
Analyst MD 1.7.3 Software

Software Installation Guide



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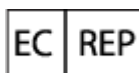
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This guide provides information about, and procedures for, installing the Analyst MD 1.7.3 software. The guide also includes information on supported devices and firmware and tips for troubleshooting the installation.

For information about new software features, enhancements, and known issues, refer to the *Release Notes* for the software, included with the software package.

Important Information to Know Before Installing

Note: The Analyst MD 1.7.3 software is only supported on the Windows 10 operating system.

Note: Do not attempt to install or upgrade the software without following the installation instructions provided in this guide.

To make sure that the software installation is successful, read the following points carefully before starting any of the procedures in this guide:

CAUTION: Potential Data Loss. Do not modify the computer date and time after the Analyst MD software is installed.

- Make sure that the computer date and time is correct on the computer before installing the Analyst MD software. After the Analyst MD software is installed, manually modifying the date and time might invalidate the license and cause users to be unable to log into the Analyst MD software.
- Before installing the Analyst MD software, read the software installation guide and release notes that come with the software. Be sure to understand the difference between a processing workstation and an acquisition workstation and then complete the appropriate installation sequence.
- All workstations with the Analyst MD installed must have a valid software license. This includes acquisition stations and processing stations. These licenses are provided with new instrument purchases and can also be purchased separately from SCIEX. Starting from the Analyst MD software version 1.7.3, only electronic licensing is supported. Refer to the section: [Electronic Licensing](#). If you have any questions regarding the purchase of a license, then contact your SCIEX sales representative or Technical Support using sciex.com/request-support.
- The latest version of the Analyst MD software data files might not be compatible with any of the previous versions of the Analyst MD software. However, data acquired in previous versions of the Analyst MD software can be opened in the Analyst MD 1.7.3 software.

- Results Tables created with the Analyst MD 1.7.3 software or a later version cannot be opened in version 1.6.3 or earlier versions of the Analyst MD software. Results Tables created in any later version of the Analyst MD software might not be able to be opened in an earlier version.
- Use the task list provided at the beginning of the installation procedure in this guide to verify each task as it is completed. The order in which the installation steps are performed is important.
- The Analyst MD 1.7.3 software is available as a web download package for new customers and customers upgrading from supported previous versions of the Analyst MD software.
- For more information about the compatibility of the Analyst MD 1.7.3 software with other software applications, refer to the section: [Compatible Software](#).

Operating System Requirements

Refer to the following table for a list of computers and operating system requirements.

Table 2-1 Computer and Operating System Requirements for Acquisition and Processing Workstations

Computer	Operating System
SCIEX Workstation	Windows 10, 64-bit (Windows 10 IoT Enterprise 2019 1809 LTSC EMB 64-bit English)
SCIEX Alpha Workstation 2020	Windows 10, 64-bit (Win10 IoT Enterprise 2019 1809 LTSC 64-bit EMB English) operating system
Dell Optiplex XE2 computers	Windows 10, 64-bit (Win10 IoT Enterprise LTSB 1607 64-bit EMB English) operating system

Network Environment

The Analyst MD software supports the Windows 2008 R2 and 2012 servers.

Acquisition Computer Hardware Requirements

The SCIEX 3200MD, SCIEX 4500MD, and the Citrine systems are shipped with a SCIEX Workstation acquisition computer. This computer, as well as the SCIEX Alpha Workstation 2020 and the Dell Optiplex XE2 Workstation, which are provided by SCIEX for acquiring the data, are the only acquisition computers currently approved for use with the Analyst MD 1.7.3 software. These configured computers meet all requirements and have undergone extensive testing and verification with the Analyst MD 1.7.3 software.

Note: In the future, new acquisition computers might be introduced that are approved for use with the Analyst MD 1.7.3 software. For more information, contact a SCIEX sales representative.

Note: For the acquisition computer, only critical Windows updates like security changes are highly recommended. Make sure that adequate virus protection is in place to prevent virus protection is in place to prevent the corruption of system functionality. For more details, visit sciex.com/productsecurity

Note: Make sure that the computer and the Ethernet cable settings are set to **never go to sleep**. SCIEX computer images already have these settings set correctly.

For acquisition workstations, SCIEX recommends the following minimum computer configurations:

SCIEX Workstation

- Intel Xeon Processor W-2245 (8C 3.9GHz 4.7GHz Turbo HT 16.5MB, 155W DDR4-2933)
- 32G GB (2 × 16 GB) 3200MHz DDR4 RDIMM ECC
- 2 × 1 TB SSD (RAID1) + 2 M.2 carrier
- One Intel built-in Ethernet card + one additional Broadcom Dual port card

SCIEX Alpha Workstation 2020

- Intel Core I5-8500
- 32G GB (2 × 16 GB) DDR4 2666MHz DDR4 UDIMM Non-ECC
- 2 × 2 TB HDD (RAID1)
- One Intel built-in Ethernet card + two additional single-port Intel Ethernet cards.

Dell Optiplex XE2 Workstation

- Intel Core I5-4570S processor (Quad core, 2.90 GHz, 6MB with HD Graphics 4600)
- 8 GB (2 × 4 GB) DDR3 1600Mhz SDRAM
- 2 × 2 TB HDD
- Two single-port Broadcom Ethernet cards

Processing Workstation Hardware Requirements

For data processing workstations, SCIEX recommends the following minimum computer configuration:

- Intel Core I5-4570S Processor
- 8 GB (2 × 4 GB) DDR3 1600Mhz SDRAM

Some SCIEX add-on software requires additional memory, disk space, and processing speed. Refer to the documentation included with that software.

Current Configuration for the SCIEX Workstation for Acquisition

The SCIEX Workstation for acquisition comes installed with the Windows 10, 64-bit (Win10 IoT Enterprise 2019 1809 LTSC 64-bit) operating system.

This computer is RoHS compliant and can be used as an acquisition workstation or standalone processing computer. All Windows 10 operating systems come with Internet Explorer 11. Most of the driver software required for the cards is installed.

The acquisition workstation includes the following:

- Intel built-in Ethernet Card + one additional Broadcom Dual-port card

The acquisition workstation supports the following external interfaces and card:

- GPIB (not included)
- Serial (not included)
- NI DAQ ADC PCIe card (not included)

Note: National Instruments USB to GPIB might be required for data acquisition but is not included.

Note: Edgeport USB might be required for peripheral device control but is not included.

CAUTION: Potential Acquisition Interference. Do not change the power management settings in the BIOS. Changing the power management settings might interfere with batch acquisition by introducing long delay times between samples.

Supported Cards and Driver Versions

The table shows the driver versions installed on the currently shipping acquisition workstation, the supported driver versions, and the supported slots.

Table 2-2 Supported Cards and Driver Versions: SCIEX Workstation

Card Name	Driver Version
GPIB (USB)	17.0
ADC	17.1
Network card – Broadcom Dual-port	14.1 or newer

Table 2-2 Supported Cards and Driver Versions: SCIEX Workstation (continued)

Card Name	Driver Version
EdgePort USB	6.4.1.0
Network Card — Intel I219-LM Ethernet	12.1 or newer

Table 2-3 Supported Cards and Driver Versions: SCIEX Alpha Workstation 2020

Card Name	Driver Version
GPIO (USB)	17.0
ADC	17.1
Network card – Intel Ethernet Server Adapter I350-T2 - network adapter Dual port (PN 5068976)	9.3.41.0 or later
EdgePort USB	6.4.1.0
Network Card – Intel I210 1Gb Ethernet Adapter (1X1GbE)	12.0.0.0 or later

Table 2-4 Supported Cards and Driver Versions: Dell XE2 Computer

Card Name	Driver Version
GPIO (USB)	17.0
ADC	17.1
Network card – Intel Pro/1000 PT Dual port	9.3.41.0 or later
EdgePort USB	6.4.1.0
Network Card — Broadcom	16.2.0.4 or later

Reporter 3.2 Requirements

Microsoft Word 2013, Microsoft Word 2016, or Office 365 is required.

PDF Reporting Capabilities

Select the option to allow reporting in either all formats (Microsoft Word, Text, Microsoft Excel, HTML, PDF) or only the PDF format during the software installation.

User Account Control Requirements for Windows 10

When the Analyst MD 1.7.3 software is installed on a computer, then it is recommended that the Windows default settings for User Account Control be used. For the Administrator, the default setting is **Default – Notify me only when programs try to make changes to my computer**; for standard users, it is **Default – Always notify me**.

The acquisition computer comes configured with the default User Account Control settings.

Prerequisite Software

The following software are prerequisite for the Analyst MD 1.7.3 software. All of them, except the .NET Framework 3.5, are automatically installed by the Analyst MD software installer if they are not already installed on the computer.

Note: Microsoft Word 2013, Microsoft Word 2016, or Office 365 is required to generate reports using the Analyst MD Software Reporter and Instrument Optimization.

- .NET 3.5 SP1

Note: If .NET Framework 3.5 is not already installed, then the user is informed that the .NET Framework 3.5 is not installed and should be installed after the installation is completed. Users should contact their IT department or refer to the section: [Installation Instructions](#) to enable the .NET Framework 3.5. Refer to the figure: [Figure 3-1](#).

- .NET Framework 4.5.1
- MS VC++ 2008 SP1 redistributable
- MS VC++ 2008 SP1 ATL security redistributable
- Visual Studio 2010 Tools for Office runtime
- SCIEX Reporter Template Suite 3.2

Compatible Software

As of this release, the following software are compatible with the Analyst MD 1.7.3 software:

Table 2-5 Compatible Software

Software Name	Additional Information
Analyst Device Driver 1.3	—
ChemoView MD 2.0.4 software	Not tested but expected to work.
MultiQuant MD 3.0.3 software with HotFix 3	Not tested but expected to work.
StatusScope remote monitoring service 2.2.2	—

Supported Mass Spectrometers

The Analyst MD 1.7.3 software can control and analyze data from each of the following SCIEX mass spectrometers:

- SCIEX Triple Quad 3200MD system
- 3200MD QTRAP system
- SCIEX Triple Quad 4500MD system
- QTRAP 4500MD system
- Citrine Triple Quad system
- Citrine QTRAP system

Key Contents of the DVD, if Available

The following software applications, files, folders, and documents are included on the Analyst MD 1.7.3 software DVD:

- **Analyst MD 1.7.3 software folder:** Contains the scripts, the software guides, the tutorials, `setup.exe`, all of the files required to install the Reporter software, all of the files required to install all of the prerequisite software, except the .NET Framework 3.5, and all of the files required to install the Analyst MD software.
- **Drivers folder:** Contains the ADC, Edgeport 6.04, GPIB 17.0, and NIDAQ1710f0 driver folders.
- **Extras folder:** Contains the following folders:
 - **Analyst Device Driver 1.3:** Contains the device driver software and the related documents.

Requirements

- Analyst Diagnostic Tool 1.0.2: Contains the Analyst Diagnostic Tool software and related document.
- Instrument Update: Contains the Firmware/Configuration Table Update Program (ConfigUpdater.exe).
- *Release Notes*.
- *Analyst MD Software Installation Guide* (this document).
- `license.rtf`

Note: For a complete list of documents and their location, refer to the section: [Analyst MD Software Documentation](#).

Contents of the Web Download Package

The following software applications, files, folders, and documents are included in the Analyst MD 1.7.3 software web download package:

- Analyst MD 1.7.3 software folder: Contains the scripts, the software guides, the tutorials, `setup.exe`, all of the files required to install the Reporter software, all of the files required to install all of the prerequisite software, except the .NET Framework 3.5, and all of the files required to install the Analyst MD software.
- Drivers folder: Contains the Edgeport 6.04 driver folder and the ADC folder.
- Extras folder: Contains the following subfolders:
 - Instrument Update: Contains the Firmware/Configuration Table Update Program (ConfigUpdater.exe).
 - Analyst Diagnostic Tool 1.0.2: Contains the Analyst Diagnostic Tool software and related document.
- *Release Notes*.
- *Analyst MD Software Installation Guide* (this document).
- *license.rtf*

Note: For a complete list of documents and their location, refer to [Analyst MD Software Documentation](#).

The Analyst 1.7.3 software web download package can be downloaded from sciex.com/software-support/software-downloads. However, the GPIB 17.0 driver, Analyst Device Driver 1.3, and the National Instrument ADC driver are not included in the software web download package. Excluding the GPIB 17.0 driver, they can be downloaded from sciex.com/software-support/software-downloads, under **Additional Downloads > Drivers**. If the GPIB 17.0 driver

is required, contact the National Instrument support at <https://www.ni.com/en-ca/support.html> to download the GPIB driver version 17.0 for NI-448.2.

Installation Instructions

3

This section provides procedures for installing or upgrading to the Analyst MD 1.7.3 software using the Analyst MD 1.7.3 Software DVD.

In case of fresh installation, the Analyst MD 1.7.3 software must be installed on a computer that has never hosted a non-MD version of the Analyst software. If a non-MD version of the Analyst software was previously installed, then the host computer must be re-imaged prior to installing this software. However, reinstallation of the Analyst MD 1.7.3 software does not require re-imaging of the PC.

You can upgrade to the Analyst MD 1.7.3 software from the following versions of the Analyst MD software on the Windows 10 operating systems:

- Analyst MD 1.6.3 software
- Analyst MD 1.6.3 software with HotFix 1
- Analyst MD 1.6.3 software with HotFix 2
- Analyst MD 1.6.3 software with HotFix 3

Note: Upgrading to the Analyst MD 1.7.3 software from previous versions of the Analyst MD software is possible only on the Windows 10 platform.

Note: You must be logged on as a user with Administrator privileges to install the Analyst MD 1.7.3 software.

Note: Removing the Analyst MD 1.7.3 software from the system will remove the software completely rather than reverting to the previously installed configuration. The `Analyst Data` folder will not be removed, but it is still recommended that you archive this folder. Instrument settings are retained but application settings are not.

Note: If the acquisition workstation is upgraded to the Analyst MD 1.7.3 software, then we recommend upgrading the processing workstation too.

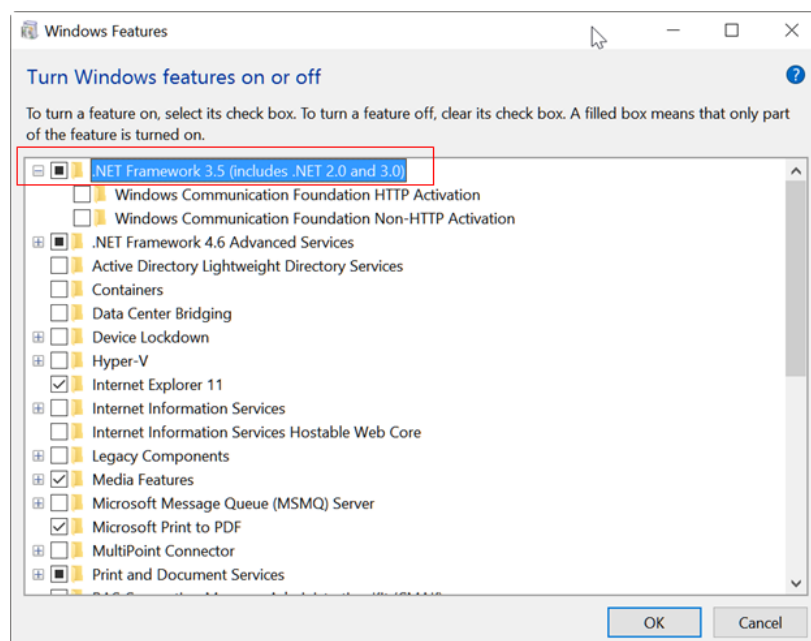
Note: For the acquisition computer, only critical Windows updates like security changes are highly recommended. Make sure that adequate virus protection is in place to prevent virus protection is in place to prevent the corruption of system functionality. For more details, visit sciex.com/productsecurity

On the Windows 10 operating system, in **Control Panel > Program and Features**, select **Turn Windows features on or off** to open the Windows Features dialog. Make sure that **.NET**

Framework feature is selected. If it is not selected, then the .NET Framework 3.5 is not installed. Select it to enable the installation of .NET Framework 3.5. You might need IT permission to do this. Refer to the figure: [Figure 3-1](#).

Note: The current SCIEX shipping computer image for the Analyst MD 1.7.3 software has .NET Framework 3.5 installed.

Figure 3-1 Windows Features Dialog



Only the English version of the Windows 10 operating system is supported.

For information on setting the region and language, refer to the section: [Region and Language Settings](#).

How to Use These Installation Instructions for Acquisition Workstations Versus Processing Workstations

The upgrade instructions in this section can be used for both acquisition and processing workstations. Acquisition workstations are workstations connected to a mass spectrometer. Processing workstations are workstations that are not connected to a mass spectrometer.

Use the following table to understand which upgrade procedures to complete for each type of workstation.

Installation Instructions

Table 3-1 Procedures for Acquisition and Processing Workstations

Workstation	Procedure
Acquisition workstations	Complete all of the procedures in this section. Some procedures are optional or are required only if certain interface cards are installed in the workstation.
Processing workstations	<p>Complete all of the procedures excluding those only applicable to acquisition workstations.</p> <p>Omit any upgrade procedures related to:</p> <ul style="list-style-type: none">• Cards and driver software• Upgrading firmware and configuration tables

Task List for Installation

Use the following checklist to make sure that you complete all of the required steps.

Tip! Print this task list and then mark each step complete as installation steps are completed.

Table 3-2 Task List

Step	Procedure	Complete
Make sure that the workstation meets the requirements for installing the Analyst MD software.	Task List for Installation	<input type="checkbox"/>
Prepare the instrument and workstation for the installation.	Prepare the Mass Spectrometer and Workstation for Installation	<input type="checkbox"/>
Verify the User Account Control settings.	User Account Control Settings	<input type="checkbox"/>
Back up the Analyst Data folder to a safe location.	Back up the Analyst Data Folder to a Safe Location	<input type="checkbox"/>
Install the Analyst MD 1.7.3 software.	Install the Analyst MD 1.7.3 Software	<input type="checkbox"/>
(Acquisition workstations only) Update the firmware and configuration tables, if required.	Update the Firmware and Configuration Tables	<input type="checkbox"/>

Table 3-2 Task List (continued)

Step	Procedure	Complete
Activate the Analyst MD 1.7.3 software license online.	Electronic Licensing	<input type="checkbox"/>
Back up the installed report templates to a safe location.	Refer to the document: <i>Reporter 3.2 User Manual</i> : <ul style="list-style-type: none"> Start > SCIEX Reporter 3.2 > Reporter Documentation 	<input type="checkbox"/>
Enable the .NET Framework 3.5 feature	In Control Panel > Program and Features , select Turn Windows features on or off to open the Windows Features dialog. Make sure that .NET Framework 3.5 feature is selected. If it is not selected, then select it to enable the installation of .NET Framework 3.5. IT permission might be required to do this. Refer to the figure: Figure 3-1 .	<input type="checkbox"/>
Open the Analyst MD 1.7.3 software for the first time.	Run the Software for the First Time after License Activation	<input type="checkbox"/>

Prepare to Install

Assemble the Software DVDs

1. Locate the Analyst MD 1.7.3 software DVD, if available.
2. If required, locate any DVDs containing optional add-on software.

Prepare the Mass Spectrometer and Workstation for Installation

Note: Do not remove any of the cards from the workstation.

1. Log on to the computer as a user with Administrator privileges.
 2. Acquisition workstations: If the workstation has a GPIB connector, then make sure that the mass spectrometer is turned on and connected to the GPIB connector at the back of the workstation.
 3. For upgrades from a previous version of the Analyst MD software, perform these steps before installing the Analyst MD 1.7.3 software.
-

Installation Instructions

- a. Deactivate the active hardware profile.
 - b. Remove the Convert Methods script and the sMRM Calculator script, if installed.
 - c. Close the Analyst MD software.
4. Enable .NET 3.5 if it is not already enabled. Refer to the figure: [Figure 3-1](#).

Note: The SCIEX computers with Windows 10 operating systems have .NET 3.5 enabled by default.

- a. On the Windows 10 operating system, if .NET 3.5 is not already enabled on the computer, then in **Control Panel > Program and Features**, select **Turn Windows features on or off**.
The Windows Features dialog opens.
- b. Select the **.NET Framework 3.5** option to enable the installation of .NET 3.5. IT permission might be required.
- c. Confirm the presence of .NET 3.5 in the Windows Features dialog. If it is enabled, then the **.NET Framework 3.5** option will be selected.

Back up the Analyst Data Folder to a Safe Location

Do not rename the existing Analyst Data folder. We recommend that the same Analyst Data folder be used as in the previous installation. This provides access to the existing data, such as hardware profiles, methods, and data files. It also retains the `InstrumentData.ins` and `ParameterSettings.psf` files and the `*.Analyst Backup` files if applicable. For Citrine systems, two backup files were created for the `InstrumentData.ins` file and two backup files were created for the `ParameterSettings.psf` file if the user switched mode from low mass to high mass and from high mass to low mass before the upgrade.

- Make a backup copy of the files and subfolders in the Analyst Data folder. Do not rename the folder. The default location is `D:\Analyst Data`. Create the backup in a safe location, such as a network drive or a DVD. These files need not be restored as part of a normal upgrade. However, it is good practice to make sure that a backup exists.

The Analyst Data folder contains the `API Instrument` folder, which contains the basic instrument calibration and parameter settings.

Note: As part of normal installation, the `API Instrument` folder, `CompoundDB.mdb`, and `CompoundLib.db` are automatically backed up to the `TEMP` folder on the system. This folder is normally stored in `C:\Users\<username>\AppData\Local\Temp`. Do not rely on this backup. Always back up the Analyst Data folder and only use this folder if absolutely necessary.

Install the Analyst MD 1.7.3 Software

Note: Microsoft Word 2013, Microsoft Word 2016, or Office 365 is required to generate reports using the Analyst MD Software Reporter and Instrument Optimization. If Microsoft Word 2013, Microsoft Word 2016, or Office 365 is not installed on the system, then during the installation process a warning is shown informing the user that Microsoft Word 2013, Microsoft Word 2016, or Office 365 is required for the Analyst MD Software Reporter to function correctly. Either cancel the installation or continue. After the Analyst MD 1.7.3 software is installed, install Microsoft Word 2013, Microsoft Word 2016, or Office 365, if required.

Note: If the Analyst MD software will be used with the Analyst Device Driver (ADD), then perform these steps:

1. Install or upgrade to the Analyst MD 1.7.3 software. Refer to the section: [Install the Software from the DVD, if Available](#) or [Install the Software from the Web Download Package](#).
 2. Install ADD 1.3 using the DVD, if available, or download ADD version 1.3 from sciex.com/software-support/software-downloads under **Additional Downloads > Drivers**. Refer to the section: [Install ADD 1.3](#).
-

Note: If ADD version 1.3 is being downloaded from sciex.com/software-support/software-downloads, make sure to download the ADD 1.3 *Release Notes* and tutorial documents separately from the ADD 1.3 package. The separate documents contain the latest updates, which are not included in the *Release Notes* and tutorials that come with the ADD 1.3 package.

Complete the following procedures to upgrade the workstation to the Analyst MD 1.7.3 software.

Note: Make sure that adequate virus protection is in place to prevent virus corruption of system functionality. Refer to the section: [CyberSecurity](#).

Install the Software from the DVD, if Available

1. For upgrades from a previous version of the Analyst MD software, deactivate the hardware profile, if it is activated, and then close the Analyst MD software.
 2. Restart the computer.
-

Note: If the software is being installed using a deployment tool, such as the Microsoft Endpoint Configuration Manager (MECM), follow the instructions in the section: [Install the Software Using a Deployment Tool](#) and then go to step 6.

3. Insert the Analyst MD 1.7.3 software DVD in the DVD drive of the computer.
-

Installation Instructions

4. On the DVD, browse to the Analyst MD 1.7.3 folder and then double-click **setup.exe**.
5. Follow the instructions on the screen to install the Analyst MD software.
6. After the Analyst MD software is installed, install the license file or save the `Analyst1.7.lic` in the `C:\ProgramData\AB SCIEX\Analyst\License` folder. To obtain and install a license, refer to the section: [Electronic Licensing](#).
7. (Acquisition workstations) Upgrade the firmware and configuration table, if applicable, before proceeding to the following steps. Refer to the section: [Update the Firmware and Configuration Tables](#).
8. Start the Analyst MD software by double-clicking the icon on the desktop.
9. (Acquisition workstations) Configure and then activate a hardware profile.
10. Test the software to make sure that data can be acquired or processed.

Install the Software from the Web Download Package

Note: Do not directly install the software using the `setup.exe` file that is shown in the Windows Explorer when the compressed web download package is double-clicked.

1. Deactivate the active hardware profile in the Analyst MD software.
2. Close the Analyst MD software.
3. Restart the computer.
4. Download the Analyst MD 1.7.3 software web download package (`AnalystMD173-WebRelease.zip`) to the computer from sciex.com/software-support/software-downloads.

Note: To prevent potential installation issues, we recommend that the file be saved to the local computer in a location other than the computer Desktop.

5. Extract the files from the compressed web download package on the local hard drive.

Note: If the software is being installed using a deployment tool, such as the Microsoft Endpoint Configuration Manager (MECM), follow the instructions in the section: [Install the Software Using a Deployment Tool](#) and then go to step 9.

Note: Do not try to install the software directly from the zipped package without extracting them to a local hard drive.

6. Navigate to the folder where the contents of the `AnalystMD173-WebRelease.zip` file were extracted.
 7. Double-click `setup.exe`.
The Installation Wizard opens.
-

8. Follow the on-screen instructions to install the software.
9. After the Analyst software is installed, Install the license file, `Analyst1.7.lic`, and then confirm that it is installed in the `C:\ProgramData\AB SCIEX\Analyst\License` folder. To obtain and install a license, refer to the section: [Electronic Licensing](#).
10. (Acquisition workstations) Upgrade the firmware and configuration table, if applicable, before proceeding to the following steps. Refer to the section: [Update the Firmware and Configuration Tables](#).

Install ADD 1.3

Note: For more information, refer to the Analyst Device Driver (ADD) documentation.

Note: If required, install the ADD version 1.3 after the Analyst MD 1.7.3 software installation is completed.

1. Locate the `Analyst Device Driver 1.3` folder in the `Extras` folder on the DVD, if available, or download the ADD version 1.3 from sciex.com/software-support/software-downloads under **Additional Downloads > Drivers**.
2. If ADD 1.3 is downloaded, then extract the files from the zip file to the local hard drive.
3. Double-click `setup.exe` and then follow the on-screen instructions.

Install the Software Using a Deployment Tool

The Analyst MD 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 MD software will be installed do not need to have administrator rights in Windows.

This procedure applies to new installations and to upgrade installations that use a local security database. For upgrade installations, the security database is not overwritten.

1. Create the `AnalystTemp` folder on the `C:\` drive using the deployment tool.
The software installation log file will be saved in this folder.
2. If the SYSTEM account is being used, then create the **SDBInfo** registry key and deploy it using the deployment tool.

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

Installation Instructions

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 3-3](#). For an example **SBDInfo** registry key, refer to the figure: [Figure 3-2](#)

Figure 3-2 Example SBDInfo Registry Key

```
[HKEY_LOCAL_MACHINE\SOFTWARE\WOW6432Node\SciexSccm\Analyst\SBDInfo]
"UseMixedMode"="Yes"
"Domain"="DomainName"
"UserName"="First.Last"
"UserType"="Administrator"
"GroupName"="SharedAccounts"
"GroupType"="Operator"
```

Table 3-3 SBDInfo Value String Requirements

Value String		Comment
Value Name	Value Data (Example)	
UseMixedMode	Yes	Yes: Mixed Mode will be used in the Analyst MD software No: Integrated Mode will be used in the Analyst MD software Note: This Value String is optional. If not present, then Integrated Mode will be used in the Analyst MD software.
Domain	DomainName	The name of the domain that the user name and group name are on. 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 MD software will be installed.

Table 3-3 SBDInfo Value String Requirements (continued)

Value String		Comment
Value Name	Value Data (Example)	
UserType	Administrator	The Role type for the user in the Analyst MD software security configuration. The default roles include Administrator, Analyst, Operator, End User, QA Reviewer, and Supervisor.
GroupName	ShareAccounts	Group name on the defined domain.
GroupType	Operator	The Role type for the group in the Analyst MD software security configuration. The default roles include Administrator, Analyst, Operator, End User, QA Reviewer, and Supervisor.

3. Install the software by running the following silent install command from the installation files location using the deployment tool:

```
setup.exe /s /v/qn /v"/l* "c:\AnalystTemp\analyst.txt"" /v/norestart
```
4. Before opening the Analyst MD software, restart the computers on which the Analyst MD software was installed.

Update the Firmware and Configuration Tables

Note: For information on the firmware and configuration table versions supported in the Analyst MD 1.7.3 software, refer to the section: [Firmware and Configuration Tables Files](#).

Note: Before using the Analyst MD software for hardware profile activation and acquisition, the firmware, and the configuration table if applicable, must be upgraded.

Use the Firmware and Configuration Table update utility to automatically determine if firmware or configuration tables must be updated on the system. The utility performs only the required updates. The utility might also reset the mass spectrometer system controller. This is normal and is required by the update process.

Installation Instructions

If the system has a GPIB connection, then, before running this utility, make sure that the mass spectrometer is turned on and connected to the GPIB card and that the GPIB driver software is properly installed.

1. If a DVD is being used, then insert the Analyst MD 1.7.3 software DVD in the DVD drive.
2. On the DVD drive or in the extracted web download package, browse to the `\Extras\Instrument Update\ConfigUpdater` folder and then double-click **ConfigUpdater.exe**.
The Select Interface dialog opens.
3. (SCIEX 4500MD and Citrine systems) Select the **Ethernet** interface option and then click **OK**.
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.

4. Click **Next**.
The message `Click OK to start the upload and do not interrupt. The buttons will be disabled until the upload finishes.` is shown.
5. Click **OK** to start the upload.
6. Wait until the `Uploaded firmware is ready` message is shown, and then click **OK**.
The Firmware/Configuration Table Update Program dialog with a list of supported instruments opens.
7. Click **Next**.
A dialog with the detected newer configuration table version opens.

Note: If the utility provides more than one choice for the configuration file name, choose the version listed in the section: [Firmware and Configuration Tables Files](#).

8. Click **Next**.
The message `Click OK to start the upload and do not interrupt. The buttons will be disabled until upload finishes.` is shown.
9. Click **OK** and wait until the message `Uploaded Configuration Table is ready.` is shown.
10. Click **OK**.
The configuration table update is complete and the ConfigUpdater confirms that the configuration table is the current version.
11. Click **Finish** to close the utility.

Install the GPIB Driver

Note: GPIB 17.0 is pre-installed on all applicable SCIEX Windows 10 computer images.

Note: This procedure is only required for an acquisition workstation for SCIEX 3200MD systems and if GPIB 17.0 is not installed on the computer.

Perform this procedure to install the current version of the GPIB driver.

1. Log on to the computer as a user with Windows local administrator privileges.
2. If the Analyst MD software DVD is used, then insert the **Analyst MD 1.7.3 Software DVD** in the DVD drive of the computer.
3. Browse to the `Drivers\GPIB 17.0` folder on the DVD.
4. Locate the **NI4882_1700f0.exe** and then double-click it.
5. Follow the on-screen instructions to install the driver.
6. If the Analyst MD 1.7.3 Software web download package is used, then contact National Instrument support at <https://www.ni.com/en-ca/support.html> to download the GPIB driver version 17.0 for NI-488.2. Unzip the downloaded file and then install the driver.

Install the National Instrument ADC Driver

Note: Install this driver only if a National Instrument ADC card is used with an LC device for acquisition.

Perform this procedure to install the current version of the ADC driver.

1. If the Analyst MD 1.7.3 software web download package is used, then download the ADC driver from [sciex.com/software-support/software-downloads](https://www.sciex.com/software-support/software-downloads) under **Additional Downloads > Drivers**. Unzip the downloaded file and install the driver.
2. Log on to the computer as a user with Windows local administrator privileges.
3. If the Analyst MD 1.7.3 software DVD is used, then insert the Analyst MD 1.7.3 DVD in the DVD drive of the computer.
4. Browse to the `Drivers\ADC\NIDAQ1710f0` folder on the DVD.
5. Locate and then double-click `setup.exe`.
6. Follow the on-screen instructions to install the driver.

Install the Edgeport 6.04 Driver

Note: This procedure is not required for the SCIEX Workstation.

Note: Install this driver only if an Edgeport device is used with an LC device for acquisition.

Perform this procedure if Edgeport is required or the user is upgrading to the Analyst MD 1.7.3 software from a previous version of the software.

1. Make sure that the Edgeport device is not connected to the computer.
2. (If applicable) Remove the existing Edgeport driver version 5.7 using the Edgeport Configuration Utility under Digi USB from the **Start** menu.
3. Restart the computer.
4. Log on to the computer as a user with Windows local administrator privileges.
5. Install the *Analyst MD 1.7.3 Software DVD*, if available, in the DVD drive of the computer, or locate the unzipped Analyst MD 1.7.3 software installation package downloaded from sciex.com/software-support/software-downloads.
6. Browse to the `Drivers\Edgeport6.04` folder.
7. Double-click the Edgeport driver file, `40002537_M.exe`.
8. Click **Setup** in the Edgeport Drivers dialog.
A command prompt opens during the installation.
9. Connect the Edgeport device once the command prompt closes on its own. The Edgeport driver will automatically install.
To make sure the Edgeport driver was installed properly:
 - a. Select **Digi USB** in the Start menu.
 - b. Click **Edgeport Configuration Utility**.
 - c. Make sure that the Edgeport device is shown on the General tab.
 - d. Double-click **Edgeport** to expand the list, and confirm that all of the serial (COM) ports are listed.

(Optional) Install Scripts

A number of scripts are available to extend the functionality of the Analyst MD software. Refer to the document: *Scripts User Guide*. It is available from the Start menu:

- **Start > SCIEX Analyst > Analyst Documentation** and then double-click the *Software Guides* folder.

(Optional) Remove the sMRM Calculator Script

Note: If the Analyst MD software is upgraded from version 1.6.3 to version 1.7.3, then the scripts that were previously installed by users are not automatically upgraded. Remove these scripts and then install them again using the scripts for the Analyst MD 1.7.3 software. For more information, refer to the document: *Scripts User Guide*.

1. Open Control Panel, and then click **Programs and Features**. Select **sMRM Calculator**, and then click **Uninstall**.
2. Click **Yes**.
The selected script is removed.

Electronic Licensing

The Analyst MD software supports only node-locked licensing for both acquisition and processing workstations. The license file name must be Analyst1.7 with the file extension lic and it must be located at C:\ProgramData\AB SCIEX\Analyst\License on the computer where the Analyst MD software is installed.

Note: To activate a hardware profile including a mass spectrometer, or to acquire data, a node-locked license for acquisition is required.

Note: Do not change the computer date and time after the license is activated. If the computer date and time must be changed, then do so before activating the license. Otherwise, the software might not function.

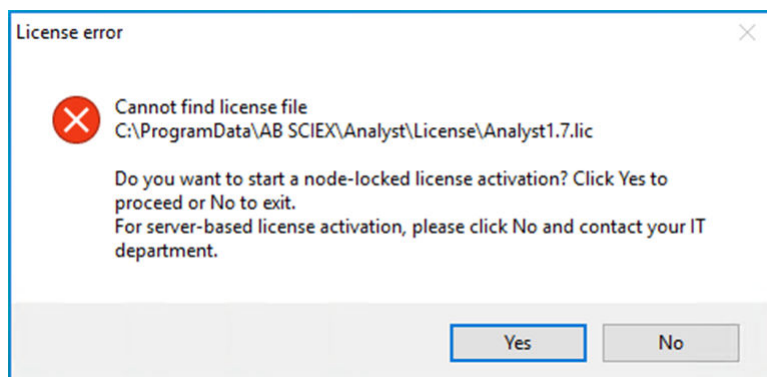
Note: Do not modify a node-locked license file. Modifying the license file invalidates the license and it becomes unrecoverable.

Activate a Node-Locked License for the Analyst MD Software

1. Double-click the Analyst MD software icon on the desktop.
A message is shown indicating that the license file Analyst1.7.lic cannot be found in the C:\ProgramData\AB SCIEX\Analyst\License folder.

Installation Instructions

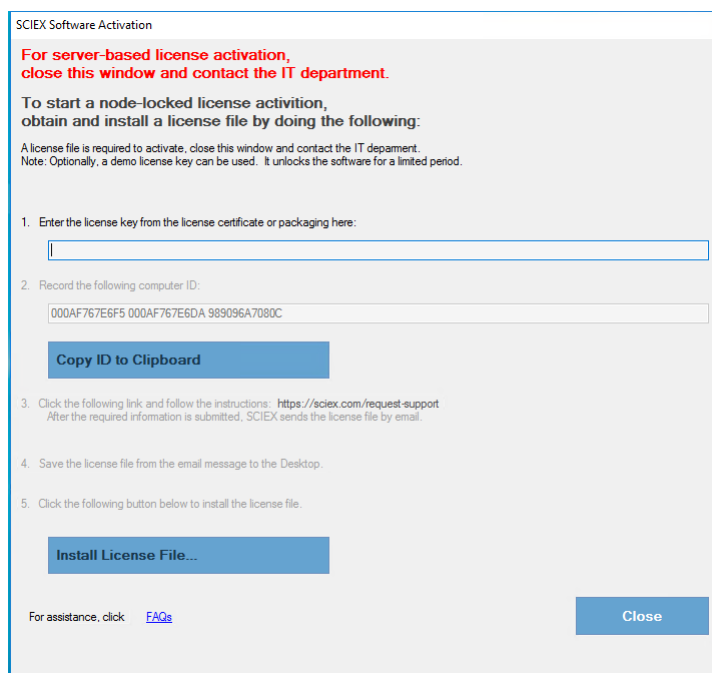
Figure 3-3 License Message



2. Click **Yes** to start node-locked license activation.

The software initiates the software activation process by showing a software activation dialog. Follow the instructions in the dialog. A license key is required.

Figure 3-4 Software Activation Dialog



3. Type the license key from the license certificate in step 1 in the Software Activation dialog. The license key might be distributed on a printed activation certificate or in an e-mail from SCIEX Now. If the license key is missing, then contact a SCIEX sales representative.

Note: The license key starts with AID and is followed by 32 characters, consisting of 8 segments of 4-digit codes separated by hyphens.

4. Click the link in the Software Activation dialog.
The SCIEX Login web page opens.
 5. Either click **Log In** to log on to an existing SCIEX account or click **Create an Account** to create an account.
After the log on or account creation is completed, the software activation SCIEX web page is shown. The first name, last name, and e-mail ID of the user are shown in the first three fields in the form in addition to Computer ID and license key.
 6. Select and then enter the required information under **Select Your Instrument**.
-

Note: To activate a node-locked license for a processing workstation, use a serial number for one of the SCIEX mass spectrometers. Contact SCIEX Support at sciex.com/contact-us if the mass spectrometer serial number is not available.

7. If a license is being activated for the Analyst MD software on a different computer, then type the computer ID and the license key.

The computer ID is the MAC address of the network port used to connect the computer to the network.

If a license is being activated for the Analyst MD software on this computer, then the **Computer ID** and **license key** fields are already populated with the correct information.

8. Click **Submit**.
A message is shown indicating that an e-mail with the license file will be sent.
9. After the e-mail is received, download the attached license file, and then put it on the Desktop.
10. Go to step 5 of the Sciex Software Activation dialog and then click **Install License File**.
Browse to and select the downloaded license file and then click **Open**.
11. Make sure that the `Analyst1.7.lic` is installed in the `C:\ProgramData\AB SCIEX\Analyst\License` folder.

(Optional) Instead of doing steps 9 to 11, the license file can be directly put into the `C:\ProgramData\AB SCIEX\Analyst\License` folder.

Note: Make sure that the license file name is `Analyst1.7.lic`.

Run the Software for the First Time after License Activation

1. Start the Analyst MD 1.7.3 software by double-clicking the icon on the desktop.
2. (For acquisition workstations) Configure and then activate a hardware profile.
3. Test the software to make sure that data can be acquired or processed.

Troubleshooting

A

At SCIEX, we are committed to providing the highest level of support for Analyst MD software users. To obtain answers to questions about any of our products, report problems, or suggest improvements, visit the website at sciex.com.

Issue	Possible Cause	Corrective Action
After installing, I cannot log on to the Analyst MD software.	<ul style="list-style-type: none">• The user name might not have been successfully added to the security database or the computer name might have been changed after the Analyst MD software was installed.• The license file has an incorrect name or it is stored in an incorrect folder.• The license either is invalid or has expired.• The computer time has been manually changed after the license activation.	<p>To resolve this, log in as a network user who is in the Security database and has administrator rights. Then add the local Administrator in the People tab in the Security Configuration dialog and give it the administrator privilege. If a network user is not available in the Security Database, then change the computer name back to what it was before the Analyst MD software was installed. To change the computer name, make sure to first add a network user with Administrator privilege.</p> <p>Make sure a valid software license is installed.</p>
I see the error message "Failed to load the parameter settings file" when I try to start a profile in the Analyst MD software.	If the user restored any files or folders from a DVD, or copied over files shipped with the instrument, then these files might be set as read only.	To use these files, remove the read-only setting from the files using File Explorer.

Firmware and Configuration Tables

B

The following instrument firmware and configuration table versions must be used with the Analyst MD 1.7.3 software. This table is for reference purposes only.

Instructions for making sure that the latest versions of these files are installed are provided in the section: [Update the Firmware and Configuration Tables](#)

Table B-1 Firmware and Configuration Table Files for the Analyst MD 1.7.3 Software

System	Firmware Version	Configuration Table File
SCIEX Triple Quad 3200MD system	MIL3004	B9633002.fw
3200MD QTRAP system	MIL3004	B9631002.fw
SCIEX Triple Quad 4500MD system	PIL2004	FWTripleQuad4500R04.fw
QTRAP 4500MD system	PIL2004	FWQTrap4500R02.fw
Citrine Triple Quad system	PIL2004	FWCitrineTripleQuadR02.fw
Citrine QTRAP system	PIL2004	FWCitrineQTrapR01.fw

Peripheral Devices and Firmware

C

The Analyst MD 1.7.3 software supports the devices listed in the following table. Firmware versions that have been fully qualified with the Analyst MD 1.7.3 software are listed without parentheses. Versions shown in parentheses have functioned acceptably in more limited testing.

In most cases, more recent firmware versions from the device manufacturer will work with the Analyst MD 1.7.3 software. If issues occur, then change the device firmware to an earlier version, a previously known working version, or the version listed in this table. For information on verifying and upgrading firmware, refer to the documentation provided by the device manufacturer. For information on installation and configuration of devices, refer to the document: *Peripheral Devices Setup Guide*.

Devices supported in older versions of the Analyst MD software continue to be supported, including the ExionLC series devices. In addition, the Analyst MD 1.7.3 software supports the Analyst Device Driver version 1.3. Refer to the *Release Notes* for the Analyst Device Driver 1.3 for a list of supported devices.

Note: The Agilent Infinity II series of devices and CTC PAL 3 are controlled by the Analyst Device Driver (ADD).

Table C-1 ExionLC 2.0 Systems

Peripheral Device	Model	Tested Firmware	Communication Cable Required
LPG Pump	LPGP-200	1.07	Ethernet
Binary Pump	BP-200	1.07	Ethernet
Binary Pump+	BP-200+	1.01	Ethernet
Autosampler	AS-200	1.22	Ethernet
Autosampler+	AS-200+	1.22	Ethernet
Column Switching (Valve drive)	DR-200	6.20	Ethernet
Column Oven	CO-200	2.02	Ethernet
Multiwavelength Detector	MWD-200	1.11	Ethernet
Diode Array Detector	DAD-200	1.11	Ethernet

Peripheral Devices and Firmware

Table C-1 ExionLC 2.0 Systems (continued)

Peripheral Device	Model	Tested Firmware	Communication Cable Required
Diode Array Detector - HS	DADHS-200	1.24	Ethernet
Wash System	WS-200	1.14	Ethernet

Table C-2 Jasper HPLC System

Peripheral Device	Tested Firmware (and other firmware)	Communication Cable Required
SCIEX Dx Pump	5.01, (5.0)	Optic
SCIEX Dx Sampler	5.0	Optic
SCIEX Dx Oven	5.0	Optic
SCIEX Dx Controller	5.10, (5.0)	Ethernet
SCIEX Dx Degasser	5.0	—

Table C-3 Shimadzu CL Devices

Peripheral Device	Tested Firmware (and other firmware)	Communication Cable Required
SIL-20ACXR CL autosampler	(5.0)	All other Shimadzu devices require 2-pin optical cables to connect to the system controller. These cables are available from Shimadzu.
SIL-20AC CL autosampler	(5.0)	—
SIL-30AC CL autosampler	(5.0)	—
SIL-30ACMP CL autosampler	(5.0)	—
LC-20ADXR CL pump	(5.0)	—
LC-20AD CL pump	(5.0)	—
LC-30AD CL pump	—	—
CTO-20AC CL column oven	—	—
CTO-30A CL column oven	—	—

Table C-3 Shimadzu CL Devices (continued)

Peripheral Device	Tested Firmware (and other firmware)	Communication Cable Required
SPD-20A CL UV-VIS detector	—	—
SPD-20AV CL UV-VIS detector	—	—
SPD-M20A CL PDA detector	—	Ethernet
SPD-M30A CL PDA detector	—	Ethernet
CBM-20 A CL with Ethernet Switch (system controller with 8 fiber optic ports)	(2.81, 1.2.1, 1.30, 2.30, 1.06, 1.05)	Ethernet
CBM-20 A Lite CL	—	Ethernet
Degasser DGU-20A3R CL; DGU-20A5R CL	—	—

Table C-4 ExionLC AC/ExionLC AD Systems

Peripheral Device	Tested Firmware (and other firmware)	Communication Cable Required
ExionLC 100	(0.34)	Ethernet
ExionLC Controller	5.10, 3.3, (3.2)	Ethernet
ExionLC CBM-Lite	—	Ethernet
ExionLC AC Pump	5.01, (3.11)	Optic
ExionLC AC Autosampler	5.00, (2.05)	Optic
ExionLC AC Column Oven	5.00, (2.03)	Optic
ExionLC AD Pump	(3.11)	Optic
ExionLC AD Autosampler	(3.12)	Optic
ExionLC AD Multiplate Sampler	(3.11)	Optic
ExionLC AD Column Oven	(3.11)	Optic

Peripheral Devices and Firmware

Table C-4 ExionLC AC/ExionLC AD Systems (continued)

Peripheral Device	Tested Firmware (and other firmware)	Communication Cable Required
ExionLC PDA Detector	4.02, (3.11)	Ethernet Note: The PDA Detector requires a switching hub to connect to the system controller and the acquisition computer. Refer to the document: <i>ExionLC PDA Detector Operator Guide</i> .
ExionLC UV Detector	2.03, (3.11)	Optic
ExionLC Degasser	—	—

Table C-5 Agilent 1290

Peripheral Device	Model	Tested Firmware (and other firmware)	Communication Cable Required
1290 Infinity Devices			
Binary pump	G4220A	B.06.73 ^{1 2} , (B.06.32, A.06.55, B.06.30)	WC024736 (RS-232) or Ethernet
Standard autosampler	G4226A	A.07.01 ^{1 2} , (A.06.32, A.06.54, A.06.30)	WC024736 (RS-232) or Ethernet
Column compartment	G1316C	A.07.01 ^{1 2} , (A.06.32, A.06.30)	WC024736 (RS-232) or Ethernet
DAD	G4212A	(B.06.32, B.06.30)	Ethernet

Table C-6 Agilent 1260 K Model and 1260 G Model Devices

Peripheral Device	Model	Tested Firmware (and other firmware)	Communication Cable Required
Agilent 1260 K Model Devices			
Binary pump	K1312	(A.06.32)	WC024736 or Ethernet

¹ Tested as an integrated device

² Tested through ADD

Table C-6 Agilent 1260 K Model and 1260 G Model Devices (continued)

Peripheral Device	Model	Tested Firmware (and other firmware)	Communication Cable Required
High performance autosampler	K1367	(A.06.54, A.06.32)	WC024736 or Ethernet
Agilent 1260 G Model Devices			
Isocratic pump	G1310B	(A.06.32)	WC024736 or Ethernet
Quaternary pump	G1311B	(A.06.32)	WC024736 or Ethernet
Binary pump	G1312B	(A.06.32)	WC024736 or Ethernet
Standard autosampler	G1329B	(A.06.32, A.06.54)	WC024736 or Ethernet
High performance autosampler	G1367E	A.06.54 ³ , (A.06.32)	WC024736 or Ethernet
Thermostatted column compartment (TCC)	G1316A	(A.06.32)	WC024736
Diode array detector (DAD)	G4212B , G1315 C, D	(B.06.32)	Ethernet
Agilent 1260 Infinity II Devices (Controlled through Analyst Device Driver (ADD))			
Binary pump	G7120A	B.07.34	CAN or Ethernet
Multisampler	G7167B	D.07.34	Ethernet or, if the system contains a DAD, then CAN
Column Compartment	G7116B	D.07.34	CAN

Table C-7 CTC PAL Devices

Peripheral Device	Tested Firmware (and other firmware)	Communication Cable Required
HTS PAL autosampler	(4.2, 4.1.x, 2.4.0)	WC024736

³ Tested as an integrated device⁴ Tested through ADD

Peripheral Devices and Firmware

Table C-7 CTC PAL Devices (continued)

Peripheral Device	Tested Firmware (and other firmware)	Communication Cable Required
HTC PAL autosampler	(4.2, 4.1.x, 2.4.0)	WC024736
LC PAL autosampler	(4.2, 4.1.x, 2.4.0, 2.3.1)	WC024736
DLW (HTC-XT)	(4.2.0, 4.1.x and Rev 5 cycle files)	WC024736 or Ethernet

Table C-8 Harvard Devices

Peripheral Device	Tested Firmware (and other firmware)	Communication Cable Required
Harvard	(22 Syringe Pump)	22.90

Table C-9 Shimadzu Devices

Peripheral Device	Tested Firmware (and other firmware)	Communication Cable Required
CBM-20 A with Ethernet Switch (system controller with 8 fiber optic ports)	3.61 ^{5 6 7} , 5.10 ⁵ , (2.81, 1.2.1, 1.30, 2.30, 1.06, 1.05)	Ethernet
CBM-20 A Lite with Ethernet Switch (system controller with 4 fiber optic ports; installs onto pump or autosampler)	—	Ethernet
CBM-40 System Controller	1.50, 1.30	Ethernet
CBM-40 Lite System Controller	—	Ethernet
SCL-40 System Controller	1.30	Ethernet
SIL-20ACXR autosampler	1.25 ^{5 6 7} , 5.00 ⁵ , (1.20, 1.22, 1.23, 1.25)	

⁵ Tested on a Shimadzu LC-20 system or a Shimadzu LC-30 system that was activated through the Integrated System Shimadzu LC-20/30 Controller, and not through the Integrated System Shimadzu LC Controller.

⁶ Tested on a Shimadzu LC-20 system or a Shimadzu LC-30 system that was activated through the Integrated System Shimadzu LC Controller.

⁷ Tested on a Shimadzu LC-20 system or a Shimadzu LC-30 system that was activated through the Integrated System Sciex LC Controller.

Table C-9 Shimadzu Devices (continued)

Peripheral Device	Tested Firmware (and other firmware)	Communication Cable Required
SIL-20AXR autosampler	(1.20)	
SIL-20A autosampler	—	Optic
SIL-20AC autosampler	(1.20)	Optic
SIL-30AC autosampler	—	Optic
SIL-30ACMP autosampler	(1.03)	Optic
SIL-40 autosampler	—	Optic
SIL-40C autosampler	—	Optic
SIL-40C X3 autosampler	1.05	Optic
SIL-40C XR autosampler	1.08, 1.05	Optic
LC-20AB pump	—	Optic
LC-20AB Binary Solvent Delivery Unit	—	—
LC-20AD pump	2.11 ^{8 9 10} , (1.10, 1.07, 1.04)	Optic
LC-20AD XR pump	5.01 ⁸ , (1.20, 1.21, 1.22)	Optic
LC-20AT pump	—	Optic
LC-30AD pump	(1.04, 2.01, 2.1, 3.01)	Optic
LC-40D pump	—	Optic
LC-40D XR pump	1.04	Optic
LC-40B XR pump	—	Optic
LC-40D X3 pump	—	Optic
LC-40B X3 pump	1.04	Optic
CTO-20A column oven	—	Optic
CTO-20AC column oven	1.07 ^{8 9 10} , (1.06)	Optic

⁸ Tested on a Shimadzu LC-20 system or a Shimadzu LC-30 system that was activated through the Integrated System Shimadzu LC-20/30 Controller, and not through the Integrated System Shimadzu LC Controller.

⁹ Tested on a Shimadzu LC-20 system or a Shimadzu LC-30 system that was activated through the Integrated System Shimadzu LC Controller.

¹⁰ Tested on a Shimadzu LC-20 system or a Shimadzu LC-30 system that was activated through the Integrated System Sciex LC Controller.

Peripheral Devices and Firmware

Table C-9 Shimadzu Devices (continued)

Peripheral Device	Tested Firmware (and other firmware)	Communication Cable Required
CTO-30A column oven	5.00 ⁸ , (3.0, 3.10, 2.1)	Optic
CTO-30AS column oven	(0.07)	Optic
CTO-40C column oven	1.00	Optic
CTO-40S column oven	1.00	Optic
SPD-20A UV-VIS detector	—	Ethernet, Optic
SPD-20AV UV-VIS detector	(1.03, 1.11)	Ethernet, Optic
SPD-40V UV-Vis detector	1.04	Optic
SPD-M40 PDA detector	2.00	Ethernet Note: The detector requires a switching hub to connect to the system controller and the acquisition computer.
RF-20A XS fluorescence detector	2.02	Optic
OptionBox-L subcontroller	(3.2)	WC024736 (RS-232 cable) or Ethernet
SubcontrollerVP	(5.20)	WC024736 (RS-232 cable) or Ethernet
FCV-12AH valve	—	—
FCV-13AL valve	—	—
FCV-14AH valve	—	—
FCV-0607H3 high-pressure flow-line switching valve (6-position, 7-port)	1.02	—
Rack Changer	—	—
Rack Changer II	(2.0)	—
Nexera Plate Changer	1.05	—

Table C-10 Valco Devices

Peripheral Device	Tested Firmware (and other firmware)	Communication Cable Required
2-Position Valve	(1-PD-EPX88RL)	—

Table C-11 Acquity Devices

Peripheral Device	Tested Firmware (and other firmware)	Communication Cable Required
Acquity Binary Solvent Manager	(1.50.1521)	—
Acquity Sample Manager	(1.50.2730)	—
Acquity Column Manager	(1.50.1678)	Ethernet

Windows Operating System Configuration

D

Windows Update

Making sure that critical security patches are installed is essential to maintaining the security of the computer. Follow these guidelines for the configuration and use of Windows Update:

- Configure Windows Update to notify only. Do not download and install updates automatically as this may impact systems during data acquisition.
- Download and install updates as soon as possible after notification is received.
- Before installing updates:
 - Wait until acquisition and processing is finished.
 - Deactivate the devices and stop the AnalystService.
- Install all updates. If an issue occurs as the result of an update, report it to SCIEX at sciex.com/contact-us or sciex.com/request-support as soon as possible.

User Account Control Settings

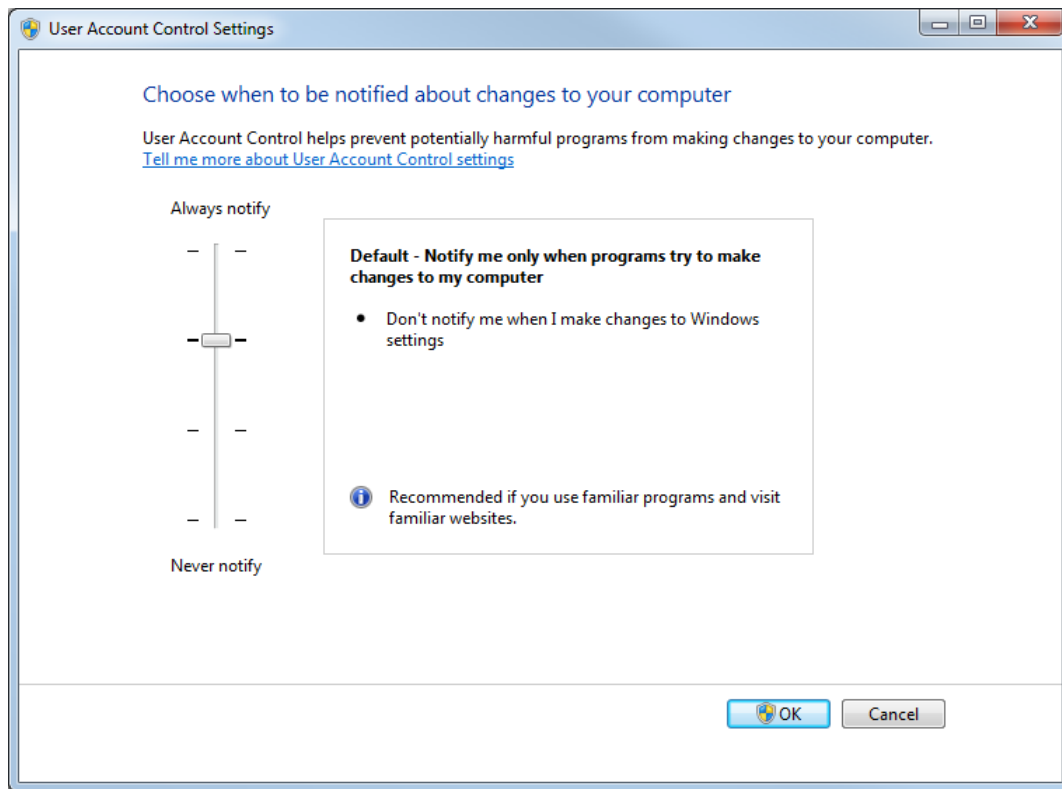
User Account Control Settings

We recommend the use of the default settings for User Account Control when the Analyst MD 1.7.3 software is installed on the Windows 10, 64-bit, operating system. For the Administrator, the default setting is **Notify me only when programs try to make changes to my computer**. For standard users, it is **Always notify me**.

The acquisition computer comes configured with the default User Account Control settings.

1. Open Control Panel.
2. Click **Security and Maintenance > Change User Account Control settings**.
3. On the **User Account Control Settings** dialog, move the slider bar to the required level.
4. For the Administrator, select **Notify me only when programs try to make changes to my computer (default)**, and then click **OK**.

Figure D-1 User Account Control Setting for the Administrator



5. For standard users, select **Always notify me when**, and then click **OK**.

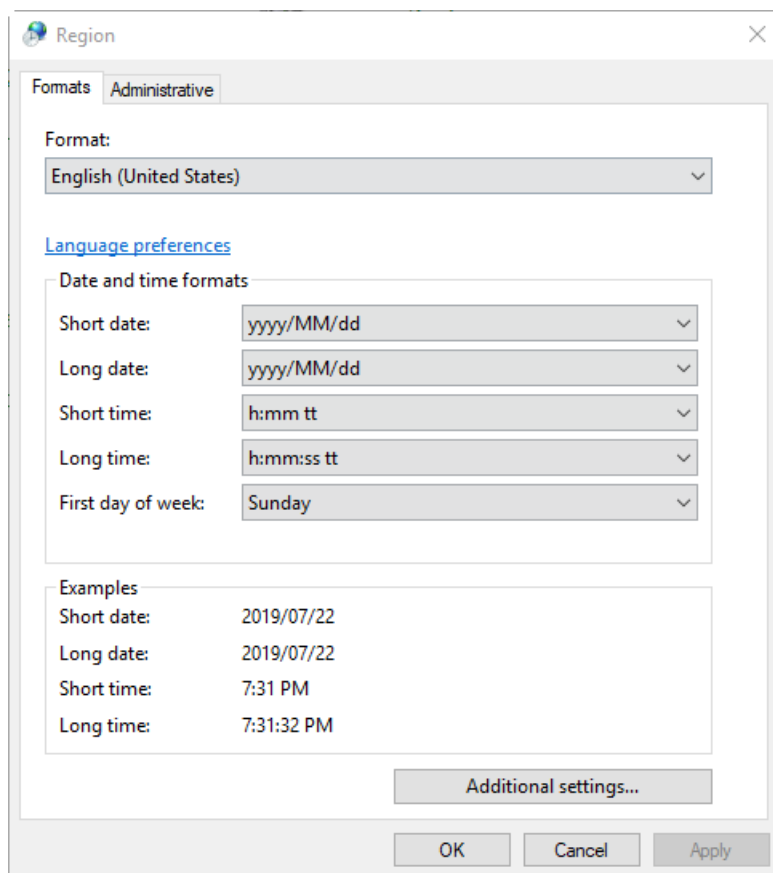
Region and Language Settings

Region Settings

Note: Setting the **Format** field to a different value might cause the software to show the file information or the audit trail information incorrectly.

1. Open Control Panel.
2. Click **Region**.

Figure D-2 Region Dialog



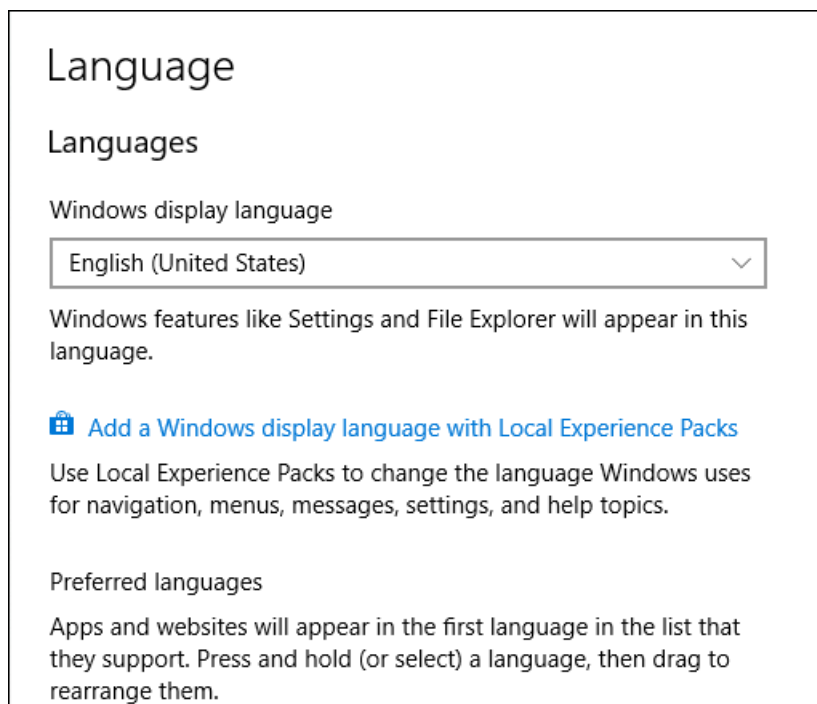
3. Make sure that the **Format** field is set to English (United States), French (France), or German (Germany).
4. Click **Apply**.
5. Click **OK**.

Language Settings

Note: Setting the **Windows display language** to a different value might cause the software to show the file information or the audit trail information incorrectly.

1. Open Control Panel.
2. Click **Region**.
3. Click **Language preferences**.

Figure D-3 Language Dialog: Windows 10 Operating System



4. For the **Windows display language**, select **English (United States)**.

Analyst MD Software Documentation E

Refer to the following table for a list of the software guides and tutorials that are installed with the Analyst MD 1.7.3 software. These guides and tutorials can be accessed at **Start > All apps > SCIEX Analyst MD > Analyst MD Documentation**.

The software guides and tutorials are installed in the C:\Program Files (x86)\Analyst Help folder.

Table E-1 Software Documentation

Document	Description
<i>Advanced User Guide</i>	Describes the features and functionality of the Analyst MD software.
<i>Laboratory Director Guide</i>	Describes the security functionality of the Analyst MD software.
<i>Scripts User Guide</i>	Provides procedures for installing and using the Analyst MD software scripts.
<i>Manual Tuning Tutorial</i>	Provides procedures for manually tuning the system.
<i>IDA Tutorial</i>	Provides procedures for using the IDA Method Wizard to create an IDA experiment.
<i>Scheduled MRM Tutorial</i>	Provides procedures for using the <i>Scheduled</i> MRM algorithm feature.
<i>Peripheral Devices Setup Guide</i>	Provides procedures for connecting peripheral devices to the computer and instrument.
<i>Standard Quantitation Tutorial</i>	Provides procedures for creating a method that can be used to obtain a quantitation curve using prepared standards.
<i>ExionLC 2.0 Software User Guide</i>	Provides procedures for configuring and using ExionLC 2.0 devices in the software.

Table E-1 Software Documentation (continued)

Document	Description
<i>Help</i>	Provides procedures for setting up and using the Analyst MD software to create methods, acquire samples, and analyze data.

Hardware Guides

The System User Guides are available on the Documentation DVD delivered with each mass spectrometer.

Table E-2 Hardware Guides

Document	Description
<i>Qualified Maintenance Person Guide</i>	<p>Provides procedures for cleaning and maintaining the instrument.</p> <hr/> <p>Note: Only trained operators should perform any cleaning or maintenance procedure.</p> <hr/>
<i>3200MD Series of Instruments System User Guide</i>	Provides information for the SCIEX 3200MD system: safety and system information, hardware profiles, projects, instrument tuning and calibrating, basic acquisition methods, batches, analyzing and processing data, information about the Turbo V ion source, generic parameters, calibration ions and solutions, and cleaning and maintaining the system.
<i>4500MD Series of Instruments System User Guide</i>	Provides information for the SCIEX 4500MD systems: safety and system information, hardware profiles, projects, instrument tuning and calibrating, basic acquisition methods, batches, analyzing and processing data, information about the Turbo V ion source, generic parameters, calibration ions and solutions, and cleaning and maintaining the systems.

Table E-2 Hardware Guides (continued)

Document	Description
<i>Citrine Series of Instruments System User Guide</i>	Provides information for Citrine systems: safety and system information, hardware profiles, projects, instrument tuning and calibrating, basic acquisition methods, batches, analyzing and processing data, information about the IonDrive Turbo V ion source, generic parameters, calibration ions and solutions, and cleaning and maintaining the system.

Contact Us

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

Online Learning Center

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SCIEX Support

SCIEX and its representatives maintain a staff of fully-trained service and technical specialists located throughout the world. They can answer questions about the system or any technical issues that might arise. For more information, visit the SCIEX website at sciex.com or contact us in one of the following ways:

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

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Documentation

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

To view this document electronically, Adobe Acrobat Reader is required. To download the latest version, go to <https://get.adobe.com/reader>.

To find software product documentation, refer to the release notes or software installation guide that comes with the software.

To find hardware product documentation, refer to the documentation DVD for the system or component.

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