



Analyst[®] 1.7 Software with HotFix 1

Software Installation Guide



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Introduction

1

This guide provides information about, and procedures for, installing the Analyst[®] 1.7 Software with HotFix 1. The guide also includes information on supported devices and firmware and troubleshooting installation.

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

Contact Us

SCIEX Support

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

Customer Training

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

Online Learning Center

- [SCIEXUniversity](#)

CyberSecurity

For the latest guidance on cybersecurity for SCIEX products, visit sciex.com/Documents/brochures/win7-SecurityGuidance.pdf.

Technical 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 website at sciex.com.

Important Information to Know Before Installing

Note: Back up the Analyst Data folder to a safe location before upgrading. For more information, refer to [Back up the Analyst Data Folder to a Safe Location on page 23](#). **Do not rename the existing folder.** This folder contains the API Instrument folder, which contains the basic instrument calibration and parameter settings.

Note: If you upgrade to the Analyst[®] 1.7 Software with HotFix 1 from a previous version of the Analyst[®] software such as version 1.6 or higher, the previous version will be removed during the upgrade process.

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

- The Analyst[®] 1.7 Software with HotFix 1 uses electronic licensing. For license activation, refer to [Electronic Licensing on page 29](#).
- Do not attempt to install the software without following the installation instructions provided in this guide.
- The Analyst[®] 1.7 Software with HotFix 1 data files are not compatible with all previous versions of the Analyst[®] software. However, you can open data acquired in the previous versions of the Analyst[®] software in the Analyst[®] 1.7 Software with HotFix 1.
- Results tables created with the Analyst[®] 1.7 Software with HotFix 1 cannot be opened in Analyst[®] 1.5.x software.
- Use the task list provided at the beginning of the installation procedure in this guide to check off each task as you complete it. The order in which you perform the installation steps is important.
- All peripheral devices supported in the Analyst[®] 1.5.2 software and later continue to be supported in the Analyst[®] 1.7 Software with HotFix 1. Refer to [Peripheral Devices and Firmware on page 36](#).
- The Analyst[®] 1.7 Software with HotFix 1 is available as either a software DVD or web download package for customers upgrading from supported previous versions of the Analyst software. Refer to [Installation Instructions on page 16](#).
- Deactivate the hardware profile and close the Analyst[®] software before installing the Analyst[®] 1.7 Software with HotFix 1.
- For more information about the compatibility of the Analyst[®] with other software applications, refer to [Compatible Software on page 11](#) and [Non-Compatible Software on page 12](#).

Software Installation Requirements

2

This section explains the operating system, hardware, and software requirements that acquisition and processing workstations must meet for the Analyst[®] 1.7 Software with HotFix 1 to operate.

Operating System Requirements

The Analyst[®] 1.7 Software with HotFix 1 requires Microsoft Windows 7 (32-bit) or (64-bit) SP1 operating system on Dell Optiplex 9010 or Dell Optiplex XE2 computers or the Microsoft Windows 10, 64-bit (Win10 IoT Enterprise LTSB 1607 64-bit EMB English) operating system on Dell Optiplex XE2 computers.

Network Environment

The Analyst[®] 1.7 Software with HotFix 1 supports the Microsoft Windows 2008 R2 and 2012 servers.

Acquisition Workstation Requirements for the Dell Optiplex 9010 and XE2 Computer

It is highly recommended that you purchase an acquisition workstation, including the communication interface cards, from SCIEX. These configured systems meet all requirements and undergo extensive testing and verification with the Analyst[®] software. Detailed specifications for these systems are shipped with the workstation. For more information, contact a SCIEX sales representative.

The Dell Optiplex 9010 and XE2 computers are recommended for use with Windows 7 or Windows 10. For acquisition workstations, SCIEX recommends the following minimum computer configurations:

For Dell Optiplex 9010 Computer

- Intel Core I5-3550s
- 4 Gb DDR3 1600 Mhz SDRAM
- 2 × 2 Tb HDD (RAID1)
- DVD ± RW
- One DP-DVI adapter
- Two single-port Broadcom Ethernet cards

Software Installation Requirements

For Dell Optiplex XE2 Computer

- 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

The Analyst[®] 1.7 Software with HotFix 1 has been qualified for acquisition on the current PC configuration. Refer to [Current Shipping Configuration for the Dell XE2 Acquisition Workstations](#).

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.

Supported Acquisition Computer Models

As of the software release date, the Analyst[®] 1.7 Software with HotFix 1 has been tested and verified for compatibility with the Dell Optiplex 9010 and XE2 computers.

Note: Newer systems might become available. For more information, contact a SCIEX sales representative.

Processing Workstation Requirements

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

- Intel Core i5-4570S Processor
- 8 GB (2 x 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 Shipping Configuration for the Dell XE2 Acquisition Workstations

The Dell XE2 acquisition workstation comes installed with the Microsoft Windows 10, 64-bit (Win10 IoT Enterprise LTSB 1607 64-bit EMB English) operating system.

This computer is RoHS compliant and can be used as an acquisition workstation or stand-alone processing computer. Windows 7 and 10 come with Internet Explorer 8.0. Most driver software required for the cards are installed.

The acquisition workstation includes the following:

- Two Broadcom network cards PCIe Ethernet, 1 port

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 2-1 Supported Cards and Drivers

Card name	Dell XE2 with Windows 7 or Windows 10
GPIB	17.0
ADC	17.1
Network card – Intel Pro/1000 PT Dual port	9.3.41.0 or later
EdgePort USB	5.7
Network Card — Broadcom	16.2.0.4 or later

Reporter 3.2 Requirements

Microsoft Office 2010, 2013, or 2016 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 7 or Windows 10

If you are using the Analyst[®] 1.7 Software with HotFix 1 with the Windows 7 or Windows 10 operating system, we recommend that you use the Windows default settings for User Account Control. 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[®] 1.7 Software with HotFix 1. All of them, except .NET 3.5, are automatically installed by the Analyst[®] 1.7 Software with HotFix 1 installer if they are not already installed on the computer before the installation of the Analyst[®] software.

- .NET 3.5

Note: On Microsoft Windows 7 operating system, .NET 3.5 is installed by default. On Windows 10 operating system, if .NET 3.5 is not already installed before the installation of the Analyst[®] 1.7 Software with HotFix 1, then the user is informed that .NET 3.5 is not installed and should be installed after the installation is completed. Users should contact their IT department to install .NET 3.5. Refer to [Figure 3-1](#).

- .NET 4.5.1
- MS VC++ 2008 SP1 redistributable
- MS VC++ 2008 SP1 ATL security redistributable
- Visual Studio 2010 Tools for Office runtime (different for Windows 7 (32-bit), Windows 7 (64-bit), and Windows 10 (64-bit))
- SaveAsPdf
- Microsoft Office 2010 Primary Interop Assemblies (installed if the workstation has Microsoft Office 2010, 2013, or 2016)
- SCIEX Reporter Template Suite 3.2 (different for 32-bit and 64-bit operating systems)

Note: If Microsoft Office 2010, 2013, or 2016 was not installed on the system before the Analyst[®] 1.7 Software with HotFix 1 installation, then Primary Interop Assemblies will not be installed during Analyst[®] software installation. Install them from the ISSetupPrerequisites folder after installing Microsoft Office.

Compatible Software

As of this release, these applications are compatible with the Analyst[®] 1.7 Software with HotFix 1 on Windows 7 and Windows 10 operating systems:

Table 2-2 Compatible Software

Software Name	Additional Information
AAC Server 3.0	Not tested in the Analyst [®] 1.7 Software with HotFix 1
Analyst [®] Device Driver 1.2	
LibraryView [™] 1.0.2 software	Compatible only with Windows 7 (32-bit) and Windows 7 (64-bit) operating systems
LightSight [®] 2.3 software	<ul style="list-style-type: none"> Compatible only with Windows 7 (32-bit) and Windows 7 (64-bit) operating systems Not compatible with 6500+ series of instruments. Compatible with all the other mass spectrometer models. Refer to the LightSight software release notes for details on supported models. Not compatible with ExionLC[™] series
LipidView [™] 1.2 software	Compatible only with Microsoft Windows 7 (32-bit) operating system
MarkerView [™] 1.3.1 software	Compatible with Windows 7 (32-bit), Windows 7 (64-bit), and Windows 10 (64-bit) operating systems
MasterView [™] 1.1 software	Compatible only with Windows 7 (32-bit) and Windows 7 (64-bit) operating systems
MPX [™] 2.0 software	<ul style="list-style-type: none"> Compatible with Windows 7 (64-bit) and Windows 10 (64-bit) operating systems Not compatible with ExionLC[™] series

Software Installation Requirements

Table 2-2 Compatible Software (continued)

Software Name	Additional Information
MultiQuant™ 3.0.3 software	Compatible with Windows 7 (32-bit), Windows 7 (64-bit), and Windows 10 (64-bit) operating systems
PeakView® 2.2 software	Compatible only with Windows 7 (32-bit) and Windows 7 (64-bit) operating systems

Note: Earlier versions of all of these applications are not supported on the Analyst® 1.7 Software with HotFix 1.

For information about the compatibility of AAO applications, refer to [Peripheral Devices Controlled via AAO Software Interface on page 37](#).

Non-Compatible Software

At the time of this release, these applications are not compatible with the Analyst® 1.7 Software with HotFix 1:

- BioAnalyst™ software
- MRMPilot™ software

To inquire about the compatibility of software not included in either of these lists, contact SCIEX support or your sales representative.

Supported Mass Spectrometers

The Analyst[®] 1.7 Software with HotFix 1 can control and analyze data from each of the following SCIEX mass spectrometers:

- SCIEX Triple Quad[™] 3500 LC-MS/MS system
- QTRAP[®] 4500 LC-MS/MS system
- SCIEX Triple Quad[™] 4500 LC-MS/MS system
- QTRAP[®] 5500 LC-MS/MS system
- SCIEX Triple Quad[™] 5500 LC-MS/MS system
- QTRAP[®] 6500 LC-MS/MS system
- SCIEX Triple Quad[™] 6500 LC-MS/MS system
- QTRAP[®] 6500+ LC-MS/MS system
- SCIEX Triple Quad[™] 6500+ LC-MS/MS system
- 4000 QTRAP[®] LC-MS/MS system
- 3200 QTRAP[®] LC-MS/MS system
- API 5000[™] LC-MS/MS system
- API 4000[™] LC-MS/MS system
- API 3200[™] LC-MS/MS system

Note: Previously released (not included in the above list) models of mass spectrometers that are not supported by SCIEX anymore may be compatible with the Analyst[®] 1.7 Software with HotFix 1. However, these mass spectrometers have not been specifically verified and SCIEX makes no claims as to whether or not they can be used with the Analyst[®] 1.7 Software with HotFix 1.

Key Content of the Analyst[®] 1.7 Software with HotFix 1 DVD

The following software applications, files, folders, and documents are included on the Analyst[®] 1.7 Software with HotFix 1 DVD:

- Analyst[®] 1.7 Software with HotFix 1 folder: Contains all of the scripts, software guides, tutorials, setup.exe, all of the files required to install the Reporter software, all of the prerequisite software, except .NET 3.5, required for the Analyst[®] software installation, and all of the files required to install the Analyst[®] software.
- Drivers folder: Contains the ADC, Edgeport 5.7, GPIB 17.0, and NIDAQ1710f0 driver folders.

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- Extras folder: Contains the following:
 - AAO: Contains the Analyst Access Object release notes and user guide.
 - ACROREAD: Contains the Adobe Acrobat Reader 10.0.1.
 - Agilent BOOTP Package: Contains a utility that controls the Agilent LC devices using Ethernet (in most cases, an additional Ethernet adapter is required).
 - Analyst Device Driver 1.2: Contains the device driver software and the related documents.
 - Examples: Contains sample methods, data, and results files.
 - Instrument Update: Contains the Firmware/Configuration Table Update Program (ConfigUpdater.exe).
 - Scripting Cookbook: Contains a guide that provides information for writing applications to control the Analyst[®] software.
 - Tune Data: Contains the TuneData.tun file.
- *Release Notes*.
- *Analyst[®] Software Installation Guide* (this document).
- *license.rtf*

Note: For a complete list of documents and their location, refer to [Analyst[®] Software Documentation on page 51](#).

Key Contents of the Analyst[®] 1.7 Software with HotFix 1 Web Download Package

The following software application and documents are included in the Analyst[®] 1.7 Software with HotFix 1 web download package:

- Drivers folder: contains the Edgeport 5.7 driver folder and the ADC driver folder.
- Extras folder: Contains the following subfolders:
 - Instrument Update: Contains the Firmware/Configuration Table Update Program (ConfigUpdater.exe).
 - Scripting Cookbook: Contains a guide that provides information for writing applications to control the Analyst[®] software.
 - Tune Data: Contains the TuneData.tun file.
- Analyst[®] 1.7 Software with HotFix 1 folder: Contains all of the scripts, software guides, tutorials, setup.exe, all of the files required to install the Reporter software, all of the prerequisite software, except .NET 3.5, required for the Analyst[®] software installation, and all of the files required to install the Analyst[®] software.
- *Release Notes*.

- *Analyst[®] Software Installation Guide* (this document).
- *license.rtf*

Note: For a complete list of documents and their location, refer to [Analyst[®] Software Documentation on page 51](#).

Installation Instructions

3

This section provides procedures for installing or upgrading to the Analyst[®] 1.7 Software with HotFix 1. It can be done using one of the following:

- The Analyst[®] 1.7 Software with HotFix 1 DVD: Use the DVD for a fresh installation of the Analyst[®] 1.7 Software with HotFix 1 without any previous version of the Analyst[®] software as a prerequisite. Also, use the DVD to upgrade to the Analyst[®] 1.7 Software with HotFix 1 from a supported previous version of this software on the Windows 7 operating system.
- The Analyst[®] 1.7 Software with HotFix 1 web download package: Use the web download package for a fresh installation of the Analyst[®] 1.7 Software with HotFix 1 without any previous version of the Analyst[®] software as a prerequisite. Also, use the web download package to upgrade to the Analyst[®] 1.7 Software with HotFix 1 from a supported previous version of this software on the Windows 7 operating system.

Using the Analyst[®] 1.7 Software with HotFix 1 DVD or Analyst[®] 1.7 Software with HotFix 1 web download package, you can upgrade to the Analyst[®] 1.7 Software with HotFix 1 from the following previous versions of this software:

- Analyst[®] 1.6 Software
- Analyst[®] 1.6 Software with Components for 6500 Series Instruments
- Analyst[®] 1.6.1 Software
- Analyst[®] 1.6.2 Software
- Analyst[®] 1.6.2 Software with Components for 3500 Series Instruments
- Analyst[®] 1.6.2 Hotfix to February 2015
- Analyst[®] 1.6.3 Software
- Analyst[®] 1.6.3 HotFix 1
- Analyst[®] 1.6.3 HotFix 2
- Analyst[®] 1.6.3 HotFix 3
- Analyst[®] 1.6.3 HotFix 4
- Analyst[®] 1.7 Software

Note: Upgrading to the Analyst[®] 1.7 Software with HotFix 1 from previous versions of the Analyst[®] software is possible ONLY on the Windows 7 platform. Users who want to run the Analyst[®] 1.7 Software with HotFix 1 on Windows 10 require a fresh installation. If the Analyst[®] 1.7 software is currently installed on Windows 10, then it must be uninstalled before installing the Analyst[®] 1.7 Software with HotFix 1.

Note: The Convert Methods script has been updated for defect fixes and to allow conversion to and from all supported instruments. The script is not automatically replaced during the installation of the Analyst[®] 1.7 Software with HotFix 1. Uninstall the Convert Methods script before upgrading to the Analyst[®] 1.7 Software with HotFix 1 (Refer to [\(Optional\) Uninstall the Convert Methods Script on page 29](#)). After the upgrade to the Analyst[®] 1.7 Software with HotFix 1 is complete, re-install this script from <drive>:\Program Files (x86)\Analyst\Scripts\Convert Methods folder on Microsoft Windows 7 (64-bit) operating system or <drive>:\Program Files\Analyst\Scripts\Convert Methods folder on Microsoft Windows 7 (32-bit) operating system. The script is also available in the Install\Scripts folder on the Analyst[®] 1.7 Software with HotFix 1 DVD or the web download package.

Note: The order of the upgrade procedures is important. Use the [Task List for Installation on page 22](#) to make sure that you complete each procedure.

Note: You must be logged in as a user with Administrator privileges to install the Analyst[®] 1.7 Software with HotFix 1.

Note: Removing the Analyst[®] 1.7 Software with HotFix 1 from the system will uninstall the Analyst[®] 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.

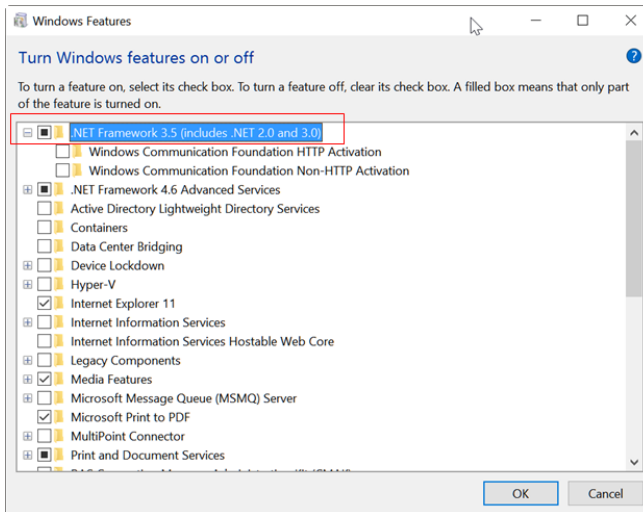
Note: If you upgrade the acquisition workstation to the Analyst[®] 1.7 Software with HotFix 1, we recommend that you upgrade the processing workstation as well.

On 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 3.5** feature is selected. If it is not selected, then select it to enable the install of .NET 3.5. You might need IT permission to do this. Refer to [Figure 3-1](#).

Note: The current SCIEX shipping computer images for the Analyst[®] 1.7 Software with HotFix 1 has .NET 3.5 installed.

Installation Instructions

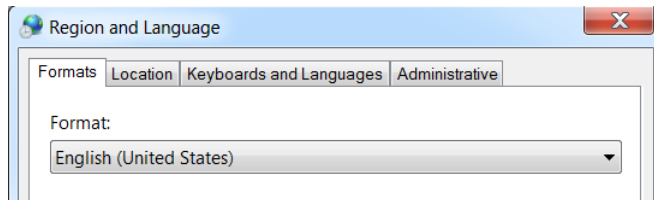
Figure 3-1 Windows Features Dialog



- Only the English version of the Windows 7 or 10 operating system is supported.

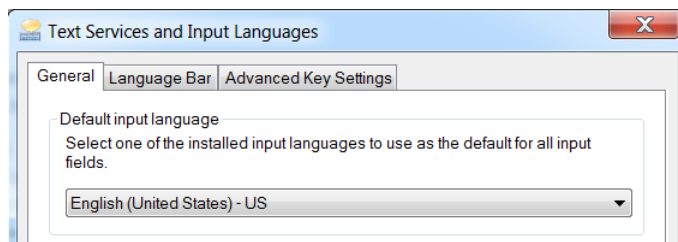
- The following settings must be completed in Control Panel.
 1. **(Microsoft Windows 7 operating systems)** In the Region and Language dialog, on the Formats tab, set the **Format** field to **English (United States)**.

Figure 3-2 Region and Language Dialog - Windows 7



2. Click the Keyboards and Languages tab and then click **Change Keyboards**.
3. In the Text Services and Input Languages dialog, on the General tab, select **English (United States) - US** as the default input language.

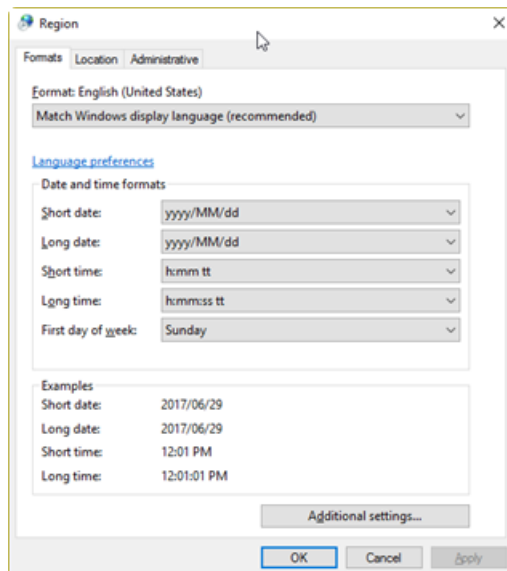
Figure 3-3 Text Services and Input Languages Dialog - Windows 7



1. **(Microsoft Windows 10 operating systems)** In the Control Panel, click **Clock, Language, and Region > Region** and then in Region dialog, select **English (United States)** in the **Format** field.

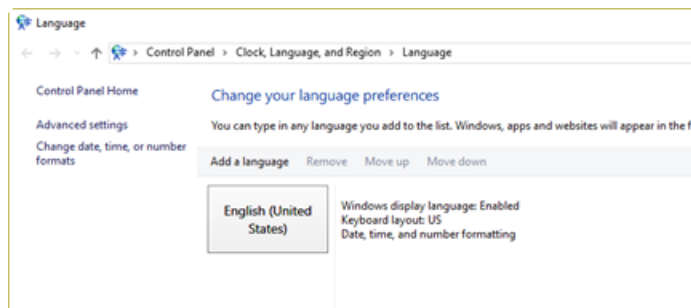
Figure 3-4 Region Dialog - Windows 10

Installation Instructions



2. Click **Apply**.
3. Click **OK**.
4. In Control Panel, click **Clock, Language, and Region > Language** and then select **English (United States)** as the default input language.

Figure 3-5 Language Dialog - Windows 10




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

The upgrade instructions in this section can be used for both acquisition workstations (workstations that are connected to an instrument) and processing workstations (workstations that are not connected to an instrument).

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

Table 3-1 Procedures for Acquisition and Processing Workstations

Workstation	Procedure
Acquisition workstations	Complete all procedures in this section (note that some procedures are optional, or are required only if you have certain interface cards installed in the workstation).
Processing workstations	Complete only those procedures marked with the following icon:  You can omit any upgrade procedures related to: <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! Photocopy this checklist so you can check off each step as you proceed through the installation instructions.

Table 3-2 Checklist

Icon	Step	Procedure
P	Make sure that the workstation meets the requirements for installing the Analyst [®] software.	Refer to Software Installation Requirements .
P	Assemble the required and optional DVDs you need for the installation. Only for installation from web download package: <ul style="list-style-type: none">• Make sure that you have downloaded the Analyst[®] 1.7 Software with HotFix 1 package from the SCIEX website.	Refer to Assemble the Software DVDs on page 23 .
P	Prepare the instrument and workstation for the installation.	Refer to Prepare the Instrument and Workstation for Installation on page 23 .
P	Check your User Account Control Settings.	Refer to User Account Control Settings in Windows 7 and Windows 10 on page 46 .
P	Back up the Analyst Data folder to a safe location.	Refer to Back up the Analyst Data Folder to a Safe Location on page 23 .
P	Install the Analyst [®] 1.7 Software with HotFix 1.	Refer to Install the Analyst[®] 1.7 Software with HotFix 1 on page 24 .
	Update the firmware and configuration tables, if required.	Refer to Update the Firmware and Configuration Tables on page 26 .
P	(Optional) Install any scripts.	Refer to (Optional) Install Scripts on page 28 .
P	Set up the license.	Refer to Electronic Licensing on page 29 .
P	Run the Analyst [®] software for the first time.	Refer to Run the Software for the First Time on page 32 .

Prepare to Install

Assemble the Software DVDs

1. Locate the Analyst[®] 1.7 Software with HotFix 1 DVD.
2. If required, locate any DVDs containing optional add-on software.

Prepare the Instrument 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. For acquisition workstations, if the workstation has a GPIB connector, then make sure that the instrument is powered on and connected to the GPIB connector at the back of the workstation.
3. If you are upgrading from a previous version of the Analyst[®] software, then do the following before installing the Analyst[®] 1.7 Software with HotFix 1.
 - a. Deactivate the active hardware profile.
 - b. Exit the Analyst[®] software.
 - c. Restart the computer.

Back up the Analyst Data Folder to a Safe Location

Do not rename the existing Analyst Data folder. When you upgrade, we recommend that you use the same Analyst Data folder from your previous installation. This gives you access to your existing data, such as hardware profiles, methods, and data files. It also retains your InstrumentData.ins and ParameterSettings.psf files and *.Analyst Backup files (one for the low mass mode and one for the high mass mode). For 6500 and 6500+ series of instruments, two backup files for InstrumentData.ins file and two backup files for ParameterSettings.psf file were created if you 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. You are not required to restore these files as part of a normal upgrade. However, it is good practice to make sure that a backup exists.

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

Installation Instructions

Note: As part of normal installation, the API Instrument folder, CompoundDB.mdb, and CompoundLib.db are automatically backed up to the TEMP folder on your system. This folder is normally stored in <drive>:\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.

Uninstall Analyst Device Driver

If Analyst Device Driver (ADD) is currently installed on the computer, then uninstall ADD and its components regardless of the version in the following order before upgrading to the Analyst[®] 1.7 Software with HotFix 1:

1. Uninstall Analyst Device Driver. Refer to the *Release Notes* for Analyst Device Driver installed on the computer.
2. Using Control Panel, uninstall **Agilent Instrument Control Framework**.
3. Using Control Panel, uninstall **Agilent Instrument Control Framework - LC Drivers**.
4. Using Control Panel, uninstall **PAL3 RC.NET Driver for Sciex** if it is listed in the **Uninstall or change a program** list.

Install the Analyst[®] 1.7 Software with HotFix 1

Note: Microsoft Word 2010, 2013, or 2016 is required to generate reports. If you do not have Microsoft Word 2010, 2013, or 2016 installed on the system, during the installation process a warning is shown informing you that Microsoft Word 2010, 2013, or 2016 is required for the Reporter software to function correctly. Either cancel the installation or continue. After the Analyst[®] 1.7 Software with HotFix 1 is installed, install Microsoft Word 2010, 2013, or 2016 if required.

Note: After installing Microsoft Word, install the Primary Interop Assemblies available on the Analyst[®] 1.7 Software with HotFix 1 DVD in the "Analyst 1.7 Software\ISSetupPrerequisites\Microsoft Office 2010 Primary Interop Assemblies" folder for MS Office 2010, 2013, and 2016.

Note: If you are planning to use the Analyst[®] software with Analyst[®] Device Driver (ADD), then make sure to do the following in the given order: first, uninstall ADD and its components if ADD is currently installed on the computer. Refer to [Uninstall Analyst Device Driver on page 24](#). Next, install or upgrade to the Analyst[®] 1.7 Software with HotFix 1 and then install ADD 1.2 using Analyst[®] 1.7 Software with HotFix 1 DVD or download ADD 1.2 from the SCIEX website (for the Analyst[®] software web download package users). Refer to [Install Analyst[®] Device Driver 1.2](#).

Complete the following procedures to upgrade the workstation to the Analyst[®] 1.7 Software with HotFix 1 release.

Using the Analyst[®] 1.7 Software with HotFix 1 DVD

1. If upgrading from a previous version of the Analyst[®] software, then make sure that there is no active hardware profile and close the Analyst[®] software before installing the Analyst[®] 1.7 Software with HotFix 1.
2. Restart the computer.
3. Insert the **Analyst 1.7 Software with HotFix 1 DVD** in the DVD drive of the computer.
4. On the DVD, browse to the **Analyst 1.7 Software with HotFix 1** folder and then double-click **setup.exe**.
5. Follow the instructions on the screen to install the Analyst[®] software.
6. On Windows 10 operating system, if .NET 3.5 is not already installed on the computer, then in **Control Panel > Program and Features**, select **Turn Windows features on or off**.

The Windows Features dialog opens.

7. Select the **.NET Framework 3.5** option to enable the install of .NET 3.5. You might need IT permission to do this.
8. After the installation, confirm the presence of .NET 3.5 in the Windows Features dialog. If it is installed, the **.NET Framework 3.5** option will be selected.
9. Place the license file **Analyst1.7.lic** in the C:\ProgramData\AB SCIEX\Analyst\License folder.

Refer to [Electronic Licensing on page 29](#) to obtain a license before proceeding to the following steps.

10. (Acquisition workstations only) Upgrade the firmware and configuration table before proceeding to the following steps. Refer to [Update the Firmware and Configuration Tables on page 26](#).
11. (Acquisition workstations when using 3200, 4000, and 5000 systems only) Update the GPIB driver. Refer to [Install the GPIB Driver on page 27](#).
12. Update the ADC driver if required. Refer to [Install the ADC Driver on page 28](#).

Using the Analyst[®] 1.7 Software with HotFix 1 Web Download Package

1. Deactivate the active hardware profile in the Analyst[®] software.
2. Close the Analyst[®] software before installing the Analyst[®] 1.7 Software with HotFix 1.
3. Restart the computer.
4. Download the Analyst[®] 1.7 Software with HotFix 1 web download package (**Analyst17-WebRelease.zip**) on your system from <https://sciex.com/products/software/analyst-software>.
5. Extract the files from the compressed web download package on the local hard drive.

Installation Instructions

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

6. Navigate to the folder where the contents of the **Analyst17-WebRelease.zip** file were extracted.
7. Double-click **setup.exe**.

The Installer Wizard opens.

8. Follow the on-screen instructions to install the software.
9. After the Analyst[®] software is installed, place the license file **Analyst1.7.lic** in the C:\ProgramData\AB SCIEX\Analyst\License folder.

Refer to [Electronic Licensing on page 29](#) to obtain a license before proceeding to the following steps.

10. (Acquisition workstations only) Upgrade the firmware and configuration table before proceeding to the following steps. Refer to [Update the Firmware and Configuration Tables on page 26](#).
11. (Acquisition workstations when using 3200, 4000, and 5000 systems only) Update the GPIB driver. Refer to [Install the GPIB Driver on page 27](#).
12. Update the ADC driver if required. Refer to [Install the ADC Driver on page 28](#).

Install Analyst[®] Device Driver 1.2

Note: If required, install Analyst[®] Device Driver 1.2 after the Analyst[®] 1.7 Software with HotFix 1 installation is completed. If ADD is currently installed on the computer, then, first, uninstall ADD and its components (refer to [Uninstall Analyst Device Driver on page 24](#)), then install the Analyst[®] 1.7 Software with HotFix 1, and, finally, install ADD 1.2.

- Download the Analyst[®] Device Driver 1.2 from **Software Downloads** in the **Downloads & Resources** section at the SCIEX site: <https://sciex.com/products/software/analyst-software>.

Update the Firmware and Configuration Tables

Note: For information on the firmware and configuration table versions supported in the Analyst[®] 1.7 Software with HotFix 1, refer to [Firmware and Configuration Tables Files on page 34](#).

Use the Firmware and Configuration Table Update program 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.

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. Insert the Analyst[®] 1.7 Software with HotFix 1 DVD into the DVD drive if it is not already in.
2. On the DVD drive or in the extracted web download package, navigate to the \Extras\Instrument Update\ConfigUpdater folder and then double-click **ConfigUpdater.exe**.

The Firmware/Configuration Table Update Program page opens, identifying the new firmware version it will install.

3. Click **Next**.
4. Follow the on-screen instructions.

Note: If the utility presents you with more than one choice for the configuration file name, choose the version listed in [Firmware and Configuration Tables Files on page 34](#).

Note: For 3500, 4500, 5500, 6500, 6500+ series of instruments, upgrade the firmware, and the configuration table if applicable, before using the Analyst[®] software for hardware profile activation and acquisition.

Note: (For the QTRAP[®] 4500 system) After upgrading the firmware and configuration table using the ConfigUpdater, reset the mass spectrometer using the red reset button or switch off the mass spectrometer and then switch it back on before using it with the Analyst[®] software.

5. Click **Finish**.

Install the GPIB Driver

Note: This procedure is only required for an acquisition workstation for 3200, 4000, or 5000 series of instruments.

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[®] software DVD is used, then insert the **Analyst[®] 1.7 Software with HotFix 1 DVD** in the DVD drive of the computer.
3. Navigate 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[®] 1.7 Software with HotFix 1 web download package is used, then download the GPIB driver from <http://www.ni.com/download/ni-488.2-17.0/6627/en/>. Unzip the downloaded file and then install the driver.

Install the ADC Driver

Note: Install this driver only if an ADC card is used for acquisition along with an LC.

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

1. Log on to the computer as a user with Windows local administrator privileges.
2. If the Analyst[®] software DVD is used, then insert the **Analyst[®] 1.7 Software with HotFix 1 DVD** in the DVD drive of the computer.
3. Navigate to the Drivers\ADC\NIDAQ1710f0 folder on the DVD.
4. Locate **setup.exe** and then double-click it.
5. Follow the on-screen instructions to install the driver.
6. If the Analyst[®] 1.7 Software with HotFix 1 web download package is used, then download the ADC driver from <http://www.ni.com/download/ni-daqmx-17.1/6836/en/>. Unzip the downloaded file and install the driver.

Install the Edgeport Driver 5.7

Perform this procedure if Edgeport is required but the Edgeport driver is not installed or the user is upgrading to the Analyst[®] 1.7 Software with HotFix 1 from a previous version of the software and the current Edgeport driver is a lower version.

1. Make sure that the Edgeport device is not connected to the computer.
2. Log on to the computer as a user with Windows local administrator privileges.
3. Install the **Analyst[®] 1.7 Software with HotFix 1 DVD** in the DVD drive of the computer.
4. Navigate to the Drivers\Edgeport5.7 folder on the DVD.
5. Locate the Edgeport driver and double-click **40002537_J.exe** file.
6. Follow the on-screen instructions to install the driver.

(Optional) Install Scripts

- A number of research-grade scripts are available to extend the functionality of the Analyst[®] software. Refer to the *Scripts User Guide* found in the Start Menu: (Microsoft Windows 7 operating system) **All Programs**

> **SCIEX > Analyst > Software Guides** or (Microsoft Windows 10 operating system) **SCIEX Analyst > Analyst Documentation > Software Guides**.

(Optional) Uninstall the Convert Methods Script

Note: If the Analyst[®] software is upgraded to the 1.7 with HotFix 1 version, then the scripts that were previously installed by users would not be upgraded automatically. These scripts should be uninstalled and then installed again using the scripts for the Analyst[®] 1.7 Software with HotFix 1. For more details, refer to the *Scripts User Guide*.

1. Navigate to the following folder on the system:

- <drive>:\Program Files\Analyst\Scripts\Convert Methods on Microsoft Windows 7 (32-bit) operating system.
- <drive>:\Program Files (x86)\Analyst\Scripts\Convert Methods on Microsoft Windows 7 (64-bit) or Windows 10 operating system

2. Double-click **Convert Methods Setup.exe**.

The InstallShield Wizard is launched.

3. Click **Next**.

4. Click **Remove** and then click **Next**.

5. Click **Remove**.

6. Click **Yes** on the User Account Control message to allow the removal.

7. Click **Finish**.

The selected script is uninstalled.

Electronic Licensing

The Analyst[®] software supports node-locked licensing for both acquisition and processing workstations. The server-based licensing is only supported for 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[®] software is installed, for both node-locked and server-based license.

Note: To activate a hardware profile with a real mass spectrometer or acquire data, you must have a **node-locked license for acquisition**. A license for processing will not allow you to activate a real instrument hardware profile or acquire data.

Installation Instructions

Note: Do not change the computer date and time after the license is activated for both node-locked and server-based. If you need to change the computer date and time, then do it before activating the license. Otherwise, the software might not function.

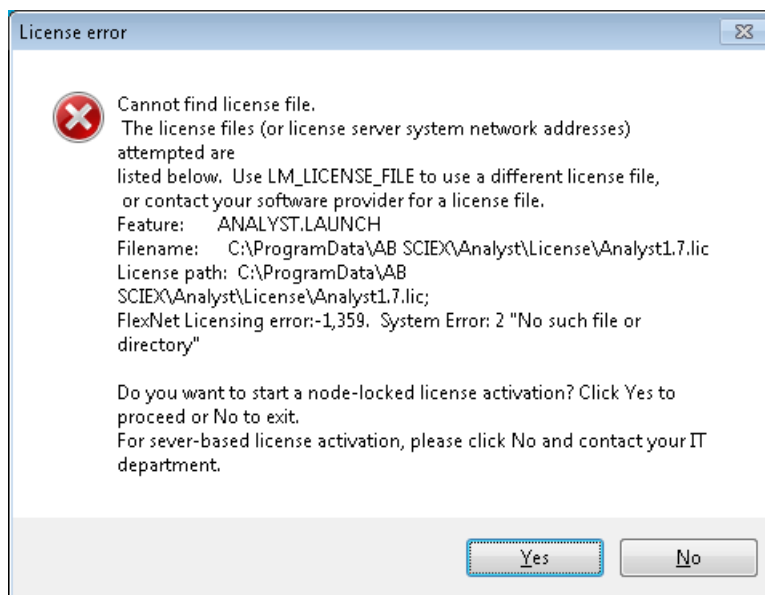
Note: Do not modify a node-locked license file regardless if it is for an acquisition station or a license server. Modifying the license file will invalidate the license and it will be unrecoverable.

Activate a Node-Locked License for the Analyst[®] Software

1. Double-click the Analyst[®] software icon on the desktop.

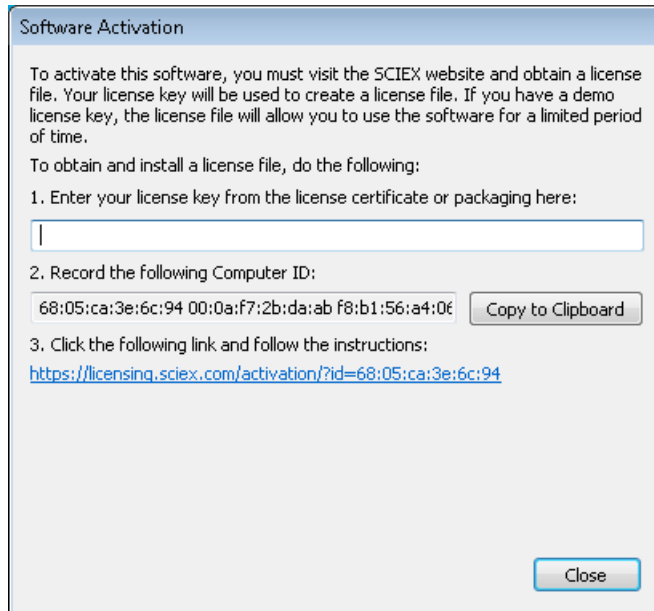
A message is shown indicating that the license file Analyst1.7.lic cannot be found in the C:\ProgramData\AB SCIE\Analyst\License folder.

Figure 3-6 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 3-7 Software Activation Dialog

3. Type the license key from the license certificate in step 1 in the Software Activation dialog.
4. Click the link in step 3 in the Software Activation dialog.

The SCIEX Login web page to log into the SCIEX account opens.

5. Either click **Log In** to log on to a SCIEX account or click **Create an Account** to create a new account if you do not have a SCIEX account.

After the log on or account creation is completed, the software activation SCIEX web page is shown. The user's first name, last name, and e-mail ID are shown in the first three fields in the form in addition to Computer ID and License key.

6. Select and 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 your SCIEX instruments. Contact SCIEX Support at sciex.com/contact-us if you do not have an instrument serial number.

7. If a license is being activated for the Analyst[®] software on a different computer, then enter the Computer ID, which is the MAC address of the network port used to connect the computer to the network, and the License Key.

Installation Instructions

If a license is being activated for the Analyst[®] software on this computer, then 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 place it in the C:\ProgramData\AB SCIEX\Analyst\License folder.

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

Activate Server-Based License

For a server-based license, contact your IT department to do the following:

1. Setup a license server
2. Create a license file named as Analyst1.7.lic for the client computers.
3. Distribute the license file to each client computer where the Analyst[®] software is installed.

To set up a license server, ask the IT department to download the *License-Server-Setup.zip* file by clicking the link **License Server Setup Software** in the **Additional Downloads > License Server Setup** section at the following site: <https://sciex.com/software-support/software-downloads>

For license server setup procedure, refer to the *License Server Setup Guide* within the downloaded package.

Note: To change the license file on a computer where the Analyst[®] software is installed, the AnalystService must be first stopped in the Task Manager.

Run the Software for the First Time

1. Start the Analyst[®] 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 Tips

A

At SCIEX, we are committed to providing the highest level of support for Analyst[®] 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 or solution
After installing, I cannot log on to the Analyst [®] software.	<p>Your user name might not have been successfully added to the security database or you might have changed your computer name after the Analyst software was installed. To resolve this, log in as a network user who you know is in the Security database and has administrator right. 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, change the computer name back to what it was before the Analyst software was installed. If you need to change the computer name, make sure to first add a network user with administrator privilege.</p> <p>The following reasons could also lead to login issues:</p> <ul style="list-style-type: none">• The license file has incorrect name or is stored in an incorrect folder.• The license is either invalid or has expired.• The computer cannot connect to the license server for a server-based license.• The license file is not pointing to the right server for a server-based license.• The license server is down for a server-based license.• Maximum licensed number has reached for a server-based license.• The computer time or the license server computer time has been manually tampered with after the license activation.
I see the error message "Failed to load the parameter settings file" when I try to start a profile in the Analyst [®] software.	If you restored any files or folders from a DVD, or copied over files shipped with your instrument, these files might be set as read only. To use these files, remove the read- only setting from the files using Windows Explorer.

Firmware and Configuration Tables Files

B

The following instrument firmware and configuration table versions must be used with the Analyst® 1.7 Software with HotFix 1. Instructions for making sure that the latest versions of these files are installed are shown in the [Update the Firmware and Configuration Tables on page 26](#). These tables are for reference purposes only.

Table B-1 Firmware Files for the 4500, 5500, 6500, and 6500+ Series of Instruments

Firmware	Version
All systems	PIL1800

Table B-2 Firmware Files for Other Mass Spectrometers

Firmware	Version
340 Main	M401402
332 Main	M3L1417
425 Main	MIL3004

Table B-3 Configuration Table Files for the Analyst® 1.7 Software with HotFix 1

System	Configuration Table File
SCIEX Triple Quad™ 3500 LC-MS/MS System	FWTripleQuad3500R10.fw
QTRAP® 4500 LC-MS/MS system	FWQTrap4500R20.fw
SCIEX Triple Quad™ 4500 LC-MS/MS system	FWTripleQuad4500R20.fw
QTRAP® 5500 LC-MS/MS system	FWQTrap5500R05.fw
SCIEX Triple Quad™ 5500 LC-MS/MS system	FWTripleQuad5500R05.fw
QTRAP® 6500 LC-MS/MS system	FWQTrap6500R03.fw
SCIEX Triple Quad™ 6500 LC-MS/MS system	FWTripleQuad6500R03.fw
QTRAP® 6500+ LC-MS/MS system	FWQTrap6500+R01.fw
SCIEX Triple Quad™ 6500+ LC-MS/MS system	FWTripleQuad6500+R01.fw
4000 QTRAP® LC-MS/MS system (U series serial number)	B9609010.fw

Table B-3 Configuration Table Files for the Analyst[®] 1.7 Software with HotFix 1 (continued)

System	Configuration Table File
4000 QTRAP [®] LC-MS\MS system (AR series serial number)	B9609031.fw
3200 QTRAP [®] LC-MS\MS system	B9631002.fw
API 5000 [™] LC-MS\MS system	B9669001.fw
API 4000 [™] LC-MS\MS system	B5366005.fw
API 4000 [™] LC-MS\MS system (for the NanoDCI source)	B5366020.fw
API 3200 [™] LC-MS\MS system	B9633002.fw

Peripheral Devices and Firmware

C

The Analyst[®] software supports the devices listed in the following table. Firmware versions that have been fully qualified with the Analyst[®] 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[®] software. If you encounter difficulties, change the device firmware to the version listed in this table. For information on checking and upgrading firmware, refer to the documentation provided by the device manufacturer. For information on installation and configuration of devices, refer to the *Peripheral Devices Setup Guide*.

Table C-1 ExionLC[™] Series of Devices

Peripheral Device	Tested Firmware (and other firmware)	Communication Cable Required
ExionLC [™] 100	00.3, (0.34)	Ethernet
ExionLC [™] Controller	(3.2)	Ethernet
ExionLC [™] CBM-Lite	—	Ethernet
ExionLC [™] AC Pump	(3.11)	Ethernet
ExionLC [™] AC Autosampler	(2.05)	Ethernet
ExionLC [™] AC Column Oven	(2.03)	Ethernet
ExionLC [™] AD Pump	(3.11_	Ethernet
ExionLC [™] AD Autosampler	(3.12)	Ethernet
ExionLC [™] AD Multiplate Autosampler	(3.11)	Ethernet
ExionLC [™] AD Column Oven	(3.11)	Ethernet
ExionLC [™] PDA Detector	(3.11)	Ethernet Note: The PDA Detector requires a switching hub to connect to the system controller and the acquisition computer. Refer to the <i>ExionLC[™] PDA Detector Operator Guide</i> .

Table C-1 ExionLC™ Series of Devices (continued)

Peripheral Device	Tested Firmware (and other firmware)	Communication Cable Required
ExionLC™ UV Detector	(3.11)	Ethernet
ExionLC Degasser	—	N/A

Table C-2 Eksigent

Peripheral Device	Tested Firmware (and other firmware)	Communication Cable Required
ekspert™ ultraLC 100 autosampler	(1.29 or higher)	WC024736 (RS-232 cable)
ekspert ultraLC 100-XL autosampler	(1.02 or higher)	WC024736 (RS-232 cable)
ekspert ultraLC 100 pump	(1.12 or higher)	—
ekspert ultraLC 100 column oven	(2.04 or higher)	—
Eksigent Ultra 2D+	(2.45)	—
Eksigent Ultra 2D	(2.46)	—

Table C-3 Agilent 1290 Infinity and Infinity II Series of Devices

Peripheral Device	Model	Tested Firmware (and other firmware)	Communication Cable Required
Binary Pump	G4220A	B.06.73, (B.06.32, A.06.55, B.06.30)	WC024736 (RS-232 cable) or Ethernet
Standard Autosampler	G4226A	A.06.54, (A.06.32, A.06.30)	WC024736 (RS-232 cable) or Ethernet
Column compartment	G1316C	(A.06.32, A.06.30)	WC024736 (RS-232 cable) or Ethernet
DAD	G4212A	B.06.30, (B.06.32)	Ethernet
Infinity II High-speed Pump	G7120A	(B.07.10)	CAN
Infinity II Flexible Pump	G7104A	D. 07.20, (B.07.10)	CAN
Infinity II Vialsampler	G7129B	(B.07.10)	CAN
Infinity II Multisampler	G7167B	D. 07.20, (D.07.17)	CAN

Peripheral Devices and Firmware

Table C-3 Agilent 1290 Infinity and Infinity II Series of Devices (continued)

Peripheral Device	Model	Tested Firmware (and other firmware)	Communication Cable Required
Infinity II Multicolumn Thermostat	G7116B	D. 07.20, (D.07.10)	CAN
Infinity II DAD	G7117B	(D.07.10)	Ethernet

Table C-4 Agilent 1260 Infinity and Infinity II Series of Devices

Peripheral Device	Model	Tested Firmware (and other firmware)	Communication Cable Required
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, A.06.32)	WC024736 or Ethernet
TCC— Thermostatted Column Compartment	G1316A	(A.06.32)	WC024736
DAD—Diode Array Detector	G4212B	(B.06.32)	Ethernet
Infinity II Isocratic Pump	G7110B	(D.07.13)	CAN
Infinity II Binary Pump	G7112B		CAN
Infinity II Quarternary Pump	G7111B	(D.07.13)	CAN
Infinity II Vialsampler	G7129A	(B.07.10)	CAN
Infinity II Multisampler	G7167A	(D.07.16)	Ethernet or, if the system contains a DAD, then CAN
Infinity II Multicolumn Thermostat	G7116A	(D.07.13, D.07.16)	CAN
Infinity II DAD	G7117C	(D.07.10)	Ethernet

Table C-5 Agilent 1200

Peripheral Device	Tested Firmware (and other firmware)	Communication Cable Required
Isocratic Pump	(A.06.32, A.06.02)	WC024736 (RS-232 cable) or Ethernet
Quaternary Pump	(A.06.32, A.06.02)	WC024736 or Ethernet
Binary Pump	(A.06.32, A.06.04, A.06.02)	WC024736 or Ethernet
Binary SL Pump	(A.06.32, A.06.53, A.06.04, A.06.02)	WC024736 or Ethernet
Capillary Pump	A.06.06, (A.06.32, A.06.02)	WC024736 or Ethernet
Nanoflow Pump	(A.06.32, A.06.02)	WC024736 or Ethernet
Standard Autosampler	(A.06.32, A.06.54, A.06.10)	WC024736 or Ethernet
High Performance Autosampler	(A.06.32, A.06.54, A.06.04, A.06.02)	WC024736 or Ethernet
High Performance Autosampler SL	A.06.03, (A.06.32, A.06.54)	WC024736 or Ethernet
Micro Well-plate Autosampler	(A.06.32, A.06.02)	WC024736 or Ethernet
High Performance Autosampler SL Plus	(A.06.32)	WC024736 or Ethernet
TCC—Thermostatted Column Compartment (G1316A)	(A.06.32, A.06.02)	WC024736 or Ethernet
TCC SL—Thermostatted Column Compartment (G1316B)	(A.06.32, A.06.02)	WC024736 or Ethernet
DAD—Diode Array Detector	(B.06.53, B.06.32, A.06.32, A.06.02)	WC024736 or Ethernet
DAD SL—Diode Array Detector SL	(B.06.32, B.01.02)	Ethernet

Table C-6 Agilent 1100

Peripheral Device	Tested Firmware (and other firmware)	Communication Cable Required
Binary Pump	(A.06.10, A.05.11, A.05.06, 4.11)	WC024736* (RS-232 cable), WC021365 (GPIB cable), or Ethernet
Quaternary Pump	A.05.11, (A.06.10, 5.04, A.05.11, A.04.11)	WC024736, WC021365, or Ethernet
Isocratic Pump	(A.06.10, A.04.11)	WC024736, WC021365, or Ethernet

Peripheral Devices and Firmware

Table C-6 Agilent 1100 (continued)

Peripheral Device	Tested Firmware (and other firmware)	Communication Cable Required
Capillary Pump	(A.06.30, A.04.11)	WC024736, WC021365, or Ethernet
Nano Pump	(A.06.30, A.05.06, 5.05, 5.04)	WC024736, WC021365, or Ethernet
Standard Autosampler	A.05.11, (A.06.10, A.05.11, 5.04, A.04.10)	WC024736, WC021365, or Ethernet
Micro Autosampler	(A.06.10, A.05.04, 4.10)	WC024736, WC021365, or Ethernet
Well-plate Autosampler	(A.06.31, A.05.07, 4.14, 5.02)	WC024736, WC021365, or Ethernet
Micro Well-plate Autosampler	(A.06.31, A.05.09, 4.14)	WC024736, WC021365, or Ethernet
Thermostatted Column Compartment	A.06.01, (A.06.10, A.05.06, 5.05, 4.11)	WC024736, WC021365, or Ethernet
DAD – Diode Array Detector	(B.06.30, A.06.10, 5.09, A.05.06, 4.11)	WC024736, WC021365, or Ethernet
DAD – Diode Array Detector SL	(B.06.30, B.01.01)	WC024736, WC021365, or Ethernet
* WC024736 is a Standard Null Modem cable DB9/DB9 female		

Table C-7 CTC

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

Peripheral Device	Tested Firmware (and other firmware)	Communication Cable Required
215 Autosampler	(2.20)	WC024735**
with 819 Valve	(1.00)	Gilson GSI0C
233 Autosampler	(BV1.11)	WC024735

Table C-8 Gilson (continued)

Peripheral Device	Tested Firmware (and other firmware)	Communication Cable Required
with 402 Syringe	(SV1.10, SV2.3)	Gilson GSIOC
** WC024735 is a Standard Modem cable DB25 male/DB9 female.		

Table C-9 Harvard

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

Table C-10 LC Packings

Peripheral Device	Tested Firmware (and other firmware)	Communication Cable Required
UltiMate Integrated System	(5.06, 6.00)	Cables available from LC Packings
Famos Autosampler (Well-plate)	(2.02)	Cables available from LC Packings
Famos Autosampler (Carousel)	(1.14)	Cables from LC Packings

Table C-11 PE Series 200

Peripheral Device	Tested Firmware (and other firmware)	Communication Cable Required
Autosampler	(1.08)	WC024736
Column Oven	(1134)	WC024736
Micro Pump	(2.43)	WC024736
Quaternary Pumps	(2.43)	WC024736

Peripheral Devices and Firmware

Table C-12 Shimadzu

Peripheral Device	Tested Firmware (and other firmware)	Communication Cable Required
SCL-10Avp System Controller	(5.40, 5.33)	WC024736
SIL-10ADvp Autosampler	(5.32)	All other Shimadzu devices require 2-pin optical cables to connect to the System Controller. These are available from Shimadzu.
SIL-HTA Autosampler	(6.02)	
SIL-HTC Autosampler	(6.02, 6.03)	
SIL-20ACXR Autosampler	(1.20, 1.22, 1.23, 1.25)	Optic
SIL-20AXR Autosampler	(1.20 or later)	Optic
SIL-20A Autosampler	—	Optic
SIL-20AC Autosampler	(1.20)	Optic
SIL-30AC Autosampler		Optic
SIL-30ACMP Autosampler	(1.03)	Optic
LC-6AD Pump	(1.4)	Optic
LC-8A Pump	(1.5)	Optic
LC-10AD Pump	(3.1)	Optic
LC-10AS Pump	(3.1)	Optic
LC-10AT Pump	(3.1)	Optic
LC-10Ai Pump	(3.1)	Optic
LC-10ADvp Pump	(5.27, 5.25, 5.26)	Optic
LC-10ATvp Pump	(5.27)	Optic
LC-20AB Pump	—	Optic
LC-20AD Pump	(1.10, 1.07, 1.04 or later)	Optic
LC-20ADXR Pump	(1.20, 1.21, 1.22)	Optic
LC-20AT Pump	—	Optic
LC-30AD Pump	(1.04, 2.01, 2.1, 3.01)	Optic
CTO-10A[C] Column Oven	(3.0)	Optic
CTO-10Avp Column Oven	(5.24)	Optic
CTO-10ACvp Column Oven	(5.24)	Optic

Table C-12 Shimadzu (continued)

Peripheral Device	Tested Firmware (and other firmware)	Communication Cable Required
CTO-10ASvp Column Oven	(5.24)	Optic
CTO-20A Column Oven	—	Optic
CTO-20AC Column Oven	(1.06, 1.07)	Optic
CTO-30A Column Oven	(3.0, 3.10, 2.1)	Optic
CTO-30AS Column Oven	(0.07)	Optic
SPD-10A Detector	(3.0)	Ethernet, Optic
SPD-10Ai Detector	(3.0)	Ethernet, Optic
SPD-10AV Detector	(3.0)	Ethernet, Optic
SPD-10AVi Detector	(3.0)	Ethernet, Optic
SPD-10Avp Detector	(5.22)	Ethernet, Optic
SPD-10AVvp Detector	(5.23, 5.22)	Ethernet, Optic
SPD-20A UV-VIS Detector	—	Ethernet, Optic
SPD-20AV UV-VIS Detector	(1.03, 1.11)	Ethernet, Optic
OptionBox-L Subcontroller	(3.2)	WC024736 (RS-232 cable) or Ethernet
SubcontrollerVP	(5.20)	WC024736 (RS-232 cable) or Ethernet
FCV-12AH Valve	N/A	—
FCV-13AL Valve	N/A	—
FCV-14AH Valve	N/A	—
CBM-20 A with Ethernet Switch (system controller with 8 fiber optic ports)	(2.81, 1.2.1, 1.30, 2.30, 1.06, 1.05 or later)	—
CBM-20 A Lite with Ethernet Switch (system controller with 4 fiber optic ports; installs onto pump or autosampler)	—	—
Rack Changer	—	—
Rack Changer II	(2.0)	—

Peripheral Devices and Firmware

Table C-13 Spark Holland

Peripheral Device	Tested Firmware (and other firmware)	Communication Cable Required
Endurance Autosampler	(2.05)	Requires Analyst Software Driver Kit p/n 0920-768 from Spark (sales@spark.nl)
Symbiosis™ Pico System	—	—

Table C-14 Valco

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

Table C-15 Acquity

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

Peripheral Devices Controlled via AAO Software Interface

The Analyst Access Object (AAO) is an interface to the Analyst® 1.7 Software with HotFix 1 that allows device vendors to develop device control software that can be plugged into the Analyst® software to enable integrated LC/MS control.

Vendors that have released AAO software are listed below. For additional information, contact vendors directly.

- Alcott Chromatography
- Cohesive Technologies
- Dionex Corp.
- Eksigent Technologies

- ESA Inc.
- Flux Instruments AG
- Jasco Inc.
- Leap Technologies
- Maylab Analytical Instruments
- Shimadzu Corporation
- Shiseido Co. Ltd.
- Spark Holland
- Waters Corp.

AAO applications that are compatible with the Analyst[®] 1.6.x software versions will be compatible with the Analyst[®] 1.7 Software with HotFix 1 on the Windows 7 (32-bit and 64-bit) operating systems.

Note: On the 64-bit operating system, AAO applications are compatible with the Analyst[®] software only if they run as 32-bit applications in the WOW64 mode.

Note: AAO applications that are working with Analyst[®] software on the Windows 7 operating system are compatible with the Analyst[®] software on Windows 10. Each application must be verified on Windows 10.

Contact the AAO vendor to confirm application compatibility for the Windows 7 (32-bit and 64-bit) and Windows 10 (64-bit) operating systems.

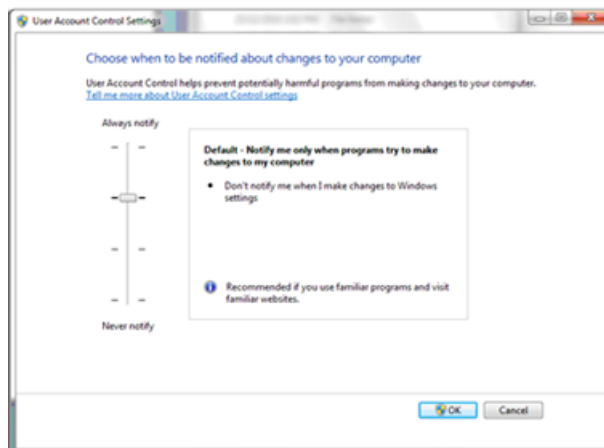
User Account Control Settings in Windows 7 and Windows 10

D

When using the Analyst[®] 1.7 Software with HotFix 1 with the Microsoft Windows 7 or Windows 10 (64-bit) operating system, SCIEX recommends using the Windows default settings for User Account Control. 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 Always notify me.

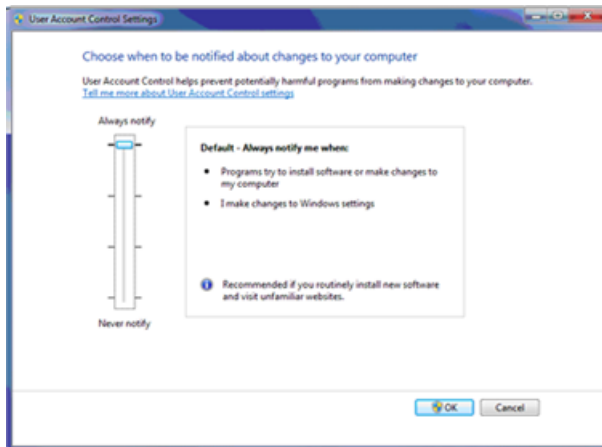
1. Open Windows Control Panel.
2. Select the option based on the operating system being used:
 - (Windows 7) Click **System and Security > Change User Account Control settings**.
 - (Windows 10) Click **System and Maintenance > Change User Account Control settings**.
3. On the **User Account Control Settings** dialog, move the slider bar to the desired level.
4. For the Administrator, select **Default – Notify me only when programs try to make changes to my computer**, and then click **OK**.

Figure D-1 User Account Control setting for the Administrator



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

Figure D-2 User Account Control setting for standard users



Intel Dual Port Card Configuration

E

This section provides the steps to configure the Intel Pro 1000/PT Dual Port Ethernet card.

This example is for an Agilent 1200 DAD system.

Configure the Card

1. On the Windows desktop, click **Start > Control Panel > Network and Internet**.

The Network and Internet options are shown.

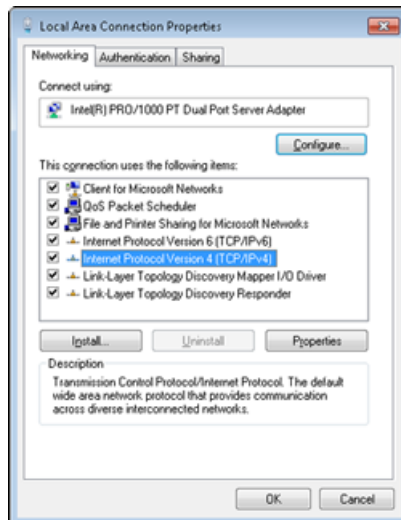
2. Click the **View network status and tasks** link under the **Network and Sharing Center** section in the right panel.
3. Click **Network Connections**.

The Network Connections dialog opens.

4. Right-click **Local Area Connection 2 or 3**.
5. Select **Properties**.

The Local Area Connection 2 (or 3) Properties dialog opens.

Figure E-1 Local Area Connection Properties Dialog



6. Click **Internet Protocol**.
7. Click **Properties**.

The Internet Protocol dialog opens.

Figure E-2 Internet Protocol (TCP/IP) Properties Dialog



8. Select **Use the following IP address**.
9. In the IP address field, type the default IP address.
10. Press **Tab**.
11. Click **OK**.
12. Close the Local Area Connection 2 (or 3) Properties dialog.

Confirm the Agilent DAD Settings

1. Make sure that the DAD unit is connected to the Ethernet Port A (if using Local Area Connection 2) or Port B (if using Local Area Connection 3).
2. On the back of the DAD unit, check the Initializing Mode switches. The switches should be set as follows:

Initializing mode switches	Setting
SW 6	OFF
SW 7	ON
SW 8	ON

Refer to the documentation that comes with the device.

Intel Dual Port Card Configuration

3. Make sure that the DAD is using the default LAN settings (IP address 192.168.254.11).
4. To confirm the connection between the workstation and the DAD, do the following:
 - a. Click **Start**.
 - b. In the Search box, type **cmd**.
 - c. On the command prompt, type **ping 192.168.254.11**, and then press **Enter**.
 - d. Verify that all of the ping packages are received and not lost.
5. If you receive the message: "Request Timed Out" the communication has failed. Confirm the connections, IP settings, and cables, and then repeat steps 1 to 5.
6. If you receive the message: "Reply from 192.168.254.11" the communication is successful. Continue to step 6.
7. Using the Analyst[®] software, add the DAD to a hardware profile. Refer to the *Advanced User Guide* for the mass spectrometer.

Table F-1 provides a list of the software guides and tutorials documents that are installed with the Analyst[®] 1.7 Software with HotFix 1. These guides and tutorials can be accessed at the following locations:

(Microsoft Windows 10 operating systems) **Start > SCIEX Analyst > Analyst Documentation**

(Microsoft Windows 7 operating systems) **Start > All Programs > SCIEX > Analyst[®]**

- **Software Guides**
- **Tutorials**

The software guides and tutorials are installed in the following application folders on different operating systems:

- (Microsoft Windows 7 (64-bit) and Windows 10 (64-bit)) **<drive>:\Program Files (x86)\Analyst > Help**
- (Microsoft Windows 7 (32-bit)) **<drive>:\Program Files\Analyst > Help**

Table F-1 Software Documentation

Document	Description
Getting Started Guide	Provides procedures for setting up and using the Analyst software to create methods, acquire samples, and analyze data.
Advanced User Guide	Describes the features and functionality of the Analyst software.
Laboratory Director's Guide	Describes the security functionality of the Analyst software.
Scripts User Guide	Provides procedures for installing and using the Analyst software scripts.
Manual Tuning Tutorial	Provides procedures for manually tuning your instrument.
Manual Compound Optimization Tutorial	Provides procedures for manually optimizing the instrument for a particular analyte.
Automatic Optimization Tutorial	Provides procedures for using Compound Optimization to optimize the instrument for a particular analyte.
IDA Tutorial	Provides procedures for using the IDA Method Wizard to create an IDA experiment.
Scheduled MRM Tutorial	Provides procedures for using the <i>Scheduled MRM</i> [™] algorithm feature.

Table F-1 Software Documentation (continued)

Document	Description
Analyst Software Show Me	An application that provides an introduction and describes basic functionality of the Analyst software.
Ion Optics Tutorial	Provides information about the instrument ion optics.
Peripheral Devices Setup Guide	Provides procedures for connecting peripheral devices to the computer and instrument.
Standard Quantitation Tutorial	Provides procedures for creating a method that can be used to obtain a quantitation curve using prepared standards.
Peptide and Protein Quantitation Tutorial	Provides procedures for creating methods that you can use for peptide and protein quantitation.
Help	Provides procedures for setting up and using the Analyst software to create methods, acquire samples, and analyze data.

The system user guides, hardware guides, SelexION® and SelexION®+ Technology User Guide, safety guides, and QMPs are no longer installed with the Analyst® software and are now available on the *Triples and Traps Systems Hardware Documentation DVD*. Ion source guides are now delivered with the ion sources.

The site planning guides are available on the SCIEX website, sciex.com. Navigate to the product, and then click the **Resources** tab.

Table F-2 lists these guides.

Table F-2 Hardware Guides

Document	Description
System User Guides	Cover the following information for the 3200, 3500, 4500, 5500, 6500, and 6500+ series of instruments: safety and system information, hardware profiles, projects, instrument tuning and calibrating, basic acquisition methods, batches, analyzing and processing data, generic parameters, calibration ions and solutions, and cleaning and maintaining the instruments.
SelexION and SelexION+ Technology User Guide	Provides information about the SelexION® and SelexION®+ technology supported in the Analyst software for separation of compounds.
Safety Practices	Provides information in six languages about instrument safety as well as safety requirements for the laboratory.
Hardware Guide	Provides information about the instrument.

Table F-2 Hardware Guides (continued)

Document	Description
Qualified Maintenance Procedures	Provides procedures for cleaning and maintaining the instrument. Note: Only trained operators should perform any cleaning or maintenance procedure.
Site Planning Guide	Provides information about how to prepare the site as well as materials required for installing the instrument.
Ion Source Guides	Provides procedures for installing and testing the ion sources.
Ion Optics Tutorial	Provides information about the instrument ion optics.