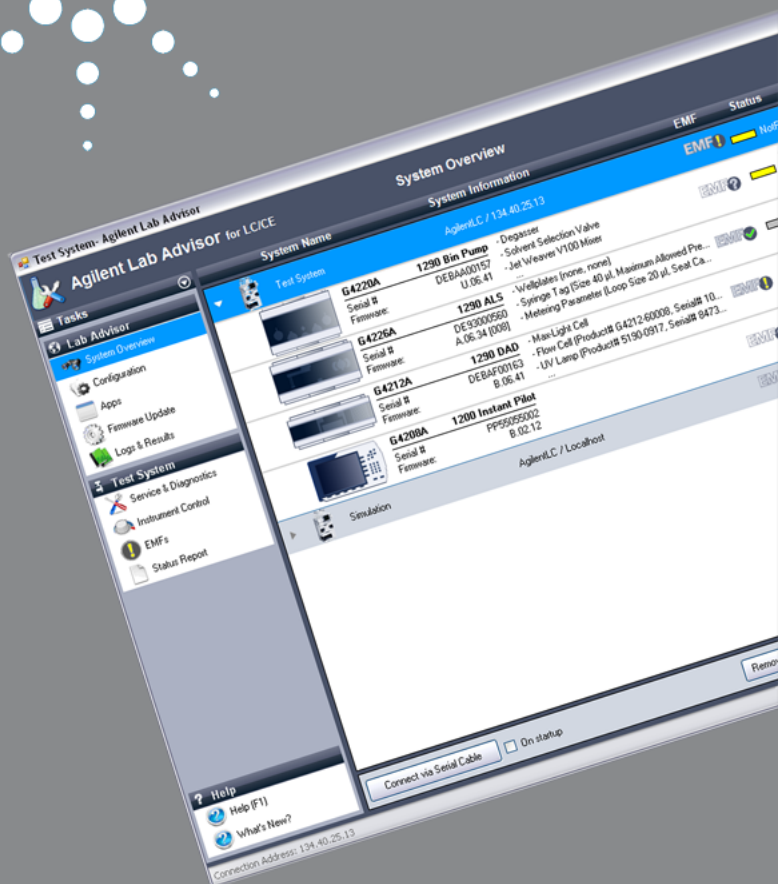




Agilent Lab Advisor

User Manual



Agilent Technologies

Notices

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CAUTION

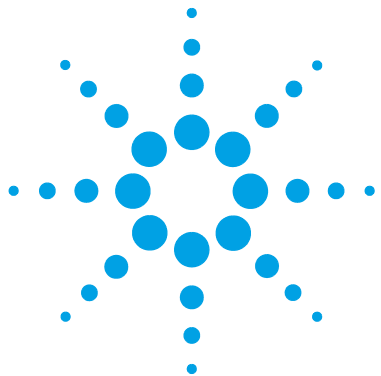
A **CAUTION** notice denotes a hazard. It calls attention to an operating procedure, practice, or the like that, if not correctly performed or adhered to, could result in damage to the product or loss of important data. Do not proceed beyond a **CAUTION** notice until the indicated conditions are fully understood and met.

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1

Lab Advisor B.02.04 Overview

Lab Advisor Basic 6

Lab Advisor Advanced 7

This chapter describes the two versions of Lab Advisor B.02.04: Lab Advisor Basic and Lab Advisor Advanced.

With its advanced diagnostic and maintenance capabilities, Agilent Lab Advisor helps you to keep your Agilent LC and CE instruments in top condition and thereby achieve high quality chromatographic results. Agilent Lab Advisor is an application-independent tool: it can support Agilent LC and CE instrumentation regardless of whether you are using Agilent or non-Agilent software to control the instruments. The Agilent Lab Advisor is available in two flavors: Lab Advisor Basic and Lab Advisor Advanced.



Lab Advisor Basic

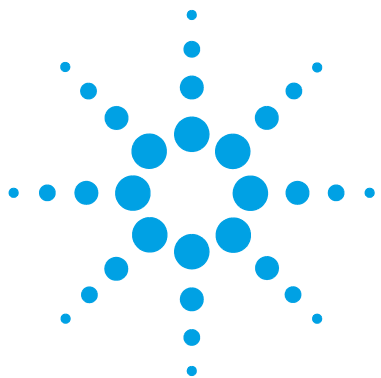
Lab Advisor Basic provides state-of-the-art tests, tools and calibrations to support you in the daily operation, maintenance and basic troubleshooting tasks. The Basic version comes with a full set of diagnostic and maintenance capabilities, allowing you to perform troubleshooting and maintenance tasks efficiently and with little effort.

Lab Advisor Advanced

Lab Advisor Advanced has been designed to support users who need the highest quality data and the utmost reliability from the Agilent LC and CE instrumentation. This is provided with additional functionality that includes tools and features that allow you to carry out sophisticated diagnostic, usage-based maintenance, and generate traceable results, including features such as user log-on with password, traceable result files, advanced EMF functionality and data sharing facilities.

1 Lab Advisor B.02.04 Overview

Lab Advisor Advanced



2 Installation

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This chapter contains instructions for installing Lab Advisor.B.02.04.



Prerequisites

Agilent Lab Advisor can run on any Microsoft Windows XP or Windows 7 PC with Microsoft .NET 2.0 or higher installed. The software has been extensively tested with the following software packages:

Table 1 Supported Software List

Element	Revision
Windows XP Pro	SP3
Windows 7	32 bit
Windows 7	64 bit
Windows Server 2008 R2	
Internet Explorer	7.0
Internet Explorer	8.0
.Net Framework	2.0 and higher
Symantec Antivirus	11.0
Adobe Acrobat	9.0

For optimum performance of your Agilent Lab Advisor software, the following minimum requirements should be fulfilled. The minimum supported configuration is based on the installation on a Netbook, but for larger installations, or for higher performance, the recommended configuration should be used.

Table 2 PC Hardware Configurations

	Minimum (Netbook) Configuration	Recommended Configuration
Processor	Intel Atom processor	Pentium D or higher, Intel Dual-Core 3.4GHz or higher
RAM	1.0 GB or more	≥ 1 GB (Windows XP SP3 Pro) ≥ 2 GB (Windows 7)

Table 2 PC Hardware Configurations

	Minimum (Netbook) Configuration	Recommended Configuration
Hard disc	1 GB	160 GB or bigger
Video	1024 × 600 resolution	1280 × 1024 resolution
Removable media	(external) CD-Rom drive	DVD drive
Mouse	MS Windows compatible pointing device	MS Windows compatible pointing device
LAN	10/100baseT	10/100baseT
Operating Systems	Windows 7 Starter	Windows XP Pro Service Pack 3 Windows 7 Windows Server 2008 R2 for server installations
Printer	all printers supported by the operating system in use	all printers supported by the operating system in use

Deployment Modes

Lab Advisor can be deployed in four different modes:

Table 3 Lab Advisor Deployment Modes

Mode	Installation	Start	Data location
Standard	Installed on the local hard drive using setup.exe, see “ Hard drive installation ” on page 13.	Run from desktop icon or Windows Start menu.	Standard: ..\Agilent Lab Advisor\AgilentLabAdvisorData\...
Server	Installed on Windows Server 2008 using setup.exe and published as a shareable application, see “ Server Installation ” on page 18.	Run using RDP link at clients' desktops.	..\Agilent Lab Advisor\AgilentLabAdvisorData-[TerminalHostName]\...
Instant	No installation required.	Run AgilnstrDiag.exe from the installation CD, see “ Running Lab Advisor from the CD-ROM ” on page 19	Standard: ..\Agilent Lab Advisor\AgilentLabAdvisorData\...

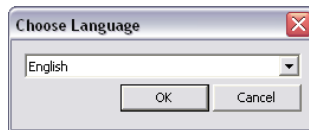
Hard drive installation

- 1 Double-click the **Setup.exe** icon to start the installation.



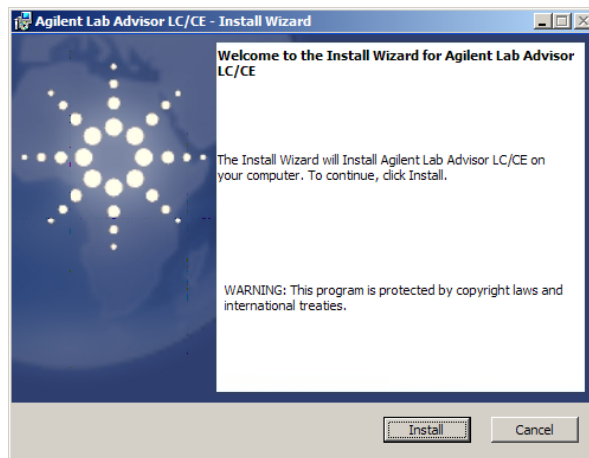
setup.exe

The **Choose Language** dialog box is displayed.



- 2 Click the down-arrow and select the language from the list and click **OK**. Lab Advisor supports English, Chinese and Japanese.

The first page of the installation wizard is displayed.



NOTE

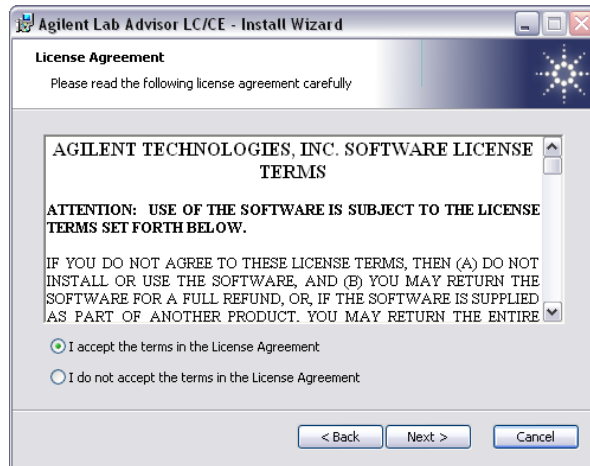
You can change the language after installation, see [“Language”](#) on page 38

2 Installation

Hard drive installation

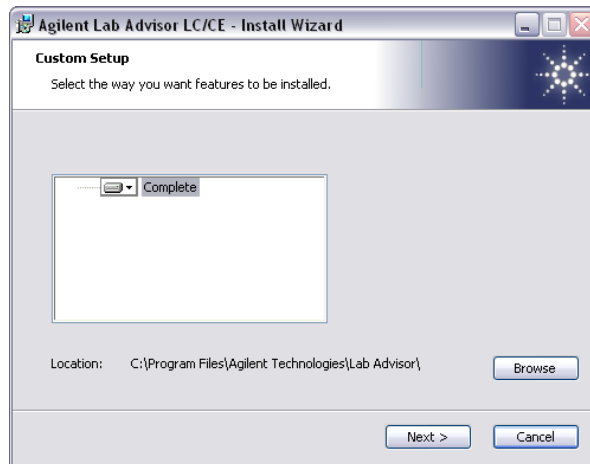
3 Click **Install**.

The License Agreement is displayed.



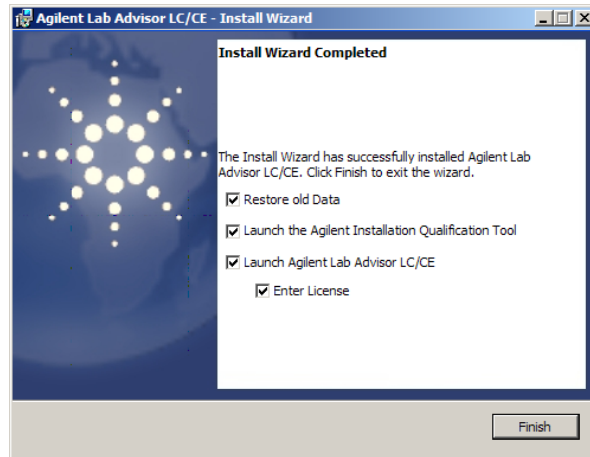
4 Select to accept the terms of the license and click **Next**.

The **Custom Setup** page of the installation wizard is displayed.



- 5 If you want to change the default location, click **Browse** to select a new location; otherwise, click **Next**.

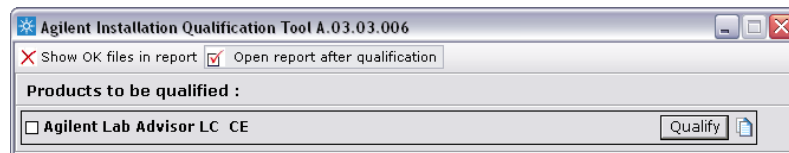
The last page of the installation wizard is displayed.



- 6 Mark the check boxes against the options you want to activate and click **Next**.

Restore old data restores old data from either B.01.xx installations or from previous B.02.xx installations. The data is not removed from the hard drive during de-installation, but if **Restore old Data** is cleared, the old data is permanently removed from the hard drive.

If the **Launch the Agilent Installation Qualification Tool** check box was marked, the Agilent IQT tool launches automatically. To start the Installation Qualification click **Qualify**.



The Installation Qualification Report is opened in a browser window and can be printed. To access the report at a later time, go to \Program Files\Agilent Technologies\Lab Advisor\IQTool\IQProducts\Agilent Lab Advisor LC & CE\Reports.

2 Installation

Hard drive installation

Installation Qualification Report				
Date:	31, May 2011	Time:	10:05:26 [UTC +02:00]	Host Name: CZC9030ZHW
Windows User Name:	je1208	Base Revision Number:	02.01.013.0	Product Name: Agilent Lab Advisor LC/CE
Install Type:	N/A			

Base Reference File Name : [igtfile32.xml](#)

Summary

Overall Evaluation of Installation Check : PASS

File Report Summary

- No missing files or invalid files found
- No system file differences found

Files Registration Report Summary

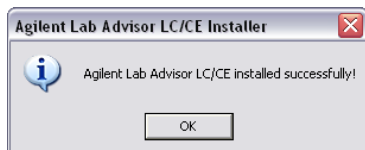
- No Registerable Files found for Qualification

Registry Report Summary

- No registry entries found for Qualification.

To rerun the Installation Qualification at a later date, navigate to Start\All programs\Agilent Lab Advisor\Installation Qualification and start the program.

When you close the IQ tool, the installation is complete.



If the **Enter License** check box was marked in the installation wizard, the software starts and automatically navigates to the Configuration\License screen, where you can enter your the license keys.

The screenshot displays the 'Configuration\License' window. On the left, a vertical sidebar contains four icons with labels: 'Software' (gear icon), 'Licenses' (key icon), 'Traceability' (person icon), and 'About' (globe icon). The main content area is divided into a table and a form section. The table has four columns: 'Key', 'Product', 'Level', and 'Modules'. Below the table, there is a 'License Key:' label, a text input field, an 'Add' button, and a 'Remove' link.

Key	Product	Level	Modules
-----	---------	-------	---------

License Key:

[Remove](#)

Server Installation

You can install Lab Advisor on a Windows Server 2008 server and make it available for use on client systems.

- 1** Install Lab Advisor on the Windows Server 2008 server as described in [“Hard drive installation”](#) on page 13.
- 2** Install the role **Remote Desktop Services** on the Windows Server 2008 server.
- 3** Publish the Lab Advisor installation on the Windows Server 2008 server.
- 4** Create an RDP (Remote Desktop Protocol) file for the Lab Advisor installation.
- 5** Distribute the RDP file to all client systems.

Running Lab Advisor from the CD-ROM

When you run Lab Advisor from the CD-ROM, no program files are copied to the local hard drive. However, any data that you generate will be saved in a folder `..\Agilent Lab Advisor\AgilentLabAdvisorData\` on the local hard drive.

- 1 Insert the Lab Advisor installation CD-ROM into the drive.
- 2 Double-click the **Instant Diagnostic** item in the root directory of the CD-ROM.

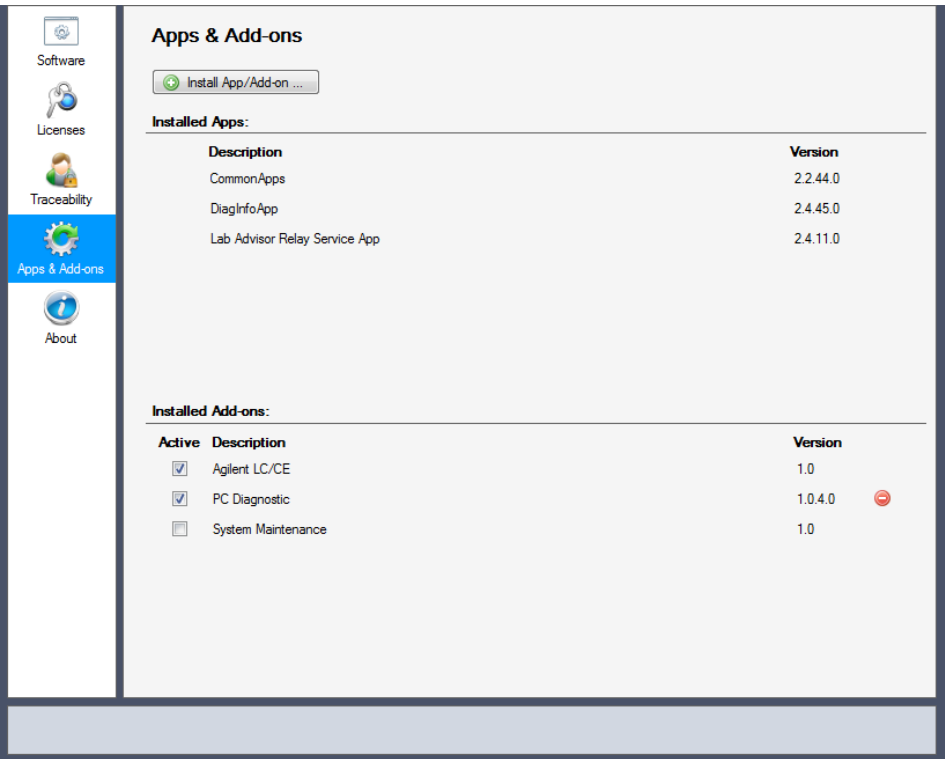
Installing Apps and Add-ons

Apps and Add-ons are installed from the **Configuration** screen, using a Lab Advisor Extension file with the with the extension .LAX.

NOTE

You need Administrator rights in order to install Apps and Add-ons.

- 1 In the Global Tasks section of the Navigation Panel, click **Configuration**.
The **Configuration** screen is displayed.
- 2 Click **Apps & Add-ons** to navigate to the **Configuration - Apps & Add-ons** screen.



The **Configuration - Apps & Add-ons** screen shows the Apps and Add-ons that are already installed. The active Add-ons are shown with marked check boxes.

3 Click Install App/Add-on.

A file selection dialog box is displayed to allow you to select the App or Add-on to install.

4 Navigate to the folder containing the App/Add-on files, select the .LAX file and click **Open** to install the App/Add-on.

5 Click **Yes** when the request to shut down Lab Advisor appears.

Lab Advisor shuts down and the App/Add-on installation is started.

6 When the installation is finished, restart Lab Advisor.

The newly installed App/Add-on is shown in the appropriate list in the **Configuration - Apps & Add-ons** screen

Updating Lab Advisor

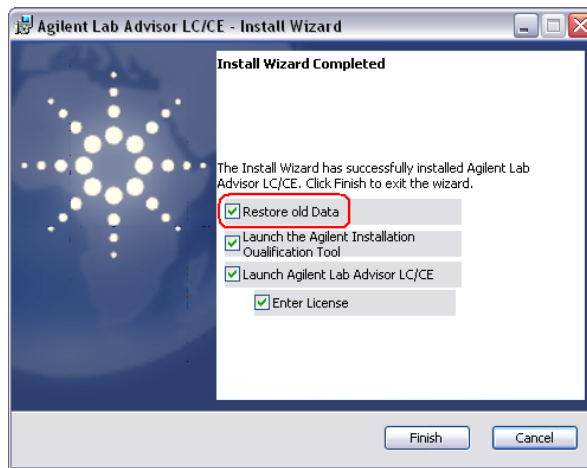
A fast update process has been developed to update the Agilent Lab Advisor software to a new revision. The fast update process uses .DLA files, and is launched by double-clicking the file itself. An update using the fast update process requires files specific to the update required. The file name carries the name of the origin and the destination revisions, and must be selected accordingly. For example, to update from Lab Advisor B.02.02 [042] to B.02.03 [062], double-click the following .DLA file:

```
LA_B.02.02[042]_B.02.03[062].dla
```

The fast update using .DLA files cannot be used to update portable installations of the software. To upgrade these installations, the upgraded software of a hard drive installation needs to be copied to the portable media. It is highly recommended that you rename the old application folder before copying the updated software folder. After finishing the copy of the application folder, the data folder can be copied from the “old” application folder.

Migrating from Lab Advisor B.01.xx

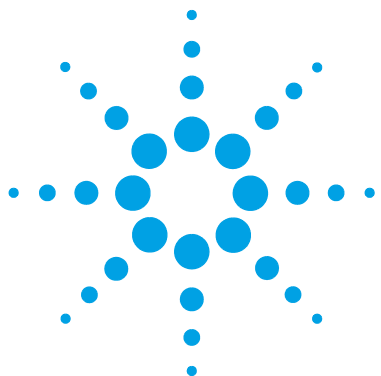
It is possible to migrate data and licenses from B.01.xx installations to B.02.xx. To do this, the B.01.xx has to be uninstalled, since the uninstallation process creates a data repository that can be used by the B.02.xx installer. To access the old data, mark the **Restore old Data** check box during the installation process.



If B.01.xx is uninstalled after the installation of the B.02.xx, then the restore can be activated by navigating to the application folder, typically `..\Program Files\Agilent Technologies\Lab Advisor` and double-clicking the `Agilent.InstrDiag.DataMigration.exe` program.

2 Installation

Migrating from Lab Advisor B.01.xx



3 Using Lab Advisor

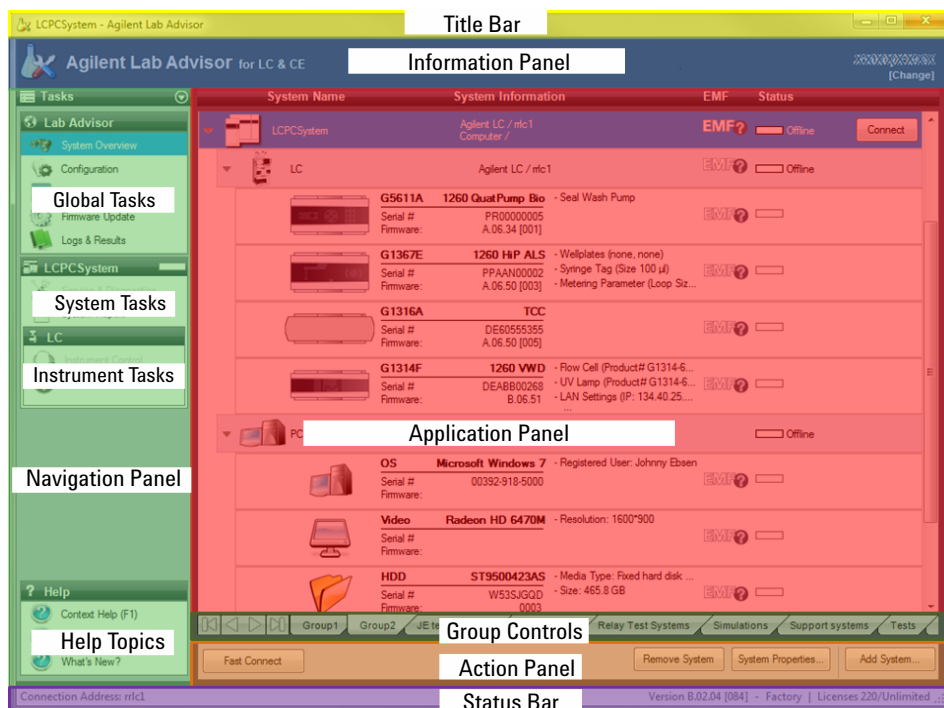
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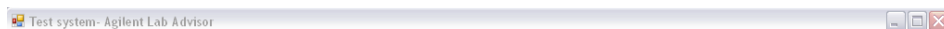
This chapter describes the Lab Advisor user interface and provides details about the available features.

Navigation

The Lab Advisor User Interface is divided into six main areas. The content of these areas changes depending on the screen selected in the Agilent Lab Advisor software.

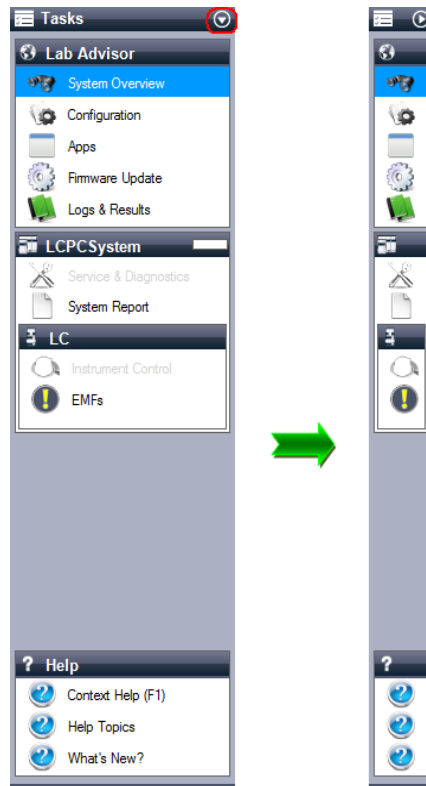


Title Bar



The Title Bar shows which of the configured systems in the System Overview is currently selected. It also hosts the buttons for maximizing, minimizing and closing the Agilent Lab Advisor application.

Navigation Panel



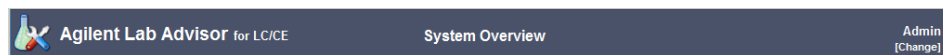
The primary navigation between the different screens of the Lab Advisor software is done in the Navigation Panel. The Navigation Panel consists of four areas:

- The Global Tasks lists system-independent screens that access information or configurations regardless of the configured systems and their current state.
- The System Tasks are System-specific and change with the selected system. The name of the selected system is displayed in the header of the System Tasks and in the Title Bar.
- The Instrument Tasks are Instrument-specific and change with the selected instrument. The name of the instrument is displayed in the header of the Instrument Tasks.

- At the bottom of the Navigation Panel, the Help topics provide information about the software and about the individual screens. Context-sensitive help topics can also be accessed at any time by clicking **F1**.

The Navigation Panel can be minimized by clicking the minimize icon in the top Task bar.

Information Panel



The Information Panel contains information about the currently selected screen and the Agilent Lab Advisor software version. If the Traceability feature is in use, the Information Panel also includes information about the current logged-in user.

Application Panel

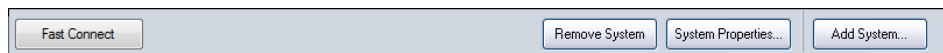
This is the primary area where the different screens selected in the Navigation Panel of the Agilent Lab Advisor software are displayed. Refer to the individual applications for more detailed information.

Group Controls



If system grouping has been activated in software configuration, these controls allow you to switch between system groups, and to add a new system group or delete an existing group.

Action Panel



Additional buttons or actions that are applicable to the selected screen may be displayed in the Action Panel. Such controls are applicable to the entire selected screen; buttons or actions that are applicable to individual items within the screen are displayed in the screen itself.

Status Bar



The left side of the Status Bar contains information about the connection used; details about the Agilent Lab Advisor revision, license level and license usage are shown on the right side.

System Overview

The System Overview screen gives a fast overview of the state of all configured and connected systems. The System Overview is also the main selection screen for the System Tasks.

The screenshot displays the Agilent Lab Advisor System Overview interface. The sidebar on the left contains navigation options: Lab Advisor, System Overview, Configuration, Apps, Firmware Update, Logs & Results, LCPCSystem, Service & Diagnostics, System Report, LC, Instrument Control, and EMFs. The main area shows a table of system information for 'LCPCSystem' and 'LC'. The table has columns for System Name, System Information, EMF, and Status. The 'LC' section lists components like G5611A (1260 Quat Pump Bio), G1367E (1260 HPL ALS), G1316A (TCC), and G1314F (1260 VWD). The 'PC' section lists OS (Microsoft Windows 7), Video (Radeon HD 6470M), and HDD (ST9500423AS). The bottom of the screen shows a connection address and version information.

System Name	System Information	EMF	Status
LCPCSystem	Agilent LC / rlc1 Computer /	EMF?	Offline
LC	Agilent LC / rlc1	EMF?	Offline
G5611A	1260 Quat Pump Bio Serial # PR00000005 Firmware: A.06.34 [001]	EMF?	
G1367E	1260 HPL ALS Serial # PPAAN00002 Firmware: A.06.50 [003]	EMF?	
G1316A	TCC Serial # DE60555355 Firmware: A.06.50 [005]	EMF?	
G1314F	1260 VWD Serial # DEAB800268 Firmware: 8.06.51	EMF?	
PC	Computer /		Offline
OS	Microsoft Windows 7 Serial # 00392-918-5000	EMF?	
Video	Radeon HD 6470M Serial #	EMF?	
HDD	ST9500423AS Serial # W53SJG00 Firmware: 0003	EMF?	

Connection Address: rlc1
Version 8.02.04 [084] - Factory | Licenses 220/Unlimited

System hierarchy

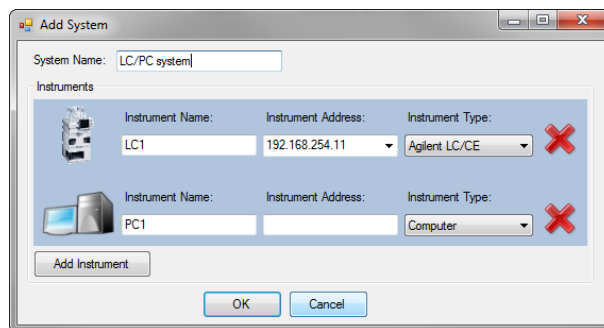
Lab Advisor recognizes three levels of hierarchy:

System	The System is the highest level. A system consists of one or more Instruments, each with its own communication address. The System icon is always the same.
Instrument	An Instrument is characterized by having an individual connection address to Lab Advisor. Instruments may comprise multiple Devices (for example, a modular LC system), but the Devices all communicate with Lab Advisor through a single connection address. Each Instrument has its own icon.
Device	The Devices (sometimes referred to elsewhere as Modules) are the constituent parts of an Instrument, for example the pump, sampler, and detector in a modular LC system. Each Device type has its own icon.

Adding a new system

- 1 In the Action Panel of the **System Overview**, click **Add System**.

The **Add System** dialog box is displayed.



- 2 In the **Add System** dialog box, enter a name in the **Instrument Name** field and the connection details in the **Instrument Address** field.

NOTE

If your system comprises just one instrument, the **Instrument Name** is copied to the System Name field.

- 3 Enter the connection details in the **Instrument Address** field.

NOTE

The **Instrument Address** can be an IP address, the host name or, if you are connecting using a serial cable, the COM port.

- 4 Click the **Instrument Type** down-arrow and select the type of instrument you are adding from the list.
- 5 If your system comprises more than one instrument, click **Add Instrument** and complete the details as above.

NOTE

as soon as you add a second instrument, the **System Name** field is activated to allow you to edit the system name.

- 6 Click **OK** to finish adding the system and close the **Add System** dialog box.

The system becomes visible in the **System Overview**, and Lab Advisor tries to connect to it.

Changing system properties

You can change the name or connection address of an existing system, add additional information or activate the automatic **Reconnect** feature for the system.

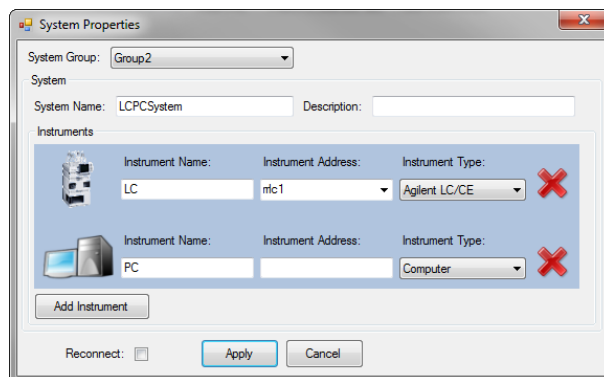
1 Click on the system in the **System Overview** screen to select it.

2 Click **System Properties** in the Action Panel.

OR

Right-click on the system and select **Properties** from the context menu.

The **System Properties** dialog box is displayed.



Note that the **System Group** field is present only when the **Activate Grouping** check box in the **Configuration - Software** screen is marked.

3 Add or modify any of the parameters in the **System Properties** dialog box.

NOTE

When you mark the Reconnect check box, Agilent Lab Advisor automatically tries to connect to the system whenever the application is launched. This feature can be activated for all systems configured in the **System Overview** simultaneously.

4 Click **Apply** to register the changes and close the **System Properties** dialog box.

Removing a system

- 1 Click on the system in the **System Overview** screen to select it.
- 2 Click **Remove System** in the Action Panel.

The system is removed from the **System Overview**.

NOTE

The data collected for the system will still be available in the **Logs and Results** application, but will be listed as unassigned systems.

Systems that have been removed from the **System Overview** are still counted toward the module limit of the installed license. To permanently delete a module, see [“Permanently deleting a hardware module”](#) on page 40.

Adding a new system group

NOTE

The system group controls are available only when the **Activate Grouping** check box in the **Configuration - Software** screen is marked.

- 1 Click  at the right of the group controls.

A new system group tab is added with a default name.

- 2 Right-click on the new tab, select **Rename** from the context menu and overwrite the default name with a new name.

OR

Double-click on the new tab and overwrite the default name with a new name.

- 3 Click **Add System** to display the **Add System** dialog box, which allows you add a system into the new system group.

Deleting a system group

NOTE

You cannot delete a system group that contains systems. Before deleting a group, move the systems into another group (see [“Moving systems between groups”](#) on page 36).

- 1 Right-click on the tab of the system group that you want to delete.
- 2 Select **Delete** from the context menu.
If the system group is empty, it is deleted; if the group contains systems, a message is displayed.

Moving systems between groups

- 1 In the System Overview, select the system that you want to move and click **System Properties**.
OR
In the System Overview, right-click the system that you want to move and select **Properties** from the context menu.
The **System Properties** dialog box is displayed.
- 2 Click the **System Group** down-arrow and select the target group that you want to move the system to.
- 3 Click **Apply**.
The system is moved from the existing group to the new group and the **System Properties** dialog box is closed.

Copying Device Details to the Clipboard

Sometimes, it can be helpful to have the details presented in the **System Information** section of a device available for copying and pasting into other applications.

- 1 Click on the system in the **System Overview** screen to select it.
- 2 If the system modules are not listed, click  to display them.
- 3 Right-click on the module whose details you want to copy and select **Copy details to Clipboard** from the context menu.

The device information is copied to the clipboard, and can be pasted into another application such as Notepad, Wordpad or a Microsoft Office application.

Fast Connect

If you are using mobile laptop computers for servicing systems, a fast connection can be established using a serial cable (RS232).

- 1 Connect the serial cable between the system and the PC (a USB-to-Serial adapter, p/n 8121-1013, might be necessary). The serial cable should be connected to the module that is providing the most data, usually the detector.
- 2 Click **Connect via Serial Cable** on the Action Panel.

Lab Advisor searches all available COM ports for installed systems and adds them automatically to the **System Overview** screen.

Lab Advisor can also be setup to do this automatically on startup by marking the **On startup** check box in the Action Panel.

NOTE

This feature is especially helpful for connecting systems with no LAN access, because it provides easy access to data such as LAN card configuration, MAC address and IP address without having to reconfigure the Laptop internal IP address or set up a BootP server.

Configuration

Application-wide settings, information and tools are accessible from the **Configuration** screen.

Configuring the Software

The **Software** configuration specifies the **Path** to the data generated by the Lab Advisor software. This is a non-configurable path, and is dependent on the operating system used and the type of installation (USB stick or hard drive).

Import/Export Data

To distribute configured systems and their corresponding data, it is possible to export data from one Lab Advisor installation and import it into other installations. This feature can also be used as a backup solution, where the exported .ZIP file is stored in a safe location.

Tracing

If unexpected behavior is observed from the Lab Advisor software, a trace file can be generated to help the Agilent Technologies technicians locate the problem.

You can also switch on the continuous collection of all instrument communication data. This form of logging does not persist beyond the current Lab Advisor session.

Language

The Lab Advisor software supports English, Chinese and Japanese languages. The language is usually selected during installation of the software. However, there is a possibility to change the language later by selecting the appropriate language in the **Software** configuration screen. After the language has been changed, the software needs to be restarted for the new settings to take effect.

System Groups

Lab Advisor B.02.03 supports the grouping of systems, for example, by laboratory. Up to 25 systems can be assembled into a group; each system can contain up to 50 devices. An unlimited number of groups can be defined.

The grouping of systems is switched on by marking the **Activate Grouping** check box. When the check box is marked, the group controls (see “[Group Controls](#)” on page 29) are appended to the application panel in the System Overview and the Review Client.

Licenses

The licensing scheme of Lab Advisor B.02.xx has changed compared to previous versions. The unique combinations of *Type* and *Serial number* for each configured device are counted and tracked in the license module of the software. For each configured device, a license is deducted from the total number of eligible devices; the license status can be tracked in the Status Bar.

Connection Address: localhost

Lab Advisor licenses acquired for previous versions of Lab Advisor and Lab Monitor and Diagnostic software are still eligible for Lab Advisor B.02.xx and are transformed according to [Table 4](#) on page 40.

Table 4 Lab Advisor Licenses

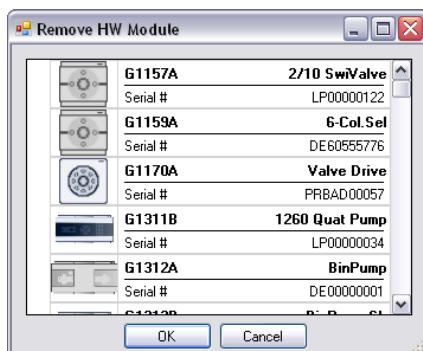
Product Number	Description	HW Modules	Replaces
M8550A	Agilent Lab Advisor Advanced	10	G4800AA, G4809AA
M8551A	5 add-on HW modules*	5	G4801AA
M8552A	25 add-on HW modules*	25	G4802AA
M8553A	50 add-on HW modules*	50	G4803AA
M8554A	100 add-on HW modules*	100	<i>New</i>
M8555A	Agilent Lab Advisor Basic	10	Agilent Instrument Utilities LC/CE

* Requires M8550A installed

Any combination of the listed Product Numbers is possible, and it is also possible to install a Product Number multiple times. Each unique license number adds to the number of modules supported.

Permanently deleting a hardware module

If a hardware module is retired or removed from a system, it can be permanently deleted from the license count in the Agilent Lab Advisor installation by clicking **Permanently delete HW module** in the **Licenses** tab in the **Configuration** screen. **Permanently delete HW module** is active only if all systems are disconnected in the **System Overview** screen. The **Remove HW Module** window that opens lists all modules contributing to the license limit; selecting the appropriate module and pressing **OK** permanently deletes the selected device.

**NOTE**

When a device is permanently deleted, all data belonging to the device is also permanently deleted.

Traceability

The **Traceability** feature of the software logs the use of Lab Advisor and keeps track of which user did what procedure and when. This information is written into the **Logs & Results** and is included in the printed results. If the **Data Sharing** feature is used, the traceability data is also uploaded.

Traceability Level

Lab Advisor offers three levels of traceability. Change of traceability level requires administrator rights. For the initial setting, the user *Admin* is set up using the password *Admin*. After the first login, this password should be changed to prevent unauthorized access.

The default level is **No Traceability**, which allows any user to access all parts of the Lab Advisor software, depending on Licenses. At this level, no user names are added to **Logs & Results** or printouts.

Medium Traceability requires that the user be selected from a drop-down list. No password is required, and users can register and enable themselves. The selected user name is added to the printouts and **Logs & Results**.

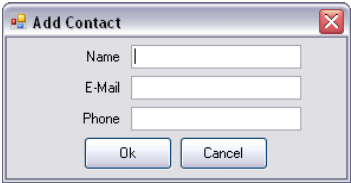
Full Traceability requires that the user logs in with a unique password. Users must be granted access by an Administrator before they can access the Lab Advisor software.

Setting Up a New User

To enable the Lab Advisor to print the user names in the reports and **Log & Results**, the users need to be set up. This is done in the **Traceability** tab of the **Configuration** screen.

- 1 Click **Add** at the bottom right of the **Traceability** screen.

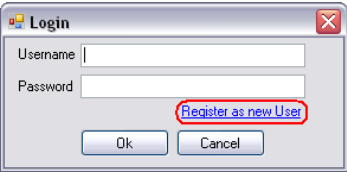
The **Add Contact** dialog box is displayed.

A dialog box titled "Add Contact" with a close button (X) in the top right corner. It contains three text input fields labeled "Name", "E-Mail", and "Phone". Below the fields are two buttons: "Ok" and "Cancel".

- 2 Enter the user name as it will be printed on reports, and optionally the user's email address and telephone number.

This information will be included in the **User** section of the **Status Report**.

Alternatively, a new user can be added by clicking **Register as new User** in the **Login** box:

A dialog box titled "Login" with a close button (X) in the top right corner. It contains two text input fields labeled "Username" and "Password". Below the fields is a button labeled "Register as new User" which is highlighted with a red rectangle. At the bottom are two buttons: "Ok" and "Cancel".

If **Full Traceability** is active, an Administrator must activate the user before the user can use Lab Advisor:

Configured Users				
Name	E-Mail	Phone	Active	Admin
Admin			☒	☒
John Doe	John_Doe@Company....	0123-456789	☐	☐

Apps

Apps are small applications designed to help you perform specific non-system-related tasks.

Diagnostic Catalog

Diagnostic Catalog

Diagnostic Catalog

Device Class: Agilent LC Pumps | Device Type: G4220A "1290 Bin Pump" | Product Level: Advanced | Print

Results

Tests	Controls	Actuals
- Pump Head Leak Test	- A1	- Pressure
- Pump Leak Rate Test	- A2	- Flow
- System Pressure Test	- B1	- High Pressure Limit
Tools	- B2	- Pump Ripple
- Diagnostic Buffers	- Degasser On	Statemachines
- Module Infos	- Degasser Off	- Outlet Valve
- Purge Pump	- Start Purge Process	- Degasser
- Remove/install pump head	- Stop Purge Process	- Prime
	- Prime On	- Purge
	- Prime Off	- Pump
	- Conditioning On	- Flow Reduction
	- Conditioning Off	- Seal Wash Pump
	- Identify Module	Signals
	- Clear Error	- Pressure [bar]

Details

Name: Pump Head Leak Test

Approx. Time: 5 min

Description: The test determines the leakage of the individual pump heads.

Double-Click the selected results line in order to review online help

Back

The Diagnostic Catalog is a catalog of all tests, calibrations, tools, instrument controls and EMF counters for each module at each Lab Advisor product level. The list is filtered by **Device Class** (that is,

instrument or module type), **Device Type** and **Product Level**. The diagnostic catalog for the selected module at the selected product level is displayed in the **Results** table three columns:

- **Tests, Calibrations** and **Tools** available in Lab Advisor at the selected product level
- **Controls** provided in the **Instrument Control** screen of Lab Advisor at the selected product level
- **EMF Counters** shown the **EMFs** screen of Lab Advisor at the selected product level

For the tests, calibrations and tools, a short description is provided in the **Details** panel below the **Results** table. You can retrieve more information on the test, calibration or tool by double-clicking its name, which displays the online help.

You can print the diagnostic catalog for the current selection by clicking **Print**.

Data Sharing

The **Data Sharing** feature of the Advanced version of Lab Advisor allows multiple Lab Advisor installations to upload and synchronize the collected instrument information and data to an upload folder. When the synchronization is activated, all data and information for the systems and devices configured in the Lab Advisor installation are uploaded to a specified upload folder. If data and information for these systems and devices has already been uploaded to the upload folder, the uploaded data is merged with the existing data. Additionally, the delta between the two data sets is downloaded to the Lab Advisor installation to complement the data. This ensures that all participating Lab Advisor installations connecting to specific systems and devices have all data available regardless of which installation generated the data. The Lab Advisor installation receives data only from systems and devices configured in that installation. No other data is downloaded.

You can choose to activate automatic synchronization when Lab Advisor is started up or shut down, or both. You can also choose to switch off automatic synchronization. The available options are:

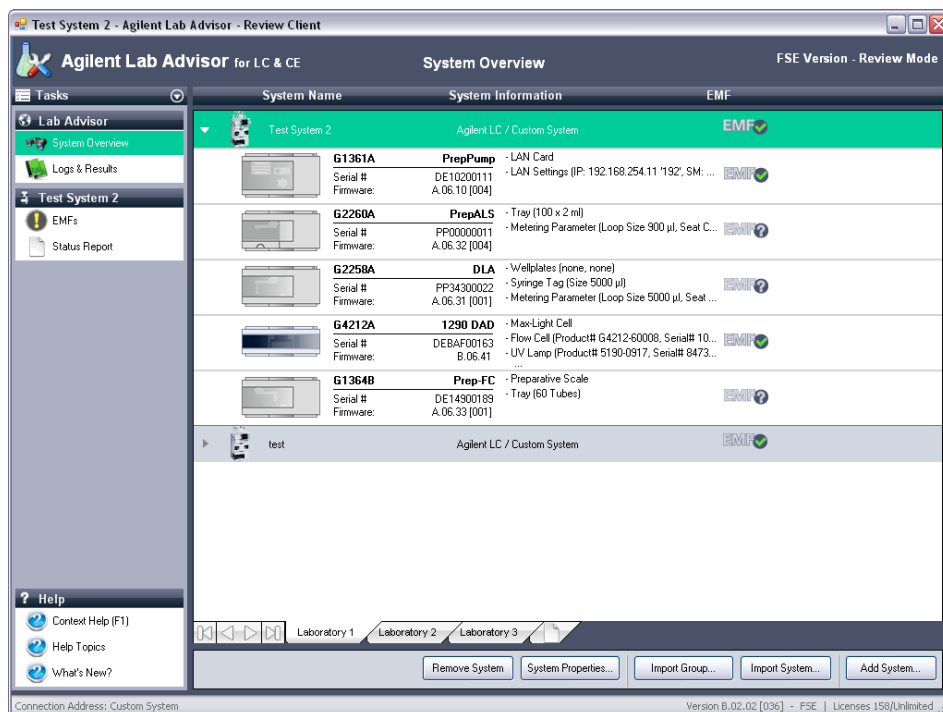
Never	Automatic folder synchronization is turned off.
At startup	When Lab Advisor is started, any updated data in the data share folder is copied automatically into the local data folder and merged with existing data.
At shutdown	When Lab Advisor is shut down, any updated data in the local data folder is copied automatically into the data share folder and merged with existing data.
At startup and shutdown	The combination of At startup and At shutdown .

Review Client

The complete set of data uploaded to the data share folder can be accessed by the built-in Review Client, which is started from the **Data Sharing** app. The Review Client additionally supports the combination of any uploaded devices from any system to allow cross-system comparison of data. This might be helpful in finding problematic systems or devices, or systems not being used efficiently.

The Review Client requires the number of licenses corresponding to the number of modules hosted on the upload share. Deleting a system from the **System Overview** will not free usable licenses. The number of licenses entered in the normal Lab Advisor installation is reused in the Review Client, so that if you have a 10-module license installed, you will only be able to start the Review Client if there are less than 10 modules uploaded to the upload share.

3 Using Lab Advisor Apps



There are several ways to use the Review Client:

- All portable Lab Advisor installations upload their data to the same folder. Each portable Lab Advisor is then up to date, and a Review Client has the opportunity to observe the entire data pool.
- Each portable Lab Advisor has its own folder, which is used for back-up. By changing the share folder in the Review Client, it is possible to look into each separate user's data.
- Lab Advisor installations on local PCs connected to a single Instrument can use the synchronize function to upload data to a system-specific folder. This can be used as a backup solution, and by changing the share folder the Review Client can be used to look at each system separately.

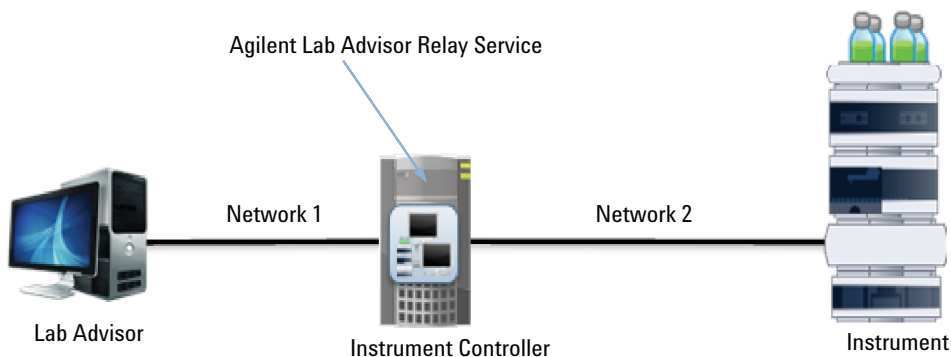
In each case, the installation starting the Review Client needs enough licenses for all uploaded modules.

If system grouping has been activated in software configuration, you can set up groups of systems; the group controls allow you to switch between

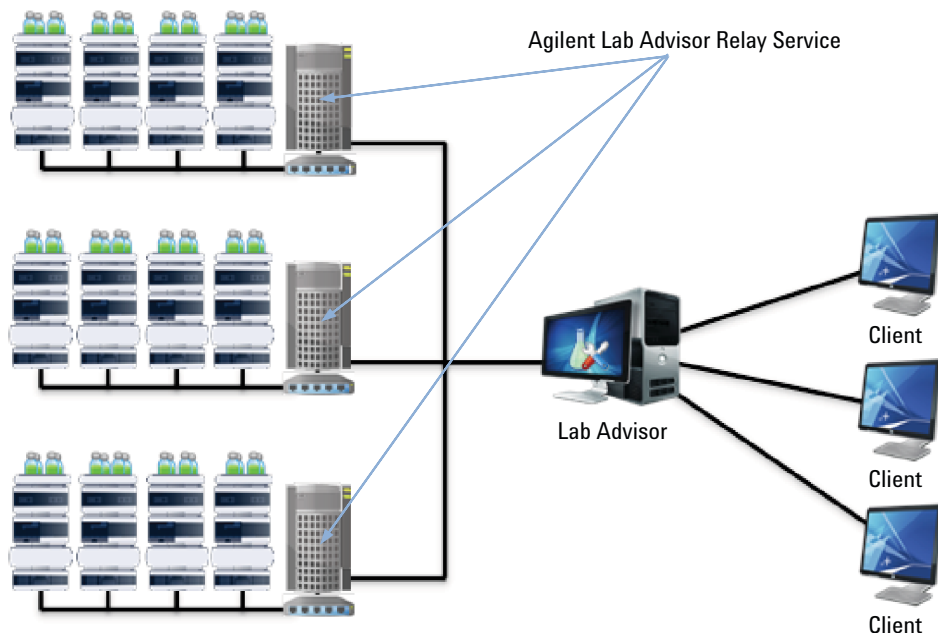
the groups. The groups you set up in the Review Client are independent of those set up in the System Overview.

Lab Advisor Relay Service

The Agilent Lab Advisor Relay Service enables the Lab Advisor software to connect instruments that are located on a network with a different subnet. This is being achieved by installing and using a Port Forwarding Service located on a PC equipped with two network cards. One network card is responsible for each of the separate networks.



These types of setup are typical in networked laboratories where an instrument controller is installed with two network cards and applications are running on a server, but can also occur if instrumentation is being addressed that produces large amount of data and therefore needs to be separated from the company network.



Activating the Relay Service

The Agilent Lab Advisor Relay Service is installed automatically with revision B.02.04. It is activated by adding the key **CAC22-222MB-3KNAP-F33ZU**.

- 1 In the Global Tasks section of the Navigation Panel, click **Configuration**. The **Configuration** screen is displayed.
- 2 Click **Licenses** to navigate to the **Configuration - Licenses** screen.
- 3 In the License Key field, type the following license key:
CAC22-222MB-3KNAP-F33ZU.
- 4 Click **Add** to add the license key to the list of valid licenses and activate the Relay Service.

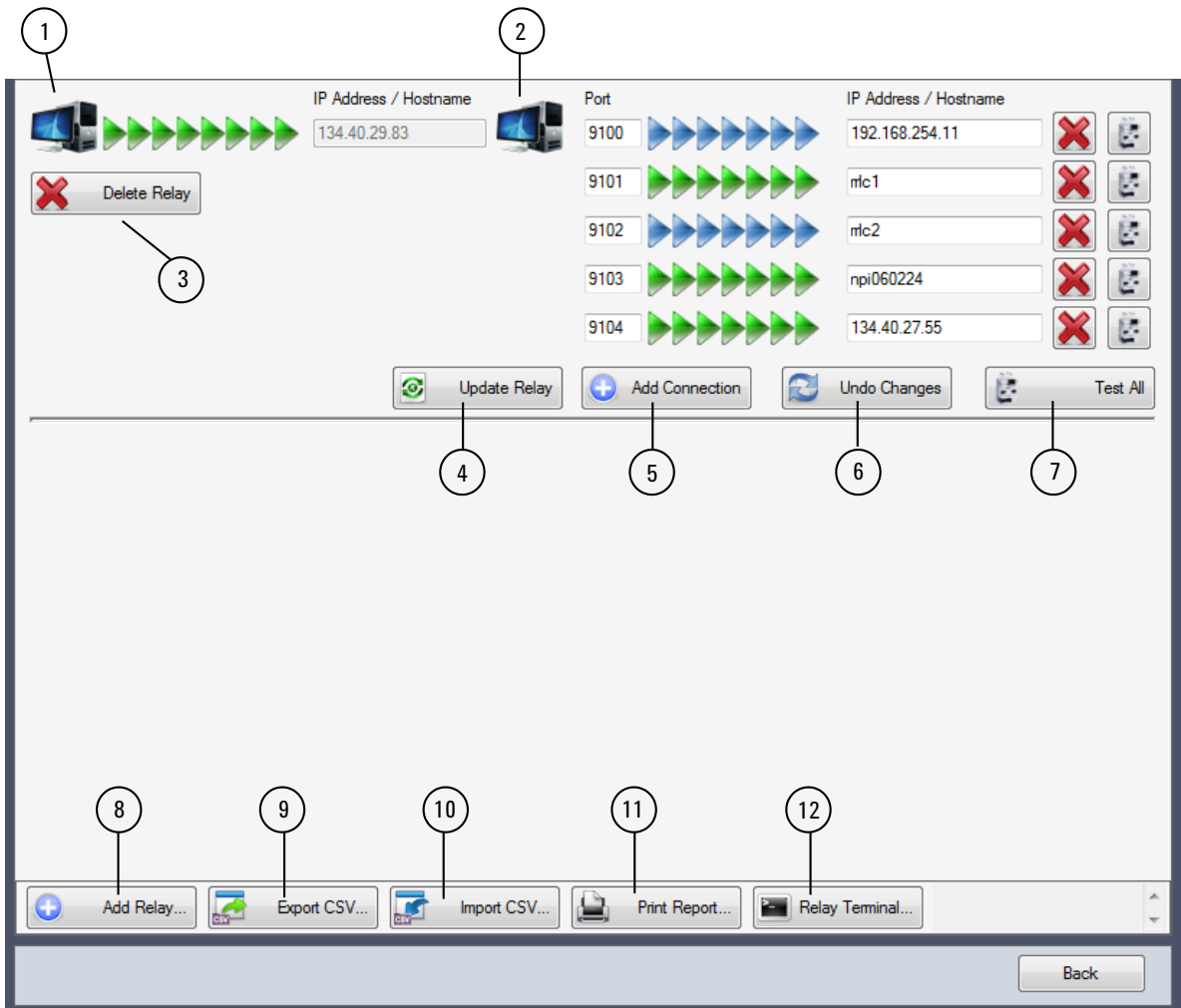
Using the Lab Advisor Relay Service

The Agilent Lab Advisor Relay Service running on an Instrument Controller PC does not have its own user interface, but is controlled via an App screen in an Agilent Lab Advisor installation.

Configuring the Lab Advisor Relay Service

- 1 To configure the Agilent Lab Advisor Relay Service, open the Lab Advisor software, then click **Apps** in the Navigation panel and select **Lab Advisor Relay Service** in the Apps screen.

The relay Service user interface is displayed.



3 Using Lab Advisor Apps

1. Symbolizes the computer on which the Lab Advisor including the Agilent Lab Advisor Relay Service App is installed
2. Symbolizes the Instrument Controller PC on which the Agilent Lab Advisor Relay Service is installed
3. Deletes this Relay from the Lab Advisor configuration (not the Relay itself)
4. Sends changes that have been done to the Relay
5. Adds a connection to the Relay
6. Undoes changes that have been done
7. Tests all connections configured for the Relay
8. Adds a Relay to the Agilent Lab Advisor configuration
9. Exports the Agilent Lab Advisor Relay configuration to a CSV file
10. Imports a CSV configuration file
11. Prints an installation and configuration report of the Relays
12. Opens the Relay terminal for advanced setup and troubleshooting

Table 5 Relay Color Coding



The connection is configured and active. A Lab Advisor installation is currently connected to the Instrument Controller/instrument.



The connection is Configured but not active. This information is returned from the Relay.



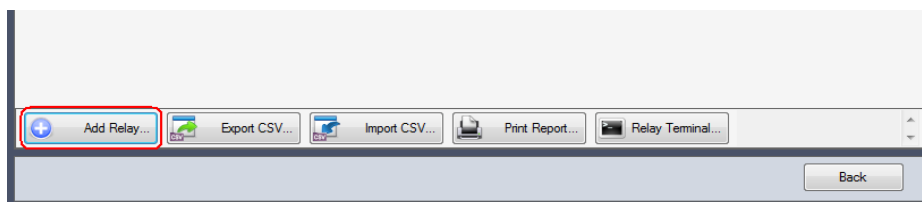
The connection has been created in Lab Advisor, but the Relay has not yet been updated.



The connection test failed to establish a connection to the specified address.

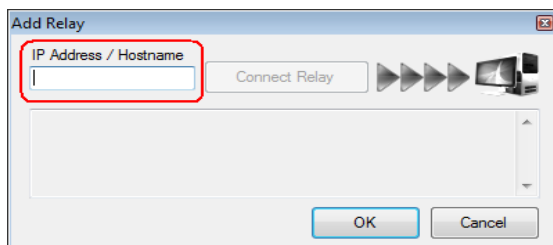
Adding a Relay

- 1 To add a new Relay click **Add Relay**.

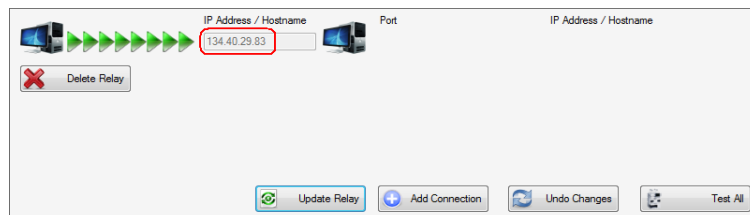


The **Add Relay** dialog box is displayed.

- 2 Enter the IP address or Hostname of the Instrument Controller PC in the **IP Address/Hostname** field and click **OK**.

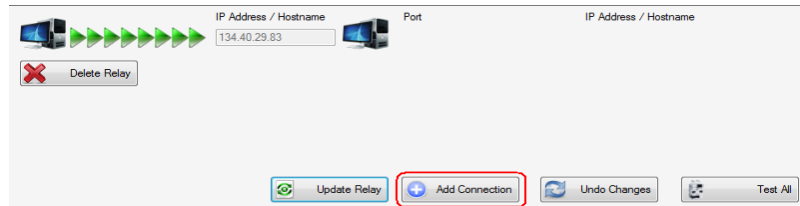


If the Service is up and running on the Instrument Controller PC, and the Lab Advisor is capable of communicating with it, the Relay connection shows a line of green arrows.

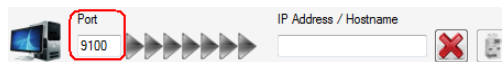


Adding a Connection

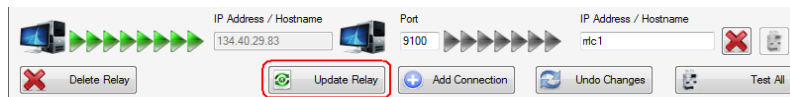
- 1 To add an instrument connection, click **Add Connection**.



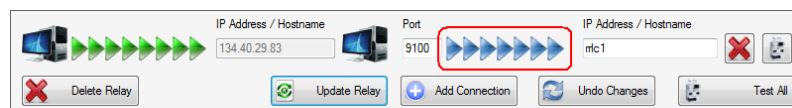
- 2 Enter the port number to be used. The software automatically suggests a new port in the 91xx range.



- 3 Enter the IP address or host name of the instrument and click **Update Relay**.



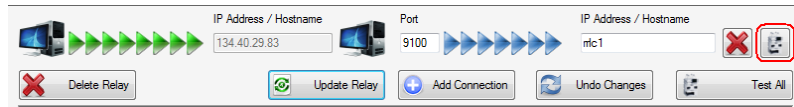
If the service has been successfully updated, it shows a blue line of arrows. This does not indicate that the connection is working, but merely that it has been successfully transferred to the Relay.



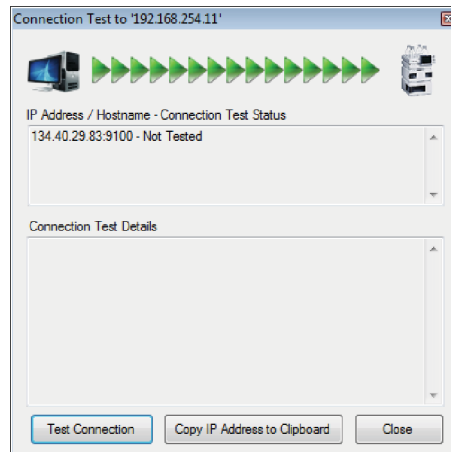
Testing an Instrument Connection

A connection test is available to test a configured connection all the way from the currently installed Lab Advisor, through the Instrument controller PC, to the instrument.

- 1 To test a single connection, click  at the right of the connection display.



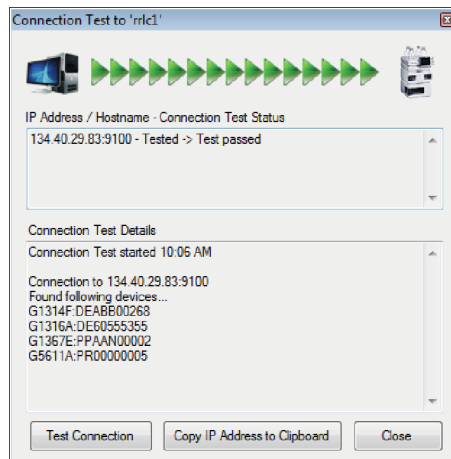
The **Connection Test** dialog box is displayed, where you can start the connection test.



- 2 Click **Test Connection** in the **Connection Test** dialog box.

The connection test returns a passed/failed statement. If the connection test passes, it also lists the devices found, with type and serial number, so that you can verify that it is connecting the correct system.

3 Using Lab Advisor Apps



You can also click **Copy IP Address to Clipboard** to copy the instrument address to the clipboard for use during setup of the instrument in the **System Overview** of the Lab Advisor.

NOTE

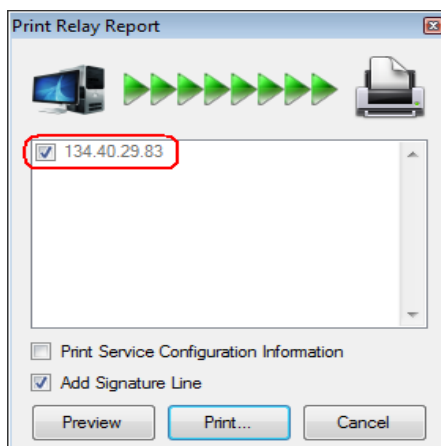
Test all carries out a connection test on all available connections and returns a passed/failed statement (and, if successful, a list of devices) for each one.

Documenting the Configured Relays

- 1 To document the configured Relays and the tests that have been performed, click **Print Report**.



The **Print Relay Report** dialog box is displayed.



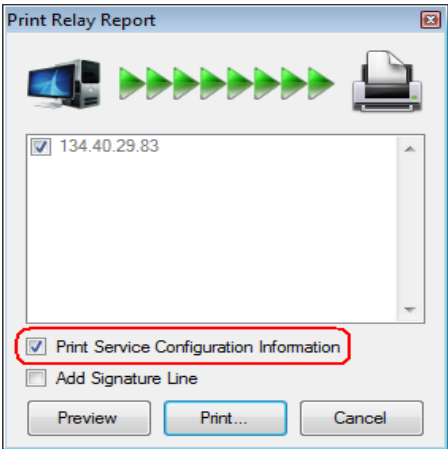
- 2 Mark the check boxes against the Relays that should be reported. Additionally, you can specify that the report should contain a signature line.
- 3 Click **Print**.

The report is generated. The report contains the following information:

- Lab Advisor revision
- Lab Advisor Relay Service App revision
- Relay address
- Relay Service status
- Hostname of instrument controller PC
- Relay Service revision

Agilent Lab Advisor B.02.04 [077] - Lab Advisor Relay Service App Rev. 1.0			Agilent Technologies
Relay Services List			
Address	Service Status	Service Hostname	Service Revision
134.40.29.83	Connected	LABADVISORRELAY	Revision A.01.01 [006]

- 4 If you want to generate a list of the Relays with the configured connections, mark the **Print Service Configuration Information** check box.



This also adds information of any connection test results that have been performed.

The generated report contains additional detailed information about the configured Relays and their connections.

Agilent Lab Advisor B.02.04 [077] - Lab Advisor Relay Service App Rev. 1.0

Agilent Technologies

Relay Services Configuration

Address:	134.40.29.83		
Service Status:	Connected		
Service Hostname:	LABADVISORRELAY		
Service Revision:	Revision A.01.01 [006]		
	Relay Service Port	Instrument Address	Connection Test Result
	9100	rrlc1	Test passed

Export and Import Configurations

If a large number of instruments and/or relays are to be setup on multiple Lab Advisor installations, it is possible to distribute the setup information via a CSV export/import function in the Lab Advisor Relay Service App.



The format of the table in the CSV file is as follows:

Instrument Controller IP Address	Instrument Controller Name	Port	Instrument IP Address
134.40.29.83	LABADVISORRELAY	9100	192.168.254.11
134.40.29.83	LABADVISORRELAY	9101	rrlc1
134.40.29.83	LABADVISORRELAY	9102	rrlc2
134.40.29.83	LABADVISORRELAY	9103	npi060224
134.40.29.83	LABADVISORRELAY	9104	134.40.27.55

The CSV import function imports only the instrument controller IP Address/Hostname. The relay configuration is retrieved from the relay as soon as the connection is established.

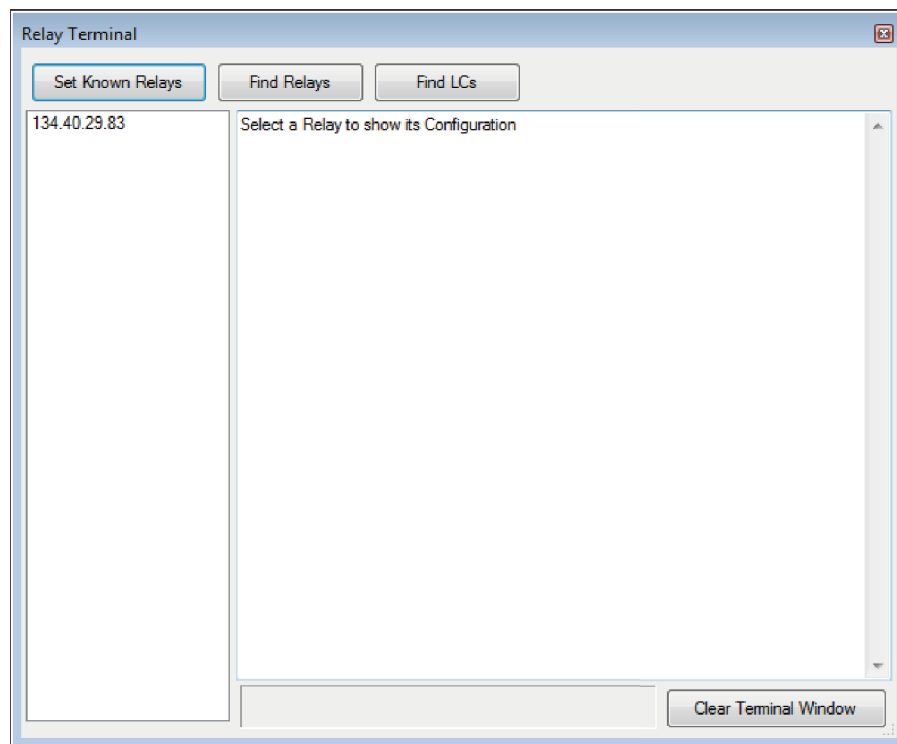
Relay Terminal

For advanced usage and troubleshooting of the Lab Advisor Relay Service, the Relay Terminal offers direct communication with the Service. It is a command-line-based window that allows specified commands to be sent, and information to be received or actions executed.

1 To start the Relay Terminal, click **Relay Terminal**.



The **Relay Terminal** window is displayed.



- 2 In the Relay Terminal window select the IP address or Hostname of the Instrument Controller PC that the service is installed on.

A list of possible actions is displayed.

```
Agilent Lab Advisor Relay Service @ "LABADVISORRELAY" Revision A.01.01 [006]
i - service host installation directory
j - service host data directory
k - service revision
l - service started time
m - service host machine name

S - service restart - all instrument and telnet connections are closed!
R - relays restart - all instrument connections are closed!
/ - relays status

t - tracing on
n - no tracing
d - dump configuration file
d# - dump historical trace file - where # is 1 or 2

e - exit this telnet connection
? - this help

>
```

Clear Terminal Window

3 Enter the command for the required action according to following table and click **Enter**.

Command	Effect
m	Returns the service host machine name
i	Returns the service host installation directory
j	Returns the service host data directory
k	Returns the service revision
l	Starts the service manually
S	Restarts the service manually
/	Returns the relay's status (more slashes, for example ///, give more details)
r	Stops and restarts the relays
t	Creates and writes trace file

Command	Effect
n	Stops tracing to trace file
T	Starting tracing session via telnet
N	Stops tracing via telnet
d	Dump configuration
d#	Dump historic trace file where # = [1..2]
e	Exit current connection
?	List of possible actions

Troubleshooting

For troubleshooting purpose, the Microsoft Event Viewer provides information about the actions and events generated by the Lab Advisor Relay Service, and this information can be exported for remote assistance.

Global access to service

The Lab Advisor Relay Service can be configured from any Lab Advisor installation with the Relay Service App installed. This leads to the possibility that the ports get reconfigured by any of the installed Lab Advisor Relay Service Apps and thereby other Lab Advisor installations are no longer able to connect to an instrument, or it connects to a different instrument.

Speed of connection

When an instrument is connected using port forwarding, the distance the information packages need to travel is doubled, leading to more than twice the delay time for the connection to be established in Lab Advisor.

IT requirements

At some customer sites, port forwarding is either not allowed or only partially allowed by the IT organization. In these cases, the ports defined need to be made accessible by IT for the Lab Advisor Relay Service to be able to work.

Required ports

The Lab Advisor Relay Service uses the Telnet (port 23) to communicate with the Lab Advisor Relay Service App. If this port is occupied by any other program on the Instrument Controller PC, the communication will be impeded.

Firewalls

If a Firewall is activated on the Instrument Controller PC, it needs to be setup to accept the configured ports (i.e. port 23 and 91xx). This can be done with standard Windows tools, but must often be done in cooperation with the IT department.

Firmware Update

Lab Advisor can be used to update the device-internal software (called firmware — FW).

The **Firmware Update** screen lists all systems configured in the **System Overview** screen. The devices of these systems can be updated individually, or the entire system can be updated at one time. It is also possible to update multiple systems at one time. To start the FW update procedure, select the **Firmware Update** tab in the global screens section of the Navigation Panel.

Instrument NameProgress

Test System

Update

LockedUnlock

Component	Current Version	Update	Main System Firmware	Update	Resident System Firmware	Progress	Status
G4220A:DEBAA00157	B.06.41[0002], B.06.40	☒	B.06.42[0001]	☐	B.06.40	0%	
G4226A:DE93000560	A.06.34[008], A.06.32	☒	A.06.36[003]	☐	A.06.32	0%	
G4208A:PP55055002	B.02.12[0001], B.02.12	☐	B.02.12[0001]	☐	B.02.12	0%	
G4212A:DEBAF00163	B.06.41[0002], B.06.40	☒	B.06.42[0001]	☐	B.06.40	0%	

<|||>

Firmware files are currently taken from: \\wadnas1\WAD-firmware\Public\Firmware\Current-Test

Change folder

Lock all

Default Firmware Folder: \\wadnas1\WAD-firmware\Public\Firmware\Current-Test

Set Default Firmware Folder

Logs and Results

The **Logs & Results** screen presents data collected from the configured devices, and helps to review the status of the systems or devices.

The **Logs & Results** data includes:

- Test results
- Error information
- FW revision and updates
- EMF changes
- Maintenance log entries

Each line in the log shows the module identifier (type and serial number), type of information, description and a time stamp. If the **Traceability** feature is in use, user-generated data is logged with user name in the **Message** field.

3 Using Lab Advisor Logs and Results

Filter

Systems: Laboratory 1
 Test System 2
 test
 <Not System assigned>

Devices:
 All
 G1367C:DE00055018
 G1329A:DE60556235
 G4212A:DEBAF00163
 G1313A:DE72004035
 G5667A:LP00055727
 G1367B:DE64556177

Source:
 All
 Result
 Error
 Maintenance
 FW Revision
 EMF

Time:
 All
 Last Hour
 Last 24 Hours
 Last 7 Days
 Last 30 Days

Log View

Source	Message	Time
G1367C	HiP ALS SL	Error
Serial #	DE00055018	Result
	Temperature out of range(E4114.:227400)	10/20/2011 13:12:44
	Module Infos - Passed	10/20/2011 12:50:45
	Temperature out of range(E4114.:227400)	10/20/2011 10:56:24
	Temperature out of range(E4114.:227400)	10/20/2011 10:50:14
	Leak detected(E464.0)	8/31/2011 15:22:33
	Leak detected(E464.0)	8/31/2011 15:19:05
	Shutdown(E463.0)	8/31/2011 12:58:33
	Shutdown(E463.0)	5/30/2011 15:11:19
	Shutdown(E463.0)	5/30/2011 15:03:06
	Shutdown(E463.0)	4/29/2011 15:41:48
	Leak detected(E464.0)	4/29/2011 15:39:45
	Transport initialization failed - Connection to G2254A fa...	4/27/2011 15:18:56
	Transport initialization failed - Connection to G2254A fa...	4/27/2011 15:14:53
	Shutdown(E463.0)	4/15/2011 15:21:17
	Shutdown(E463.0)	4/15/2011 14:13:15
	Shutdown(E463.0)	4/14/2011 19:07:37
	Shutdown(E463.0)	4/14/2011 15:52:09

Load external data Export filtered data Add Log Entry Print Result Review Result

For easy overview, you can filter the data by **Instruments**, **Devices**, **Source** or **Time**. Multiple selections are supported for **Devices** and **Source**, and can be selected by keeping **Ctrl** pressed while clicking the data required in the filter.

Filter

Systems: Laboratory 1
 Test System 2
 test
 <Not System assigned>

Devices:
 All
 G1367C:DE00055018
 G1329A:DE60556235
 G4212A:DEBAF00163
 G1313A:DE72004035
 G5667A:LP00055727
 G1367B:DE64556177

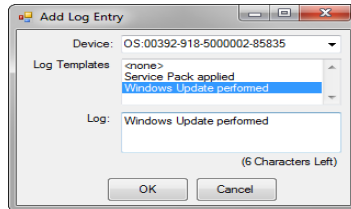
Source:
 All
 Result
 Error
 Maintenance
 FW Revision
 EMF

Time:
 All
 Last Hour
 Last 24 Hours
 Last 7 Days
 Last 30 Days

Time View

The **Logs & Results** screen offers two modes of operation. The default mode is the **Module View**, which lists the devices by system, and presents the information per device. In the alternative **Time View**, the data is presented and sorted by time stamp. This allows for a system-wide overview of the sequence of the data.

When you click **Add Log Entry**, you can add a log entry to the device, which is stored on the device main board. You can select a **Log Template** (which you can edit), or type your own text in the **Log** field. The information written to the device is limited to 50 characters; this is typically maintenance log data.



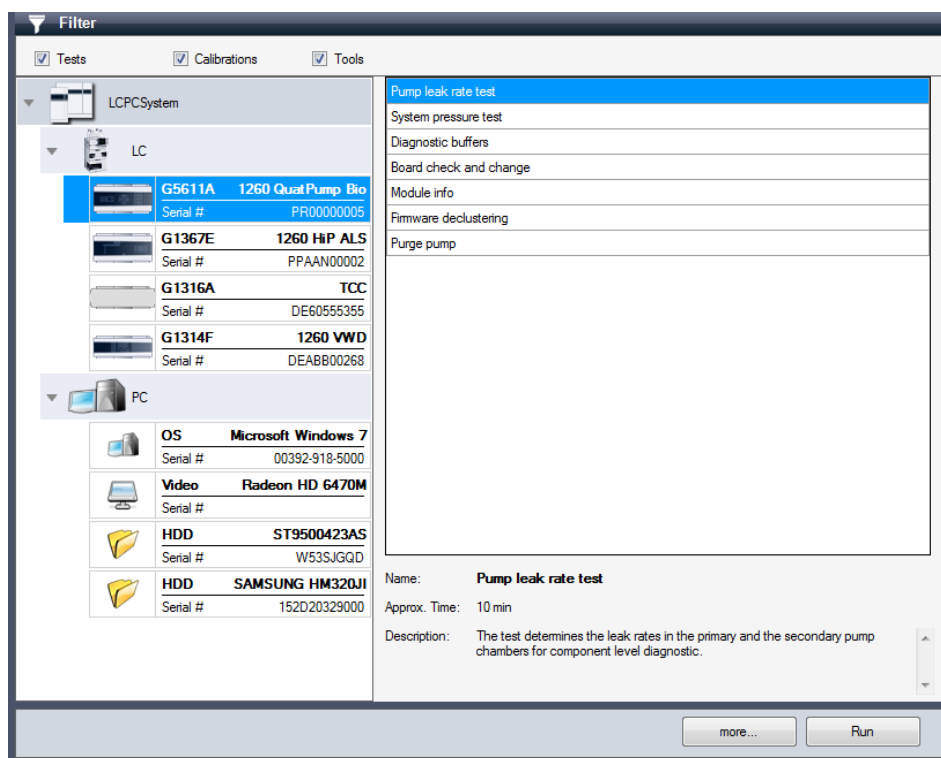
The data filtered by the built-in filter can be exported in ZIP format to enable it to be distributed. This is typically helpful if remote engineers need to assess data from the system. Clicking **Load external data** allows you to navigate to the storage location of the ZIP file and load the exported data.

NOTE

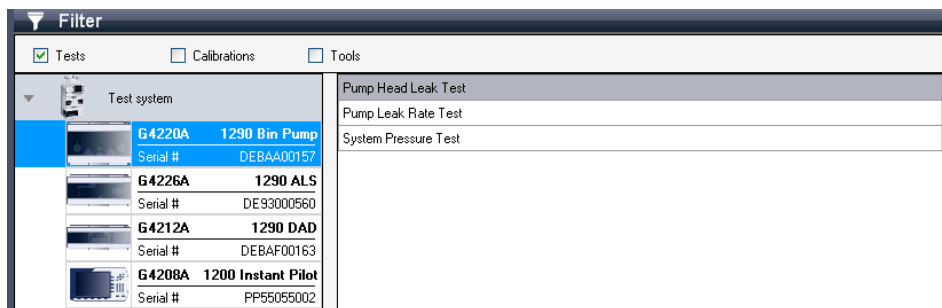
You can also use **Load external data** to load LRS files.

Service and Diagnostics

The **Service & Diagnostics** screen hosts the procedures (tests, calibrations and tools) of the Lab Advisor software. To select a procedure, select the device and then select the procedure from the list.



For a better overview, you can filter the type of procedure you want to use.



Tests

Tests are procedures that result in a Passed/Failed statement, so the results of the test are compared with predefined limits. The Pump Pressure Test is an example of a test.

Calibrations

If internal calculations in the devices need to be corrected, calibration procedures normally take care of this. An example of a calibration is the Detector Wavelength Calibration. If you are operating in a controlled environment, this type of procedure might need to be verified. This could typically be done using a System Suitability Test.

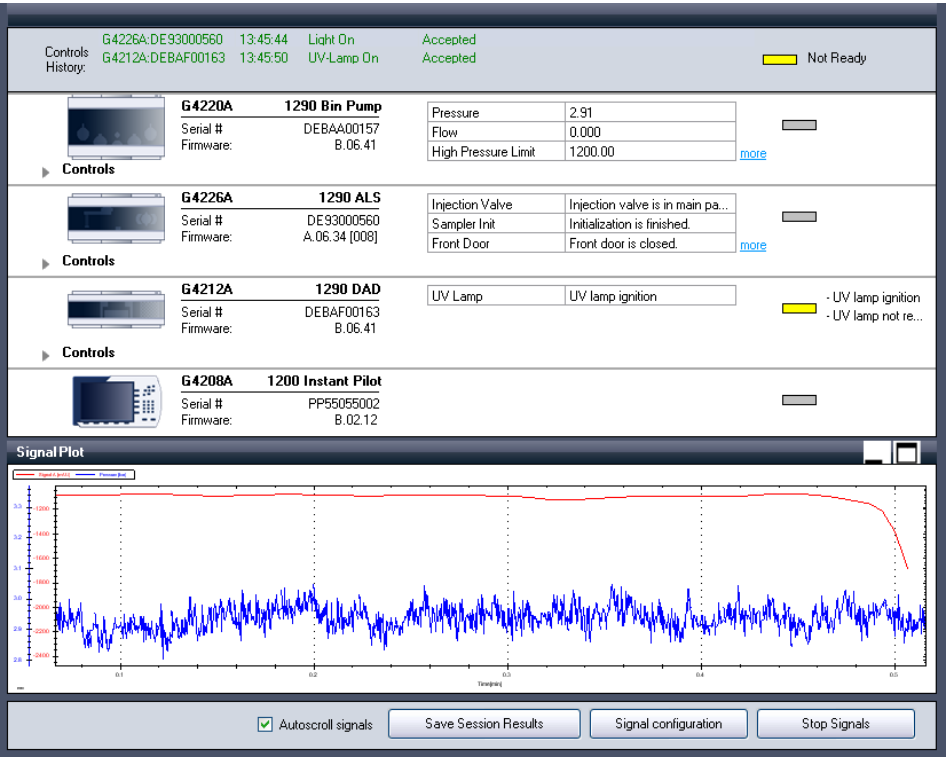
Tools

Tools are procedures that have a supporting function and that do not produce a Passed/Failed statement when finished.

Instrument Control

The **Instrument Control** screen allows you to control a connected system without having to have a CDS running. This might be helpful in complex diagnostic situations, where the built-in diagnostic tests do not give a definitive answer.

Instrument Control in the Basic version provides only limited functionality, whereas the Advanced version provides a full set of controls and a freely configurable Signal Plot.



The Reply Panel of the **Instrument Control** screen displays any replies generated from the device, to verify that the control used was accepted; it shows only the last three replies. In order to get a complete history of

replies, click **Save Session Results** in the Action Panel. The reply history is saved and can be viewed in the **Logs & Results** screen.

Actual Status Information

Each device is displayed separately in the Control Panel, and provides information about actual values. If a device has several actual values to display, the **more** link gives access to these values.



Controls

When the **Controls** section is expanded, a complete set of buttons becomes available providing extensive control of the device. This includes setpoints, controls, special commands and module information. When the buttons are clicked, a reply for the action (reply accepted or reply error) is displayed in the Reply panel. Initially, the setpoints display the value already loaded in the device; the displayed value changes on changing the setpoint. When a setpoint is changed, the change must be confirmed by clicking **Send**.

3 Using Lab Advisor Instrument Control

1290 Bin Pump
Serial #: DEBAA00157
Firmware: B.06.41

Controls

G4281B GradPump
Serial #: DEABC50000
Firmware: B.06.32

Flow [mL/min]	0.000
Pressure [Bar]	0.996
Pump Ripple [%]	0.00

Controls

Control
Pump On: ☐ On ☒ Off ☐ Standby
Degasser On/Off: ☐ On ☒ Off

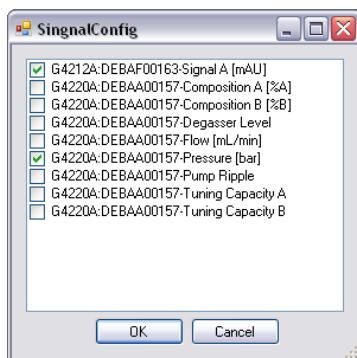
Method Parameters
Set Flow [mL/min]: 0.000
Set Low Pressure Limit [Bar]: 0
Set Composition Channel B: 10

Advanced Method Parameters
Set Stroke: Auto
Set Flow Gradient [mL/min/min]: 100
Start Purge Process
Set Purge Flow [mL/min]: 0.000
Set Purge Time [minutes]: 1.00
Set Purge Composition [%B]: 0.00

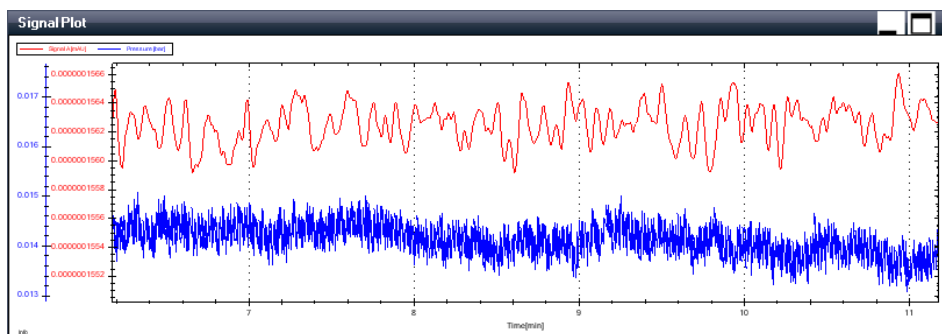
Signal Plot

The Signal Plot is used for monitoring specific function(s) of a system in real time. Combined with the Controls, it can provide very valuable troubleshooting information for experienced users. It can also be used to monitor the progress of certain tasks, and check when they are complete, saving time.

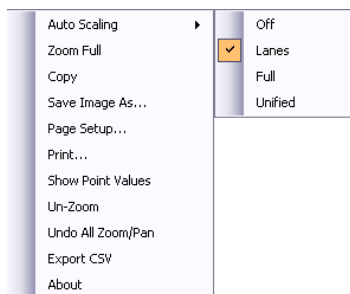
The Signals that you want to monitor are set up by clicking **Signal Configuration** in the Action Panel. The **Signal Config** dialog box that is displayed contains all available signals for the system. To select a signal, mark its check box and click **OK**.



The selected signals are visible in the Signal Plot starting in “lanes” mode, which divides the available area of the window between the number of configured signals. This gives each signal a limited size in the window, but all are easy to differentiate and each scale is shown on the left side of the plot.



Other scaling parameters can be selected by right-clicking the signal window and selecting the **Auto Scaling** from the context menu. The available scaling options are presented in the submenu.

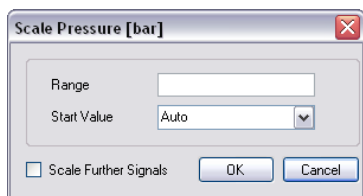


3 Using Lab Advisor Instrument Control

Using the mouse pointer, it is also possible to scroll the scales directly. Click the scale you want to change and use the scroll wheel to change the scale. You can also change the placement of the scale by pressing the scroll wheel while moving the mouse forward and back.



Alternatively, you can specify a fixed scale window. Double-click the scale to open the **Scale** dialog box and enter the scale range and/or the lower starting value of the scale.



EMFs

Agilent Technologies LC Instrumentation has supported the Early Maintenance Feedback (EMF) feature since the introduction of the 1100 system in 1995, and continues to support this feature. EMF helps to keep the usage of devices in focus, and facilitates usage-based maintenance, which minimizes maintenance costs.

The EMF counters can be read and reset with both the Basic and the Advanced versions of the software, but the Advanced version allows limits to be activated and set in addition. Lab Advisor provides Agilent-recommended EMF limits. These limits have been determined by measurements under standard laboratory conditions, and do not take into account any application-, user- or site-specific conditions; to maximize the lifetimes of system components, they might need to be adjusted based on experience.

3 Using Lab Advisor
EMFs

▼ Filter

☒ All Counters☐ Counters with Limit

		Title	Value	Unit	Limit	Progress		
	G4220A Serial # DEBAA00157	1290 Bin Pump	0	Hour	3000	0%	★ ↺	
			3.45	Liter	50	6%	★ ↺	
			8.64	Liter	50	17%	★ ↺	
			631	Count	15000	4%	★ ↺	
			Liquimeter (A+B)	12.09	Liter	0	0%	★ ↺
	G4226A Serial # DE93000560	1290 ALS	0	Count	1000	0%	★ ↺	
		Needle into seat counter	1191	Count	1500	79%	★ ↺	
			1.53	Hour	3000	0%	★ ↺	
	G4212A Serial # DEBAF00163	1290 DAD						
		Accumulated UV lamp on-time	2519.65	Hour	2000	100%	★ ↺	
		UV lamp ignition counter	28	Count	1500	1%	★ ↺	
	G4208A Serial # PP55055002	1200 Instant Pilot						
		UV lamp on-time	360.65	Hour	0	0%	★ ↺	

Activate EMFDeactivate EMFRefresh Counters

The EMF screen can be used to view all possible counters or, for better overview, to filter only those counters that have an activated limit.

▼ Filter

☒ All Counters☐ Counters with Limit

System Report

The Lab Advisor **System Report** screen provides a system-wide overview of the devices in the system.

The information in the **System Report** includes:

- Lab Advisor software information
- Contact information
- PC information (optional)
- System configuration
- Logbook
- EMF counters
- Test Results
- Instrument actuals (optional)

The information included in the **System Report** can be used to document the system or to share diagnostic information with a remote engineer when troubleshooting the system.

The **System Report** screen displays the information in at least two tabs: a **General** tab that includes Contact Information, Company, Logs and results and PC information, and a tab for each instrument in the system. The instrument tabs allow you to select the instrument-specific information to include.

3 Using Lab Advisor System Report

Report Name: Agilent System Report

General | Compact LC

Contact Information

Name: John Doe

Phone:

Email:

Company: Big Company, Inc.

Included Information

Logs and results: Include all data

☒ Include PC information

Comments

Create Report

Contact and Company information can be helpful for easy and precise identification if the report is sent to a Remote engineer during troubleshooting.

The Logs & Result information stored by each individual device might be extensive, so to reduce the amount of data, you can filter the data based on time.

If you mark the **Include PC information** check box, a list of Agilent programs installed on the PC is generated for the report. This includes all programs starting with *Agilent*.

The instrument actuals are the setpoints currently loaded in the system at the time of generation of the report. If a method has been loaded in the CDS (and has not been changed), then Lab Advisor can report these settings. Note, however, that the receiver of the **Status Report** will be able to see method information.

1 of 4
Page Width
Find | Next

Agilent System Report

Test system

Software Information

Lab Advisor Version:

Version B.02.01 [010]

Data updated on:

5/20/2011 15:26:26

Contact Information

Name

John Doe

Phone

E-Mail

Company

Big Company Inc.

Comment

PC Information

Name

CZC9030ZHW

Free Disk Space

C:\ 91.92 GB

Installed Agilent Programs

Agilent Windows XP Security Template - AD
Agilent Lab Advisor
Agilent Installation Qualification ToolA.03.03.008
Agilent Internet Explorer8 Settings
Agilent OLECM BPM Client

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In This Book

This manual describes the two versions of Lab Advisor B.02.04: Lab Advisor Basic and Lab Advisor Advanced.

The manual contains the following information:

- Lab Advisor B.02.04 Overview
- Installation
- Using Lab Advisor

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