

# MPX 2.0 HotFix 4 Release Notes



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## Introduction

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

## New in MPX 2.0 HotFix 4

## Enhancements and Fixed 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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The HotFix fixes these issues:

- The software incorrectly detects that the methods used for stream 1 and stream 2 are not identical, resulting in run time delays. (MPX-531)
- In rare cases, when Walk-up mode is used in the MPX 2.0 driver software with HotFix 3, a timing issue between the Analyst software and the MPX driver software will cause the batch to fail and the chromatogram corresponding to a sample acquired on one LC stream to be stored in the wiff data file for a sample acquired on the other LC stream. This issue does not affect other versions of the MPX driver software. (MPX-532)

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

### HotFix 3

- Very intermittently, the acquisition might fail due to a timing issue. This issue might occur if acquisition of the current sample completed while the Analyst software was still processing the last function call from the MPX driver software. The issue was mainly observed on stream 1, because the time gap between the stream 1 and stream 2 acquisition windows is typically shorter than the time gap between the stream 2 and stream 1 acquisition windows. (MPX-526).
- Acquisition might fail due to certain timing conditions of a lengthy function call to the Analyst software to obtain sample information from the batch. This failure might occur with a message in the log indicating a CPU freeze (MPX-526).

### HotFix 2

- The psi pressure limit for the ExionLC AC system has been changed from 6,295 psi to 9,500 psi. The bar pressure limit has been changed from 434 bar to 655 bar. (MPX-494)
- Support has been added for both time-based and volume-based wash modes. Users can enable either of these wash modes in the Settings workspace. (MPX-503)
- Five PAL3 RSI autosampler method parameters are available in the Settings workspace. (MPX-505)
  - **Drawer Number Offset:** This parameter is used to calculate the starting drawer number for samples injected from sample stack 2 on a PAL3 RSI autosampler. If sample stack 1 contains 3 drawers, then set this field to 4. If sample stack 1 contains 6 drawers, then set this field to 7. By default, this field is set to 4.
  - **Wash Mode:** This parameter is used to define the way that the wash solvent is delivered during the wash cycle following sample injection. The volume-based mode uses the syringe to dispense the defined wash volume. The time-based mode uses flow from the wash pumps. To set the amount of solvent to be used by volume, select **Volume Based**. To set the amount of solvent to be used by pumping time, select **Time Based**. By default, **Volume Based** is selected.
  - **Leave Drawer Open:** If an uncooled sample stack is being used, then selecting this parameter helps reduce injection cycle time, and, therefore, improves sample throughput. By default, this check box is cleared.
  - **Enable Clog Detection:** When selected, this parameter is used to monitor the back pressure for any increases in pressure that might be caused by a clogged injector valve. If a clog is detected, then an error is reported and the current sample acquisition will be terminated. By default, this check box is cleared.
  - **Enable Needle Dip:** When this parameter is selected, the syringe needle is dipped in a wash solvent 1 station to remove any remaining sample from the needle tip. While this option can minimize injector valve contamination, it introduces an extra step in the injection cycle and, therefore, increases the injection cycle time. By default, this check box is cleared.
- Previous releases of the MPX driver software required a user to acquire a set of standards to generate a calibration curve for each batch submitted through the Walk-Up workspace. This HotFix allows the user to submit a batch through the Walk-Up workspace and use a calibration curve from a current or previously-generated qsession file. A **QSession File** field has been added in the Walk-Up workspace, where the user can browse to and select the qsession file containing the calibration curve to be used. (MPX-514)
- The *Carryover Detection Tutorial for the MPX Driver Software* is installed in the Program Files (x86)\SCIEX\MPX Driver\Help folder. The tutorial can also be accessed through the Start menu.

**HotFix 1**

- Support for the ExionLC AC system has been added. For instructions on working with the ExionLC system configuration, refer to the procedures provided for the Shimadzu Prominence configuration. The workflows for the ExionLC system and the Shimadzu Prominence system are the same.
- In very rare cases, the MPX driver software did not terminate the batch if the duration of data acquisition on an LC stream was longer than expected by the MPX driver software. In these cases, the MPX driver software would continue, and start acquisition on the other stream even though acquisition on the first stream was not completed. This created the potential for results to be assigned to the incorrect sample. (MPX-474)
- The needle height of the CTC RSI autosamplers (PAL3) can be adjusted for different plates and vials. (MPX-478)

**Patch for No-Oven Configuration Support**

- In the MPX 2.0 driver software, the acquisition will not start until the column oven reaches the temperature set in the method. This feature, which makes sure that the run does not begin until the column oven is ready, requires a column oven to be configured in the hardware profile. This patch provides an option to run the MPX driver software samples as expected on a system without a column oven in the hardware configuration (MPX -477). If a column oven is present, then the oven temperature can be set to a value between 4 °C and 85 °C. If a column oven is not present, then the oven temperature must be set to 0 °C in the MPX driver software Method Editor.

**Patch for Timing Issue**

- Intermittently, acquisition might terminate unexpectedly as a result of synchronization issues between the Analyst software and the MPX driver software. (MPX-489)

**Known Issues and Limitations**

- N/A

# Installation

## Install the HotFix

Prerequisites
<ul style="list-style-type: none"><li>The MPX 2.0 software is installed.</li></ul>
<p><b>Note:</b> This HotFix is compatible with all previous HotFixes and patches for the MPX 2.0 software, and can be installed on computers on which these HotFixes and patches have been installed. The previous HotFix and patches are removed silently during installation of this HotFix.</p>



- Log on to the computer as a user with Administrator privileges.

<p><b>Note:</b> The same user account that was used to install the Analyst software and the MPX 2.0 driver software should be used to install the MPX 2.0 HotFix 4.</p>
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- Make sure that the computer language is set to **English (United States)**. Refer to the section: [Set the Computer Language to English \(United States\)](#).
- Stop any acquisitions that are in progress and then deactivate the hardware profile.
- Close all applications.
- Stop the **AnalystService** and the **MPX.Service**. Refer to the section: [Stop the Services](#).
- Download **MPX 2.0 HotFix 4** from [sciex.com/software-support/software-downloads](https://sciex.com/software-support/software-downloads).

<p><b>Tip!</b> To prevent potential installation issues, save the file to a location other than the computer desktop and disconnect any external USB storage devices before starting the installation.</p>
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- After the download is complete, right-click the **MPX\_2.0\_HotFix\_4.zip** file.
- Click **Extract All**, select the file destination folder, and then click **Extract**.
- After the extraction is complete, browse to the extracted folder and double-click the **setup.exe** file.
- Follow the on-screen instructions to complete the installation.
- Restart the computer.
- After the installation is complete, do this to make sure that the HotFix is installed:

- a. Open Control Panel and then click **Programs and Features**.
  - b. Make sure that **MPX 2.0 HotFix 4** is shown in the list of programs.
  - c. Close Control Panel.
13. Open the Analyst software and then activate the hardware profile. Refer to the documentation for the Analyst software.

## Remove the HotFix

1. Log on to the computer as a user with Administrator privileges.
2. Deactivate the hardware profile in the Analyst software.
3. Close all applications.
4. Open Control Panel and then click **Programs and Features**.
5. Select **MPX 2.0 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 MPX 2.0 software version.

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**Note:** Any HotFix or patches that were removed during installation of the MPX 2.0 HotFix 4 are not restored.

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

## Installed and Updated Files

This HotFix updates files in the following folders.

### C:\Program Files (x86)\SCIEX\MPX\Bin

- MPX.Utility.dll (updated)
- MPX.Config.dll (updated)
- MPX.Core.dll (updated)
- MPX.LCController.dll (updated)
- MPX.Service.exe (updated)

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- MPX.UI.exe (updated)
- Sciex.MultiQuant.Auditing.dll (updated)
- Sciex.MultiQuant.Common.dll (updated)
- Sciex.MultiQuant.Data.dll (updated)
- Sciex.MultiQuant.Outliers.dll (updated)
- Sciex.MultiQuant.RTD3.Client.dll (updated)
- Sciex.MultiQuant.RTD3.dll (updated)
- Sciex.MultiQuant.Security.dll (updated)

### **Program Files (x86)\SCIEX\MPX Driver\bin\Device Driver**

- MPX Driver Diagnostics.exe (updated)
- Multiplex Device Interface.dll (updated)
- Multiplex Device Server.exe (updated)
- Multiplex Device Server.ini (updated)

### **Program Files (x86)\SCIEX\MPX Driver\Help**

- MPX 2.0 HotFix 4 Release Notes.pdf (added)
- Carryover Detection Tutorial for the MPX Driver Software (added)

### **ProgramData\SCIEX\MPX Driver\Config**

- WashOptions.xml (updated)

### **ProgramData\SCIEX\MPX Driver\PAL3**

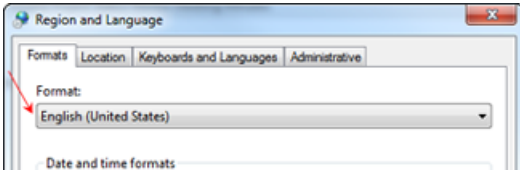
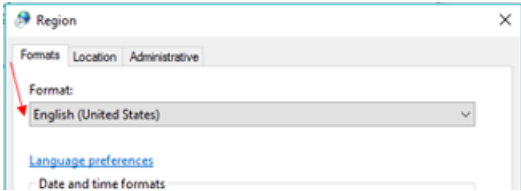
- Stream 1 method.pmx (removed)
- Stream 1 Method Time Based.pmx (updated)
- Stream 1 Method Volume Based.pmx (updated)
- Stream 2 method.pmx (removed)
- Stream 2 Method Time Based.pmx (updated)
- Stream 2 Method Volume Based.pmx (updated)
- WashOptions\_Time.xml (updated)
- WashOptions\_Volume.xml (updated)

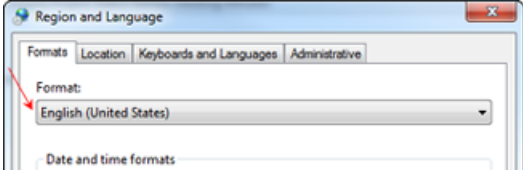

ProgramData\SCIEX\MPX Driver\PAL3 Config

- Multiplex.ini (updated)
- WashOptions.xml (updated)

# Set the Computer Language to English (United States)

1. Open Control Panel.
2. Do one of the following:

On computers configured with the Windows 7 operating system ...	On computers configured with the Windows 10 operating system ...
Category View	
<div>a. Click <b>Clock, Language, and Region &gt; Region and Language</b>. The Region and Language dialog opens.</div> <div>b. On the Formats tab, make sure that the <b>Format</b> field is set to <b>English (United States)</b>.</div> <div><b>Figure 1 Region and Language Dialog</b> </div> <div>c. Click <b>Apply</b> and then click <b>Close</b>.</div>	<div>a. Click <b>Clock, Language, and Region &gt; Region</b>. The Region dialog opens.</div> <div>b. On the Formats tab, make sure that the <b>Format</b> field is set to <b>English (United States)</b>.</div> <div><b>Figure 2 Region Dialog</b> </div> <div>c. Click <b>Apply</b> and then click <b>Close</b>.</div>

On computers configured with the Windows 7 operating system ...	On computers configured with the Windows 10 operating system ...
<b>Large icons or Small icons View</b>	
<p>a. Click <b>Region and Language</b>. The Region and Language dialog opens.</p> <p>b. On the Formats tab, make sure that the <b>Format</b> field is set to <b>English (United States)</b>.</p> <p><b>Figure 3 Region and Language Dialog</b></p>  <p>c. Click <b>Apply</b> and then click <b>Close</b>.</p>	<p>a. Click <b>Region</b>. The Region dialog opens.</p> <p>b. On the Formats tab, make sure that the <b>Format</b> field is set to <b>English (United States)</b>.</p> <p><b>Figure 4 Region Dialog</b></p>  <p>c. Click <b>Apply</b> and then click <b>Close</b>.</p>

## Stop the Services

1. Open Control Panel.
2. Do one of the following:
  - In the **Category** view, click **System and Security > Administrative Tools**.
  - In the **Large icons** or **Small icons** view, click **Administrative Tools**.

The Administrative Tools window opens.
3. Double-click **Services**.  
The Services window opens.
4. Right-click **AnalystService** and then click **Stop**.
5. Right-click **MPX.Service** and then click **Stop**.
6. Close the Services window.



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### Documentation

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

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