CE Drivers version 3.10).
- Update Notifications - Notifications are provided when new firmware or software updates become available, in case the InfinityLab Assist has outbound access to the Internet.
- Settings & Task Portability - Settings and tasks can be exported and imported across instruments, with encryption and configurable import options.
- Instrument Status Distribution - Usage is displayed by day, including time spent in active, idle, error, or off states, supporting efficiency assessments.
- Customizable Instrument Status View - The order of instrument status cards can be configured to match specific laboratory workflows.
- Japanese Language Support - The interface is now available in Japanese. On-screen keyboard has been improved for support of non-Latin characters.

Compatibility

- iQ LC/MS Detector Integration. Support for G6160B Pro iQ and G6170A Pro iQ Plus mass detectors within the Assist interface.
- Hybrid Multisampler Setup - Configuration support added for the 1290 Infinity III Hybrid Multisampler (G7137B)
- Sample ID Reader Status. The Infinity III Multisampler now displays the status of the InfinityLab Sample ID Reader (G4756A).
- Level Sensing Workflow. Integration with InfinityLab Level Sensing (G7175A), including solvent refill detection and guided adjustment dialogs.
- Agilent CrossLab Smart Alerts Integration. Compatible with Agilent CrossLab Smart Alerts A.02.02 for enhanced monitoring.

Health

- Interactive Guidance - Troubleshooting now includes step-by-step diagnostic procedures with interactive links for faster issue resolution.
- Guided Maintenance Procedures - Includes detailed workflows for pump head maintenance, rotor seal replacement, and peristaltic pump servicing.
- Expanded Diagnostic Tools - New guided procedures for pump leak rate testing, wavelength calibration, and FLD intensity testing.

Changed

- Instrument Trend “Analyses Per Day” - New name "Analysis Activity" - Successful and failed analyses are visualized based on the presence or absence of instrument error events during execution.
- Online Plot Widget - Improved usability for the Online Plot widget on Home and Ambient screens.

Version 1.1.0

Released 12 Dec 2024

Fixed

- Time zone handling issues in Assist Hub and Interface.
- Task scheduling uses the configured time zone.
- Instrument trend calculations align with the Assist Hub time zone.
- EMF notifications restored after LC module reconnection.

Version 1.0.4

Released 18 Oct 2024

Added

- Guided Startup during system setup.
- Context-sensitive help directly at the instrument.
- Enhanced security with UI access control.
- Easy deployment via USB or browser.

Appendix

- Centralized instrument status and control.
- Task automation and scheduling.
- Seamless CDS integration.
- Direct instrument diagnostics.
- Guided maintenance and health checks.
- Assisted troubleshooting with interactive guidance.

Appendix B – Minimum required InfinityLab Assist Control Software per LC module

The following sections of this guide outline the modules supported by Assist Control Software and specify the minimum required software versions for compatibility.

Appendix

Agilent LC – Pumps

Product Number	Description	min. required version
G5654A	Agilent 1260 Infinity II Bio-Inert Pump	1.0
G7104A	Agilent 1290 Infinity II Flexible Pump	1.0
G7104C	Agilent 1260 Infinity II Flexible Pump	1.0
G7110B	Agilent 1260 Infinity II Isocratic Pump	1.0
G7111A	Agilent 1260 Infinity II Quaternary Pump VL	1.0
G7111B	Agilent 1260 Infinity II Quaternary Pump	1.0
G7112B	Agilent 1260 Infinity II Binary Pump	1.0
G7120A	Agilent 1290 Infinity II High-Speed Pump	1.0
G7131A	Agilent 1290 Infinity II Bio Flexible Pump	1.0
G7131C	Agilent 1260 Infinity II Bio Flexible Pump	1.0
G7132A	Agilent 1290 Infinity II Bio High-Speed Pump	1.0

Agilent LC - Sampling Systems

Product Number	Description	min. required version
G5668A	Agilent 1260 Infinity II Bio-Inert Multisampler	1.0
G7129A	Agilent 1260 Infinity II Vialsampler	1.0
G7129B	Agilent 1290 Infinity II Vialsampler	1.0
G7129C	Agilent 1260 Infinity II Vialsampler	1.0
G7137A	Agilent 1290 Infinity II Bio Multisampler	1.0
G7167A	Agilent 1260 Infinity II Multisampler	1.0
G7167B	Agilent 1290 Infinity II Multisampler	1.0
G7167C	Agilent 1260 Infinity II Hybrid Multisampler	1.0
G7137B	Agilent 1290 Infinity III Hybrid Multisampler	2.0

Agilent LC - Column Compartments

Product Number	Description	min. required version
G7116A	Agilent 1260 Infinity II Multicolumn Thermostat	1.0
G7116B	Agilent 1290 Infinity II Multicolumn Thermostat	1.0
G7130A	Agilent Infinity Integrated Column Compartment	1.0

Appendix

Agilent LC – Detectors

Product Number	Description	min. required version
G7114A	Agilent 1260 Infinity II Variable Wavelength Detector	1.0
G7114B	Agilent 1290 Infinity II Variable Wavelength Detector	1.0
G7115A	Agilent 1260 Infinity II Diode Array Detector WR	1.0
G7117A	Agilent 1290 Infinity II Diode Array Detector FS	1.0
G7117B	Agilent 1290 Infinity II Diode Array Detector	1.0
G7117C	Agilent 1260 Infinity II Diode Array Detector HS	1.0
G7121A	Agilent 1260 Infinity II Fluorescence Detector	1.0
G7121B	Agilent 1260 Infinity II Fluorescence Detector Spectra	1.0
G7162A	Agilent 1260 Infinity II Refractive Index Detector	1.0
G7162B	Agilent 1290 Infinity II Refractive Index Detector	1.0
G7165A	Agilent 1260 Infinity II Multiple Wavelength Detector	1.0
G6160B	Agilent InfinityLab Pro iQ Mass Detector	2.0
G6170A	Agilent InfinityLab Pro iQ Plus Mass Detector	2.0
G7123B	Agilent 1290 Infinity III Fluorescence Detector	2.2
G6495D	6495D Triple Quadrupole LC/MS	2.2
G6475A	6475 Triple Quadrupole LC/MS	2.2
G6465B	Ultivo Triple Quadrupole LC/MS	2.2

Agilent LC - Valve Drives, Valves

Product Number	Description	min. required version
G1170A	Agilent 1290 Infinity II Valve Drive	1.0

Agilent LC - Other Modules

Product Number	Description	min. required version
G1390B	Agilent 1200 Infinity Series Universal Interface Box	1.0
G7175A	Agilent InfinityLab Level Sensing	2.0

Agilent LC – Clusters

Product Description	Description	min. required version
Agilent Pump Valve Cluster Driver	A combination of one of the following pumps with up to two G1170A and valves 5067-4147 or 5067-4159 Supported pumps: G7111x, G7112x, G5654x, G7104x, G7120x, G7131x, G7132x	1.0
Agilent Valve-Thermostat Cluster Driver	A combination of G7116B, G1170A for combined valve control plus a combination of G7116B and G7130A for combined temperature control. Supports up to 32 columns.	2.2
Agilent 2D-LC System Driver	Combination of one 2D-capable pump G7120A with up to four G1170A valve drives into a 2D-LC System Driver.	2.1
Agilent 1200 Infinity Series High Dynamic Range DAD Solution	Combines two G7117A/B for high dynamic range DAD applications	2.2

NOTE

Modules which are part of Agilent Pump Valve Cluster and Agilent 2D-LC System are displayed with a cluster icon in status. Task execution for these clusters is not available in this version and will be added in a future release.

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