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# **Analyst 1.7.2 Software Components for ExionLC 2.0 System**

Release Notes



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For information about a previous software version, refer to the *Release Notes* that came with that software version.

## Related Documentation

The guides and tutorials for the Analyst software are installed automatically with the software and are available from the Start menu:

- On computers configured with the Windows 10 operating system: **Start > SCIEX Analyst > Analyst Documentation**
- On computers configured with the Windows 7 operating system: **Start > All Programs > SCIEX > Analyst**

A complete list of the available documentation can be found in the *Help*. To view the software *Help*, open the software and then press **F1**.

To find hardware product documentation, refer to the *Customer Reference* DVD that comes with the system or component.

# New in Analyst 1.7.2 Software Components for ExionLC 2.0 System

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## Enhancements and Fixes

### Features and Enhancements

- The ExionLC 2.0 system is now supported.

## Notes on Use and Known Issues

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**Note:** The numbers in parentheses are reference numbers for each issue or feature in the SCIEX internal tracking system.

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### Known Issues

#### **The ExionLC 2.0 system status icon in the Analyst software is red but shows Ready.**

If an error occurs on the ExionLC 2.0 system, then the LC status icon in the Analyst software turns red but Ready might be shown as the LC status. To recover, deactivate the hardware profile and then activate it again. Make sure that the detector lamps are on and ready before starting acquisition, especially after the system has gone through Standby state. (AN-1966)

#### **LC method information might not be displayed properly if the Show Next Sample, Show Previous Sample, or Go To Sample buttons are used when the File Info pane is open.**

If the File Info pane for a data file is open in Explore mode, then clicking the **Show Next Sample**, **Show Previous Sample**, or **Go To Sample** icon in the top tool bar might cause the LC method properties to show improperly. The LC method information might not be shown in full, and some of the period and experiment information might be repeated. If the issue occurs, then deactivate the hardware profile if it is active, close the Analyst software, and start the computer again. To avoid the issue, close the File Info pane before clicking these icons in the tool bar. (AN-1967)

### **The Analyst software shows the ExionLC 2.0 system in Wait state when it is in Standby state if the LC system contains a detector.**

If the ExionLC 2.0 system contains a DAD or Multiwavelength detector, then after the LC system and mass spectrometer go to Standby state, the Analyst software status icon for the ExionLC 2.0 system turns yellow, but the LC system state is shown as **Wait**. This occurs because the detector lamps are turned off when the system is in Standby state. This is a status display issue and does not affect system operation. (AN-1968)

### **When solvent level parameters are changed, the status is not updated immediately.**

After changing any parameter in the solvent levels panel, wait 5 seconds for the updated parameters to be shown in the status window or to change any parameter again. (AN-2038)

### **A method cannot be saved when valve wash is selected in the ExionLC 2.0 wash system settings.**

Intermittently, when valve wash is selected in the ExionLC 2.0 wash system settings, the method might not save successfully, instead showing an error message "Error writing acquisition method to the file! Copy method failed." If this issue occurs, then do the following:

1. Deactivate the hardware profile and then close the Analyst software.
2. Delete or rename the 'Configuration\_Default.xml' file (C:\ProgramData\ExionLC 2.0\Configurations) and the ExionLC2 folder (C:\ProgramData\SCIEX).
3. Restart the computer.
4. Turn off all of the ExionLC 2.0 system modules and then turn them back on.
5. Create a new hardware profile, reconfigure the ExionLC 2.0 system, and activate it. (AN-2246)

## **Notes on Use**

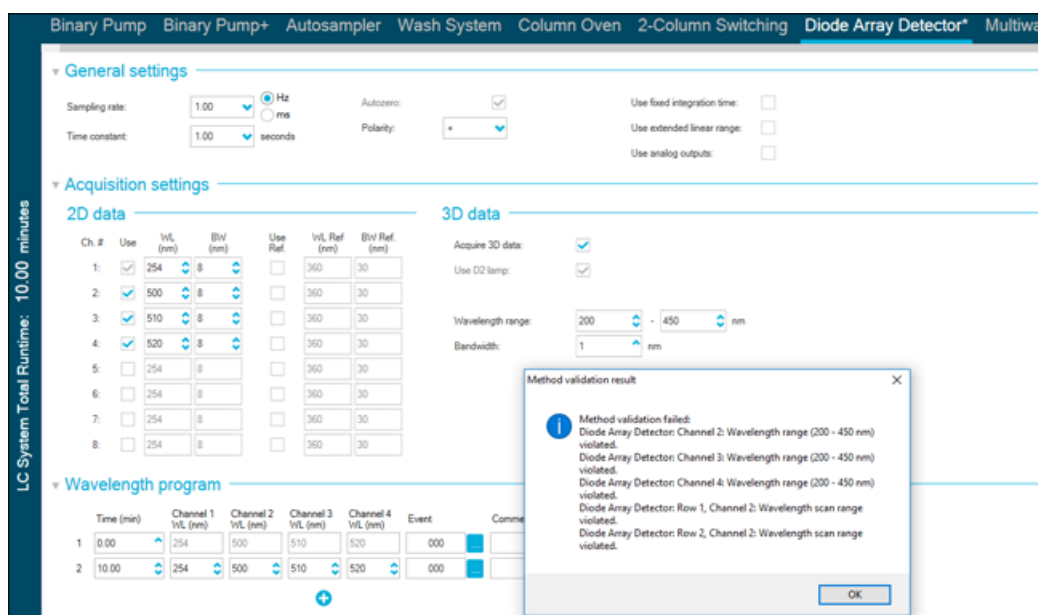
It is recommended that the computer be restarted at least once per week.

The following notes are applicable to the ExionLC 2.0 systems:

- Make sure that the detector lamps are on and ready before starting acquisition.
- If solvent levels monitoring is used in the LC Integrated System Detailed Status window, then make sure that the current volume is correct before each batch acquisition.
- When loading the sample trays, make sure to follow the plate layout in the software, or refer to the *Hardware User Guide*.

- If samples are acquired to the same data file using a method containing a ExionLC 2.0 system diode array detector (DAD) in a 3D data mode with a high sampling rate, then delays in completing the sample acquisition might be observed while the data file size increases. This is because the Analyst software tries to collect all of the data points from the LC driver. As a result, the sample acquisition might seem to take much longer than the method run time. However, the data is for the correct run duration. To avoid delays between samples caused by the transfer of a large number of data points, acquire each sample to a separate data file.
- When creating an LC method for a system with a DAD, make sure that the wavelength defined for each channel and each row in the Wavelength program for the 2D data mode is within the Wavelength range defined for the 3D data mode, even if the 3D data mode is not selected. The following figure shows the error message that is shown when an invalid method is saved. The Row <#> refers to the row in the Wavelength program.


**Figure 2-1 Error Message when an Invalid ExionLC 2.0 DAD Method is Saved**



- In cases where the computer is shut down or restarted unexpectedly while the hardware profile is active, the ExionLC 2.0 system might lose communication with the computer. Turn all of the ExionLC 2.0 system modules off and on to detect them again. (AN-1988)
- If any of the ExionLC 2.0 system modules goes into an error state because of an issue requiring no physical fix, then the Standby button (⏻) from the LC Integrated System Detailed Status window can be used to clear the error. Use this button to turn the LC modules off and then on again. However, a hardware profile deactivation and activation are still required. In rare cases, if this recovery approach does not work, then deactivate the hardware profile, turn off the computer, turn all of the LC modules off and then on, and then turn on the computer again.

## New in Analyst 1.7.2 Software Components for ExionLC 2.0 System

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- If a batch contains an LC method with the pretreatment option set to **Use first destination vial**, then before the batch is run again or the same LC method is used in another batch, the first destination vial position must be reset. It is automatically reset when the system state changes to Standby and when the hardware profile is deactivated and activated. The user can also reset the first destination vial position in the following ways:
  - Click **Reset vials** () in the Autosampler pane of the LC Integrated System Detailed Status window. Then select **Reset destination vials**.
  - Submit a batch containing a single sample that uses a different first destination vial position. If **Use first destination vial** (FDV) is selected for pretreatment, then make sure that the last destination vial position (LDV) is valid for the rack type selected and the number of samples ( $n$ ) to be included in the batch. Otherwise, batch acquisition will stop on the sample with an invalid destination vial number. The destination vial position is always equal to the destination vial position of the preceding sample, plus 1.

For samples 1, 2, 3, and 4, respectively, the destination vial positions will be FDV, FDV+1, FDV+2, and FDV+3. If the number of samples to be included in the batch is 30, with vial positions 11 to 40, and FDV is 51 on a 2 × 48 vial rack, then the LDV = FDV +  $n$  – 1 = 51 + 30 – 1 = 80.

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**Note:** Make sure that a vial is present in every projected destination vial position.

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- The detector lamp in an ExionLC 2.0 DAD or multiwavelength detector stays on if the system is left in Idle state after the hardware profile is activated and the system is not equilibrated or a batch is not acquired. To extend the detector lamp life time, do not leave the system idle for a long time immediately after activating the hardware profile. Either equilibrate the system or put the system in Ready state, and then let the system go to Standby state manually or automatically. (AN-2202)



# Supported Device Models and Firmware Versions (ROM) for the ExionLC 2.0 System

## 3

The Analyst 1.7.2 software Components for ExionLC 2.0 system supports all of the devices listed in the following table. For information about configuring the devices, refer to the *Peripheral Devices Setup Guide*.

**Table 3-1 Firmware Versions**

Peripheral Device	Model	Tested Firmware	Communication Cable Required
LPG Pump	LPGP-200	1.07	Ethernet
Binary Pump	BP-200	1.07	Ethernet
Binary Pump+	BP-200+	1.01	Ethernet
Autosampler	AS-200	1.22	Ethernet
Autosampler+	AS-200+	1.22	Ethernet
Column Switching (Valve drive)	DR-200	6.20	Ethernet
Column Oven	CO-200	2.02	Ethernet
Multiwavelength Detector	MWD-200	1.11	Ethernet
Diode Array Detector	DAD-200	1.11	Ethernet
Diode Array Detector - HS	DADHS-200	1.24	Ethernet
Wash System	WS-200	1.14	Ethernet

In most cases, more recent firmware versions from the device manufacturer will function with the Analyst 1.7.2 Software Components for ExionLC 2.0 System. If an issue occurs, then use the device firmware listed in this table. For information about verifying and updating firmware, refer to the documentation provided by SCIEX.

## Install the Analyst 1.7.2 Software Components for ExionLC 2.0 System

### Prerequisite

- Analyst 1.7.2 Software is installed.

**Note:** VC++2008 SP1 MFC Security Redistributable and VC++ 2017 Redistributable components are also required. If they are not present, then the installation program will install them. Do not remove them. If they are removed, then the Analyst Software will not function properly when an ExionLC 2.0 System is used.

**Note:** The components software cannot be installed on the top of the Analyst 1.7.2 Patch for Full User Name or the Analyst 1.7.2 Patch for Shimadzu LC30 Plate Layout. If the Analyst 1.7.2 Patch for Full User Name is installed, then contact [sciex.com/request-support](https://sciex.com/request-support) because this patch and the components software cannot be installed on the same computer. If the Analyst 1.7.2 Patch for Shimadzu LC30 Plate Layout is installed, then before proceeding with the installation, remove the patch, install the components software, and then install the patch again. If the Analyst 1.7.2 HotFix for IHT on 5500 Plus or the Analyst 1.7.2 HotFix 2 is installed on the system, then they will not be removed when the Analyst 1.7.2 Software Components for ExionLC 2.0 System is installed or removed.

1. Log on to the computer as a user with Administrator privileges.
2. Stop any acquisitions that are in progress and then deactivate the hardware profile.
3. Close the Analyst Software.
4. Download the **Analyst 1.7.2 Software Components for ExionLC 2.0** from [sciex.com/software-support/software-downloads](https://sciex.com/software-support/software-downloads).

**Note:** To prevent potential installation issues, we recommend that the file be saved to a local drive other than the computer desktop or a USB flash drive.

5. After the download is complete, right-click the **Analyst-1.7.2-Software-Components-for-ExionLC-2.0.zip** file.
6. Click **Extract All**, select the destination folder, and then click **Extract**.
7. After the extraction is complete, browse to the selected destination folder, and then double-click the **setup.exe** file.
8. Follow the on-screen instructions to complete the installation.
9. Restart the computer.
10. Open the Analyst Software, create a hardware profile that contains an ExionLC 2.0 System, and then activate the hardware profile.

## Remove the Analyst 1.7.2 Software Components for ExionLC 2.0 System

1. Log on to the computer as a user with Administrator privileges.
2. Stop any acquisitions that are in progress and then deactivate the hardware profile.
3. Close the Analyst Software.
4. Open the Control Panel in Large icons or Small icons mode, and then click **Programs and Features**.
5. Right-click **1.7.2 Patch for Shimadzu LC30 Plate Layout** if it is installed, and then click **Uninstall**.
6. Follow the on-screen instructions.
7. Right-click **Analyst 1.7.2 Software Components for ExionLC 2.0** and then click **Uninstall**.
8. The **Analyst 1.7.2 Software Components for ExionLC 2.0** is removed from the program list. The Release Notes – Components for ExionLC 2.0.pdf file and shortcut are also removed. After the **Analyst 1.7.2 Software Components for ExionLC 2.0** is removed, the software is reverted to the original Analyst 1.7.2 software or the Analyst 1.7.2 software with one of the HotFixes if that HotFix was installed before the Analyst 1.7.2 Software Components for ExionLC 2.0 system was installed.
9. If the Analyst 1.7.2 Patch for Shimadzu LC30 Plate Layout is required, then install this patch again.

# Updated and New Folders and Files

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The Analyst 1.7.2 Software Components for ExionLC 2.0 System makes the following changes to the Analyst folder.

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**Note:** On 64-bit systems, this folder is in the C:\Program Files (x86)\ folder. On 32-bit systems, it is in the C:\Program Files\ folder.

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## <path>\Analyst\Bin:

- Analyst.exe (updated)
- AutosamplerDB.adb (updated)
- AutosamplerDBServer.adb (updated)
- BatchDir.dll (updated)
- BatchEditor.ocx (updated)
- CSISExion2LC.dll (added)
- CSISExion2LCPS.dll (added)
- DDISExion2LC.dll (added)
- DDISExion2LCps.dll (added)
- Exion2LCMethodEditor.ocx (added)
- Exion2LCMethodSvr.dll (added)
- Exion2LCMethodSvrps.dll (added)
- Exion2LCUIWrapper.dll (added)
- QuantOptimizwWizard.dll (updated)
- QuantSettings.dll (updated)
- StatusSvr.dll (updated)
- SyncMan.dll (updated)
- VDISExion2LCps.dll (added)
- VSISExion2LC.dll (added)

### <path>\Analyst\BinEx2:

- VDIExion2LC.exe (added)
- Exion.Interop.Common.dll (added)
- Exion.Interop.Interfaces.dll (added)
- Exion.Interop.LCController.dll (added)
- Exion.Interop.LCCore.dll (added)
- Exion.Interop.LCDefines.dll (added)
- Exion.Interop.LCSetup.dll (added)
- Exion.Interop.LCStatus.dll (added)
- ExionLCHelp.chm (added)
- IntegratedLCSystemDriver.DriverCore.ServerComponents.dll (added)
- IntegratedLCSystemDriver.DriverCore.ClientComponents.dll (added)
- IntegratedLCSystemDriver.DriverCore.Base.dll (added)
- LCMimicDemo.exe (added)

### <path>\Analyst\ binEx2\en-US:

- IntegratedLCSystemDriver.DriverCore.Base.resources.dll (added)

### <path>\Analyst\ binEx2\ de-DE:

- IntegratedLCSystemDriver.DriverCore.Base.resources.dll (added)

### <path>\Analyst\Help:

- Release Notes – Components for ExionLC 2.0.pdf (added)

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**Note:** On computers configured with the Windows 10 operating system, a shortcut to the folder where the *Release Notes – Components for ExionLC 2.0* is stored can be found at **Start > SCiEX Analyst > Analyst Documentation**. On computers configured with the Windows 7 operating system, a shortcut to the *Release Notes – Components for ExionLC 2.0* can be found at **Start > All Programs > SCiEX > Analyst**.

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### <path>\Analyst\Help\Software Guides:

- Peripheral Devices Setup Guide.pdf (updated)
- ExionLC 2.0 Software User Guide.pdf (added)

### <path>\Common Files\SCIEX\LLDriver: (added/updated)

- AliasBase\_icf.dll
- AliasDCP\_icf.ocx
- AliasRes\_icf.dll
- ASBaseDCP\_icf.dll
- ASBase\_icf.dll
- ASCIIDevices\_icf.dll
- CfgCntl.dll
- CfgCntlProxy.dll
- CfgCntlSrv.exe
- CT21OvenBase\_icf.dll
- CT21OvenDCP\_icf.ocx
- CT21OvenRes\_icf.dll
- IdentifyLocal.dll
- IdentifySrv.exe
- IdentifySrvProxy.dll
- InstrCntlANBase\_icf.dll
- InstrCntlANP81L\_icf.dll
- InstrCntlANV41S\_icf.dll
- InstrCntlBase\_icf.dll
- InstrCntlCT21\_icf.dll
- InstrCntlMc\_icf.dll
- InstrCntlP61L\_icf.dll
- InstrCntlS2650\_icf.dll
- InstrDADBase\_icf.dll
- InstrDADDCPBase\_icf.dll
- InstrDADRes\_icf.dll
- InstrS2650DCP\_icf.ocx
- KBase\_icf.dll
- KBaseDCP\_icf.dll

- KNGeneral\_icf.dll
- KPumpBase\_icf.dll
- KPumpP61LDCP\_icf.ocx
- KPumpP81LDCP\_icf.ocx
- KPumpRes\_icf.dll
- KWCUnits.dll
- LogConfig.exe
- McMonitor\_icf.dll
- OEMFolderAccess.dll
- RCServer.dll
- SciLexer.dll
- SparkProtocol\_icf.dll
- SType.prm
- SvalvesBase\_icf.dll
- SvalvesDCP\_icf.ocx
- SValvesRes\_icf.dll
- SxASController.exe
- SxControllerBase.dll
- SxDADController.exe
- SxOvenController.exe
- SxPumpController.exe
- SxPumpPController.exe
- SxSVController.exe
- SxVIBase.dll
- SxVIInterfaces.dll
- Units.txt
- xerces-c\_2\_6.dll

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**Note:** The files in the <path>\Common Files\SCIEX\LLDriver folder are shared by the Analyst Software and SCIEX OS. The files will not be removed upon uninstallation of either program. They will be removed only after both the Analyst Software and SCIEX OS are uninstalled.

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# Contact Us

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## Customer Training

- In North America: [NA.CustomerTraining@sciex.com](mailto:NA.CustomerTraining@sciex.com)
- In Europe: [Europe.CustomerTraining@sciex.com](mailto:Europe.CustomerTraining@sciex.com)
- Outside the EU and North America, visit [sciex.com/education](http://sciex.com/education) for contact information.

## Online Learning Center

- [SCIEX University](#)

## SCIEX Support

SCIEX and its representatives maintain a staff of fully-trained service and technical specialists located throughout the world. They can answer questions about the system or any technical issues that might arise. For more information, visit the SCIEX website at [sciex.com](http://sciex.com) or contact us in one of the following ways:

- [sciex.com/contact-us](http://sciex.com/contact-us)
- [sciex.com/request-support](http://sciex.com/request-support)

## CyberSecurity

For the latest guidance on cybersecurity for SCIEX products, visit [sciex.com/productsecurity](http://sciex.com/productsecurity).

## Documentation

This version of the document supercedes all previous versions of this document.

To view this document electronically, Adobe Acrobat Reader is required. To download the latest version, go to <https://get.adobe.com/reader>.



To find software product documentation, refer to the release notes or software installation guide that comes with the software.

To find hardware product documentation, refer to the *Customer Reference* DVD that comes with the system or component.

The latest versions of the documentation are available on the SCIEX website, at [sciex.com/customer-documents](http://sciex.com/customer-documents).

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