

Analyst[®] 1.6.1 Software

Installation Guide



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This guide provides information about, and procedures for, installing the Analyst® 1.6.1 software. This guide also includes information on supported peripheral devices and firmware and troubleshooting installation.

For information about new software features, enhancements, and known issues, see the release notes for the Analyst 1.6.1 software included with the Analyst 1.6.1 software package.

Important Information to Know Before Installing

Read the following points carefully before installing the software:



Note: Back up the Analyst Data folder to a safe location before upgrading. For more information, see [Back up the Analyst Data Folder to a Safe Location on page 15](#). **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 uninstall Analyst 1.6.1 software, you will not be able to revert to the previously installed version of the Analyst software.

- All versions of the Analyst software require a valid software license. These licenses are provided with new instrument purchases and can also be purchased separately from AB SCIEX. If you have any questions regarding the validity of your current license or to enquire about purchasing additional licenses, please contact your AB SCIEX sales representative or Technical Support via support@absciex.com.
- Do not attempt to install the software without following the installation instructions provided in this guide.
- The Analyst 1.6.1 software data files are not compatible with the Analyst software versions 1.4.2 or earlier. However, you can open data acquired in previous versions of the Analyst software in the Analyst 1.6.1 software.
- The Analyst 1.6.1 software data files are compatible with 1.5.x software, except for tables created with multiple *Scheduled MRM*[™] algorithm experiments.
- Results tables created with the Analyst 1.6.1 software 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 1.4.2 software and later continue to be supported in the Analyst 1.6.1 software. For more information, refer to [Peripheral Devices and Firmware on page 27](#).
- You can install the Analyst 1.6.1 software only by using files downloaded from our Web site. To upgrade to the Analyst 1.6.1 software, you must have the Analyst 1.6 software already installed on your system. Refer to the Analyst 1.6 software installation guide for guidance to install the Analyst 1.6 software.

- Deactivate the hardware profile and close the Analyst software before installing the Analyst 1.6.1 software.
- For more information about compatibility, see [Compatibility with Other Software on page 9](#).

Support

We are committed to providing the highest level of support. To obtain answers to questions about any of our products, report issues, or suggest improvements, visit our Web site at www.absciex.com or write to **support@absciex.com**.

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

Operating System Requirements

The Analyst 1.6.1 software requires one of these operating systems:

- Microsoft Windows XP SP2 or SP3 (32-bit)
- Microsoft Windows 7 SP1 (32-bit)

Network Environment Requirements

The Analyst 1.6.1 software supports these network environments:

- Microsoft Windows Server 2003
- Microsoft Windows Server 2008

Acquisition Workstation Requirements

It is highly recommended that you purchase an acquisition workstation, including the communication interface cards, from AB 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 your AB SCIEX sales representative.

The Dell Optiplex 990 computer model is recommended for use with Windows XP and Windows 7. The Analyst 1.6.1 software has also been tested and verified on the Dell Precision T3400 computer, and the Dell Optiplex 960 and 980 computers.



Note: Newer systems might be available. For more information, contact your AB SCIEX sales representative.

Processing Workstation Requirements

For processing workstations, AB SCIEX recommends a minimum computer configuration that varies based on the operating system.

For use with Windows XP, the minimum configuration consists of:

- Processor: Pentium 4, 2.53 GHz
- RAM: 256 MB
- Disk space: 40 GB

For use with Windows 7, the minimum configuration consists of:

- Processor: Pentium Core 2 Duo, 3.0 GHz
- RAM: 4 GB
- Disk space: 500 GB

Some AB SCIEX add-on software requires additional memory, disk space, and processing speed. For more information, refer to the documentation included with the add-on software.

Current Shipping Configuration for the Dell Optiplex 990 for Acquisition Workstations

The computer comes installed with the following:

- Windows XP SP3 Professional (32-bit) operating system (OS) and drivers.
- a Windows 7 Professional (32-bit) OS license so that the OS can be upgraded to Windows 7 if required.
- Windows XP OS for Embedded Systems, with possibility to upgrade to Windows 7 OS for Embedded Systems.

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

The acquisition workstation comes with the following:

- Ethernet, 3 ports
- Two Broadcom network card PCIe

The acquisition workstation supports the following external interfaces and card:

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



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



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

Caution: 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 Interface Cards and Driver Versions

Table 2-1 shows the driver versions installed on the currently shipping acquisition workstation. It also lists the supported driver versions.

Table 2-1 Cards and Drivers

Card name	Dell Optiplex with Windows XP	Dell Optiplex with Windows 7	Supported versions
GPIB	2.5	2.8	2.5 or 2.8
ADC	8.3	9.2.3	8.3 or 9.2.3
Network Card—Intel Pro 1000 GT PCI	8.10.3.0	9.13.41.0	8.10.3.0 (Windows XP) 9.13.41.0 (Windows 7)
EdgePort USB	4.2	5.3	4.2 or 5.3

Reporter 3.2 Requirements

To use Reporter 3.2, you must have Microsoft Office 2007 or 2010. Reporter 3.2 is not compatible with Microsoft Office 2003.

PDF Reporting Capabilities

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

User Account Control Requirements for Windows 7

If you are using the Analyst 1.6.1 software with the Windows 7 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.

Compatibility with Other Software

The Analyst 1.6.1 software requires the following additional software:

- Windows Installer 3.1 (on Windows XP only; it is included in the Windows 7 operating system)
- .NET 3.5 SP1 (on Windows XP only; it is included in the Windows 7 operating system)
- .NET 4.0

- Microsoft Visual C++ 2008 SP1 Runtime
- Microsoft Visual C++ 2008 SP1 ATL Security Update
- Microsoft Visual C++ 2010 Runtime Libraries
- Visual Studio 2010 Tools for Office Runtime
- SaveAsPdf
- Microsoft Office 2007 Primary Interop Assemblies (installed if the workstation has Microsoft Office 2007)
- Microsoft Office 2010 Primary Interop Assemblies (installed if the workstation has Microsoft Office 2010)
- AB SCIEX Reporter Template Suite 3.2

This software is installed automatically when the Analyst 1.6 software is installed. The Analyst 1.6.1 software does not require any additional prerequisites.

Compatible Software

As of this release, these applications are compatible with the Analyst 1.6.1 software on both the Windows XP and Windows 7 operating systems.

Important Information for Users of the 4500 Series of Instruments

When processing data generated on an AB SCIEX Triple Quad™ 4500 or QTRAP® 4500 mass spectrometer in MultiQuant™ software v2.1, the noise level will be incorrectly estimated. When using the MQ4 algorithm, this will cause the S/N ratio column in the results table to be incorrect. In addition, the SignalFinder™ algorithm will incorrectly set the baseline, which will cause some peaks to not be integrated, while others may integrate differently. The MultiQuant software v2.1.1 is the only version that is fully compatible with the data generated on 4500 series instruments. Users with 4500 series instruments should upgrade all versions of the MultiQuant software on processing and acquisition stations to version 2.1.1.

- MultiQuant™ 2.1.1 software
- ProteinPilot™ 4.0 software

These applications are compatible with the Analyst software on the Windows XP operating system:

- ChemoView™ 2.0.2 software
- LightSight® 2.2.1 software
- LipidView™ 1.1 software
- MarkerView™ 1.2.1 software
- Smart Monitor 4.3.2 software



Note: Earlier versions of all of these applications are not supported on the Analyst 1.6.1 software.

For information about the compatibility of AAO applications, refer to [Peripheral Devices Controlled via AAO Software Interface on page 33](#).

Non-Compatible Software

As of this release, these applications are not compatible with the Analyst 1.6.1 software:

- BioAnalyst™ software
- Cliquant® software
- DiscoveryQuant™ software
- MPX™ driver software
- Metabolite ID software (for the API series instruments)
- Metabolite ID software (for the QSTAR® series instruments)
- MRMPilot™ software
- MultiQuant™ 2.1 software
- Pro ID software
- Pro ICAT software
- Pro QUANT software
- Pro BLAST software
- oMALDI™ software
- oMALDI Xpert software
- PrepExpress software
- FlashQuant® software
- Automaton software

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

Supported Mass Spectrometers

The Analyst 1.6.1 software can control and analyze data from each of the following AB SCIEX mass spectrometers:

- AB SCIEX QTRAP® 4500 system
- AB SCIEX Triple Quad™ 4500 system
- AB SCIEX QTRAP® 5500 system
- AB SCIEX Triple Quad™ 5500 system
- 4000 QTRAP system
- 3200 QTRAP system
- QTRAP system
- API 5000™ system
- API 4000™ system

- API 3200™ system
- API 3000™ system
- API 2000™ system



Note: Other models of mass spectrometers supported in the Analyst 1.4.2 software may be compatible with the Analyst 1.6.1 software but have not been specifically validated.

Key Contents of the Analyst 1.6.1 Software Web Download Package

The following software application and documents are included in the Analyst 1.6.1 software web download package:

- Analyst 1.6.1 software launcher.
- Bin folder: Contains the files required to run the software.
- 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.
- The *Analyst 1.6.1 Software Release Notes*.
- The *Analyst 1.6.1 Software Installation Guide* (this document).
- An Install folder containing the hardware, qualified maintenance, safety, site planning, and software guides as well as tutorials for all instruments. It also contains all the scripts.



Note: For a complete list of documents and their location, refer to [Analyst® Software Documentation on page 53](#).

This section provides procedures for installing or upgrading to the Analyst® 1.6.1 software.



Note: If you have the Analyst 1.5.2 software with HotFixes to February 2011 or an earlier version installed, then before installing the Analyst 1.6.1 software you must first upgrade to the Analyst 1.6 software.



Note: Your security database will be removed if the Analyst software is uninstalled. If you have the Analyst 1.5.2 software with HotFixes to February 2011 or an earlier version and would like to maintain your current security database, then you must follow the *upgrade path* to the Analyst 1.6 software before installing the Analyst 1.6.1 software.



Note: The Convert Methods script has been updated for defect fixes and to allow conversion to and from the 4500 series of instruments. The script is not automatically replaced during the installation of the Analyst 1.6.1 software. Uninstall the Convert Methods script before upgrading from the Analyst 1.6 software to the Analyst 1.6.1 software. After the upgrade is complete, you can re-install this script. It is available in the **Install > Scripts** folder in the Analyst 1.6.1 software web package.



Note: The order of the upgrade procedures is important. Use the [Task List for Installation on page 14](#) to make sure that you complete each procedure.



Note: You must be logged in as a user with Administrator privileges to install the Analyst 1.6.1 software.



Note: Removing the Analyst 1.6.1 software 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 1.6.1 software, AB SCIEX recommends that you upgrade the processing workstation as well.

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 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





✓		Step	Procedure
<input type="checkbox"/>		1. Make sure that the workstation meets the requirements for installing the Analyst software.	See Software Installation Requirements on page 7 .
<input type="checkbox"/>		2. Make sure that you have downloaded the Analyst 1.6.1 software package from the AB SCIEX Web site.	—
<input type="checkbox"/>		3. Prepare the instrument and workstation for the installation.	See Prepare the Instrument and Workstation for Installation on page 15 .
<input type="checkbox"/>		4. If you are installing on Windows 7, check your User Account Control Settings.	See Change the User Account Control Settings in Windows 7 on page 35 .

Table 3-2 Checklist (Continued)

✓		Step	Procedure
<input type="checkbox"/>	P	5. Back up the Analyst Data folder to a safe location.	See Back up the Analyst Data Folder to a Safe Location on page 15.
<input type="checkbox"/>	P	6. Install the Analyst 1.6.1 software.	See Install the Analyst 1.6.1 Software on page 16.
<input type="checkbox"/>		7. Update the firmware and configuration tables, if required.	See Update the Firmware and Configuration Tables on page 16.
<input type="checkbox"/>	P	8. (Optional) Install any scripts.	See (Optional) Install Scripts on page 17.
<input type="checkbox"/>	P	9. Run the Analyst software for the first time.	See Run the Analyst Software for the First Time on page 17.
<input type="checkbox"/>	P	10. Register the Analyst software online.	See Register the Analyst Software Online on page 17.

Prepare to Install

Prepare the Instrument and Workstation for Installation



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

1. If required, locate any DVDs containing optional add-on software.
2. Log on to the computer as a user with Administrator privileges.
3. For acquisition workstations, if your workstation has a GPIB connector, make sure the instrument is powered on and connected to the GPIB connector at the back of the workstation.
4. If you are upgrading from a previous version of the Analyst software, deactivate any active hardware profiles before installing the Analyst 1.6.1 software and then exit the Analyst software.

Back up the Analyst Data Folder to a Safe Location

Do not rename the existing Analyst Data folder. When you upgrade, AB SCIEX recommends 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.

- 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.



Note: As part of normal installation, the API Instrument folder and the CompoundLib.db is automatically backed up to the TEMP folder on your system. This folder is normally stored in <drive>:\Documents and Settings\<name>\Local Settings\Temp\Analyst_Data_Backup_[Date]. Do not rely on this backup. Always back up the Analyst Data folder and only use this folder if absolutely necessary.

Install the Analyst 1.6.1 Software



Note: Microsoft Word 2007 or 2010 is required to generate reports. If you do not have either MS Word 2007 or 2010 installed on the system, during the installation process a warning will be displayed informing you that Word 2007 or 2010 is required for the Reporter to function properly. You can either cancel the installation or continue with it. After the Analyst 1.6.1 software is installed, you can install Word 2007 or 2010 if required.

Complete the following procedures to upgrade the workstation to the Analyst 1.6.1 software release.

1. Extract the files from the compressed Analyst 1.6.1 software web package.
2. Click **Launch.exe**.
3. Click **Install Analyst 1.6.1 Software**.



Note: In Windows 7, several User Account Control warnings appear during installation. Click **Yes** to continue.

4. Follow the instructions in the installation wizard to install the software.

Update the Firmware and Configuration Tables



Note: For information on the firmware and configuration table versions supported in the Analyst 1.6.1 software, refer to [Firmware and Configuration Tables Files on page 25](#).

Use the Firmware/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 may 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. In the extracted package, navigate to the **\Extras\Instrument Update** folder and then double-click **ConfigUpdater.exe**.

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

2. Click **Next**.
3. 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 25](#).

4. Click **Finish**.



Note: If you are upgrading the firmware on the 5500 systems, you will be prompted to manually restart the mass spectrometer.

(Optional) Install Scripts

- A number of research-grade scripts are available to extend the functionality of the Analyst software. For more information on installing scripts, refer to the *Scripts User Guide* found in the Start Menu: All Programs > AB SCIEX > Analyst > Software Guides.

Run the Analyst Software for the First Time

1. Start the Analyst software by double-clicking the icon on the desktop.
2. For acquisition workstations, activate a hardware profile.
3. Make sure that you can acquire or process data.

Register the Analyst Software Online

- Register your installation online at:
www.absciex.com/AnalystReg or contact support@absciex.com.

Ten days from the date of installation, the software prompts you to register the Analyst software online.

Registration of the software helps AB SCIEX offer better support. AB SCIEX will also notify you about the availability of upgrades and patches, as well as other software-related information.

You can register from any computer with internet access; it does not have to be the computer on which the software is installed. Your name and email address, and the name, address, and telephone number of the company licensing the software are required. Optional information includes some brief questions on how the Analyst software is used at the site, plus a section for comments. You can choose whether to be contacted for software updates, product information, or electronic surveys. Review the privacy statement and contact information on the web site for details about the information collected and its usage.



This section describes the procedure for installing the Analyst[®] 1.6.1 software over a network. For more information, refer to the Analyst software Administrator Console section of the *Laboratory Director's Guide* for the Analyst software, found in the Start menu: All Programs > AB SCIEX > Analyst > Software Guides.



Note: Network installation is not supported with Windows 7.



Note: These procedures should be performed by someone with the prerequisite knowledge and the support of the IT department.

Important Information to Know Before Installing

For a successful installation, make sure that all workstations are connected to the Active Directory.

Create the Network Image

Network installation of the Analyst 1.6.1 software requires some prerequisite applications to be already installed on the system. If they are not already installed or have been removed, install these applications before installing the Analyst 1.6.1 software. For detailed instructions on installing these prerequisite applications, refer to the *Installation Guide* for the Analyst 1.6 software. The prerequisite applications are available in the Install folder in the Analyst 1.6.1 software web package.

Create a Distribution Point for the Analyst 1.6.1 Software

1. On a server, create a distribution point for the software.
2. When the installation browser opens, click **Exit**.
3. To create an administrative image, in a command line, type **Msiexec.exe /a <PathToAnalyst.msi> SHORTFILENAME=1 TARGETDIR=<PathToDistributionPoint> NAMESOFPROPERTIES=value /qr.**

The SHORTFILENAME parameter is a Windows Installer property that uses short file names for the names of target files, rather than long file names. If the target volume does not support long names, this property has to be set to 1.

The NAMESOFPROPERTIES parameter is the list of the following properties of the Analyst software that can be changed:

- ANALYSTPATH: Destination location of the application (default is [ProgramFilesFolder]Analyst).

- ANALYSTDATAPATH: Destination location of Analyst Data (default is the NTFS disk with the most free space\Analyst Data).
- SECURITYDATA: Overwrite or not overwrite security database if it is found.
“1” — overwrite
“0” — not overwrite (default)
- LIBSEARCHDATA: Overwrite or not overwrite Library Search database if it is found
“1” — overwrite
“0” — not overwrite (default)
- COMPOUNDATA: Overwrite or not overwrite Compound database if it is found.
“1” — overwrite
“0” — not overwrite (default)

Example: Msiexec /a “d:\install\analyst.msi” SHORTFILENAME=1
TARGETDIR=“C:\Managed Applications\Analyst16” LIBSEARCHDATA=“1” /qr.

4. After creating the distribution point, copy the Scripts folder, all the documentation (tutorials and guides) folders, the release notes, and the software installation guide to this location.

Install the Analyst 1.6.1 Software

1. Make sure that you have downloaded the Analyst 1.6.1 software web package from the AB SCIEX Web site.
2. Extract all the files in a folder on your system.
3. Create an Organizational Unit containing all the workstations where the Analyst 1.6.1 software will be installed.
4. Create a Group Policy for the unit.
5. In the **Group Policy** dialog, expand the **Computer Configuration** and **Software Settings** nodes.
6. Right-click **Software Installation**, point to **New**, and then click **Package**.
7. Navigate to the **.msi** package in the distribution point.
8. Restart each workstation.

Add User Accounts

Use this procedure to create user accounts.



Note: If you are upgrading from a previous version of the Analyst software and you choose to keep your existing user security database when installing the Analyst 1.6.1 software, your user accounts are preserved and you do not need to perform this procedure.



Note: If you want to upgrade from the Analyst 1.4.x or 1.5.x software and want to preserve your security database, then first follow the *upgrade path* to the Analyst 1.6 software before upgrading to the Analyst 1.6.1 software.

1. After installing the Analyst 1.6.1 software over the network, start the Analyst software and log in as a local user named **administrator**.
2. In the Security Configuration window, click the **People** tab.
3. Add new user accounts and assign roles.
4. Close the Analyst software.
5. Restart the Analyst software and then log in using one of the accounts that you added in [step 2](#).



Tip! If you are using Integrated Mode, log off from Windows to log in as another user.



This section describes some issues that may be encountered while installing or upgrading to the Analyst® 1.6.1 software. It suggests possible causes and offers solutions.

AB SCIEX is committed to providing the highest level of support for the Analyst software users. To obtain answers to questions about any of our products, report problems, or suggest improvements, visit the Web site at www.absciex.com.

Table 5-1 Troubleshooting

Issue	Possible Cause/Solution
After installing, I cannot log on to the Analyst software.	Your user name might not have been successfully added to the security database during the upgrade. Log on to the computer as the local administrator and then add your user name to the Analyst software through the Security Configuration dialog.
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 through Windows.



The following instrument firmware and configuration table versions must be used with the Analyst[®] 1.6.1 software. Instructions for making sure you have the latest versions of these files are included in the [Update the Firmware and Configuration Tables on page 16](#). These tables are for reference purposes only.

Table A-1 Firmware Files for the 4500 Series of Instruments

Firmware	Version
Both systems	PIL1202

Table A-2 Firmware Files for the 5500 Series of Instruments

Firmware	Version
Both systems	PIL1202

Table A-3 Firmware Files for All Non-5500 Instruments

Firmware	Version
340 Main	M401402
332 Main	M3L1417

Table A-4 Configuration Table Files for the Analyst 1.6.1 Software

Instrument	Configuration table file
AB SCIEX QTRAP [®] 4500 instrument	FWQTrap4500R00.fw
AB SCIEX Triple Quad [™] 4500 instrument	FWTripleQuad4500R00.fw
AB SCIEX QTRAP [®] 5500 instrument	FWQTrap5500R02.fw
AB SCIEX Triple Quad [™] 5500 instrument	FWTripleQuad5500R02.fw
4000 QTRAP instrument (U series serial number)	B9609010.fw
4000 QTRAP instrument (AR series serial number)	B9609031.fw
3200 QTRAP instrument	B9631002.fw
QTRAP instrument	B9611003.fw
API 5000 [™] instrument	B9669001.fw
API 4000 [™] instrument	B5366005.fw
API 4000 instrument (for the NanoDCI source)	B5366020.fw
API 3200 [™] instrument	B9633002.fw
API 3000 [™] instrument	A8958000.fw
API 2000 [™] instrument	A7483000.fw



The Analyst[®] software supports the peripheral devices listed in the following table. Firmware versions that have been fully qualified with the Analyst 1.6.1 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 1.6.1 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 peripheral device manufacturer. For information on installation and configuration of peripheral devices, refer to the *Peripheral Devices Setup Guide*.

Recommended Firmware Versions for Peripheral Devices

Table B-1 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	1.2 or higher	—
ekspert ultraLC 100 Column Oven	2.04 or higher	—

Table B-2 Agilent 1290 Series

Peripheral device	Tested firmware (and other firmware)	Communication cable required
Binary Pump	B.06.32, B.06.30	WC024736 (RS-232 cable) or Ethernet
Standard Autosampler	A.06.32, A.06.30	WC024736 or Ethernet
TCC—Thermostatted Column Compartment	(A.06.32), A.06.30	WC024736
DAD—Diode Array Detector	(B.06.32), B.06.30	Ethernet

Table B-3 Agilent 1260 Series

Peripheral device	Tested firmware (and other firmware)	Communication cable required
Isocratic Pump	A.06.32	WC024736 or Ethernet
Quaternary Pump	A.06.32	WC024736 or Ethernet
Binary Pump	A.06.32	WC024736 or Ethernet

Table B-3 Agilent 1260 Series (Continued)

Peripheral device	Tested firmware (and other firmware)	Communication cable required
High Performance Autosampler	A.06.32	WC024736 or Ethernet
TCC—Thermostatted Column Compartment	A.06.32	WC024736
DAD—Diode Array Detector	B.06.32	Ethernet

Table B-4 Agilent 1200 Series

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.06.04, A.06.02)	WC024736 or Ethernet
Capillary Pump	(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.06.10	WC024736 or Ethernet
High Performance Autosampler	A.06.32, (A.06.04, A.06.02)	WC024736 or Ethernet
High Performance Autosampler SL	A.06.32	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	A.06.32, (A.06.02)	WC024736 or Ethernet
TCC SL—Thermostatted Column Compartment	A.06.32, (A.06.02)	WC024736 or Ethernet
DAD—Diode Array Detector	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 B-5 Agilent 1100 Series

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

Table B-5 Agilent 1100 Series (Continued)

Peripheral device	Tested firmware (and other firmware)	Communication cable required
Quaternary Pump	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
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.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
TCC—Thermostatted Column Compartment	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 B-6 CTC

Peripheral device	Tested firmware (and other firmware)	Communication cable required
HTS PAL Autosampler	(4.2, 4.1.x, 2.4.0)	WC024736 (RS-232 cable)
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 B-7 Gilson

Peripheral device	Tested firmware (and other firmware)	Communication cable required
215 Autosampler	(2.20)	WC024735**
215 Autosampler with 819 Valve	(1.00)	Gilson GSIOC
233 Autosampler	(BV1.11)	WC024735
233 Autosampler with 402 Syringe	(SV2.3, SV1.10)	Gilson GSIOC

Table B-7 Gilson (Continued)

Peripheral device	Tested firmware (and other firmware)	Communication cable required
** WC024735 is a standard modem cable DB25 male/DB9 female.		

Table B-8 Harvard

Peripheral device	Tested firmware (and other firmware)	Communication cable required
Harvard	22 Syringe Pump	22.90

Table B-9 LC Packings

Peripheral device	Tested firmware (and other firmware)	Communication cable required
UltiMate Integrated System	(6.00, 5.06)	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 B-10 PE Series 200

Peripheral device	Tested firmware (and other firmware)	Communication cable required
Autosampler	(1.08)	WC024737
Column Oven	(1134)	WC024736
Micro Pump	(2.43)	WC024736
Quaternary Pumps	(2.43)	WC024736

Table B-11 Shimadzu

Peripheral device	Tested firmware (and other firmware)	Communication cable required
SCL-10Avp System Controller	(5.40, 5.33)	WC024736 (RS-232 cable)
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	1.22, (1.20 or later)	
SIL-20AXR Autosampler	(1.20 or later)	—
SIL-30AC Autosampler	2.01	

Table B-11 Shimadzu (Continued)

Peripheral device	Tested firmware (and other firmware)	Communication cable required
SIL-30ACMP Autosampler	1.03	—
LC-6AD Pump	(1.4)	—
LC-8A Pump	(1.5)	—
LC-10AD Pump	(3.1)	—
LC-10AS Pump	(3.1)	—
LC-10AT Pump	(3.1)	—
LC-10Ai Pump	(3.1)	—
LC-10ADvp Pump	5.27, (5.25, 5.26)	—
LC-10ATvp Pump	(5.27)	—
LC-20AD Pump	1.21	—
LC-20ADXR Pump	1.21, (1.20)	—
LC-30AD Pump	2.1	—
CTO-10A[C] Column Oven	(3.0)	—
CTO-10Avp Column Oven	(5.24)	—
CTO-10ACvp Column Oven	(5.24)	—
CTO-10ASvp Column Oven	(5.24)	—
CTO-30A Column Oven	2.1	—
CTO-30AS Column Oven	0.07	—
SPD-10A Detector	(3.0)	—
SPD-10Ai Detector	(3.0)	—
SPD-10AV Detector	(3.0)	—
SPD-10AVi Detector	(3.0)	—
SPD-10Avp Detector	(5.22)	—
SPD-10AVvp Detector	(5.23, 5.22)	—
OptionBox-L Subcontroller	(3.2)	—
SubcontrollerVP	(5.20)	—
FCV-12AH Valve	N/A	—
FCV-13AL Valve	N/A	—
FCV-14AH Valve	N/A	—

Table B-11 Shimadzu (Continued)

Peripheral device	Tested firmware (and other firmware)	Communication cable required
CBM-20A with Ethernet Switch (system controller with 8 fiber optic ports)	1.06, 1.05 or later, 2.1 or higher for use with 30-Series devices	—
CBM-20A Lite with Ethernet Switch (system controller with 4 fiber optic ports; installs onto pump or autosampler)	—	—
LC-20AD Solvent Delivery Unit	1.07, 1.04 or later	—
LC-20AB Binary Solvent Delivery Unit	—	—
LC-20AT Solvent Delivery Unit	—	—
SIL-20A Autosampler	—	—
SIL-20AC Autosampler	1.04 or later	—
Rack Changer	—	—
Rack Changer C	—	—
CTO-20A Column Oven	—	—
CTO-20AC Column Oven	1.07, (1.04)	—
SPD-20A UV-VIS Detector	—	—
SPD-20AV UV-VIS Detector	1.03	—

Table B-12 Spark-Holland

Peripheral device	Tested firmware (and other firmware)	Communication cable required
Endurance Autosampler	(2.05)	Requires the Analyst [®] Software Driver Kit p/n 0920-768 from Spark (sales@spark.nl)

Table B-13 Valco

Peripheral device	Tested firmware (and other firmware)	Communication cable required
2 Position Valve	(C.9)	—

Peripheral Devices Controlled via AAO Software Interface

The Analyst Access Object (AAO) is an interface to the Analyst software that allows peripheral 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
- PerkinElmer Inc.
- Shimadzu Corporation
- Shiseido Co. Ltd.
- Spark Holland
- Waters Corp.

AAO applications that are compatible with Analyst 1.6 will be compatible with the Analyst 1.6.1 software. AAO applications that are compatible with Analyst 1.5.x will be compatible with the Analyst 1.6.1 software on the Windows XP operating system. If you need an AAO application on the Windows 7 operating system, contact the vendor for availability.



Change the User Account Control Settings in Windows 7



If you are using the Analyst® 1.6.1 software with the Windows 7 operating system, AB SCIEX recommends 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 Always notify me.

1. Open Windows Control Panel.
2. Click **System and Security > Change User Account Control settings**.
3. On the **User Account Control Settings** dialog, move the slider bar to the desired level.
 - For the Administrator, select **Default – Notify me only when programs try to make changes to my computer**, and then click **OK**.

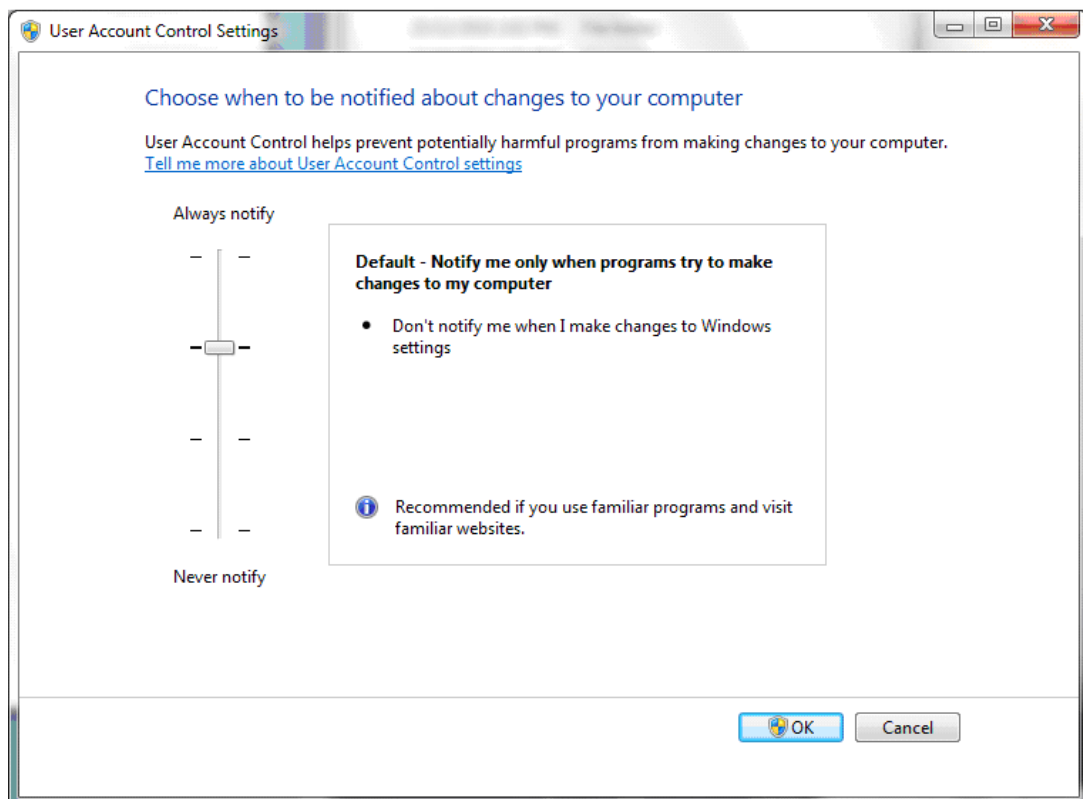


Figure C-1 User Account Control setting for the Administrator

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

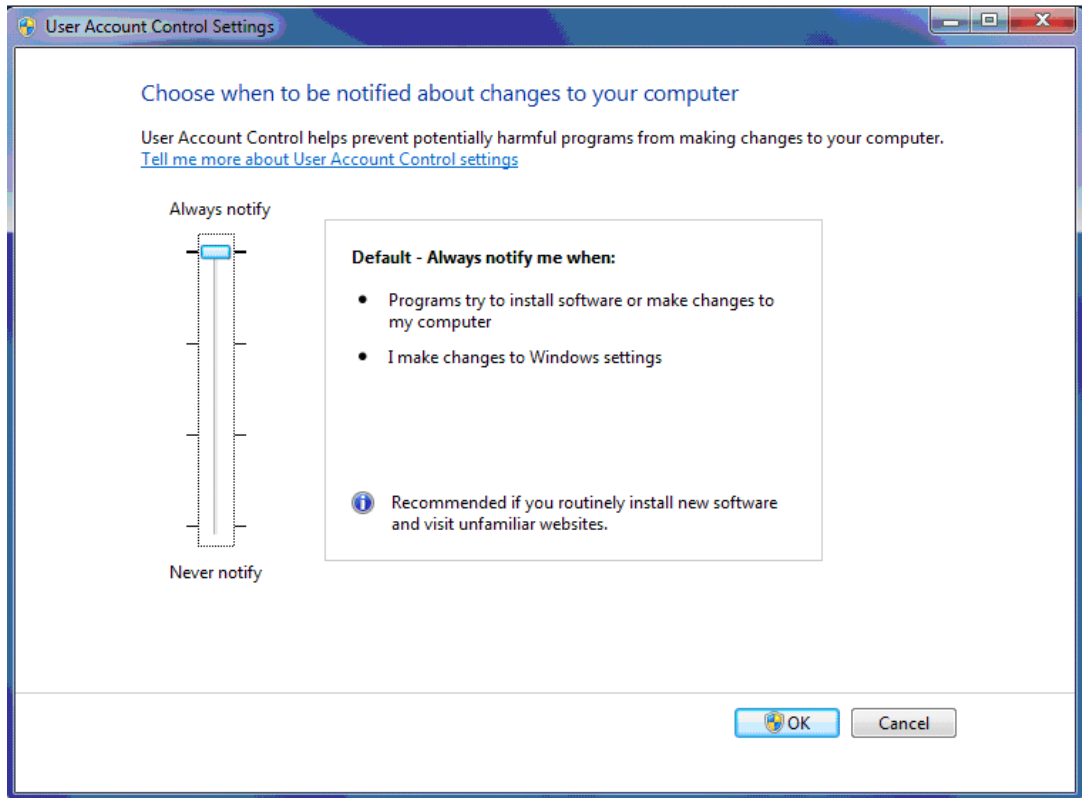


Figure C-2 User Account Control setting for standard users

This appendix provides procedures for configuring the Intel Pro 1000/PT Dual Port Ethernet card.

Configure the Card in Windows XP



Note: This procedure assumes that you are using a T3400 or Optiplex 960 workstation. For other computer systems, screens and steps might vary slightly.

1. Open Windows Control Panel.
2. Open the **Network Connections** control panel.



Tip! If the View is by Category, select Network and Internet Connections > Network Connections.

3. Right-click **Local Area Connection 2 or 3** and then click **Properties**.

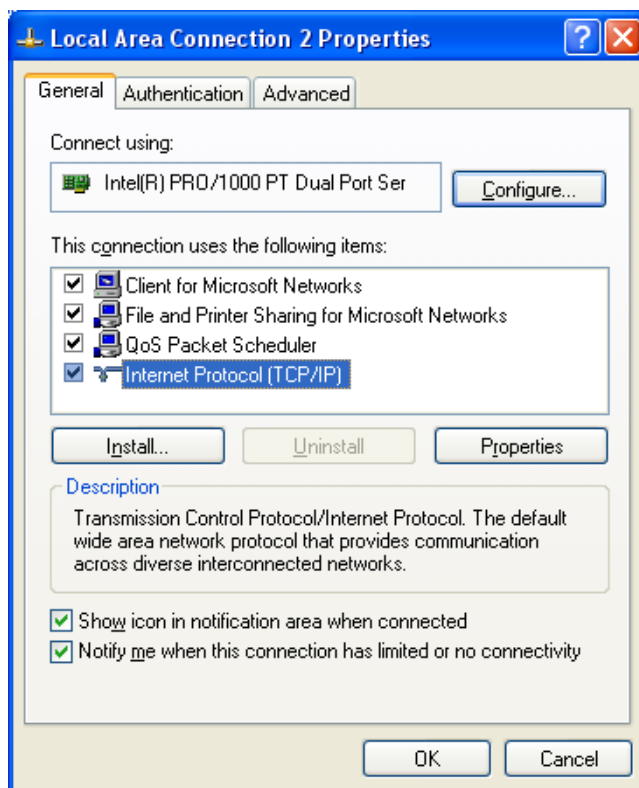


Figure D-1 Local Area Connection 2 Properties dialog

4. Click **Internet Protocol**.
5. Click **Properties**.

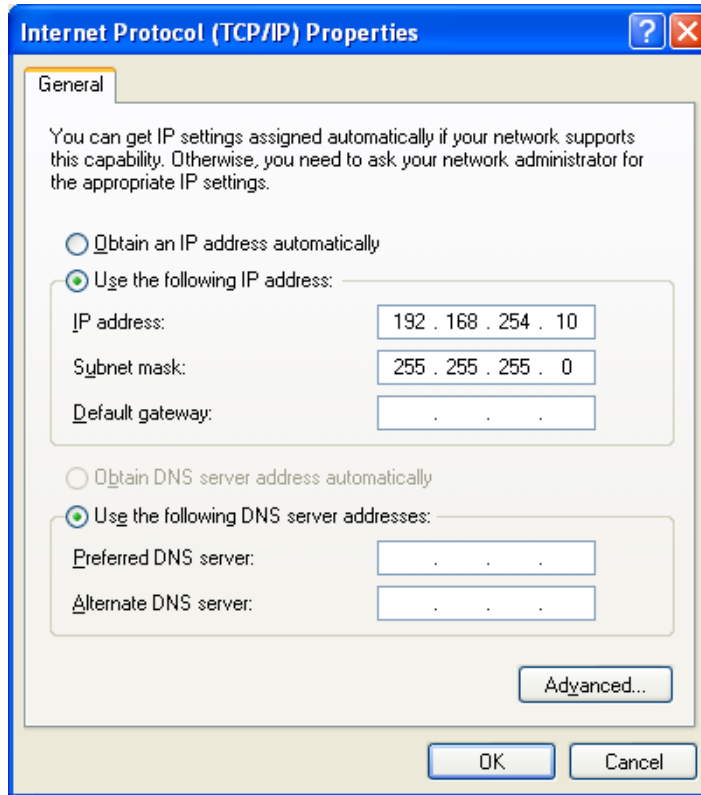


Figure D-2 Internet Protocol (TCP/IP) Properties dialog

6. Select **Use the following IP address**.
7. In the IP address field, type the default IP address.
8. Press **Tab**.
The Subnet mask field is automatically filled.
9. Click **OK** and then close the Local Area Connection 2 (or 3) Properties dialog.

Configure the Card in Windows 7

1. Open Windows Control Panel.
2. Open the **Network and Sharing Center**.



Tip! If the View is by Category, select Network and Internet Connections > Network Sharing Center.

3. Click **Change Adapter Settings** (in the top left corner).
4. Click **Network Connections**.
The Network Connections window opens.
5. Right-click **Local Area Connection 2 or 3** and then click **Properties**.

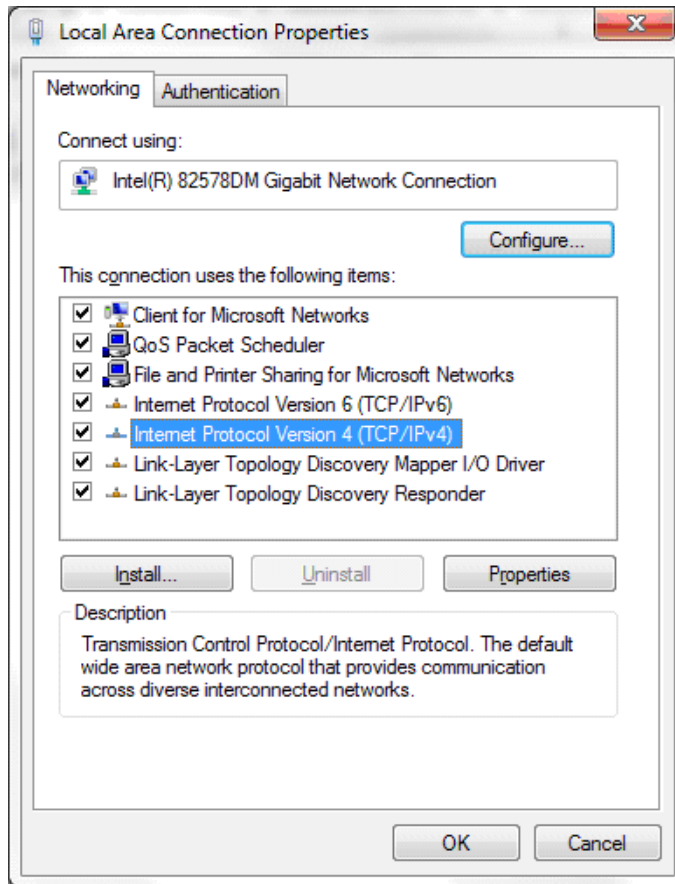


Figure D-3 Local Area Connection Properties dialog

6. Click **Internet Protocol Version 4 (TCP/IPv4)**.



Note: The Analyst 1.6.1 software has not been tested with Internet Protocol Version 6 (TCP/IPv6).

7. Click **Properties**.

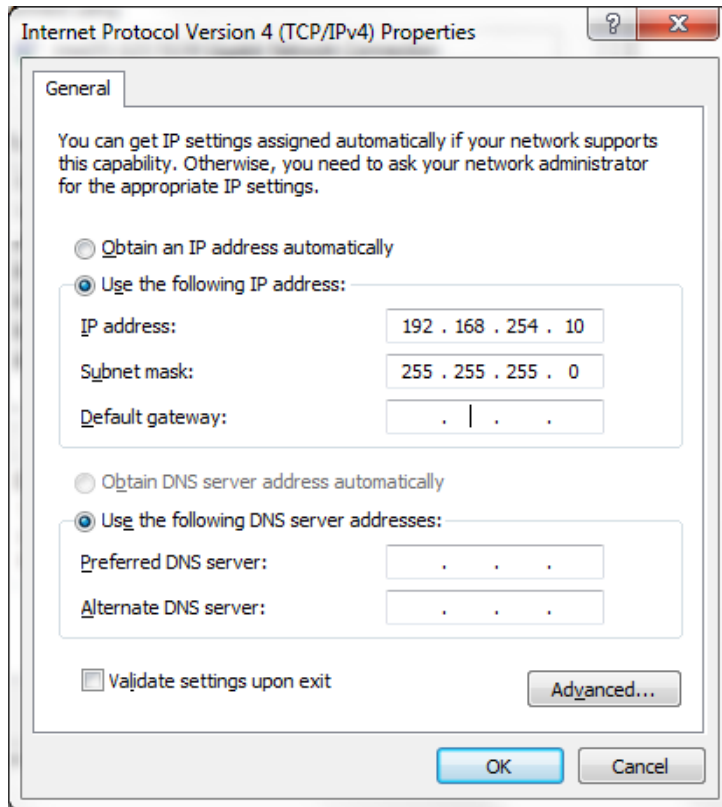


Figure D-4 Internet Protocol (TCP/IP) Properties dialog

8. Select **Use the following IP address**.
9. In the IP address field, type the default IP address.
10. Press **Tab**.
The Subnet mask field is automatically filled.
11. Click **OK** and then close the Local Area Connection 2 (or 3) Properties dialog.

Check the 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 listed in [Table D-1](#).

Table D-1 Initializing Mode switches and their settings

Switch name	Setting
SW 6	OFF
SW 7	ON
SW 8	ON

For more information, refer to the *Agilent 1200 Series Diode Array and Multiple Wavelength Detector SL User Manual*.

3. Make sure that the DAD is using the default LAN settings (IP address 192.168.254.11).
4. In Windows XP, to confirm the connection between the workstation and the DAD, from Windows, follow these steps:
 - i. Click **Start > Run**.
 - ii. In the **Open** box, type **ping 192.168.254.11-t** and then click **OK**.
5. In Windows 7, to confirm the connection between the workstation and the DAD, from Windows, follow these steps:
 - i. Click **Start**.
 - ii. In the **Search** box type **ping 192.168.254.11-t** and then click **OK**.
6. When the message “Reply from 192.168.254.11” appears, indicating that the communication is successful, continue to [step 7](#).



Note: If the message “Request Timed Out” appears, then the communication has failed. Check your connections, IP settings, and cables, and then repeat [step 1](#) to [step 5](#).

7. Using the Analyst software, add the DAD to a hardware profile. For more information, refer to the operator’s guide that comes with the instrument.



This section provides procedures for upgrading the driver software for the optional National Instruments ADC card.



Note: This procedure is not required for Windows 7. The Windows 7 workstation comes with the correct driver version installed.

Upgrade the Driver Software for the ADC Card

If the workstation is not running a supported version of the ADC driver software, you can upgrade to version 9.2.3. NI-DAQmx 9.2.3 is available on the Analyst[®] 1.6 software DVD.

Determine Whether the ADC Card is Installed

1. Open Windows Control Panel.
2. Open the **Administrative Tools** control panel.



Tip! If the View is by Category, select **Performance and Maintenance > Administrative Tools**.

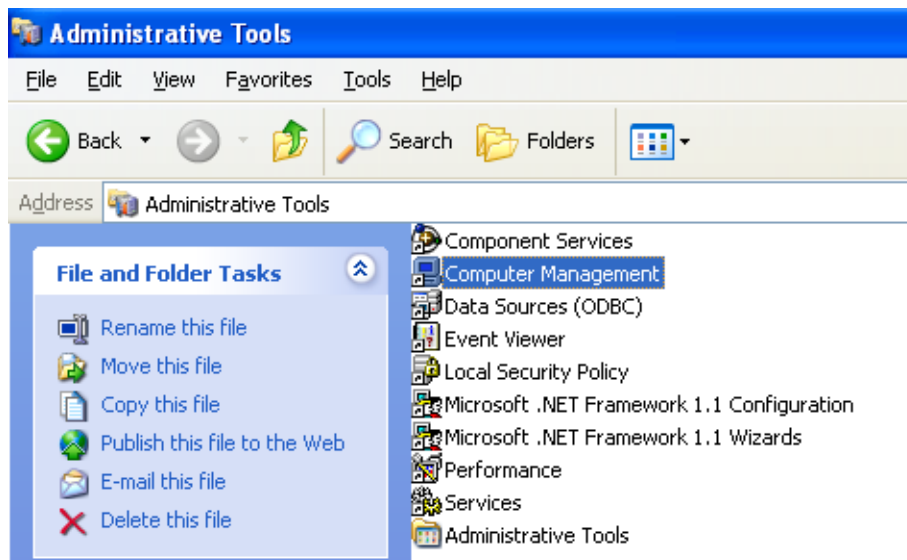


Figure E-1 Administrative Tools window

3. Click **Computer Management**.
4. Expand **System Tools**.
5. Click **Device Manager**.
6. If present, expand **Data Acquisition Devices**.

7. In the list of installed software, look for **PCI-6032**, **PCI-6259**, or **PCIe-6259** and then do one of the following:
 - If the entries are present, complete the steps in the following procedure.
 - If the entries are not present, you do not have the ADC card installed and do not need to update the driver.

Update the Driver

1. Right-click **PCI-6032**, **PCI-6259**, or **PCIe-6259** and then click **Uninstall**.
A confirmation message is shown.
2. Click **OK**.
3. Close the Computer Management window to return to Control Panel.
4. Open the **Add or Remove Programs** control panel.



Tip! If the View is by Category, select **Add or Remove Programs > Add or Remove Programs**.

5. Click **National Instruments Software**.
6. Click **Change/Remove**.
7. On the National Instruments Software panel, click **NI-DAQ old version**.
8. Click **Remove**.
A confirmation message appears.
9. Click **Yes**.
A message is shown prompting you to restart the computer.
10. Click **No**.
11. Navigate to the folder where the new NI-DAQmx 9.2.3 software has been extracted.
12. Double-click **Setup.exe**.
The Product Information window opens.
13. Click **Next**.

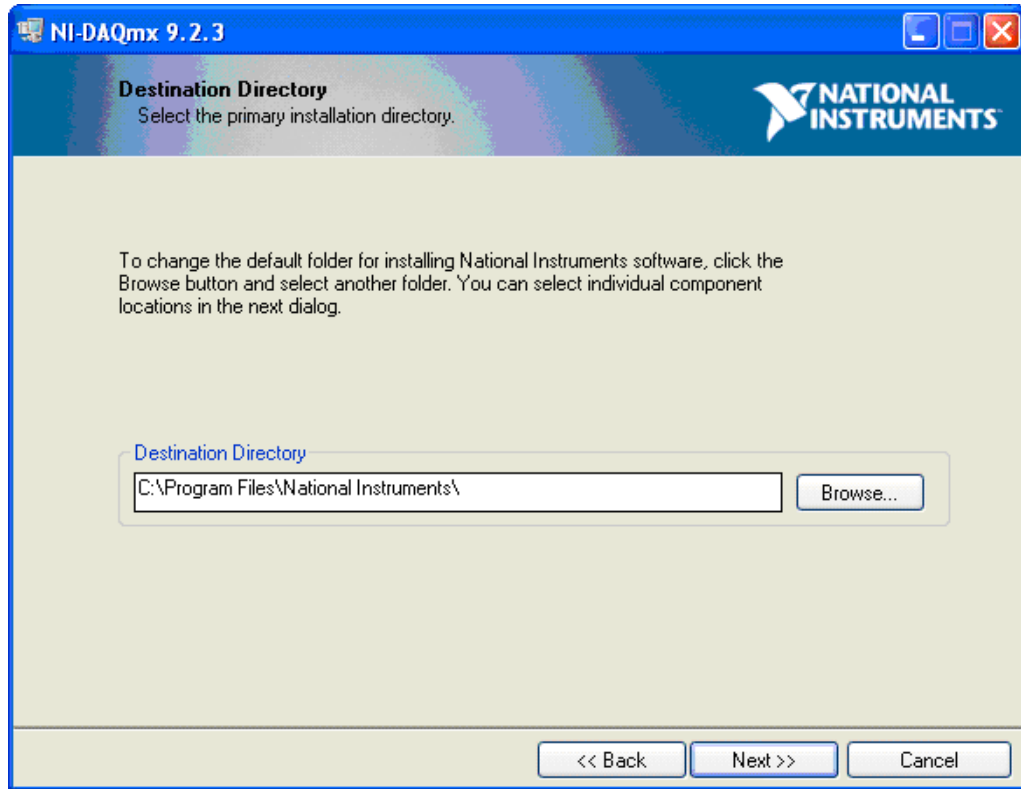


Figure E-2 Destination Directory dialog

14. Click **Next**.

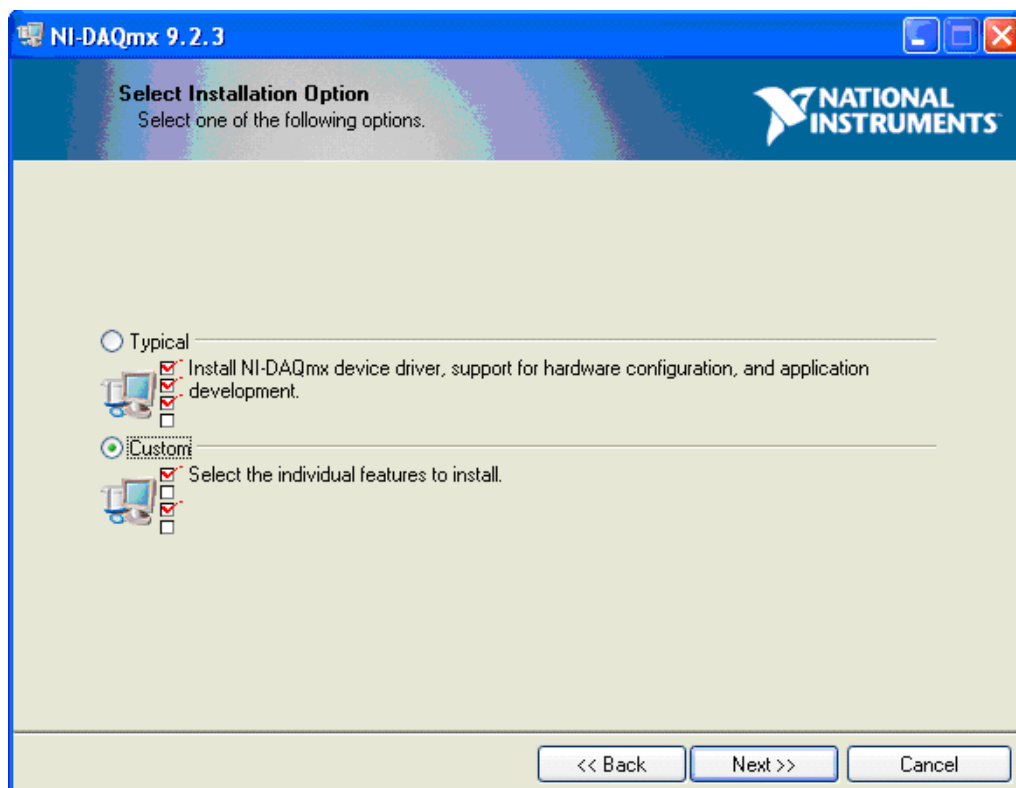


Figure E-3 Select Installation Option dialog

15. Click **Custom**.
16. Click **Next**.

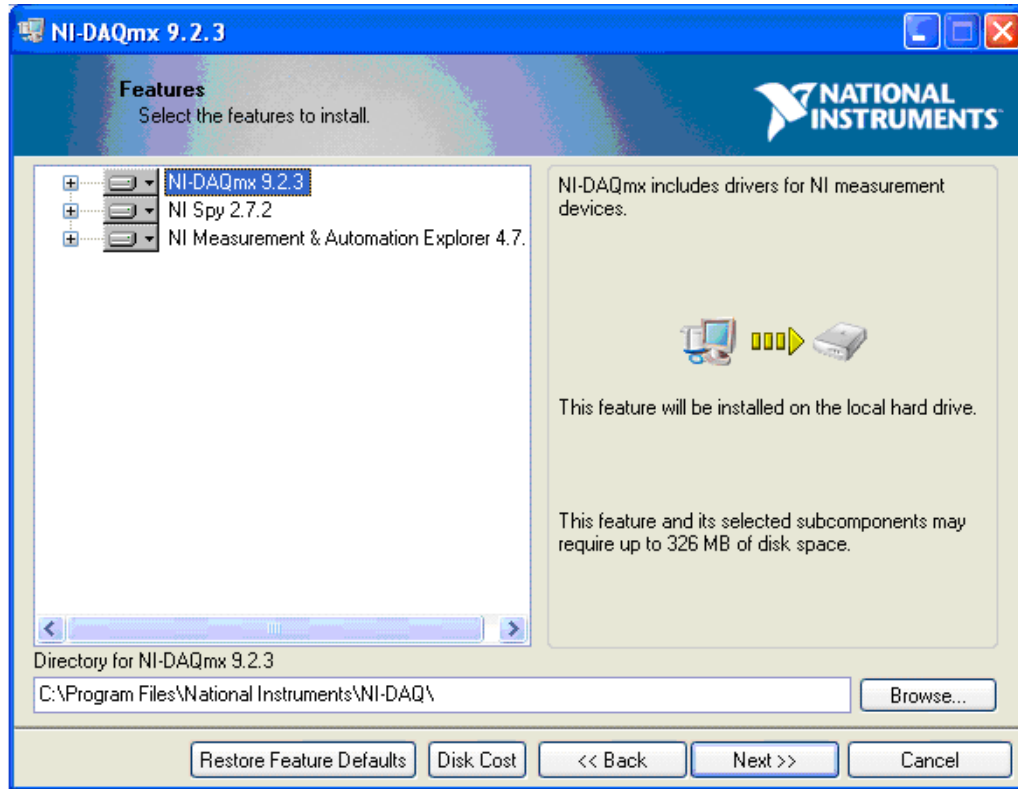


Figure E-4 Features dialog

17. Click **Next**.

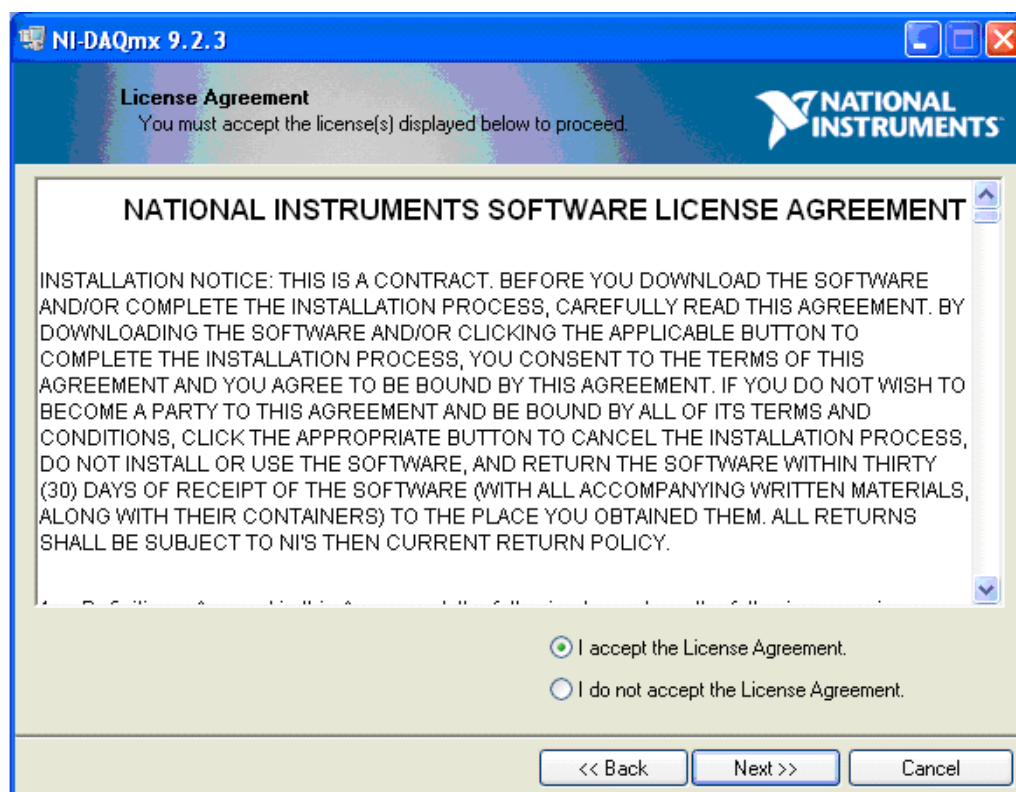


Figure E-5 License Agreement dialog

18. Click **I accept the license agreement**.
19. Click **Next**.

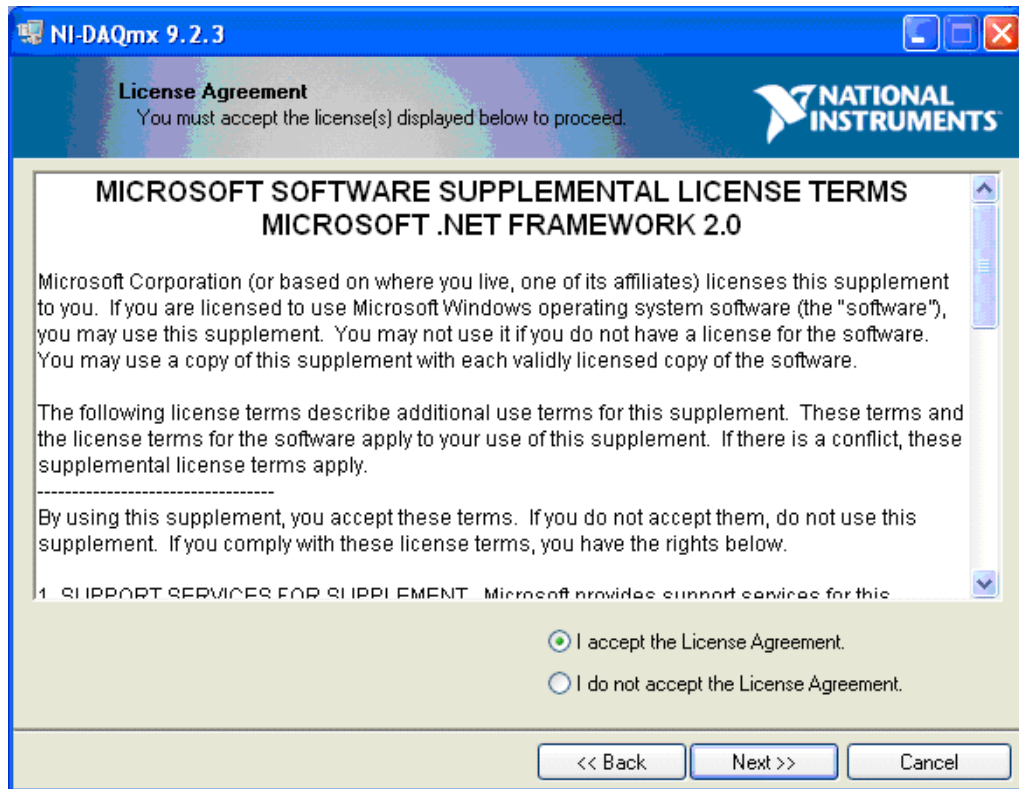


Figure E-6 Supplemental License Terms dialog

20. Click **I accept the license agreement**.
21. Click **Next**.

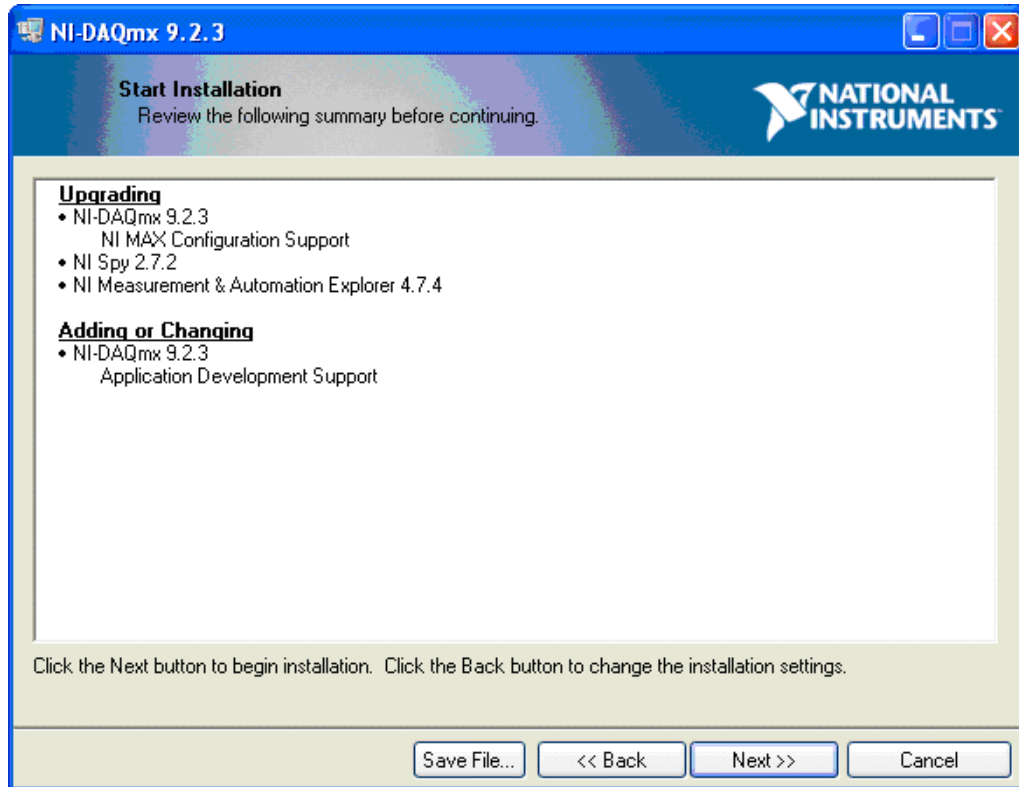


Figure E-7 Start Installation dialog

22. Click **Next**.

When the installation is complete, the Completion window opens.

23. Click **Next**.

You are prompted to restart your computer.

24. Click **Restart**.

When the computer restarts, an NI Product Registration window appears. Registration is optional and is not required to continue.

The Found New Hardware Wizard appears prompting you to connect to Windows Update to search for a new driver.

25. Select **No, not this time**.

26. When prompted for the location of the new software, select **Install the software automatically (Recommended)**.

27. Click **Next**.

After the installation is complete, the Completion window appears.

28. Click **Finish**.

The ADC card driver is now installed.

This section provides procedures for upgrading the driver software for the optional National Instruments GPIB card.



Note: This procedure is not required for Windows 7. The Windows 7 workstation comes with the correct driver version installed.

Upgrade the Driver Software

1. Make sure the hardware profile is deactivated.
2. Open Windows Control Panel.
3. Open the **Add/Remove Programs** control panel.



Tip! If the View is by Category, select **Add or Remove Programs > Add or Remove Programs**.

4. Double-click **Add/Remove Programs**.
5. From the list of installed software, click **National Instruments Software**.
6. Click **Change/Remove**.

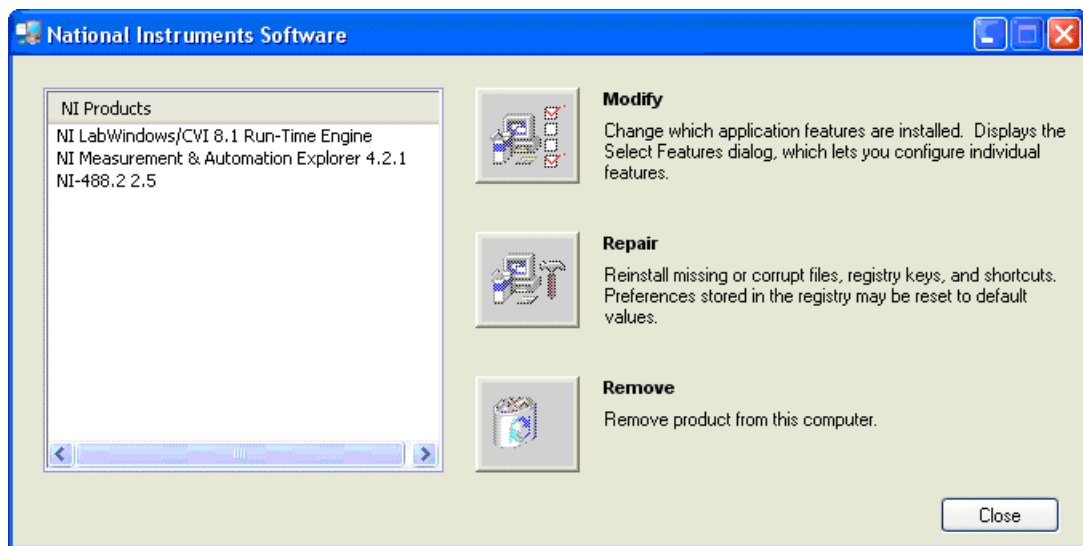


Figure F-1 National Instruments Software dialog

7. Select all the items in the **NI Products** list, and then click **Remove**.
8. Follow the instructions to remove the software.
9. Click **Finish**.
10. When prompted, click **Yes** to restart the computer.

11. Make sure the Analyst[®] 1.6 software DVD is in the DVD drive.
12. Browse to the Drivers folder.
13. In the GPIB 2.8 folder, click **Setup.exe**.
14. Follow the instructions in the installation wizard.
15. Register the software.
16. Click **Finish**.
17. When prompted, click **Yes** to restart the computer.

Several guides and tutorials are installed with the Analyst 1.6.1 software. The following table provides a list and the location of available documents.

Start Menu: All Programs > AB SCIEX > Analyst

- Hardware and Software Guides (See [Table G-1](#) for a list of software documentation)
- Tutorials
- Safety Guides
- Site Planning Guides
- Qualified Maintenance Guides
- Ion Source Guides

Application Folder: <drive>:\Program Files\Analyst\Help\

- Hardware and Software Guides
- Tutorials
- Safety Guides
- Site Planning Guides
- Qualified Maintenance Guides
- Ion Source Guides

Table G-1 Software Documentation

Document	Description
<i>Getting Started Guide</i>	Provides procedures for setting up and using the Analyst software to create methods, acquire samples, and analyze data.
<i>Advanced User Guide</i>	Describes the features and functionality of the Analyst software.
<i>4500 Series of Instruments System User Guide</i>	Covers the following information for the 4500 series of instruments: safety and system information, hardware profiles, projects, instrument tuning and calibrating, basic acquisition methods, batches, analyzing and processing data, information about Turbo V ion source, generic parameters, calibration ions and solutions, and cleaning and maintaining the 4500 instruments.
<i>Laboratory Director's Guide</i>	Describes the security functionality of the Analyst software.
<i>Scripts User Guide</i>	Provides procedures for installing and using the Analyst software scripts.
<i>Manual Tuning Tutorial</i>	Provides procedures for manually tuning your instrument.
<i>Manual Optimization Tutorial</i>	Provides procedures for manually optimizing the instrument for a particular analyte.

Table G-1 Software Documentation (Continued)

Document	Description
<i>Automatic Optimization Tutorial</i>	Provides procedures for using Compound Optimization to optimize the instrument for a particular analyte.
<i>IDA Tutorial</i>	Provides procedures for using the IDA Method Wizard to create an IDA experiment.
<i>Scheduled MRM™ Algorithm Tutorial</i>	Provides procedures for using the <i>Scheduled MRM™</i> algorithm feature.
<i>Analyst® Software Show Me</i>	Provides an introduction and describes basic functionality of the Analyst software.
<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>Peptide and Protein Quantitation Tutorial</i>	Provides procedures for creating methods that you can use for peptide and protein quantitation.

Table G-2 Instrument Documentation

Document	Description
<i>Hardware Guide</i>	Provides information about the instrument.
<i>Safety Practices</i>	Provides information in six languages about instrument safety as well as safety requirements for the laboratory.
<i>Qualified Maintenance Procedures</i>	Provides procedures for cleaning and maintaining the instrument. Note: Only trained operators should perform any cleaning or maintenance procedure.
<i>Site Planning Guide</i>	Provides information about how to prepare the site as well as materials required for installing the instrument.
<i>Ion Source Guides</i>	Provides procedures for installing and testing the ion sources.
<i>Ion Optics Tutorial</i>	Provides information about the instrument ion optics.