SCIEX OS Software 4.0.1 Release Notes

Introduction

Thank you for choosing SCIEX to supply your system. We are pleased to bring you the SCIEX OS software 4.0.1, which supports the following 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

- 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

- Echo® MS+ system with the ZenoTOF 7600 system, ZenoTOF 7600+ system, or ZenoTOF 8600 system

- ExionLC 2.0 systems, ExionLC AE systems, and M5 MicroLC systems, and select other LC systems, when purchased from SCIEX

The SCIEX OS software 4.0.1 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 the Analyst TF software 1.7.1 or later.

This document gives a description of 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 4.0.1

This section gives a description of the changes in the SCIEX OS software 4.0.1. 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.

New Features

- Support has been added for the Echo® MS+ system with the ZenoTOF 8600 system.

Corrections

MS Tune Workspace

This release of the software includes corrections for these issues for ZenoTOF 8600 systems:

- A failure occurs during the Acquire ADC Model step in the detector tuning procedure. (ONYX-67059)

- The electron-activated dissociation (EAD) and Zeno optimization procedures are not optimized. (ONYX-65912)

- The System Contamination Check procedure is not optimized. (ONYX-65910)

This release also includes the corrections that were included in SCIEX OS 4.0 HotFix 1.

SCIEX OS 4.0 HotFix 1

- In the Analytics workspace, the noise region cannot be moved to the right of a peak. (BLT-7137)

- After an upgrade of the Central Administrator Console (CAC) software is completed, the user settings for a workgroup are not migrated. (BLT-7139)

- If the user selects a sample on the Samples tab and then selects a different analyte on the Components and Groups tab, then the sample selection goes back to the lowest indexed sample. (BLT-7134)

- If the formula for a calculated column includes a column that contains whole numbers and the result of the calculation is more than the maximum integer limit of 2,147,483,647, then the value that is shown in the Results Table is incorrect. (MQ-14466)

- ZenoTOF 8600 systems:

  - A long batch that contains ZT scan methods stops when an acquired sample is opened in the Explorer workspace. (ONYX-62998)

  - The valve model goes into Fault status when activated. (ONYX-63264)

  - If an error occurs during acquisition of ZT Scan data, then samples for which acquisition looks to be completed after the error do not contain data. (ONYX-63265)

  - Reliability issues occur during the acquisition of ZT scan methods. (ONYX-64292)

  Note: A firmware revision is supplied for the ZenoTOF 8600 system. The firmware must be updated by a SCIEX field service employee (FSE). (ONYX-64056)

- QTRAP 6500+ systems with ICB4 and the oil-sealed roughing pump: An incorrect firmware configuration table might cause a low signal (BLT-7209).

Note: A firmware configuration table update is supplied for the QTRAP 6500+ system. (ONYX-64056)

Notes on Use

- For compatibility information, refer to the *Software Installation Guide*.

- 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.

CAC

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

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, ExionLC AD, 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 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 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 4.0.1, 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.
When the SCIEX OS software runs unattended, it shows an error dialog. (ONYX-40401)	Click **Yes** to close the dialog. The SCIEX OS software stays open, and no data is lost.
Acquisition stops intermittently because of a device fault with an Agilent device. (ONYX-58914)	N/A
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, ONYX-61930)	Agilent LC systems: To prevent this issue, in the settings for the controller, set **On missing vessel** to **Abort Current Sequence**. Waters LC systems: To prevent this issue, in the preferences for the sample manager, select **Injection fails on error**.
In the Explorer workspace, no progress indicator is shown for activities that require more than 3 seconds. (ONYX-57129)	N/A

Issue	Notes
In the Batch workspace, if the user adds the MS method, AE method, vial information, and Results file for a sample, clicks **Plate Layout**, selects vials, and then clicks **Close**, then the SCIEX OS software closes. (ONYX-66389)	This issue occurs only if a Results file is used.

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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.

Note: To request a free, printed version of this document, contact sciex.com/contact-us.