SCIEX OS Software 4.2 Release Notes

Introduction

Thank you for choosing SCIEX to supply your system. We are pleased to bring you the SCIEX OS software 4.2, which supports these systems:

- ZenoTOF 8600 systems, ZenoTOF 7600+ systems, and ZenoTOF 7600 systems
- X500R QTOF and X500B QTOF systems
- SCIEX 7500+ systems, SCIEX 7500 systems, SCIEX 6500+ systems, SCIEX 6500 systems, SCIEX 5500+ systems, SCIEX 5500 systems, and SCIEX 4500 systems
- Citrine systems[1] and SCIEX 4500MD systems[1]
- Echo® MS system, which includes a SCIEX Triple Quad 6500+ system and the Echo® MS module
- Echo® MS+ system with the SCIEX Triple Quad 6500+ system, ZenoTOF 7600 system, ZenoTOF 7600+ system, or ZenoTOF 8600 system
- ExionLC 2.0 systems, ExionLC AE systems, ExionLC MD systems[1], M5 MicroLC systems, and select other LC systems, when purchased from SCIEX

The SCIEX OS software 4.2 also lets the user process data that is acquired from triple quadrupole, QTRAP, and TripleTOF systems that operate with the Analyst software 1.6.2 or later or Analyst TF software 1.7.1 or later.

This document gives a description of the features in the software. We recommend that users keep these release notes for reference as they become familiar with the software.

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

New in Version 4.2

This section gives a description of the changes in the SCIEX OS software 4.2. To see the enhancements and corrected issues for an earlier version of the SCIEX OS software, refer to the document: *Release Notes* that came with that version of the software.

[1] Medical Device Registration and Listing for Citrine systems, SCIEX 4500MD systems, ExionLC MD systems, and Shimadzu LC-40 CL systems are pending. Product(s) not available in all countries. For information on availability, please contact your local sales representative or refer to sciex.com/diagnostics. All other products are For Research Use Only. Not for use in Diagnostic Procedures.

New Features

- Support is added for these medical device systems[2]:
  - Citrine systems
  - SCIEX 4500MD systems
  - ExionLC MD systems
  - Shimadzu LC-40 CL systems
- Support is added for an external Valco valve. (BLT-3867/BLT-5050)

Note: The Reporter software is the same as in the previous version of the SCIEX OS software, but the documentation is updated.

Enhancements

- Analytics workspace: The peak review workflow is faster. (BLT-4888)
- Batch workspace:
  - A new workflow for the Echo® MS+ system with the SCIEX Triple Quad 6500+ system lets users monitor different analytes in each well. This workflow uses target lists.
  - The number of characters in the **Comment** and **Sample ID** columns has increased to 750. (BLT--6635)
- MS Method workspace: The automated compound optimization workflow supports the import of compound information from one system to another system.
- ZenoTOF 8600 systems: MS Tune workspace: Enhancements have been made to the tuning workflows and the status information on the Tuning Status page:
  - Many tuning procedures are available from the Tuning Status page.
  - When the user cancels tuning, the Tuning Status page is shown. The MS Tune workspace does not close.
  - After tuning is complete, a new button lets the user go back to the Tuning Status page.
- Audit Trail workspace: New audit events have been added:
  - **User or group activated**: When **Active user or group** is selected for a user.
  - **User or group deactivated**: When **Active user or group** is cleared for a user.
- License server: The license server supports Windows Server 2025. (BLT-7294)

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Corrections

This release of the software includes corrections for these issues:

- When calibration curves are copied from the Analytics workspace to the Explorer workspace, issues occur. (BLT-6275)
- If Windows is configured to use a custom date format, then an error occurs when a report is printed. (BLT-6388)
- During reprocessing, the formatting that was applied to a column in the Results Table with the `TEXT` function is lost. (BLT-6726)
- In the Queue workspace, if the **If a sample is missing, then proceed to the next sample** option is selected, then acquisition does not stop when a sample is missing. (BLT-6746/ ONYX-42717)
- A page break does not occur before the last sample in a report. (BLT-6787)
- When the peak integration is changed, the Peak Review pane does not update. (BLT-6959)
- If the **Sum Multiple Ions** option is used in a `wiff2` file, then a warning about a components mismatch is shown. (BLT-7009)
- When cells that contain commas are copied and pasted in the Batch workspace, an error occurs. (BLT-7022)
- Echo® MS+ systems: Drift correction causes a failure of automatic splitting. (BLT-7218)
- Echo® MS+ systems: Information about data splitting is not included in the log files. (BLT-7219)
- Intermittently, the diverter valve does not change position as required. (BLT-7223, BLT-7236, BLT-7410, BLT-7459)
- If the acquisition computer is in a domain, then failures occur intermittently during acquisition. (BLT-7224)
- ZenoTOF 8600 systems: For some batches with long durations, the temperature in the sample information is incorrect. (BLT-7242)
- ZenoTOF 8600 systems: If the user clicks  **(Open data exploration to view real time data)** during acquisition with an MS method that uses the SWATH algorithm, then the software becomes unresponsive. (BLT-7248)
- ZenoTOF 8600 systems: The **QJet DP** value shown in the sample information is incorrect. (BLT-7275)
- After a new Results Table is locked and then opened again, the Results Table cannot be opened and a report cannot be created. (BLT-7301)
- The FirmwareUpdater utility does not show the latest firmware for the SCIEX Triple Quad 6500+ system. (BLT-7317)

- If the value for **Injection Volume (µL)** is `N/A`, then the Analytics workspace uses the number –1. (BLT-7357)
- When the **RT Half Window** parameter is changed in the Peak Review pane, the zoom of the X-axis is not updated. (BLT-7368)
- The software opens more slowly than in earlier versions. (BLT-7569)
- After an upgrade to the SCIEX OS software 4.0, the Batch workspace is unresponsive. (BLT-7403)
- A critical security alert is shown for the database software. (BLT-7629)
- Intermittently, decision rules are not triggered. (BLT-7391/ONYX-69302)
- ZenoTOF 8600 systems: Data is lost during acquisition with a TOF MS experiment that has an accumulation time of 0.250 seconds. (BLT-7394)
- When **Peak selection by** is set to **Group**, the region height is incorrect. (MQ-14418)
- Intermittently, acquisition stops because of a device fault with an Agilent device. (ONYX-58914)
- ZenoTOF 8600 systems: For non-IDA methods, the cycle time is different than the cycle time that is shown in the MS Method workspace. (ONYX-62253)

Notes on Use

- For compatibility information, refer to the document: *Software Installation Guide*.
- For specifications for a computer that is not supplied by SCIEX and for troubleshooting information, refer to the document: *SCIEX OS Supplement for Advanced Users*.
- Avoid processing a data file in the Analyst software during acquisition by the SCIEX OS software to that data file. Doing so might cause the software to become unstable and data to be lost. (ONYX-8514)
- To keep the Results Table and Peak Review pane consistent, users must use the same level of precision for the retention time for an analyte and the retention time for an internal standard.
- The TOF MS mass range that is used in ZT Scan experiments has an effect on the update rate for the display in the Data Acquisition panel. If the mass range is very high, for example from 60 Da to 40,000 Da, then one or more minutes might be required to update the display. The delay does not have an effect on data acquisition. (ONYX-65290)

CAC

- The version of the Central Administrator Console (CAC) software that is included in this release supports systems that use the SCIEX OS software 3.0 or later.

LC Devices

- Multiple detectors cannot be used for data acquisition at the same time. (BLT-1146)

ExionLC 2.0 Systems

- If solvent level monitoring is used, then make sure that the current volume is correct, and that the proper warning level and shutdown level are set in the Device Control or Device Details dialog before each batch acquisition. If the current volume must be updated during sample acquisition because the mobile phase is being topped up, then use the solvent levels panel for the pump in the Device Details dialog.
- A sampling rate of only 10 Hz or lower is supported for the ExionLC 2.0 DAD (DAD or DAD-HS) and MWD. An LC method with a sampling rate greater than 10 Hz is not saved.
- When creating a DAD method, make sure that the wavelength for 2D data channels and for the wavelength program are within the wavelength range defined for 3D data mode, even if the 3D data mode is not selected.

ExionLC AC Systems, ExionLC AD Systems, and Shimadzu Systems

- A column oven wait time of 0 means that the oven is READY when it is on. If the wait time is set to 0, then the column temperature set point does not control when injection starts.

Echo® MS Systems and Echo® MS+ Systems

- Because the peaks are narrow, we recommend that the number of transitions be kept to a minimum. For SCIEX Triple Quad 6500+ systems, we recommend that each MRM method have a maximum of four transitions, each with a dwell time of 20 msec, for a total scan time of 100 msec. If a large number of MRM transitions are required, then these guidelines are applicable:
  - In the MS method, adjust the dwell time for each MSMS transition to be a minimum of 20 msec.

    Note: On TOF systems, adjust the accumulation times.

  - Make a note of the total scan time.
  - In the configuration of the AE method, select **Wide** peak mode, and then set the ejection volume and **Rep Rate (Hz)** to the values that are required to get 10 data points with the total scan time in the MS method. For example, use a peak width of 3 seconds with a total scan time of 0.3 seconds.

Echo® MS+ Systems

The Echo® MS+ system has an OPI port wash feature. The following notes are applicable to this feature:

- The default flow rate and duration values for the OPI port wash are applicable for most use cases, wash solvents, and carrier solvents. The default values supply a good starting point for optimization.
- When the OPI port wash completes, the carrier solvent pump continues to supply carrier solvent at the flow rate specified in the last AE method, to prepare the system for acquisition. The pump stops automatically when the mass spectrometer goes to the Standby state.

  During the OPI wash phase, the user can stop the pump manually from the Device Control dialog. To stop the OPI port wash, click **Stop**. The carrier solvent recovery phase completes, and then the pump stops.

  If the OPI port wash stops incorrectly, for example, when the system goes to the Fault state, then the carrier solvent recovery step must be done manually. Do these steps:

  1. Select the **Run Only OPI Carrier Solvent Recovery** option.
  2. If the carrier solvent recovery does not complete, then click **Clear OPI Wash Fault/s**. On the confirmation dialog, click **Yes**.

     Note: To start AEMS acquisition again, clear the Fault status for the OPI wash manually. To make sure that the OPI wash continues to occur correctly, identify and correct the cause of the fault.

Intabio ZT Systems

- To make sure that the mass spectrometer and the Intabio ZT system are synchronized, on the Devices page in the Configuration workspace, select the **Contact Closure** option for the mass spectrometer. If this option is not selected, the mass spectrometer will not wait for a sample to be injected, but will continue with batch acquisition.
- If a failure or error occurs in the mass spectrometer, then the Intabio ZT system gets out of synchronization, and continues to inject samples. If this issue occurs, then stop the batch.
- If a calibration failure occurs, then data acquisition continues. The setting of the **If calibration fails, then proceed to the next sample** option on the Queue page in the Configuration workspace does not have an effect on the behavior.
- If users create new ion reference tables, then to make these ion reference tables available in the **Ion Reference Table** column, they must close the Batch workspace and then open it again.

Agilent Systems

- If an autosampler with a thermostat is installed, then for temperature control to take effect, configure the Variable Temperature Control mode in the device configuration and direct device control.
- If Access Token Required is enabled in the InfinityLab Assist Hub, then click **Allow Access** to connect to the InfinityLab Assist Hub during device configuration.

- To use overlapped injection mode or the Load-Ahead feature, do this:

  1. In the LC method, set a stop time.
  2. Configure the overlapped injection in the LC method, and then in the batch acquisition, select **Enable Load-Ahead**.

  Note:

  - Overlapped injection mode does not support custom injection programs that use the inject function.
  - Batch Automation cannot be used with load-ahead features.
  - If the batch contains multiple LC methods, then the load-ahead feature cannot be configured for the batch.

- The steady-inject feature is only applicable for a multisampler with a multiwash hydraulic box and a 100 µL metered device installed. Before the steady-inject feature can be used on the SCIEX OS software 4.2, the calibration must be done with the Lab Advisor 2.2 software.

Known Issues

Issue	Notes
The Harvard syringe pump goes into Fault status when **Standby** is selected. (ACQ-2193)	To prevent this issue and clear the error, use the Direct Control feature to start the syringe.
SCIEX 7500 systems: Data with a long file path (129 or more characters) cannot be processed with the Analyst software 1.7.2 or the Analyst software 1.6.3 with HotFix 5. Also, the file information for such a data file cannot be fully shown in the Analyst software 1.7.2 or the Analyst software 1.6.3 with HotFix 5. (AN-2250)	To prevent this issue, use the Analytics workspace in the SCIEX OS software to process the data, or use a shorter file path.
If the Flexera Licensing Server is being used for other products, then the SCIEX vendor daemon cannot be run. (BLT-3318)	The Flexera Licensing Server does not allow the same vendor daemon to run simultaneously under different instances on the same server. If the Flexera Licensing Server is being used for other, non-SCIEX products, then add the SCIEX vendor daemon and concurrent license to the existing Flexera Licensing Server.

Issue	Notes
In the Explorer workspace, no progress indicator is shown for activities that require more than 3 seconds. (ONYX-57129)	N/A
If the OCR option is enabled, then issues occur during the printing of large reports: • During report generation for reports that include more than 7,000 chromatograms, an error occurs. (MQ-15082) • If the report contains more than 1,000 graphs when a pane is printed, then the text in the `pdf` file cannot be selected or copied. (ONYX-64189)	To correct this issue, disable the OCR option: 1. In the Configuration workspace, open the General tab. 2. Clear the check box in the OCR Setting section. 3. Click **Save**. 4. Start the computer again. **Note:** If the OCR option is disabled, then text in reports cannot be selected or copied.
ZenoTOF 8600 systems: An error occurs during a firmware upgrade from the CONFIG_ZenoTOF-8600_v30_r02 configuration table to the CONFIG_ZenoTOF-8600_v30_r03 configuration table. (ONYX-67545)	Contact an FSE to do the upgrade.
If the name of the data file path is too long, then data that is acquired with automatic compound optimization is not saved to the network. (ONYX-70667)	Make the compound name, project name, or root directory folder name shorter to keep the path to a maximum of 260 characters.
ZenoTOF 8600 systems: If autocalibration is done during the creation of a customized method batch, then a runtime error occurs. (ONYX-72521)	N/A

Contact Us

Addresses

EC REP	Leica Microsystems CMS GmbH Ernst-Leitz-Strasse 17-37 35578 Wetzlar Germany
UKRP	Leica Microsystems (UK) Ltd 19 Jessops Riverside 800 Brightside Lane, Sheffield S9 2RX, England
	Made in Singapore AB Sciex Pte. Ltd. Blk33, #04-06 Marsiling Industrial Estate Road 3 Woodlands Central Industrial Estate, Singapore 739256
SCIEX Headquarters	AB Sciex LLC 250 Forest Street Marlborough, MA 01752 USA

Customer Training

- Global: sciex.com/contact-us

Online Learning Center

- SCIEX Now Learning Hub

SCIEX Support

SCIEX and its representatives have a global staff of fully-trained service and technical specialists. They can supply answers to questions about the system or any technical issues that might occur. For more information, go to the SCIEX website at sciex.com or use one of the links that follow to contact us.

- 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 supersedes all of the previous versions of this document.

To see 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 that comes with the system or component.

The latest versions of the documentation are available on the SCIEX website, at sciex.com/customer-documents.

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