Analyst 1.7.3 HotFix 2 Release Notes

Introduction

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

New in Analyst 1.7.3 HotFix 2 Release Notes

Enhancements

HotFix 2 includes the enhancements that were included in the Analyst 1.7.3 HotFix 1 as well as support for the VICI Valco valve 2-position 10-port: UMDA-C10W.

Analyst 1.7.3 HotFix 1 Enhancements

The following enhancements were included in the Analyst 1.7.3 HotFix 1.

- The option to use the deployment tool to do a new install the Analyst software 1.7.3 with the AAC security database is supported.
- Microsoft Office 2021 is supported. For a list of other supported versions of Microsoft Office, refer to the software installation guide for the Analyst software 1.7.3.
- A new plate layout for the Shimadzu LC-40 autosamplers is now available.

  The Alpha Deep Well MTP 96 plate, a 96 deep well plate layout with alphanumeric numbering starting from the bottom left of the plate, horizontally, is supported for the Shimadzu LC-40 autosamplers. (AN-2758)
- A new plate layout is now available for the Shimadzu SIL-30AC and SIL-30ACMP autosamplers configured through the Integrated System Shimadzu LC Controller or the Integrated System Shimadzu LC-20/30 Controller, with or without the RackChanger.

  The Alpha Deep Well MTP 96 plate, a 96 deep well plate layout with alphanumeric numbering starting from the bottom left of the plate, horizontally, is supported. (AN-2223)
- The SIL-30ACMP autosampler can now be controlled using a Shimadzu LC-40 controller (AN-2707, AN-3037)
- The Analyst Administrator Console (AAC) 3.1 client is installed with the installation of Analyst 1.7.3 HotFix 1. (AN-2836)
- The ExionLC 2.0 system firmware has been updated.

  Contact sciex.com/request-support to update the device firmware.

  - Use firmware version 6.21 for ExionLC 2.0 column switching valves.

- Use firmware version 1.23 for ExionLC 2.0 autosamplers.

Fixed Issues

The Analyst software stopped working when users printed from the File > Print > Workspace

If data, such as methods or Results Tables, was printed from the **File** > **Print** > **Workspace**, then the Analyst software stopped working even though the data was printed successfully. There is no issue if users print from the **File** > **Print** > **Window** or **File** > **Print** > **Pane**. (AN-2079)

The Quantitation Wizard added an incorrectly selected sample if one of the datafiles had a checksum error

In Quantitation Wizard, if users clicked **Add All Files** to add multiple datafiles to the **Selected Samples** list, and if one of the datafiles had a checksum error, then the datafile with a checksum error was not added but the sample from the next datafile that had a valid checksum or had no checksum was added twice. (AN-1653)

If data was being acquired with the Shimadzu or ExionLC PDA module in 2D mode with the slow sampling rate, then data acquisition occasionally stopped at the end of the run and did not move to the next sample

If an acquisition method that included a Shimadzu or ExionLC PDA module used the slow sampling rate, such as 2000 ms in 2D mode, to acquire data, then acquisition might have become stuck at the end of the run and did not move to the next sample in the batch. (AN-2980, AN-2975)

Users assigned a non-administrator role that had Overwrite Acquisition method access enabled but did not have delete rights enabled for the Analyst Data folder could not overwrite methods in Tune and Calibrate mode

A user with a non-administrator role that had **Overwrite Acquisition method** access enabled but did not have delete rights enabled for the Analyst Data folder could overwrite acquisition methods in Acquisition mode but not in Tune and Calibrate mode. (AN-2732)

If an internal standard was defined in the second period, then it could not be selected for use in the first period in the Analyst software 1.7.3 quantitation methods

If a user was making a quantitation method in the Analyst software 1.7.3 with or without HotFix 1 installed, then if the internal standard was defined in the second period, it could not be selected for use in the first period. (AN-2979)

Corrupted audit trail records might have been shown when special characters were used in the Change Description

If special characters such as a carriage return or a new line were used in the **Change Description** for an audited event, then corrupted audit trail records might have been shown. (AN-2733)

The Analyst software audit trail records showed the full name of the user instead of the display name

In the Analyst software versions 1.7.2 and 1.7.3 with or without HotFix 1 installed, the **Full User Name** field in the audit trail records showed the full names of the users instead of the **Display Names** that were stored in the Windows Server Active Directory. This behavior was different from what was shown in versions before 1.7.2. After the fix, the **Display Names** are shown in the **Full User Name** field in audit trail records. (AN-2447)

The File Info might show incorrect information for some Agilent pumps that were directly controlled by the Analyst software

If Agilent 1260 pumps were directly controlled by the Analyst software and not controlled using the Analyst Device Driver, then the values for the **Max Pressure Ramp** and **Max Flow Ramp** reported in the File Info were interchanged. In addition, the **Max Flow Ramp Up** and **Max Flow Ramp Dn** information was shown in the File Info for all Agilent pump models that were directly controlled by the Analyst software even though they only applied to the Agilent 1290 G4220A and Agilent 1290 G4220B pump models. (AN-2754)

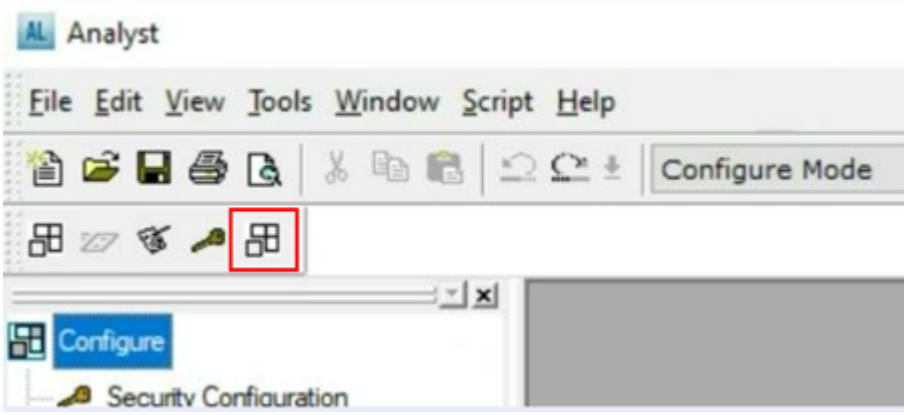
A target project was not made if there was a double backslash in the middle of a network path for the Project Source Directory and Project Destination directory

The Analyst software does not generate a double backslash (\\) in the middle of a network path for a project. However, for some reason, if the user copied a project in the Analyst software, and if a \\ was in the middle of a network path in both the **Project Source Directory** and **Project Destination directory** fields, then the Analyst software was unable to make the target project. The workaround was to replace the double backslash (\\) with a single backslash in the **Project Source Directory** field. (AN-2568)

The toolbar in the Analyst software did not refresh correctly after the user clicked the icon for the Administrator Console Connectivity Settings.

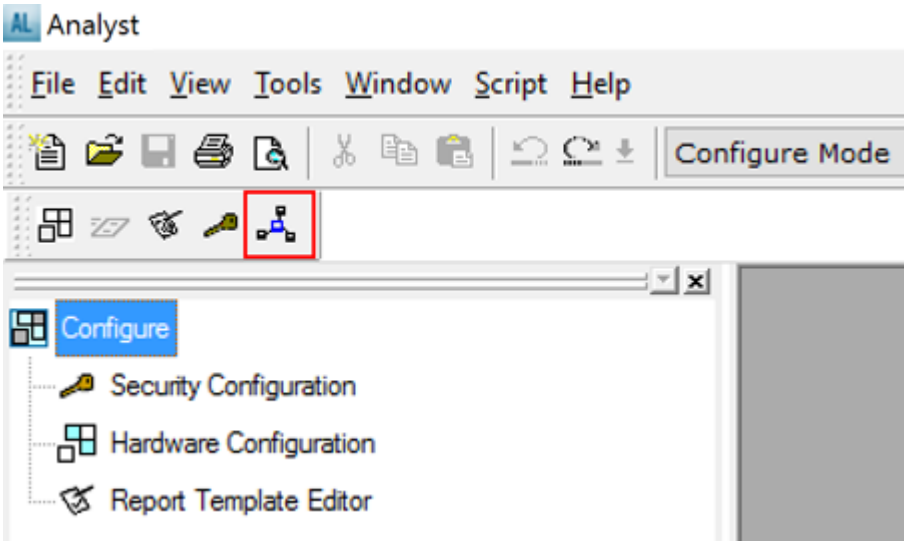
In **Configure** mode, after the user clicked the icon for the **Administrator Console Connectivity Settings** in the toolbar, the right side of the toolbar, where there are no toolbar icons, could not be seen.

Figure 1 AAC Icon (Old)



This issue is fixed in this release. This HotFix introduces a new icon, shown in the following figure, for the **Administrator Console Connectivity Settings** and a tooltip, **AAC settings**.

Figure 2 AAC icon (New)



(AN-1204)

Positive and negative spikes could have been shown in PDA data acquired in 2D mode

If PDA data was acquired in 2D mode with a Shimadzu SPD-20 or SPD-30 configured through the Integrated System LC-20/30 Controller, or a Shimadzu SPD-40, or an ExionLC PDA, then positive and negative spikes could have been shown if the acquisition method used a high sampling rate and included more than one channel. (AN-3022)

A user could still use the Analyst software in Mixed Mode after the Analyst software had been screen locked

If a user logged on to the Analyst software workstation using a VPN, or disconnected from the network when the Analyst software screen was locked, then an `Unspecified error` message was shown. If the user waited for approximately 20 seconds, and then clicked **OK** in response to the error message, then the unlock screen dialog was shown. However, the user still could use the Analyst software while the unlock screen dialog was shown. (AN-3004)

Users might have not been able to edit or create report templates in Microsoft Office

On a workstation with Microsoft Office 2013, 2016, 2021 or Office 365 installed, and with a very high level of security policy applied, users might have gotten a certificate error for `TemplateContentControlManager.vsto` when they tried to open any reporter template for the first time on the computer. As a result, this add-in required for editing templates could not be installed because the file `TemplateContentControlManager.vsto` was not digitally signed. After this HotFix is installed, users can install this add-in with Microsoft Office 2013, 2016, 2021 or Office 365. Users can also edit or make a report template in Microsoft Office 2013, 2016, and 2021. Depending on the version of Office 365, users might not be able to edit or make a report template in Office 365. If this issue occurs, then contact sciex.com/request-support. For more information, refer to the section: Notes on Use. (AN-3202)

The Analyst Reporter might have grouped some analytes incorrectly and might not show data for some of the analytes

This issue occurred if analytes that belonged to different analyte groups had names that started with the same characters and one of these analytes ended in 1. For example:

- Morphine 1
- Morphine 2
- Morphine Dihydro 1
- Morphine Dihydro 2

These analytes should be in two separate analyte groups, but the Analyst Reporter incorrectly put all of the analytes in one group. In addition, some of the analytes were not printed in the report. Instead, one of the analytes was reported multiple times to replace those that were not reported.

After the fix is installed, if analytes are to be included in same analyte group, then the analyte names must end with a space and then an integer, and the characters from the start of the analyte name to immediately before the last space character must be the same. Analyte names have always been case sensitive. Thus, Morphine 1 and Morphine 2 are in the same group, and Morphine Dihydro 1 and Morphine Dihydro 2 are in the same group. However, analytes with names such as QAXL 357 1 and QAXL 225 2 would not be in the same group. To put these analytes in the same group, the user must rename the analytes. (AN-1645)

If a Reporter template was made with a newer version of Microsoft Word, then an extra empty line might be printed for each analyte or sample

SCIEX has tested versions of Microsoft Word from 2016 and 2021. If the **For Each** tag was used in a Reporter template that was made with a newer version of Microsoft Word, then the printed Results Table report might contain an extra empty line for each analyte or sample. If the **If** condition was not met for some analytes or samples, then the report contained a large blank space between analytes or samples, depending on how many samples or analytes did not meet the condition. This issue occurred because newer versions of Microsoft Word introduced a hidden empty line after the **For Each** tag. The empty line could not be removed when the template was made because the line was hidden. (AN-3104)

The exported text file and PDF file for a Results Table showed an error if the Analyte Slope Baseline column data started with a -7

If a value in the **Analyte Slope Baseline** column of a Results Table started with –7, for example `-7.0054e001`, then the exported text file and PDF file of the Results Table showed `#DIV/0!` for that value. (AN-3254)

Issues Fixed in HotFix 1 and Included in this HotFix

Shimadzu LC-40 systems: The Analyst software batch stopped intermittently if non-default values for the autosampler rinse mode and rinse method were selected

If the Shimadzu LC-40 system was used with the Analyst software 1.7.3, then the batch might stop if, in the LC method, `non-default` values were selected for the autosampler rinse mode and rinse method. (AN-2901)

Batch submission failed when a specified rack was selected in the acquisition method for Shimadzu 20/30 autosamplers that had a rackchanger configured for use

If a Shimadzu autosampler with a rackchanger that was configured for use through the Integrated Systems Shimadzu LC20/30 Controller was used, then the batch submission failed if the **Specify Rack** option was selected in the acquisition method. (AN-1806)

Batch submission might have failed if a specified rack was selected in the acquisition method for Shimadzu 20/30 autosamplers that did not have a rackchanger configured

If a Shimadzu autosampler that did not have a rackchanger configured through the Integrated Systems Shimadzu LC20/30 Controller was used, then the batch submission failed if the **Specify Rack** option was selected and **Rack 1.5 mL 105 vial** or **Rack 1.5 mL 70 vials** was used in the acquisition method. (AN-2805)

If the Analyst Classic quantitation algorithm was used to quantitate poorly separated small peaks, then a smaller peak area than expected might be calculated when an atypically large value for the Separation Height or Separation Width was used for integration

If the Analyst Classic quantitation algorithm was used to calculate the area of a small peak that is on the shoulder of a large peak that eluted before or after the small peak, then the automatic integration that used an atypically large value for the **Separation Height** parameter, such as `0.6` (default is `0.01`), or the **Separation Width** parameter, such as `4.0` (default is `0.2`) could

cause the peak area to be calculated with a lower value than if the peak area was integrated manually.

This issue might only occur if peaks that are not well separated are integrated. The issue has been fixed for any Results Table that is made using the Analyst 1.7.3 HotFix 1 or later. If a Results Table was created using the Analyst software, version 1.7.3 or an earlier version, then opening or editing the Results Table or updating other integration parameters in Analyst HotFix 1 or a later version will not cause the new peak area calculation. To update the calculation for an analyte, in the Results Table, change the quantitation method by removing the analyte and then adding the analyte back. Click **Tools** > **Results Table** > **Modify Method**. The peak area will be calculated for the newly added analyte. (AN-2844)

In the Analyst Administrator Console (AAC) users could add projects from multiple Project Roots but the Analyst software could only access projects from one Project Root

In the AAC, the **Workgroup** > **Projects** node let projects from multiple Project Roots be added. However, in the Analyst software, only projects in the Project Root that was created first were accessible by the user. In the Analyst 1.7.3 HotFix 1 and later versions, the user can access projects from different Project Roots using the Root Selection dialog when the Analyst software is opened. (AN-2565)

Opening the File Info pane when multiple data files were open in the Analyst software Explore mode might slow system performance

If different data files were open in Explore mode, if each of the data files had File Info open, and if the user clicked **Show Next Sample**, **Show Previous Sample**, or **Go To Sample** to move to a different sample for one of the data file windows, then the system performance might be slow when the File Info pane was updated. (AN-2843)

Deactivating a hardware profile that included the ExionLC 2.0 system might intermittently fail

Intermittently, when a user tried to deactivate a hardware profile that included the ExionLC 2.0 system, the following error messages are shown: `The remote procedure call failed` or `The RPC server is unavailable`. To resolve this issue, close and then open the Analyst software. (AN-2766)

Analyst 1.7.3 Patch for Shimadzu LC30 & LC40 Plate Layout (AN-2771)

This patch is included in HotFix 1. The patch gives support for a new plate layout for the Shimadzu SIL-30ACMP and Shimadzu SIL-30AC autosamplers configured through the Integrated System Shimadzu LC Controller or the Integrated System Shimadzu LC-20/30 Controller, and for supported Shimadzu LC-40 autosamplers (AN-2223, AN-2758).

- 96 deep well plate layout with alphanumeric numbering starting from the bottom left of the plate. The following Rack Codes are available in the Batch Editor:
  - Shimadzu SIL-30ACMP and SIL-30AC: Alpha Deep Well MTP 96
  - Shimadzu LC-40 autosamplers: Alpha DWP 96

The following are applicable when the new plate is selected for the Shimadzu SIL-30ACMP and Shimadzu SIL-30AC autosamplers, or for a supported Shimadzu LC-40 autosampler:

- The locations in the Batch Editor are assigned numeric values, arranged horizontally.
- The Batch Editor supports the "fill down" feature.
- The Batch Editor can export to `txt` and `csv` files.
- The Batch Editor can import from `txt` and `csv` files.

Notes on Use

The Print Automatically function in Analyst Reporter does not print HTML reports

If Analyst Reporter is used to make reports and the output format **Html** is selected, then do not select the **Print Automatically** check box. Although an HTML report can be created successfully, the **Print Automatically** function does not operate because of limitations in the Windows 10 operating system. To print documents automatically, select the **Word** or **Pdf** output format. If the output format is PDF and **Print Automatically** is selected, then make sure that Adobe Reader is set as the default program to open PDF files. (AN-3279)

File Info has been changed for the VICI Valco 2-position 10-port valve

For data files acquired in Analyst 1.7.3 HotFix 2 or later, the following updates have been made to the information for the Valco valve in the File Info:

- **ver** has been changed to **FW version**, and the firmware version of the device is shown in the **FW version** field. Previously, the **ver** field was empty and the firmware version was shown in the **S/N** field.
- N/A is shown in the **S/N** field, because the serial number is not available from the Valco valve firmware. Make sure to record the device serial number from the hardware label. (AN-3220)

Workstation recommendations

If a customer-supplied computer is used with the system, then a best effort will be made to support and troubleshoot any issues. However, in some cases, a standard SCIEX-supported computer configuration will be required for further investigation.

Network Environment

The Analyst software supports the Windows-based LAN networks.

File Server

The Analyst software only supports Windows-based file servers. We recommend that the file server be in the same building as the mass spectrometer. Contact Microsoft or the hardware and software vendors for specification recommendations.

Note: Previously, Windows Server 2008 R2 and 2012 were specifically mentioned. During testing we have found that compatibility is not version-dependent.

Microsoft Office compatibility

Microsoft Office 2013, 2016, or 2021 is required to make, open, or edit the report templates used in the Reporter software. The Analyst software is compatible with Microsoft Office 365 for all functions except creating, opening, and editing the report templates used in the Reporter software.

Shimadzu LC-40 PDA (SPD-M40) data might show small artificial regular spikes using firmware version 2.00

If firmware version 2.00 is used for the Shimadzu SPD-M40 detector, then the data might show small artificial regular spikes. The frequency of the spikes or valleys is related to the sample speed of the PDA method. Make sure to use firmware (ROM) version 2.07 or higher for the Shimadzu SPD-M40 detector.

Different autosamplers permit different injection volume ranges and precisions

The injection volume controls the different precisions permitted for each autosampler. If an invalid injection volume is entered, even if it is in the permitted injection volume range, then the acquisition does not start as per the LC driver design. For example:

For the ExionLC AC autosampler, the injection volume setting range and permitted increment and precision is shown in the following table:

Table 1 ExionLC AC Autosampler Injection Volume Setting

Injection volume setting range	0.1 µL to 50 µL (standard), 0.1 µL to 100 µL (optional) 0.1 µL to 0.9 µL in 0.1 µL increments, 1 µL to 100 µL in 1 µL increments)

For the ExionLC AD autosampler, the injection volume setting range is shown in the following table:

Table 2 ExionLC AD Autosampler Injection Volume Setting

Injection volume setting range	Total injection	0.1 µL to 50 µL 0.1 µL to 9.9 µL: 0.1 µL increments; 10 µL to 50 µL: 1 µL increments

Table 2 ExionLC AD Autosampler Injection Volume Setting (continued)

	Loop injection	Select either loop of 5 µL or 20 µL capacity. 0.1 µL to 9.9 µL: 0.1 µL increments; 10 µL to 20 µL: 1 µL increments

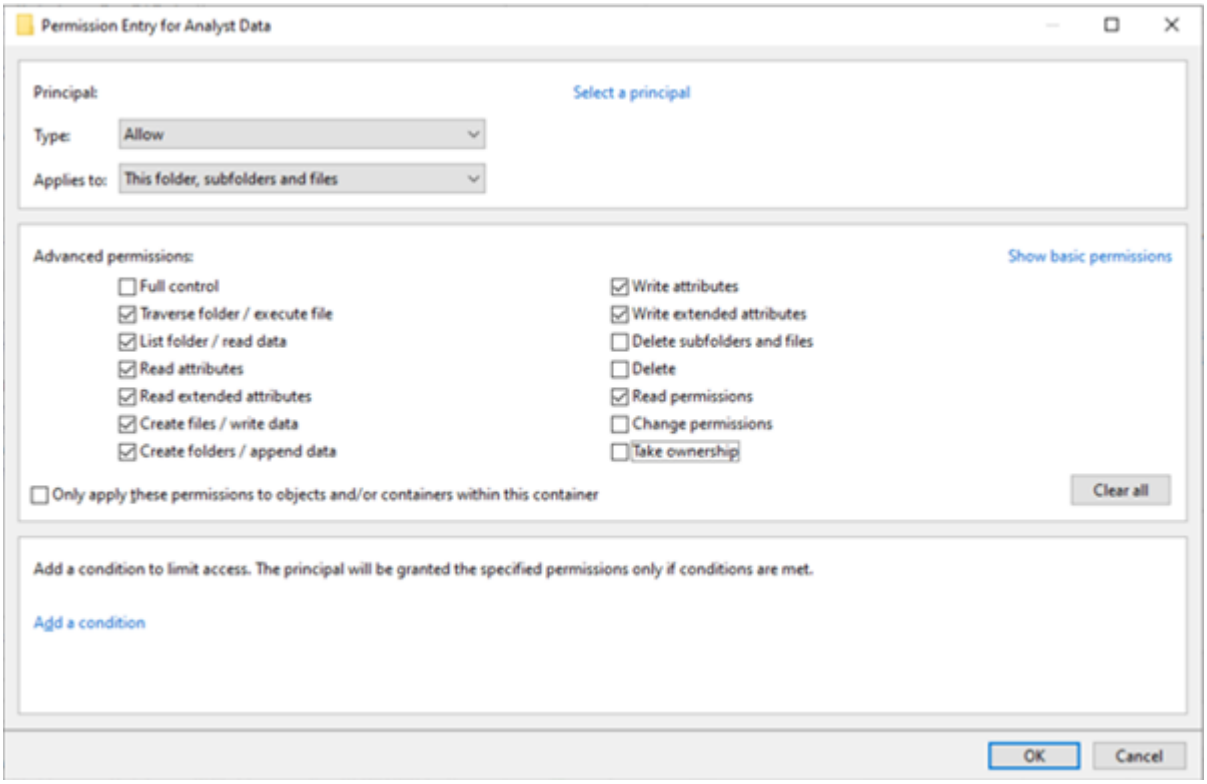
For a Shimadzu autosampler, refer to documentation that came with the autosampler.

The minimum advanced permissions required by the Analyst software to store a result file

For the minimum permissions required to store a result file, refer to the following figure. (AN-1994)

Note: If the Analyst software user is in multiple domain user groups, then the folder permission for the user is a cumulation of the permissions assigned to each of these groups.

Figure 3 Permission Entry for Analyst Data Dialog



As of Analyst 1.7.3 HotFix 2, the grouping behavior for analytes in the Analyst Reporter has changed

If analytes are to be included in same analyte group, then the analyte names must end with a space and then an integer. Characters from the start of the analyte name to immediately before the last space character must be the same. Analyte names have always been case sensitive. Thus, Morphine 3 and Morphine 4 are put in the same group, and Morphine Dihydro 1 and Morphine Dihydro 2 are put in the same group. However, analytes with names such as QAXL 357 1 and QAXL 225 2 would not be put in the same group. To put these analytes together, the user must give the analytes a different name.

Before, analytes that belonged to different analyte groups, had names that started with the same characters, and one of these analytes ended in 1 were put in the same group. For example:

- Morphine 1
- Morphine 2
- Morphine Dihydro 1
- Morphine Dihydro 2

(AN-1645)

Each time a hardware profile is activated, the time stamp of its `hwpf` file in Windows Explorer changes.

By design, when a hardware profile is activated, the time stamp of its `hwpf` file changes. This is because specific parameters must be read from the mass spectrometer and the hardware profile manager to update the `hwpf` file during the activation process. (AN-1803)

Network acquisition: Special Acquisition Administrator Account

If the **Special Acquisition Administrator Account** option is not used for network acquisition, then the user logged on to the Analyst software must have **Delete** rights for the `WIFF_CACHE_BACKUP` folder in the `D:\Analyst Data` folder. If the **Special Acquisition Administrator Account** option is selected for network acquisition, then the user logged on to the Analyst software does not need access rights to the `WIFF_CACHE_BACKUP` folder in `D:\Analyst Data` folder. However, the **Special Acquisition Administrator Account** must have, at a minimum, **Modify** rights, with **Delete** rights, included for the `WIFF_CACHE_BACKUP` folder. For more information about the **Modify** permission, refer to the following figure. (AN-1994)

Figure 4 Advanced Permissions

For more information about the **Special Acquisition Administrator Account**, refer to the Analyst software 1.7.3 document: *Laboratory Director Guide*.

The ExionLC 2.0 software driver is not reverted to the version installed by the Analyst software 1.7.3 after the Analyst 1.7.3 HotFix 2 is removed

When the Analyst 1.7.3 HotFix 2 is removed, the ExionLC 2.0 software driver version 1.0.0.91 stays. The driver is not reverted to version 1.0.0.83, which was installed with the Analyst 1.7.3 software. If the ExionLC 2.0 system is to be used with the Analyst software 1.7.3, then remove the Analyst software 1.7.3 first, and then install the Analyst software 1.7.3. (AN-2910)

Acquisition methods containing four pumps and created in a version earlier than the Analyst 1.7 with HotFix 3 cannot be opened in newer versions of the Analyst software

If an acquisition method uses four pumps and is made in a version earlier than the Analyst software 1.7 with HotFix 3, then this method cannot be opened in the Analyst software 1.7 with HotFix 3 or in newer versions of the Analyst software. The method must be made again using the new hardware profile made in the Analyst software 1.7 with HotFix 3 or a later Analyst software version. (AN-2818).

If pressure traces from Agilent or ADD are enabled, then they are shown under Show Auxiliary Traces

In version 1.7.3, or later, of the Analyst software, the pressure traces from Agilent or ADD, if enabled, are shown under **Explore** > **Show** > **Show Auxiliary Traces**.

Acquire each sample to a different data file if an ExionLC PDA or a Shimadzu PDA is used

We recommend that each sample be acquired to a separate data file if an ExionLC PDA or a Shimadzu PDA is used. Doing so can prevent intermittent batch stoppages that are caused when large amounts of data are written to a single file. (AN-1823, AN-2920, AN-2901)

Do a system check on Shimadzu and ExionLC PDAs to make sure the lamps are still in good condition

A system check should be done on Shimadzu and ExionLC PDAs before data acquisition to make sure that the lamps are still in good condition and do not cause poor data. This can be

done by directly connecting to Shimadzu modules using the Ethernet connection and entering the IP address in a web browser, external to the Analyst software. Starting from Analyst 1.7.3 HotFix 2, batch acquisition will not stop when the system receives an error message from the LC driver about the PDA detector lamp usage time. A warning that the PDA detector lamp usage time cannot be updated will be logged in the system Event Viewer. (AN-3214)

The expected RT is not automatically updated when integration parameters are changed during quantitation peak review in the Analyst software

From the Analyst software version 1.7 and later, the expected RT is not automatically updated when integration parameters are changed during quantitation peak review in the Analyst software. The expected RT entered or selected by the user is kept. (AN-861, AN-869)

The audit trail Full User Name column has changed

In the Analyst 1.7.1 Patch for RODC Network, the Analyst software 1.7.2, and the Analyst software 1.7.3 with or without HotFix 1, the audit trail **Full User Name** column shows the **Full Name** of the user account, as stored in the Windows Server Active Directory. The **Display Name** and **Full Name** of the user account are typically the same, but they do not have to be. The network administrator can make them different.

However, from Analyst 1.7.3 HotFix 2 and later, the audit trail **Full User Name** column shows the **Display Name** of the user account, as saved in the Windows Server Active Directory, unless the **Display Name** field is empty in the Active Directory, in which case the **Full User Name** is shown.

Note: The e-mail address of the user (the logon name used for the Analyst software) will be used in the **Full User Name** column if the Analyst software cannot get the full name or display name of the user because there is no access to the network. (AN-2447)

The toolbar in the Analyst software might not refresh correctly when scaling is changed

The toolbar might not refresh correctly under the following conditions:

- The user moved a remote desktop session window in which the Analyst software was open from one monitor to another with a different monitor scaling setting, minimized the Analyst window and then maximized it.
- The user connected remotely to a workstation with the Analyst software installed from a computer using a monitor with a different scaling setting from what was set on the workstation monitor, logged on the Analyst software and left the software open, ended the remote session, and then logged on directly to the workstation on which the Analyst software was left open.

The right side of the software toolbar where there are no toolbar icons cannot be seen. If users change between modes, then the toolbar icons from the previous mode might persist in the user interface and cannot be clicked, and some icons on the toolbar look like they are shown twice. The workaround is to close the Analyst software and then open it again. This is a Microsoft behavior where some applications do not respond to scaling changes until the

applications are closed and then opened. To prevent the issue during a remote desktop session, make sure that the Analyst software is closed before stopping the remote desktop session, and then start the next remote desktop session. Do not move the remote desktop session between monitors with different scaling settings. Alternatively, use the same scaling setting on all monitors connected to the computer used to connect remotely to the Analyst software. For example, set all monitors to 125% scaling. To prevent any display issues, when logging on directly to the Analyst workstation, make sure to close the Analyst software before stopping the last remote session or use the same scaling setting on the Analyst workstation monitor and the remote desktop monitor. (AN-3205)

National Instrument ADC card support

The older model of National Instrument ADC card (PCI-6032E) is not supported in Analyst 1.7.3 HotFix 2 or later versions.

Where to Get Help

- *Analyst Software 1.7.3 Release Notes*
- *Analyst Software 1.7.3 Installation Guide*

Known Issues and Limitations

An incorrect response time might be used on Shimadzu SPD-40/40V UV detectors with SCL-40/CBM-40/CBM-40 Lite ROM version earlier than 1.64.

If firmware versions earlier than 1.64 are used on a Shimadzu SCL-40, CBM-40, or CBM-40 Lite controller connected to a Shimadzu SPD-40/40V UV detector, then an incorrect interaction between the **Response** mode and the **Sampling** time causes an incorrect response time. If the response mode for the SPD-40/40V is set to `Fast/Standard/Slow`, then analysis is done with response times of 0.5 s, 1.0 s and 2.0 s, respectively, regardless of the **Sampling** setting. There is some influence on the data.

Workaround: Change the **Response** mode to **Other**, and then set the numeric value field to the response time value or to a value that is less than the related sampling time. As an alternative, use SCL-40/CBM-40/CBM-40 Lite firmware version 1.64 or later.

To print a `pdf` file from the Analyst software requires the user to have Delete rights to the folder where the `pdf` file is saved

In the Analyst software, when a file such as a Results Table, File Information, data list is printed, to a `pdf` file in a folder to which the user does not have Delete rights, the user gets a message about not having permission to modify files in the location. If this issue occurs, then do the following.

1. Click **OK** in the message.
2. Save the file again using the same name.

3. Click **Yes** to replace the empty file that was created when the file was saved the first time.

This issue cannot be fixed because the function is in the Microsoft SDK and not in the Analyst software. (AN-2756)

The VICI Valco 2-position 10-port valve shows an anomalous serial number and an empty version in File Info in Analyst 1.7.3 HotFix 1 or an earlier version

The File Info of a data file acquired with a VICI Valco 2-position 10-port valve in Analyst 1.7.3 HotFix 1 or earlier shows an empty **FW version** and an anomalous serial number. Record the serial number from the hardware label, if required. (AN-3220)

For integrated Agilent LC devices, the LC run stops when the mass spectrometer stops acquiring data, even if the LC run time is longer than the MS run duration

For Agilent devices that are directly controlled in the Analyst software and not through the Analyst Device Driver (ADD), the LC run stops when the mass spectrometer stops acquiring data, not at the pump stop time, even if the pump run time is longer than the MS duration. This issue occurs with or without **Scheduled Ionization** enabled. Also, the Agilent pump trace, if enabled, starts at the pre-rinse and not the injection time. Thus the trace is shown from 0 to *MS end time + approximately 0.5min*.

Workaround: configure the Agilent devices with the ADD software 1.4 if the LC run time is longer than the MS run duration. (AN-2657)

Analyst 1.7.3 HotFix 2

Install the HotFix

Prerequisites
• The Analyst software 1.7.3 is installed. **Note:** If the Analyst 1.7.3 HotFix 1 is installed, then the HotFix 1 will be silently removed before Analyst 1.7.3 HotFix 2 is installed.

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 **Analyst 1.7.3 HotFix 2** from sciex.com/software-support/software-downloads.

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

5. After the download is complete, right-click the `Analyst1.7.3HF2.zip` file.
6. Click **Extract All**, browse to and select the destination folder, and then click **Extract**.
7. Browse to and then double-click the `setup.exe` file.
8. Follow the on-screen instructions to complete the installation.
9. SCIEX 3500, 4500, 5500, 5500+, 6500, and 6500+ systems: Go to the section: Update the Firmware.
10. Open the Analyst software, and then activate the hardware profile. Refer to the documentation for the Analyst software.

Analyst 1.7.3 HotFix 2 Installation Using a Deployment Tool

Use this procedure if the Analyst software 1.7.3 is installed and a deployment tool is used to install the HotFix.

Install the HotFix Using a Deployment Tool

Prerequisites
• The Analyst software 1.7.3 is installed.

The Analyst 1.7.3 HotFix 2 can be installed with a deployment tool, such as Microsoft Endpoint Configuration Manager (MECM), using either a Windows administrator account or a non-administrator SYSTEM account.

1. Use the deployment tool to make the `AnalystTemp` folder on the `C:\` drive.

   The software installation log file will be saved in this folder.
2. Run the following silent install command from the installation files location:

   ```
   setup.exe /s /v/qn /v"/l* "c:\AnalystTemp\analyst173HF2.txt"" /v/
   norestart
   ```
3. Restart the computers on which the Analyst software was installed.
4. SCIEX 3500, 4500, 5500, 5500+, 6500, and 6500+ systems:
   a. Go to the section: Update the Firmware.
   b. Open the Analyst software, and then activate the hardware profile. Refer to the documentation that comes with the Analyst software.

Systems using the AAC Security Database: Fresh Installation of the Analyst Software 1.7.3 Using a Deployment Tool

Use this procedure to install the Analyst software 1.7.3 if the Analyst software will use the AAC security database.

Install the Analyst Software 1.7.3 Using a Deployment Tool

Note: This installation option was not supported in the Analyst software 1.7.3 release.

The Analyst software can be installed with a deployment tool, such as Microsoft Endpoint Configuration Manager (MECM), using either a Windows administrator account or a non-administrator SYSTEM account.

If the SYSTEM account is used, then the users on the workstations where the Analyst software will be installed do not need to have administrator rights in Windows.

This procedure applies to new installations that use the Analyst Administrator Console (AAC) security database.

1. Make the `AnalystTemp` folder on the `C:\` drive using the deployment tool.

   The software installation log file will be saved in this folder.

2. (Omit this step if only the AAC security database will be used to log on to the Analyst software workstations, and if users will never switch between the local security database and the AAC security database when logging on to the Analyst software workstations.) If the SYSTEM account is used, then make the **SDBInfo** registry key and deploy it with the deployment tool.

   Note: The **SDBInfo** registry key is not required if a Windows administrator account is used to deploy the software.

   All **Value Name** entries must use the **String Value** type. At least one of **User** or **Group** must be specified. Refer to the table: Table 3. For an example **SBDInfo** registry key, refer to the following figure.

   Figure 5 Example SBDInfo Registry Key

```
[HKEY_LOCAL_MACHINE\SOFTWARE\WOW6432Node\SciexSccm\Analyst\SDBinfo
]
"UseMixedMode"="Yes"
"Domain"="DomainName"
"UserName"="First.Last"
"UserType"="Administrator"
```

```
"GroupName"="SharedAccounts"
"GroupType"="Operator"
```

Table 3 SBDInfo String Value Requirements

String Value		Comment
Value Name	**Value Data (Example)**	
UseMixedMode	Yes	**Yes**: Mixed Mode will be used in the Analyst software **No**: Integrated Mode will be used in the Analyst software **Note:** This value string is optional. If not present, then Integrated Mode will be used in the Analyst software.
Domain	DomainName	The name of the domain to which the user name and group name belong. This value string is mandatory.
UserName	FirstName.LastName	The name of the domain user who will log on to Windows on the computers where the Analyst software will be installed.
UserType	Administrator	The Role type for the user in the security configuration for the Analyst software. The default roles include Administrator, Analyst, Operator, End User, QA Reviewer, and Supervisor.
GroupName	ShareAccounts	The Group name on the defined domain.

Table 3 SBDInfo String Value Requirements (continued)

String Value		Comment
Value Name	**Value Data (Example)**	
GroupType	Operator	The Role type for the group in the security configuration for the Analyst software. The default roles include Administrator, Analyst, Operator, End User, QA Reviewer, and Supervisor.

3. To install the software, use the deployment tool to run the following silent install command from the installation files location:

   ```
   setup.exe /s /v/qn /v"/l* "c:\AnalystTemp\analyst.txt"" /v/norestart
   ```

4. Use the software deployment tool to install the Analyst 1.7.3 HotFix 2. Refer to the section: Install the HotFix Using a Deployment Tool.

5. Add the **AnalystAdminConsole** registry key, and then deploy it with the deployment tool.

   All **Value Name** entries must use the **String Value** type. Refer to the table: Table 4. For an example **AnalystAdminConsole** registry key, refer to the following figure.

Figure 6 Example AnalystAdminConsole Registry Key

```
[HKEY_LOCAL_MACHINE\SOFTWARE\WOW6432Node\PE
Sciex\Analyst\AnalystAdminConsole]
"Default Workgroup"="WorkgroupName"
"Server"="ServerName"
"Use Project Security"="Yes"
"Use Security Server"="Yes"
```

Table 4 AnalystAdminConsole String Value Requirments

Value Name	Value Data (Example)
Default Workgroup	WorkgroupName
Server	ServerName
Use Project Security	Yes
Use Security Server	Yes

6. To connect to the AAC server 3.0, log on to the AAC 3.1 client as an AAC administrator from any workstation where the Analyst 1.7.3 HotFix 2 has been installed.

   Note: Before the AAC server 3.1 was available, the AAC administrator could not add a workstation directly from the AAC server 3.0 computer.

7. Add the Analyst software workstations to the workstation pool for all of the workstations where the Analyst software 1.7.3 has been newly installed and the AAC security database is to be used.
8. Add the workstations to the workgroup defined for the **Default Workgroup** in the **AnalystAdminConsole** registry key in step 5.
9. Before opening the Analyst software, restart the computers on which the Analyst software was installed.
10. SCIEX 3500, 4500, 5500, 5500+, 6500, and 6500+ systems:
    a. Go to the section: Update the Firmware.
    b. Open the Analyst software, and then activate the hardware profile. Refer to the documentation that comes with the Analyst software.

Update the Firmware

Use the `ConfigUpdater.exe` program to update the system firmware to PIL2007 for the SCIEX 3500, 4500, 5500, 5500+, 6500, and 6500+ systems. The configuration tables have not changed. Refer to the document: *Software Installation Guide* for the Analyst software 1.7.3 for information about configuration tables.

1. Browse to the `Analyst\Firmware\ConfigUpdater` folder, and then double-click `ConfigUpdater.exe`. This folder is in the `C:\Program Files (x86)\` folder.
   The Configuration Table Update Program page opens.

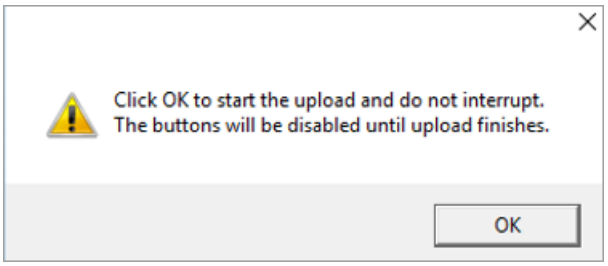
   Tip! The `ConfigUpdater.exe` program can also be started from the shortcut: **Start** > **SCIEX Analyst** > **ConfigUpdater**

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 7 Upload Confirmation Prompt



4. Click **OK**, and then wait until the message `Uploaded firmware 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 following message opens: `Your current configuration table is: <header of the current configuration table> file. Your instrument is upgraded to the latest firmware configuration table. Click Cancel to exit this program or click Downgrade if you wish to upload another Configuration Table.`
7. Click **Cancel** to close the utility.

Remove the HotFix

1. Deactivate the hardware profile and then close the Analyst software.
2. Open the **Programs and Features** control panel.
3. Select **Analyst 1.7.3 HotFix 2** from the list and then click **Uninstall**.
   The HotFix is removed from the program list. After the HotFix is removed, the software is reverted to the Analyst 1.7.3 software. However, the ExionLC 2.0 software driver is not reverted to the previous version.

Updated Files

The HotFix 2 makes the following changes to the `Analyst`, `AB SCIEX`, and `Common Files` folders. The folders are in the `C:\Program Files (x86)\` folder.

`Analyst\Bin` (All files, excluding one, are updated)

- `AdminConsole.dll` (Updated unless HotFix 1 was installed)
- `Analyst.exe` (Updated unless HotFix 1 was installed)
- `Analyst.reg`

- `AnalystLauncher.exe` (Updated unless HotFix 1 was installed)
- `AutosamplerDB.adb` (Updated unless HotFix 1 was installed)
- `AuditTrailManagerCtrl.ocx`
- `AutosamplerDB_SIL40_SIL30AC_SIL30ACM_AlphaDWP96.adb` (added unless HotFix 1 was installed)
- `AutosamplerDBServer.adb` (Updated unless HotFix 1 was installed)
- `BatchDir.dll` (Updated unless HotFix 1 was installed)
- `CSISShimLC40.dll` (Updated unless HotFix 1 was installed)
- `DDISExion2LC.dll` (Updated unless HotFix 1 was installed)
- `DDISSSciexLC.dll` (Updated unless HotFix 1 was installed)
- `DDISShimadzu.dll` (Updated unless HotFix 1 was installed)
- `ExploreDir.dll` (Updated unless HotFix 1 was installed)
- `HP1100lcMethodEditor.ocx`
- `LCPumpMethodSvr.dll` (Updated unless HotFix 1 was installed)
- `MMSecurity.dll`
- `PEIUtils.dll`
- `ProjectFront.dll`
- `QuantFullMethodEditor.ocx` (Updated unless HotFix 1 was installed)
- `QuantIntegration.dll` (Updated unless HotFix 1 was installed)
- `QuantMethod.dll` (Updated unless HotFix 1 was installed)
- `QuantRT.ocx`
- `QuantWizard.dll` (Updated unless HotFix 1 was installed)
- `ReportEngine.ocx`
- `SecurityConfigDir.dll` (Updated unless HotFix 1 was installed)
- `StatusSvr.dll` (Updated unless HotFix 1 was installed)
- `TuneDir.dll`
- `UserManager.dll`
- `DDVAValco.dll`

Analyst\BinEx (All files are updated unless Analyst 1.7.3 HotFix 1 was installed)

- MimicInstrumentHost.exe
- ShimadzuLCMimic.Interop.Common.dll
- ShimadzuLCMimic.Interop.Defines.dll
- ShimadzuLCMimic.Interop.Interfaces.dll
- ShimadzuLCMimic.Interop.LCMimic2Defines.dll
- ShimadzuLCMimic.Interop.ShimLCConfig.dll
- ShimadzuLCMimic.Interop.ShimLCControler.dll
- ShimadzuLCMimic.Interop.ShimLCCore.dll
- ShimadzuLCMimic.Interop.ShimLCMethod.dll
- ShimadzuLCMimic.Interop.ShimLCSetup.dll
- ShimadzuLCMimic.Interop.ShimLCStatus.dll
- ShimadzuLCMimic.ServerCommon.dll
- ShimadzuLCMimic.ServiceInterfaces.dll
- VDISSciexLC.exe

Analyst\Firmware

- PIL2007 (added)

Analyst\Firmware\ConfigUpdater (All files are added)

- AxInterop.ComctlLib.dll
- AxInterop.InetCtlsObjects.dll
- AxInterop.MSCommLib.dll
- AxInterop.MSFlexGridLib.dll
- AxInterop.MSWinsockLib.dll
- ConfigUpdater.exe
- ConfigUpdater.exe.config
- ConfigUpdater.pdb
- ConfigUpdater.xml
- Interop.ComctlLib.dll

- Interop.InetCtlsObjects.dll
- Interop.MSCommLib.dll
- Interop.MSFlexGridLib.dll
- Interop.MSWinsockLib.dll
- Interop.Scripting.dll
- UpdateConfig.ini

Analyst\BinEx2 (All files are updated unless Analyst 1.7.3 HotFix 1 was installed)

- ExionInterop.Common.dll
- ExionInterop.Interfaces.dll
- ExionInterop.LCController.dll
- ExionInterop.LCCore.dll
- ExionInterop.LCDefines.dll
- ExionInterop.LCSetup.dll
- ExionInterop.LCStatus.dll
- IntegratedLCSystemDriver.DriverCore.Base.dll
- IntegratedLCSystemDriver.DriverCore.ClientComponents.dll
- IntegratedLCSystemDriver.DriverCore.ServerComponents.dll
- LCMimicDmo.exe
- de-DE subfolder
- en-US subfolder

Common Files\SCIEX\LLDriver (All files are updated unless Analyst 1.7.3 HotFix 1 was installed)

- AliasBase_icf.dll
- AliasDCP_icf.ocx
- AliasRes_icf.dll
- ASBase_icf.dll
- ASBaseDCP_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
- InstrCntlANASM22L_icf.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
- SxWSController.exe
- Units.txt
- WashStationBase_icf.dll
- WashStationDCP_icf.ocx
- WashStationRes_icf.dll
- xerces-c_2_6.dll

Analyst\Help

- Analyst 1.7.3 HotFix2 Release Notes.pdf (Added)
- Administrator_Console.chm (Updated)

Tip! A shortcut to the Release Notes can be found in this location: **Start** > **SCIEX Analyst**

`AB SCIEX\AnalystReporter\bin` (Files are updated)

- `Sciex.Report.DataSource.Analyst.dll`
- `Sciex.Report.Engine.dll`

`C:\Program Files\AB SCIEX\ReporterOfficeAddins\TemplateContentControlManager` (files are updated)

- `TemplateContentControlManager.dll.manifest`
- `TemplateContentControlManager.vsto`

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Documentation

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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.

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