Introduction

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

Where to Get Help

• Analyst MD 1.6.3 Software Release Notes
• Analyst MD 1.6.3 Software Installation Guide

New in Analyst MD 1.6.3 HotFix 4

Enhancements and Fixed Issues

This HotFix installs new configuration tables to address an instrument control board (ICB) freezing issue that occurred when a system was started up after having been shut down for a long time. (AN-2278)

This HotFix can be installed on the following systems:

• SCIEX Triple Quad 4500MD system
• Citrine Triple Quad system

Use the ConfigUpdater utility included in the HotFix to upload the new configuration tables.

The HotFix also includes the enhancements and fixed issues included in the following HotFixes:

HotFix 3

This HotFix updates the About Analyst dialog in the Analyst MD software to include the following information, without a build number:

• Analyst MD software
• Published Version: 1.6
• Full Version: 1.6.3 HotFix 3

HotFix 2

This HotFix includes fixes for these issues:
• An error could occur if Start Over is used to run the instrument optimization again with the Adjust mass calibration only option

If the Start Over option in the Results Summary dialog of the Instrument Optimization is used to run the Instrument Optimization again with the Adjust mass calibration only option, then a run-time error might be encountered at the end of the optimization and the results are not shown properly. (AN-1582)

• Unable to import txt files into the Batch Editor on workstations configured with the Windows 10 operating system

If a txt file is imported into the Batch Editor on workstations configured with the Windows 10 operating system, then a message about an unexpected column name is shown and the file cannot be successfully imported into the batch. (AN-1787)

• Audit Trail events might be recorded in an incorrect project

If a different project is selected from the Projects list after a chromatogram or a Results Table has been opened in the Analyst MD software, and then the open chromatogram or Results Table is printed, the printing event is incorrectly recorded in the Audit Trail for the currently selected project. (AN-389)

• Pre-defined reasons are not always available for selection

When only some of the Audit Trail events have a pre-defined reason listed in the audit map, if any of these events occur, then the appropriate pre-defined reason might not be available for selection in the list of reasons for change. Even when all of the Audit Trail events have a pre-defined reason listed in the audit map, if an event occurs, then only some of the corresponding pre-defined reasons are available for selection in the list of reasons for change. (AN-733)

• FIA Optimization might fail on computers configured with the Windows 10 operating system

On computers configured with the Windows 10 operating system, FIA Optimization might fail when Source and Gas Parameters, such as IS or TEM, are optimized. (AN-1453)

• Change Description information is missing in the Audit Trail for a specific event

When samples are being added to or removed from a Results Table, if the user clicks OK before selecting a sample, then the Change Description column is blank for this event in the Audit Trail. If one or more samples are selected before the user clicks OK, then the Change Description information is recorded correctly. (AN-1494)

• Spectra are missing from the Instrument Optimization Results

On computers configured with Windows 10 and updated with specific Windows update packages, some of the spectra are missing in the Instrument Optimization Results file. (AN-1522)
• Incorrect user information is recorded in the Audit Trail when a user logs on the Analyst MD software in Mixed Mode

On systems configured with the Windows 10 operating system, if a user logs on the Analyst MD software in Mixed Mode after their Windows user profile has been deleted or before their profile has been created, then the user who was previously logged on the Analyst MD software is identified as the currently logged-on user in the Analyst MD software. In addition, the incorrect user information is recorded in the Audit Trail. (AN-1575)

• The ExionLC pump used with an external autosampler continues to pump after the autosampler stops due to an error

If an ExionLC pump is used with an external, non-ExionLC autosampler in an acquisition method, then the ExionLC pump continues to pump after the autosampler stops due to an error. (AN-1601)

HotFix 1

This HotFix added support for the use of the flow-line selection valves with the SCIEX Dx Oven in the Jasper HPLC system. HotFix 1 also included a newer version of the driver for the Jasper, ExionLC, and Shimadzu CL HPLC systems.

The HotFix also includes fixes for these issues:

• The Audit Trail does not record the 0% change in peak area when the quantitation method changes do not result in a peak area change

The Audit Trail records the modification event for the quantitation method but it does not record the result of a 0% change if, when the method is changed, the peak area is not changed. (AN-723)

• Unsuccessful logon event is recorded incorrectly in the Instrument Audit Trail

The event for an unsuccessful logon to the Analyst MD software is incorrectly recorded in the Instrument Audit Trail as "user successfully logged out". In Mixed Mode, the Instrument Audit Trail also records the Windows logon user name instead of the user name with the failed attempt. (AN-763)

• The batch is suspended when a vial is missing even if the queue option "Fail whole batch in case of missing vial" is not selected

When a Jasper, ExionLC, or Shimadzu CL HPLC stack is being used, the acquisition batch will be suspended when a vial for injection is missing, regardless of whether or not the Fail whole batch in case of missing vial option is selected in the Queue Options dialog. (AN-965)

• The user cannot configure the Left Solvent or Right Solvent for Agilent 1260 pumps in the Analyst MD software Method Editor
When the active hardware profile contains an Agilent 1260 pump, the user is unable to configure the Left Solvent or Right Solvent because there is no option to choose A1 or A2, or B1 or B2. (AN-1356)

- **Sample acquisition from the Control Rack does not function for the ExionLC Multiplate Autosampler and any ExionLC autosampler using the Rack Changer**

  When an ExionLC Multiplate Autosampler or Rack Changer is used, and a vial position from the Control Rack (vial positions from 20001 to 20010) is selected for a sample in a batch, then the acquisition of this sample will be stopped. (AN-1420)

- **Sample acquisition from the Control Rack does not function for the Shimadzu Multiplate Autosampler and any Shimadzu autosampler using the Rack Changer**

  When a Shimadzu Multiplate Autosampler or Rack Changer is used, and a vial position from the Control Rack (vial positions from 20001 to 20010) is selected for a sample in a batch, then the acquisition of this sample will be stopped. (AN-1421)

- **Equilibration is unsuccessful when a Shimadzu Rack Changer or Multiplate Autosampler is being used**

  When the system is equilibrated using a method that uses a Shimadzu Rack Changer or Multiplate Autosampler, the pumps and the column oven do not recognize the method settings. This results in an unsuccessful equilibration. (AN-1451)

- **The user cannot submit a batch using an acquisition method that includes a Rack Changer for a Shimadzu SIL 20A or Shimadzu SIL-20A XR autosampler**

  When the user tries to submit a batch using an acquisition method that uses a Rack Changer for the Shimadzu SIL 20A or Shimadzu SIL-20A XR autosampler, the **Submit** button is not available. A message about the method being invalid and the Plate Code specified in the batch not matching the Sample Rack selected in the method is shown. (AN-1437)

- **An LC-MS acquisition method containing a Jasper, ExionLC, or Shimadzu CL HPLC System might only print correctly the first time**

  When an LC-MS acquisition method contains a Jasper, ExionLC, or Shimadzu CL HPLC System, the method might print correctly the first time the **Print > Pane** option is used after the method is opened. The LC portion of the method might not be printed when printing additional times. (AN-1074)

**Notes on Use**

- On a computer configured with the Windows 10 operating system, if the user who logs on to the Analyst MD software in Mixed Mode is a different user than the user who is logged on to the computer, then the Audit Trail record printing function is not available. The Windows 10 component that the Analyst MD software uses to print has a known limitation that prevents different users from printing. In addition, opening the Analyst MD software as a different user in Integrated Mode or Single User Mode is not supported. (AN-1358)
When the Wait Time is set to x (x=0, 1, ....10) on a Jasper HPLC System, the acquisition does not start until the column oven has reached the set temperature and then has waited for x minutes.

The **Wait for temperature equilibration before run** check box in the Method Editor has been removed for the Jasper HPLC System in this version of the driver software.

For an ExionLC or Shimadzu CL HPLC System, with the Wait Time set to x (x=0, 1, ....10) on the device, and the **Wait for temperature equilibration before run** check box selected in the acquisition method, the acquisition does not start until the column oven has reached the set temperature and then has waited for x minutes, when x does not equal 0. However, the acquisition starts immediately without waiting for the column oven to reach the set temperature when x=0. This is by design. Make sure that the system is equilibrated before starting a batch.

**Changes to Instrument Optimization (HotFix 2)** (AN-1522)

- The results file for the Instrument Optimization results summary is now generated in PDF format.
- Microsoft Office 2013 or 2016 or Office 365 must be installed.
- Only the files installed by the Analyst MD software should be stored in the `<drive>:\Analyst Data\Projects\API Instrument\Instrument Optimization\settings` folder. Customized csv files stored in this folder are not supported.

**Auditing**

In the Audit Map Settings for the Instrument Audit Trail, the following events, even if they are selected in the **Audited** column, are not used to audit events related to the Resolution Table or Calibration Table in the Analyst MD software:

- Resolution Table(s) replaced
- Resolution Table added
- Mass Calibration Table and Resolution Table changed

Instead, the following four events are used for auditing the events of adding or changing the Resolution or Calibration Tables:

- Resolution Tables replaced - No Prompt (This event is used to audit Resolution Table changes using any method and to audit the printing of the Resolution Table)
- Mass Calibration Tables replaced (This event is used to audit Calibration Table changes made ONLY in the editor and to audit the printing of the Calibration Table)
- Mass Calibration Table added (This event is used to audit when a new Calibration Table is created)
Mass Calibration Tables replaced - No Prompt (This event is used to audit the Calibration Table changes made through all the other methods other than those previously stated)

Therefore, the use of the Full Audit Map for the Instrument Audit Trail, whether or not the Full Audit Map triggers an E-signature for the Calibration Table change, depends on how the changes were made, that is, in the Instrument Data Editor, by Instrument Optimization, through the Analyst Access Object (AAO), or in the advanced calibration table. A change to the Resolution Table, however, does not trigger an E-signature.

The wiff and corresponding wiff.scan files are considered to be one data file and the file names must be identical. Do not rename part of the data file. Changing part of the data file name prevents the Audit Trail from recording the event correctly when a user attempts to open the data file. (AN-1370)

If an acquisition method containing a Jasper, ExionLC, or Shimadzu column oven is used to equilibrate the system, then do not click Start Sample in the toolbar until the column oven temperature has reached the setpoint, even when the instrument is in the Ready state. As an alternative, click Start Sample immediately after the batch is submitted, without equilibrating the system.

Note: For an ExionLC LC System, this workaround will only work if the Wait for temperature equilibration before run check box is selected in the acquisition method and the Wait Time is set to 1 or greater on the LC system. (AN-1670)

Known Issues and Limitations

N/A

Installation
Install the HotFix

Prerequisites

- The Analyst MD 1.6.3 software is installed.

Note: This HotFix can be installed on top of Analyst MD 1.6.3 software with any combination of HotFixes installed. The previous HotFixes are removed silently during installation of this HotFix.

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 MD software.
4. Download Analyst MD 1.6.3 HotFix 4 from sciex.com/software-support/software-downloads.

**Tip!** To prevent potential installation issues, save the file to a location other than the computer desktop and then disconnect any external USB storage devices before starting the installation.

5. After the download is complete, right-click the AnalystMD1.6.3HF4.zip file.

6. Click **Extract All**, browse to and select the destination folder, and then click **Extract**.

7. After the extraction is complete, browse to the extracted folder, and then double-click the setup.exe file.

8. Follow the on-screen instructions to complete the installation.

9. (SCIEX Triple Quad 4500MD and Citrine Triple Quad systems only) Continue with the section: **Update the Firmware and Configuration Table**.

10. Open the Analyst MD software and then activate the hardware profile. Refer to the documentation for the Analyst MD software.

**Update the Firmware and Configuration Table**

**Note:** (SCIEX Triple Quad 4500MD and Citrine Triple Quad systems only) Before activating the hardware profile and acquiring data using the Analyst MD software, upgrade the firmware and the configuration table. Only change the firmware or configuration table for SCIEX Triple Quad 4500MD and Citrine Triple Quad systems. Changing the firmware configuration on any other system will cause the system to run in an unsupported configuration.

Use the **ConfigUpdater.exe** program to update the system configuration table to the version in the following table.

**Table 1 Supported Configuration Table Versions**

<table>
<thead>
<tr>
<th>Mass Spectrometer</th>
<th>Firmware</th>
<th>Configuration Table</th>
<th>Config Table Version in File Info in the Analyst MD Software</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCIEX Triple Quad 4500MD systems</td>
<td>PIL2004</td>
<td>FWTripleQuad4500R04.fw</td>
<td>04</td>
</tr>
<tr>
<td>Citrine Triple Quad systems</td>
<td>PIL2004</td>
<td>FWCitrineTripleQuadR02.fw</td>
<td>02</td>
</tr>
</tbody>
</table>

1. **Browse to the Analyst\Firmware\ConfigUpdater folder and then double-click ConfigUpdater.exe.**
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.

The Configuration Table Update Program page opens.

Tip! The ConfigUpdater.exe program can also be started from the shortcut:

- Windows 10: Start > Sciex Analyst MD
- Windows 7: Start > All Programs > Sciex > Analyst MD

2. Select the Ethernet interface.
The ConfigUpdater utility opens and then identifies the new firmware version to be installed.

Note: The ConfigUpdater utility will reset the mass spectrometer. This is normal and is required by the update process.

3. Click Next.

Figure 1 Upload Confirmation Prompt

4. Click OK and then wait until the message Uploaded Configuration Table is ready is shown.

5. Click OK.
The Firmware/Configuration Table Update Program dialog with a list of supported instruments opens.

6. Click Next.
A dialog with the detected newer configuration table version opens.

Note: If the utility gives more than one choice for the configuration file name, then select the version listed in the table: Table 1.

7. Click Next.
This message is shown: Click OK to start the upload and do not interrupt. The buttons will be disabled until upload finishes.
8. Click OK and then wait until this message is shown: Uploaded Configuration Table is ready.

9. Click OK.
The configuration table update is complete and the ConfigUpdater.exe program confirms that the configuration table is the current version.

10. Click Finish to close the utility.

Remove the HotFix

CAUTION: Potential System Damage. (SCIEX Triple Quad 4500MD and Citrine Triple Quad systems only) If the HotFix must be removed, then contact sciex.com/request-support for help with downgrading the configuration table and the firmware. We do not recommend removing the Analyst MD 1.6.3 HotFix 4 from these systems. Simply removing HotFix 4 will result in the system running an unsupported software configuration.

1. Log on to the computer as a user with Administrator privileges.
2. Deactivate the hardware profile in the Analyst MD software.
3. Close the Analyst MD software.
4. Open Control Panel and then click Programs and Features.
5. Select Analyst MD 1.6.3 HotFix 4 and then click Uninstall.
6. Follow the on-screen instructions.
The HotFix is removed from the program list, and any files that were changed by the HotFix are reverted to the original Analyst MD 1.6.3 software version.

   Note: Any HotFix that was removed during the installation of the Analyst MD 1.6.3 HotFix 4 is not restored. The required HotFix must be installed again.

7. Close Control Panel.
8. Open the Analyst MD software and then activate the hardware profile. Refer to the documentation for the Analyst MD software.

Changed and Added Files

The Analyst MD 1.6.3 HotFix 4 makes the following changes to the Analyst folder.

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.
Analyst MD 1.6.3 HotFix 4 Release Notes

In the following list, the HotFix version in parentheses indicates the HotFix in which the file was added or changed. If no previous HotFix was installed, then all of these files are added or changed in HotFix 4.

**Analyst\Help**

- Analyst MD 1.6.3 HotFix 4 Release Notes.pdf (added in HotFix 4)

**Tip!** (Windows 7 systems) A shortcut to the Release Notes can be found in this location:

- Windows 7: Start > All Programs > SCIEX > Analyst MD

**Tip!** (Windows 10 systems) A shortcut to the folder that contains the Release Notes can be found in this location:

- Windows 10: Start > SCIEX Analyst MD > Analyst MD Documentation

**Analyst\bin**

- Analyst.exe (changed in HotFix 4 and HotFix 3)
- AuditTrailCommon.dll (changed in HotFix 1)
- AuditTrailManagerCtrl.ocx (changed in HotFix 1)
- AutosamplerDatabase.dll (changed in HotFix 1)
- AutosamplerSelect.dll (changed in HotFix 1)
- AutosamplerUISelect.ocx (changed in HotFix 1)
- AutosamplerViewer.ocx (changed in HotFix 1)
- AutoTune- Instrument Tuning.exe (changed in HotFix 2)
- BatchEditor.ocx (changed in HotFix 1)
- BatchImportExport.dll (changed in HotFix 2)
- DD_VendorApp.dll (changed in HotFix 1)
- ExploreDataObjects.dll (changed in HotFix 2)
- FMWIFFCompDocNTDriver.dll (changed in HotFix 2)
- HP1100lcMethodEditor.ocx (changed in HotFix 1)
- LCPumpMethodSvr.dll (changed in HotFix 1)
- MMSecurity.dll (changed in HotFix 2)
- NetWorkSync.exe (changed in HotFix 2)
• PEIUtils.dll (changed in HotFix 2)
• QuantAuditTrail.dll (changed in HotFix 2)
• QuantPeakReview.ocx (changed in HotFix 2)
• QuantRT.ocx (changed in HotFix 2)
• QueueSvr.dll (changed in HotFix 2)
• RackBuilder.exe (changed in HotFix 1)
• ReportEngine.ocx (changed in HotFix 2)
• SciexLCMethodEditor.ocx (changed in HotFix 1)
• TuneDir.dll (changed in HotFix 2)
• VDISShimadzu.exe (changed in HotFix 1)
• VendorAppMethodSvr.dll (changed in HotFix 1)

**Analyst\binEx**

All of the files in this folder were changed in HotFix 1. In addition, the following changes were made to this folder:

• _ReadMe.txt (added in HotFix 1)
• Infragistics4.Win.UltraWinGrid.v14.2.dll (added in HotFix 1)
• Shimadzu.LCDriver.CBM20A.FractionCollector.dll (added in HotFix 1)
• Shimadzu.LCDriver.CbmNet.dll (added in HotFix 1)
• Shimadzu.LCDriver.CommonData.dll (added in HotFix 1)
• Shimadzu.LCDriver.LC2030.CbmNet.dll (added in HotFix 1)
• Shimadzu.LCDriver.LCBase.dll (added in HotFix 1)
• Shimadzu.LCDriver.LCBaseUI.dll (added in HotFix 1)
• Shimadzu.LCDriver.Logger.dll (added in HotFix 1)
• VDISSciexLC.exe (changed in HotFix 2)
• MIMIC2 DRIVER_Jasper (MergeModule) (Updated)

**Analyst\binja**

• Infragistics4.Win.UltraWinGrid.v14.2.resources.dll (added in HotFix 1)
• Shimadzu.LCDriver.CbmNet.resources.dll (added in HotFix 1)
• Shimadzu.LCDriver.CommonData.resources.dll (added in HotFix 1)
Analyst MD 1.6.3 HotFix 4 Release Notes

- Shimadzu.LCDriver.LC2030.CbmNet.resources.dll (added in HotFix 1)
- Shimadzu.LCDriver.LCBase.resources.dll (added in HotFix 1)
- Shimadzu.LCDriver.LCBaseUI.resources.dll (added in HotFix 1)
- Shimadzu.LCDriver.VirtualMode.resources.dll (added in HotFix 1)

Analyst\Firmware

- FWTripleQuad4500R04.fw (added in HotFix 4)
- FWCitrineTripleQuadR02.fw (added in HotFix 4)
- PIL2004 (added in HotFix 4)

Analyst\Firmware\ConfigUpdater

- AxInterop.ComctlLib.dll (added in HotFix 4)
- AxInterop.InetCtlsObjects.dll (added in HotFix 4)
- AxInterop.MSCommLib.dll (added in HotFix 4)
- AxInterop.MSFlexGridLib.dll (added in HotFix 4)
- AxInterop.MSWinsockLib.dll (added in HotFix 4)
- ConfigUpdater.exe (added in HotFix 4)
- ConfigUpdater.exe.config (added in HotFix 4)
- ConfigUpdater.pdb (added in HotFix 4)
- ConfigUpdater.xml (added in HotFix 4)
- Interop.ComctlLib.dll (added in HotFix 4)
- Interop.InetCtlsObjects.dll (added in HotFix 4)
- Interop.MSCommLib.dll (added in HotFix 4)
- Interop.MSFlexGridLib.dll (added in HotFix 4)
- Interop.MSWinsockLib.dll (added in HotFix 4)
- Interop.Scripting.dll (added in HotFix 4)
- UpdateConfig.ini (added in HotFix 4)
Contact Us

Customer Training

• In North America: NA.CustomerTraining@sciex.com
• In Europe: Europe.CustomerTraining@sciex.com
• Outside the EU and North America, visit sciex.com/education for contact information.

Online Learning Center

• SCIEX Now Learning Hub

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 or contact us in one of the following ways:

• sciex.com/contact-us
• sciex.com/request-support

CyberSecurity

For the latest guidance on cybersecurity for SCIEX products, visit 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 documentation DVD for the system or component.

Note: To request a free, printed version of this document, contact sciex.com/contact-us.
This document is provided to customers who have purchased SCIEX equipment to use in the operation of such SCIEX equipment. This document is copyright protected and any reproduction of this document or any part of this document is strictly prohibited, except as SCIEX may authorize in writing.

Software that may be described in this document is furnished under a license agreement. It is against the law to copy, modify, or distribute the software on any medium, except as specifically allowed in the license agreement. Furthermore, the license agreement may prohibit the software from being disassembled, reverse engineered, or decompiled for any purpose. Warranties are as stated therein.

Portions of this document may make reference to other manufacturers and/or their products, which may contain parts whose names are registered as trademarks and/or function as trademarks of their respective owners. Any such use is intended only to designate those manufacturers' products as supplied by SCIEX for incorporation into its equipment and does not imply any right and/or license to use or permit others to use such manufacturers' and/or their product names as trademarks.

SCIEX warranties are limited to those express warranties provided at the time of sale or license of its products and are the sole and exclusive representations, warranties, and obligations of SCIEX. SCIEX makes no other warranty of any kind whatsoever, expressed or implied, including without limitation, warranties of merchantability or fitness for a particular purpose, whether arising from a statute or otherwise in law or from a course of dealing or usage of trade, all of which are expressly disclaimed, and assumes no responsibility or contingent liability, including indirect or consequential damages, for any use by the purchaser or for any adverse circumstances arising therefrom.

(GEN-IDV-09-10816-D)

For In Vitro Diagnostic Use. Product(s) not available in all countries. For more information contact your local sales representative or refer to sciex.com/diagnostics.

Rx Only.

Trademarks and/or registered trademarks mentioned herein, including associated logos, are the property of AB Sciex Pte. Ltd., or their respective owners, in the United States and/or certain other countries (see sciex.com/trademarks).

AB Sciex™ is being used under license.


Leica Microsystems CMS GmbH
Ernst-Leitz-Strasse 17-37
35578 Wetzlar
Germany