

Analyst® TF 1.7 Software

Software Installation Guide



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The Analyst® TF 1.7 software supports the TripleTOF® 4600 system, TripleTOF 5600/5600+ system, TripleTOF 5600+ system with SelexION™ Technology, and TripleTOF 6600 system. This guide provides information about, and procedures for, installing the Analyst TF 1.7 software. 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 Analyst TF 1.7 software.

Important Information to Know Before Installing



Note: Back up the Analyst Data folder to a safe location.

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

- All versions of the Analyst TF 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 TF 1.7 software data files are not compatible with all previous versions of the Analyst TF software. However, you can open data acquired in the previous versions of the Analyst TF software in the Analyst TF 1.7 software.
- All peripheral devices supported in the Analyst TF 1.5 software and later continue to be supported in the Analyst TF 1.7 software. Refer to [Appendix B: Peripheral Devices and Firmware](#).
- The Analyst TF 1.7 software is available as a software DVD for customers. Refer to [Chapter 3: Installation Instructions](#).
- The Analyst TF 1.7 software cannot be installed on the same computer as the Analyst Administrator Console (AAC) server software.
- For more information about the compatibility of the Analyst® TF 1.7 software with other software applications, refer to [Compatibility with Other Software on page 10](#).

Support

At AB SCIEX, we are committed to providing the highest level of support for Analyst TF 1.7 software users. To obtain answers to questions about any of our products, report issues, or suggest improvements, visit the Web site at www.absciex.com. For on-site service, support, and training, contact your local AB SCIEX Sales Representative or FSE.



This section explains the operating system, hardware, and software requirements that acquisition and processing workstations must meet for the Analyst® TF 1.7 software to operate.

Operating System Requirements

The Analyst TF 1.7 software requires Microsoft Windows 7 (32-bit) operating system on Dell Precision T3600, Dell Optiplex 9010, and Dell Optiplex XE2 computers. The TripleTOF® 6600 system requires the Dell Precision T3600 computer, and the TripleTOF 4600 and 5600/5600+ systems require the Dell Optiplex computer. The Analyst TF 1.7 software does not currently support any other operating system.

Network Environment Requirements

The Analyst TF 1.7 software supports these network environments:

- Microsoft Windows Server 2003
- Microsoft Windows Server 2008

Acquisition Workstation Requirements for the Dell Precision T3600 Computer

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 TF software. Detailed specifications for these systems are shipped with the workstation. For more information, contact your AB SCIEX sales representative.

For acquisition workstations for TripleTOF 6600 systems, AB SCIEX recommends the following minimum computer configuration:

- Hexa Intel Xeon E5-1660 Processor 3.30 GHz
- 4 GB (2 X 2 GB) RAM
- 2 × 2 Tb HDD (RAID1)
- DVD ± RW
- Network card - Intel Pro/1000 PT Dual port
- Windows 7 Professional

The Analyst TF 1.7 software has been qualified for acquisition on the current PC configuration. Refer to [Current Shipping Configuration for the Dell Precision T3600 Computer for Acquisition Workstation](#).

The system includes the following:

- Flat panel monitor
- Cronologic ADC PCI Adapter card (installed)

Acquisition Workstation Requirements for the Dell Optiplex 9010 Computer

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 TF software.

Detailed specifications for these systems are shipped with the workstation. For more information, contact your AB SCIEX sales representative.

For acquisition workstations for TripleTOF 6600 systems, AB SCIEX recommends the following minimum computer configuration:

- Intel Core I5-3550s
- 4 GB (2 X 2 GB) DDR3 1600 Mhz SDRAM

The Analyst TF 1.7 software has been qualified for acquisition on the current PC configuration. Refer to [Current Shipping Configuration for the Dell Optiplex 9010 and Dell Optiplex XE2 Computers for Acquisition Workstations](#).

Newer systems might be available. For more information, contact an FSE.

The system includes the following:

- Flat panel monitor
- Cronologic TDC PCI Adapter card, for use with the Time-to-Digital Converter (TDCx8) (installed)

Dell Optiplex XE2 Computer

The Dell Optiplex 9010 will be substituted with Dell Optiplex XE2 with the following computer configuration:

- Intel Core I5-4570S processor (Quad core, 2.90 GHz, 6MB with HD Graphics 4600)
- 8 GB (2 × 4 GB) DDR3 1600Mhz SDRAM

The Analyst TF 1.7 software has been qualified for acquisition on the current PC configuration for Dell Optiplex XE2.

Processing Workstation Requirements

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

- Intel Core I5-3550s
- 4 GB (2 X 2 GB) DDR3 1600 Mhz SDRAM

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.

Supported Acquisition Computer Models

As of the software release date, the Analyst TF 1.7 software has been tested and verified for compatibility with the DELL Precision T3600, Dell Optiplex 9010, and Dell Optiplex XE2 computers.

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

Current Shipping Configuration for the Dell Precision T3600 Computer for Acquisition Workstation

The Dell Precision T3600 acquisition workstation comes installed with the Windows 7 (32-bit) Professional operating system and all driver software for the cards.

It can include the following devices:

- National Instruments USB to GPIB
- Cronologic ADC card

- National Instruments ADC and National Instruments 16-bit ADC kit, required for analog signal measurement
- EdgePort USB to serial converter (optional)
- Network Card — Broadcom
- Network card – Intel Pro/1000 PT Dual port (optional)
- Nvidia Quadro nvs-310

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.

Current Shipping Configuration for the Dell Optiplex 9010 and Dell Optiplex XE2 Computers for Acquisition Workstations

The Dell Optiplex 9010 and Dell Optiplex XE2 computers comes installed with the following:

- An embedded Windows 7 Professional (32-bit) OS license.
- An embedded Windows XP Professional SP3 (32-bit) OS license so that the operating system can be downgraded to the Windows XP OS if required. **(Only applicable to Dell Optiplex 9010)**
- An embedded Windows 7 Professional (64-bit) OS license so that the operating system can be upgraded to the Windows 7 (64-bit) OS if required.



Note: The Analyst TF 1.7 software can only be installed on the Microsoft Windows 7 (32-bit) operating system.

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. Most driver software required for the cards is installed. The Cronologic TDC Card driver requires installation on the Windows 7 32-bit configuration.

The acquisition workstation comes with the following:

- Two Broadcom network card 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)

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 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	Driver Version
GPIB	2.8
ADC	9.2.3

Table 2-1 Cards and Drivers (Continued)

Card name	Driver Version
Network card – Intel Pro/1000 PT Dual port	9.3 or later
EdgePort USB	5.3
Network Card — Broadcom	14.6.0.6 or later
Cronologic ADC	0.9.27
Cronologic TDC*	3.0.1
* This driver needs to be installed manually on the Dell Optiplex 9010 Windows 7 image.	

Compatibility with Other Software

At the time of this release, the following AB SCIEX software releases are compatible with the Analyst TF 1.7 software. Some of the software might need to be ordered from AB SCIEX before beginning the installation. For the most recent AB SCIEX software versions, visit the Web site at www.absciex.com.

To obtain a link to download software or to obtain a license, visit the AB SCIEX Software Downloads section at <http://www.absciex.com/downloads/software-downloads>.

- BioPharmaView™ 1.0 Software
- MarkerView™ 1.2.1 Software
- MetabolitePilot™ 1.5 Software
- MS/MS^{ALL} with SWATH™ Acquisition MicroApp 2.0 Software
- MultiQuant™ 3.0 Software
- PeakView® 2.1 Software
- ProteinPilot™ 5.0 Software

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

Supported Mass Spectrometers

The Analyst TF 1.7 software can control and analyze data from each of the following AB SCIEX mass spectrometers:

- TripleTOF® 4600 system
- TripleTOF 5600/5600+ system
- TripleTOF 5600+ system with SelexION™ Technology
- TripleTOF 6600 system

Contents of the Analyst TF 1.7 Software DVD

The following software applications, files, folders, and documents are included on the Analyst TF 1.7 software DVD:

- Analyst TF 1.7 software folder containing all of the files for the Analyst TF Software. It also contains the software guides and tutorials for the Analyst TF 1.7 software. The folder also contains the scripts. The scripts are experimental and provide research-grade functionality that can be added to the software. The contents in this folder are copied to the computer after software installation. All documents will be accessible through the Start > Program menu.
 - Drivers folder containing the ADC, Cronologic, Edgeport 5.3, GPIB 2.8, and NIDAQ923-1 driver folders. These folders contain the software for all supported cards.
 - An Extras folder containing the following subfolders:
 - AAO: Contains the Analyst Access Object release notes and user guide.
 - ACROREAD: Contains the Adobe Acrobat Reader 9.1 installer.
 - Agilent Ethernet Networking (BOOTP) Package: Contains instructions and a utility to control the Agilent LC devices using Ethernet.
 - ConfigUpdater: Contains the Configuration Updater Utility that is used to update the firmware and configuration table located on the instrument.
 - Examples: Contains sample .mol files.
 - **PeakView 2.1**: Contains the PeakView software installer, documentation, and extra utilities.
 - ResetSystemController: Contains a utility software for resetting the instrument controller.
 - Scripting Cookbook: Contains a guide that provides information for writing applications to extend the functionality of the Analyst TF software.
 - Scripts: Contains a collection of scripts that users can install.
 - Updated Reference Table: Contains the new reference table TuneData.tun file. If there is a need to revert back to the TuneData.tun file that came with the Analyst TF 1.7 software, overwrite the existing reference table with this new reference table. To overwrite the existing Tunedata.tun file, copy the new TuneData.tun file from the Extras\Updated Reference Table folder on the Analyst TF 1.7 software DVD, and then paste it into the Analyst Data\API Instrument\Preferences folder.
- Caution: If you overwrite the existing TuneData.tun file, any modified or user-created reference tables will be lost.**
- The *Release Notes* for the Analyst TF 1.7 software.
 - The *Software Installation Guide* for the Analyst TF 1.7 software (this document).



This section provides important information and procedures for installing or upgrading to the Analyst® TF 1.7 software on acquisition and processing workstations.

If you are doing a fresh installation of the Analyst TF 1.7 software, then refer to [Install the Analyst TF 1.7 Software](#).

If you are upgrading to the Analyst TF 1.7 software from a previous version of the Analyst TF Software, use the appropriate link listed below based on your current software version:

- Analyst TF 1.6 Software: Follow steps in [Upgrade to Windows 7 \(32-bit\) Operating System](#).
- Analyst TF 1.6 Software with Components for SelexION Technology: Follow steps in [Upgrade to Windows 7 \(32-bit\) Operating System](#).
- Analyst TF 1.7 Beta Software: Follow steps in [Analyst TF 1.7 Software Installation](#).

Analyst TF 1.7 Software Installation



Note: Back up the API Instrument folder to a safe location if it exists.



Note: To install the Analyst TF 1.7 software, you must have Administrator privileges on the workstation.

Before Installing the Analyst TF 1.7 Software

1. Deactivate the hardware profile if required.
2. Close the Analyst TF software if required.
3. Uninstall the Analyst TF software installed on your system.
4. Restart the computer.

Install the Analyst TF 1.7 Software

Complete the following procedure to install the Analyst TF 1.7 software on acquisition and processing workstations.

1. Locate the **Analyst TF 1.7 Software DVD** required for the installation.
2. If required, locate any DVDs or CDs containing optional add-on software.
3. Log on to the computer as a user with Windows local administrator privileges.
4. Insert the **Analyst TF 1.7 Software DVD** in the DVD drive of the computer.
5. If the **AutoPlay** dialog opens, then select the option to browse the DVD.



Note: If the AutoPlay dialog does not open, then browse to the **Analyst TF 1.7 Software** folder on the DVD and double-click **setup.exe**.

6. Browse to the **Analyst TF 1.7 Software** folder and then double-click **setup.exe**.
7. Follow the instructions on the screen to install the Analyst TF software.

By default, the Security mode is set to Integrated.

Update the Firmware and Configuration Tables

If you are upgrading the Analyst TF software on an existing Mass Spectrometer system, then refer to section [Update the Firmware and Configuration Tables](#).

Upgrade to Windows 7 (32-bit) Operating System



Note: Before installing the Analyst TF 1.7 software, determine the performance level of the mass spectrometer by creating a set of baseline data. To create a set of baseline data, create a .wiff file for each scan type (Q1, TOF MS, TOF MSMS) for each polarity. You can use the Tuning Solution for positive mode and Taurocholic acid 2 ng/ μ L for negative mode. This baseline data will be used to confirm the instrument performance after the installation of the Analyst TF 1.7 software. Refer to [Confirm that the Analyst TF 1.7 Software and Instrument-Specific Settings Installed Correctly](#).



Note: To install the Analyst TF 1.7 software, you must have Administrator privileges on the workstation.

Follow all the steps listed below in the **same sequence** as they are shown in this document to successfully install the Analyst TF 1.7 software. Steps 1 to 8 are necessary. Each step (1 to 8) is explained on the following pages and must be followed as described:

Caution: Potential System Damage. We highly recommend that the following steps be performed by an AB SCIEX Field Service Representative. Please contact your AB SCIEX Sales or Service Representative to help you with the upgrade. Additional service costs might apply.

1. [Back Up All the Important Information](#)
2. [Upgrade Computer to Microsoft \(MS\) Windows 7 \(32-bit\) Operating System \(OS\)](#)
3. [Install Cronologic HPTDC TDC Driver](#)
4. [Install the Analyst TF 1.7 Software](#)
5. [Install Instrument-Specific Settings](#)
6. [Install Project Folders, Customer Data, and Applications](#)
7. [Update the Firmware and Configuration Tables](#)
8. [Confirm that the Analyst TF 1.7 Software and Instrument-Specific Settings Installed Correctly](#)

Back Up All the Important Information

It is critical that you back up all of the important information before installing the Analyst TF 1.7 software. Back up the following on an external hard disk or on the network:

- InstrumentData.ins file from Analyst Data\Projects\API Instrument\Instrument Data
- ParameterSettingsDef.psf file from Analyst Data\Projects\API Instrument\Parameter Settings
- Five .txt files (CronoCal_x, x=0,1,3,5,7) from Analyst Data\Projects\API Instrument\Preferences
- Tunedata.tun file from Analyst Data\Projects\API Instrument\Preferences (copy only if you want to maintain the custom reference tables)

- Any user-created acquisition data, methods, batches, templates, project folders, drivers (AAO), companion software and any other data or program as needed.

Caution: Potential Data Loss. If you are planning on re-imaging the Dell Optiplex 9010 computer, then all of the required data files and programs must be copied to an external hard drive. Failure to copy all of the required data files to a location other than the Dell Optiplex 9010 computer could result in permanent loss of data and applications.

Upgrade Computer to Microsoft (MS) Windows 7 (32-bit) Operating System (OS)

Upgrade the computer using **one** of the following two ways:

- [Purchase a new Dell Optiplex computer with MS Windows 7 \(32-bit\) OS](#)
- [Re-image existing Dell Optiplex 9010 workstations to Windows 7 \(32-bit\) OS](#)

Purchase a new Dell Optiplex computer with MS Windows 7 (32-bit) OS

To upgrade to the Windows 7 (32-bit) OS, purchase a new Dell Optiplex 9010 or the latest supported computer with the Windows 7 (32-bit) OS.

After a new Dell Optiplex computer is purchased, perform the following steps to upgrade to the Windows 7 (32-bit) OS:

1. When the new computer is turned on for the first time, the Windows setup wizard opens and prompts the user to set up the Windows environment. Follow the instructions to set up generic Windows items such as the account name and password, date, and time zone.

After the setup is complete, the computer restarts automatically.

2. Remove the Cronologic HPTDC TDC Card from your Dell T3500 Computer. This step is only required if you are upgrading your computer to the Windows 7 OS and you were using a Dell Optiplex T3500 computer with Windows XP OS. Use the following procedure to remove the Cronologic HPTDC TDC Card.

Caution: Potential System Damage: Make sure that you are electrically grounded. Wear a grounded wrist strap when handling this component.

Required Materials

- ESD wrist strap and mat

- i. Turn off the computer and then unplug the power cable from the AC mains supply outlet.
 - ii. Disconnect the TDC instrument cable from the computer. Disconnect any other cables as needed.
 - iii. Pull the release mechanism located at the top back of the computer toward the back of the computer.
The right side panel opens at the top.
 - iv. Remove the right side panel.
 - v. Open the blue retaining arm that is hinged on the back wall of the computer, and then squeeze the blue handle that locks access to the computer card slots.
 - vi. Remove the TDC card located in the fifth slot.
3. Install the Cronologic HPTDC TDC Card you removed in the new Dell Optiplex 9010 or the latest supported computer you purchased. Use the following procedure:

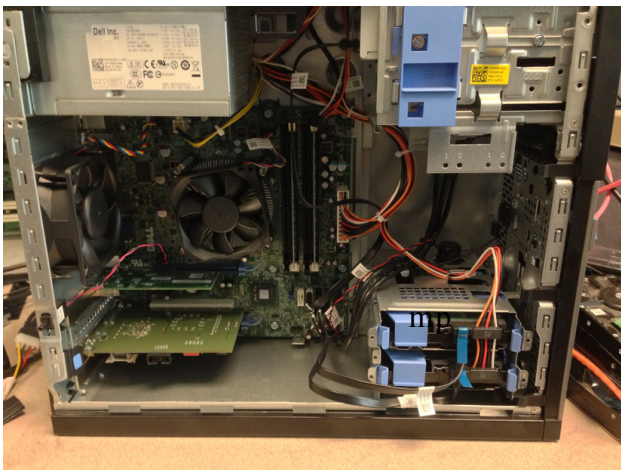
Caution: Potential System Damage. Make sure that you are electrically grounded. Wear a grounded wrist strap when handling this component.

Required Materials

- ESD wrist strap and mat

- Remove the cover panel on the left side of the Dell Optiplex 9010 computer.
- Lift the retaining arm that secures the cards in the slots, and then remove the slot cover from slot 3 (the second slot from the bottom).
- Insert the TDC card into slot 3, making sure that it is fully inserted into the PCI connector.

Figure 3-1 TDC Card Installed, Interior View



- Install the retaining arm by snapping it back into place.
- Install the cover panel.

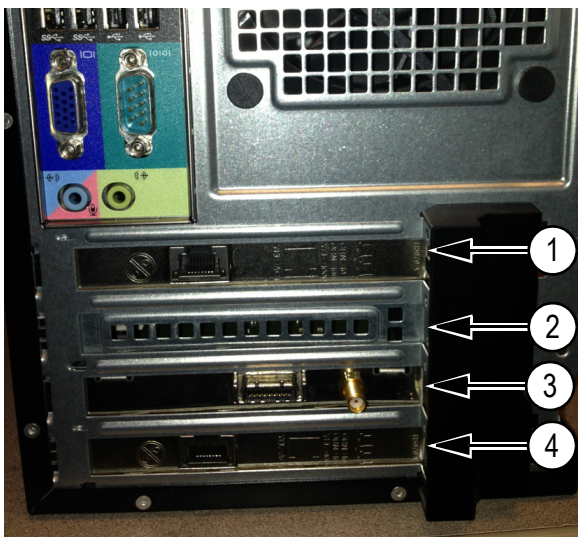


Figure 3-2 TDC Card Installed, Exterior View

Item	Description
1	Slot 1—Ethernet
2	Slot 2—Empty
3	Slot 3—TDC card
4	Slot 4—Ethernet

- vi. Go to [Install Cronologic HPTDC TDC Driver](#).

Re-image existing Dell Optiplex 9010 workstations to Windows 7 (32-bit) OS

To upgrade to the Windows 7 (32-bit) OS, re-image the existing Dell Optiplex 9010 acquisition and processing workstations to Windows 7 (32-bit) OS from Windows XP OS. Use the following procedure:

Caution: Potential System Damage. We highly recommend that the following steps be performed by an AB SCIEX Field Service Representative. Please contact your AB SCIEX Sales or Service Representative to help you with the upgrade. Additional service costs might apply.

Required Materials

- AB SCIEX Recovery Activation Disc (Part No: 5025243 Rev C): This disc was provided with your existing Dell Optiplex 9010 computer.
- Cronologic HPTDC TDC Card: Make sure it is installed on the computer.

Caution: Potential Data Loss. Make sure that you have backed up all of the important information listed in section [Back Up All the Important Information](#). This is very important because after the following steps are performed, all of the data on the computer will be permanently deleted.

1. Turn on the computer.
2. During the restart, insert the AB SCIEX Recovery Activation Disc into the CD ROM drive.
The CD runs automatically during restart.
3. Press **F12** during the startup.
4. In the bootup screen, choose bootup from CD/DVD Drive.
5. In the setup screen for the AB SCIEX Recovery Activation Disc, select **Load C: drive image from Recovery drive. (Option 1)**.

Caution: Potential Data Loss. Make sure that you have backed up all of the important information listed in section [Back Up All the Important Information](#). This is very important because after the following steps are performed, all of the data on the computer will be permanently deleted.

6. Follow the on-screen instructions to set up the appropriate operating system.
7. After the re-imaging is complete, restart the computer.

Install Cronologic HPTDC TDC Driver

1. Log on to the computer as a user with Windows local administrator privileges.
2. Insert the **Analyst TF 1.7 Software DVD** in the DVD drive of the computer.
3. Navigate to the **Drivers\Cronologic** folder on the DVD.
4. Locate the TDC driver and double-click the **HPTDC8_driver_v301.exe** file.
5. Follow the on-screen instructions to install the driver.

Install the Analyst TF 1.7 Software

1. Locate **setup.exe** in the **Analyst TF 1.7 Software** folder on the Analyst TF 1.7 Software DVD and then double-click it.
2. Follow the instructions on the screen to install the Analyst TF software.

Install Instrument-Specific Settings

From the backup created in the first step, copy the following files and paste them in the appropriate locations in the Analyst Data folder.

- Copy the InstrumentData.ins file and paste it into the Analyst Data\Projects\API Instrument\Instrument Data folder. Then select Yes to overwrite the existing file.

- Copy the backed up ParameterSettingsDef.psf file and paste it into the Analyst Data\Projects\API Instrument\Parameter Settings folder. Then select Yes to overwrite the existing file.
- Copy the five .txt files (CronoCal_x, x=0,1,3,5,7) that were backed up and paste them into the Analyst Data\Projects\API Instrument\Preferences folder.
- **Perform this step only if you want to maintain your custom reference tables.** Copy the backed up Tunedata.tun file and paste it into the Analyst Data\Projects\API Instrument\Preferences folder. Then select Yes to overwrite the existing file.

Install Project Folders, Customer Data, and Applications

Install Analyst TF Project folders (not API Instrument folder), customer data and applications, AAO Programs, and so on as needed.

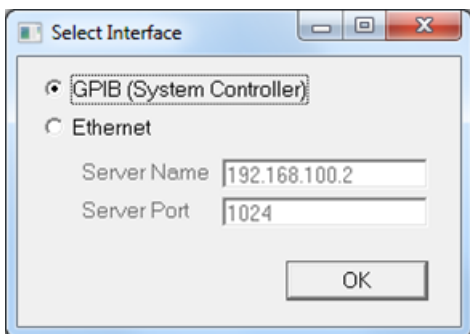
Update the Firmware and Configuration Tables

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

Before running this utility, make sure that the mass spectrometer is on and the GPIB driver software is properly installed.

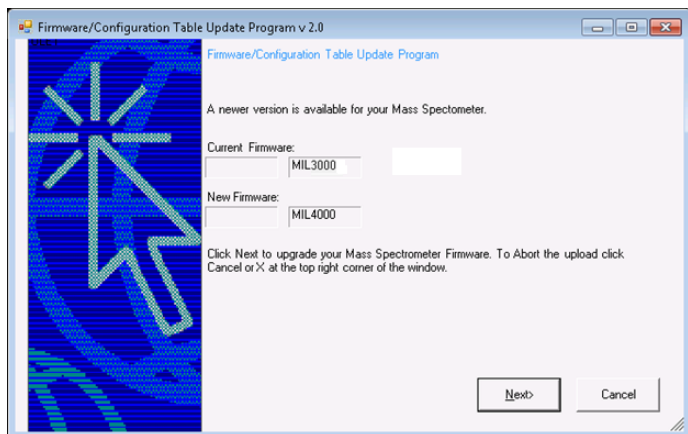
1. Navigate to the location where the contents of the Analyst TF 1.7 software package was unzipped.
2. Browse to \Extras\ConfigUpdater folder and then double-click **ConfigUpdater.exe**. The Configuration Update Program page opens.

Figure 3-3 Select Interface Dialog



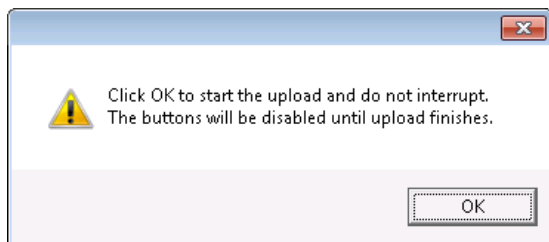
3. Click **GPIB (System Controller)**.
4. Click **OK**.

The Configuration Update Program identifies the new firmware version it will install.

Figure 3-4 Firmware/Configuration Table Update Program Dialog

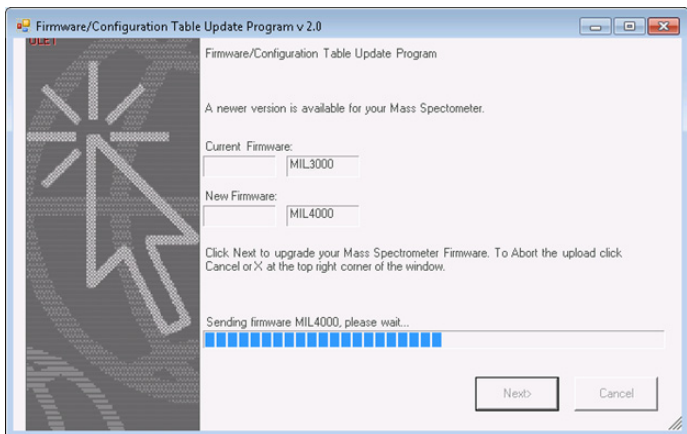
5. Click **Next**.

A message box prompting users to click the OK button to start the uploading the new firmware is shown.

Figure 3-5 Message Box

6. Click **OK** to start the upload.
The ConfigUpdater program starts uploading the new firmware.

Figure 3-6 Firmware/Configuration Table Update Program Dialog

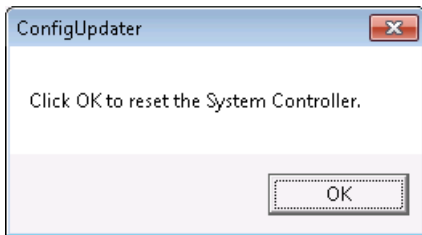


7. After step 5 starts, wait for 10 minutes.



Note: During the firmware upload process, a message (Figure 3-7) is shown indicating that the mass spectrometer (system controller) will be reset. **Do not** click OK in the message until **10 minutes** have elapsed from the start of step 5.

Figure 3-7 Mass Spectrometer Reset Message

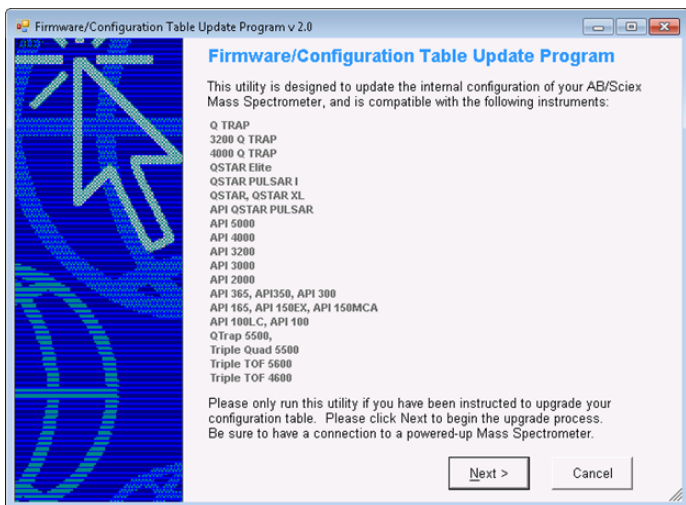


8. Click **OK**. Wait for two minutes.



Note: After you click **OK**, the **ConfigUpdater** program advances to the next dialog (Figure 3-8). **DO NOT CONTINUE WITH THIS DIALOG UNTIL THE MASS SPECTROMETER RESET PROCESS IS COMPLETED IN step 9.**

Figure 3-8 Firmware/Configuration Table Update Program Dialog

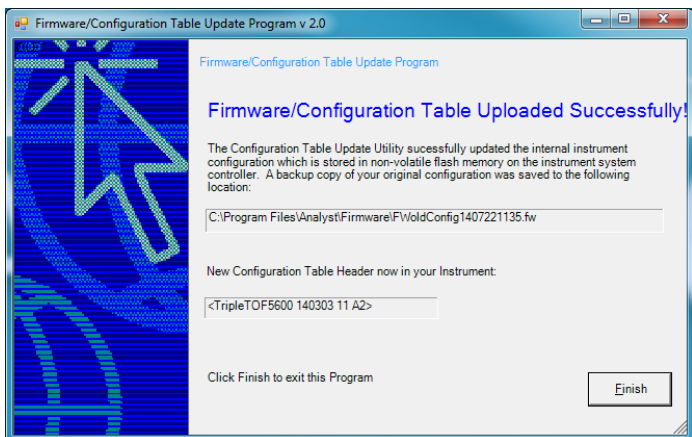


- If the MIL3000 firmware is being used, then manually reset the mass spectrometer (power off, wait for 10 seconds, power back on). Then wait 30 seconds for the mass spectrometer to power on. For other firmware, the mass spectrometer is reset automatically.
- After the mass spectrometer reset is complete, click **Next** in Figure 3-8 to re-run Configuration Updater to upgrade the Configuration Table.
After the Configuration Table is upgraded, the message (Figure 3-7) to reset the mass spectrometer is displayed.
- Click **OK**.
The mass spectrometer resets itself.
The Firmware/Configuration Table Uploaded Successfully message is shown.
- Click **Finish** to complete the Configuration Table upgrade.



Note: If the Firmware/Configuration Table Uploaded Successfully dialog is shown along with another dialog (see Figure 3-9), ignore the other dialog and then click **Finish** in the Firmware/Configuration Table Uploaded Successfully dialog to complete the upgrade process.

Figure 3-9 Firmware/Configuration Table Uploaded Successfully Dialog



13. After the mass spectrometer reset is complete, start the Analyst TF software. Create and activate an instrument hardware profile from the Hardware Configuration Editor.

Confirm that the Analyst TF 1.7 Software and Instrument-Specific Settings Installed Correctly

To perform the channel alignment routine, either use your own tuning solution or use the Tuning Solution for positive mode and POS PPG 1E-4M for negative mode.

1. Infuse a solution.
2. Run a TOF scan.
3. Confirm that a stable signal is present.
4. Run Instrument Optimization. **Only perform the Channel Alignment Routine at this time.** This needs to be done for both positive and negative modes. A different solution might be required to execute the channel alignment routine for the other polarity. In the negative mode, use the default reference table.
5. Confirm that the instrument performance is as expected. Refer to the baseline data that was collected at the beginning of the [Upgrade to Windows 7 \(32-bit\) Operating System](#) section.

(Optional) Install Scripts

- A number of research-grade scripts are available to extend the functionality of the Analyst TF software. Refer to the *Scripts User Guide* found in the Start Menu: All Programs > AB SCIEX > Analyst® TF > Software Guides folder.

(Optional) Install PeakView® 2.1 Software

The PeakView® 2.1 software is available on the Analyst TF 1.7 Software DVD. You will need a license to use the PeakView 2.1 software. Use the link <https://licensing.absciex.com/download/index> to get a trial license.

1. Navigate to the **Extras\PeakView 2.1** folder on the DVD.
2. Double-click **PeakView_2.1.exe** and extract the contents of this self-extracting executable to the C:\ drive.
3. Follow the on-screen instructions.

Run the Analyst TF 1.7 Software for the First Time

1. Start the Analyst TF 1.7 software by double-clicking the icon on the desktop.
2. (For acquisition workstations) Configure and activate a hardware profile and then test the software to make sure that you can acquire data or process data.

Register the Analyst TF 1.7 Software

Ten days from the date of installation, the software prompts you to register the Analyst TF 1.7 software online. This online registration helps AB SCIEX offer better support, and allows for easier notification about the availability of upgrades and patches, as well as other software-related information.

After you install the Analyst TF 1.7 software, register the installation online at: www.absciex.com/AnalystReg.

Register from any computer. 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.

The following instrument firmware and configuration table versions are required for the Analyst® TF 1.7 software. This table is for reference purposes only.

Table A-1 Configuration table and firmware files

Instrument	Configuration table file	Firmware
TripleTOF® 4600 system	D2988101.fw	MIL4000
TripleTOF 5600 system	C7600802.fw	M3L2003 (for 332 Main); M402001 (for 340 Main)
TripleTOF 5600+ system	C7600802.fw	MIL4000
TripleTOF 5600+ system with SelexION™ Technology	C7600811.fw	MIL4000
TripleTOF 6600 system	D2988300.fw	MIL4000



The Analyst® TF 1.7 software supports the devices listed in the following table. Firmware versions that have been fully qualified with the Analyst TF 1.7 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 TF 1.7 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 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	(1.12 or higher)	—
ekspert ultraLC 100 Column Oven	(2.04 or higher)	—
Eksigent Ultra 2D+	(2.45)	—
Eksigent Ultra 2D	(2.46)	—

Table B-2 Agilent 1290

Peripheral device	Model	Tested firmware	Communication cable required
Binary	G4220A	(B.06.32, A.06.55, B.06.30)	WC024736 (RS-232 cable) or Ethernet
Standard Autosampler	G4226A	A.06.32, (A.06.54, A.06.30)	WC024736 or Ethernet
Column Oven	G1316C	A.06.32, (A.06.30)	WC024736
DAD	G4212A	(B.06.32, B.06.30)	Ethernet

Table B-3 Agilent 1260

Peripheral device	Model	Tested 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

Table B-3 Agilent 1260 (Continued)

Peripheral device	Model	Tested firmware	Communication cable required
High Performance Autosampler	G1367E	(A.06.32)	WC024736 or Ethernet
TCC—Thermostatted Column Compartment	G1316A	(A.06.32)	WC024736
DAD—Diode Array Detector	G4212B	(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.06.53, 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.06.54, 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.06.32, 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	(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.06.53, 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 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
Quarternary 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
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
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**
with 819 Valve	(1.00)	Gilson GSIOC
233 Autosampler	(BV1.11)	WC024735
with 402 Syringe	(SV1.10, SV2.3)	Gilson GSIOC
** 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	(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 B-10 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

Table B-11 Shimadzu

Peripheral device	Tested firmware (and other firmware)	Communication cable required
SCL-10Avp System Controller	(5.40, 5.33)	WC024736

Table B-11 Shimadzu (Continued)

Peripheral device	Tested firmware (and other firmware)	Communication cable required
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	
SIL-20AXR Autosampler	(1.20 or later)	
SIL-20A Autosampler	—	—
SIL-20AC Autosampler	(1.20)	—
SIL-30AC Autosampler	2.01, 3.0	—
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-20ADXR Pump	1.20, 1.21, 1.22	—
LC-30AD Pump	2.01, 3.01, (2.1)	—
LC-20AD Solvent Delivery Unit	1.10, (1.07, 1.04 or later)	—
LC-20AB Binary Solvent Delivery Unit	—	—
LC-20AT Solvent Delivery Unit	—	—
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-20A Column Oven	—	—
CTO-20AC Column Oven	1.07, (1.06)	—

Table B-11 Shimadzu (Continued)

Peripheral device	Tested firmware (and other firmware)	Communication cable required
CTO-30A Column Oven	3.0, (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)	—
SPD-20A UV-VIS Detector	—	—
SPD-20AV UV-VIS Detector	(1.03), 1.11	—
OptionBox-L Subcontroller	(3.2)	—
SubcontrollerVP	(5.20)	—
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)	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 C	—	—

Table B-12 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 B-13 Valco

Peripheral device	Tested firmware (and other firmware)	Communication cable required
2 Position Valve	1-PD-EPX88RL	—

Table B-14 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	—

Notes on Firmware for Agilent Users

It is recommended that Agilent users use the most recently distributed firmware from Agilent. Due to Agilent's frequent firmware release schedule, AB SCIEX cannot test all firmware on all devices in all Analyst TF software versions, but Agilent's releases are backward-compatible. If a problem occurs, downgrade the firmware indicated in the previous tables. Agilent CAN support requires that all firmware in the CAN-linked stack be of the same major revision (4.x, 5.x, and so on).

Peripheral Devices Controlled via AAO Software Interface

The Analyst Access Object (AAO) is an interface to the Analyst TF 1.7 software that allows device vendors to develop device control software that can be plugged into this version of the Analyst TF software to enable integrated LC/MS control.

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

- Advion, Inc.
- 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.



At AB SCIEX, we are committed to providing the highest level of support for Analyst TF software users. To obtain answers to questions about any of our products, report problems, or suggest improvements, visit the Web site at <http://www.absciex.com>.

Table C-1 Troubleshooting

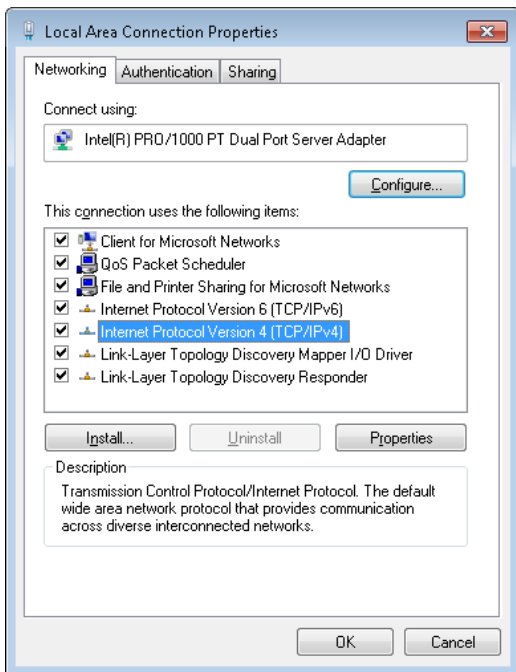
Issue	Possible cause or solution
<p>The installation stops part way through the process.</p>	<p>Remove the partially installed software using Windows Add/Remove Programs.</p> <p>Leave the system off for at least 15 seconds after removing the software.</p> <p>Start the installation by navigating to the \Install folder on the Analyst TF 1.7 software DVD and then double-clicking the Setup.exe file.</p> <p>If you cannot remove the partially installed software or you still cannot install the software, contact AB SCIEX technical support at www.absciex.com.</p>
<p>The installation seems to be taking a long time to install.</p>	<p>There might be a large amount of data in the <drive>:\Analyst Data\Projects\API Instrument\Data folder.</p> <p>Before installing the software, backup and then delete the contents in <drive>:\Analyst Data\Projects\API Instrument\Data folder.</p>
<p>After I install the software and start the application, I experience a failure where the event log reports that the software is unable to open the security database.</p>	<p>Remove the installed software using Windows Add/Remove Programs, and then install the software.</p> <p>Contact AB SCIEX technical support at www.absciex.com to report the error.</p>
<p>After installing, I cannot log on to the Analyst® TF 1.7 software.</p>	<p>Your user name might not have been successfully added to the security database. Log on to the computer as the local administrator, and then add your user name to the Analyst TF 1.7 Software using the Security Configuration dialog.</p>
<p>I see the error message “Failed to load the parameter settings file” when I try to start a profile in the Analyst TF 1.7 software.</p>	<p>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.</p>



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.

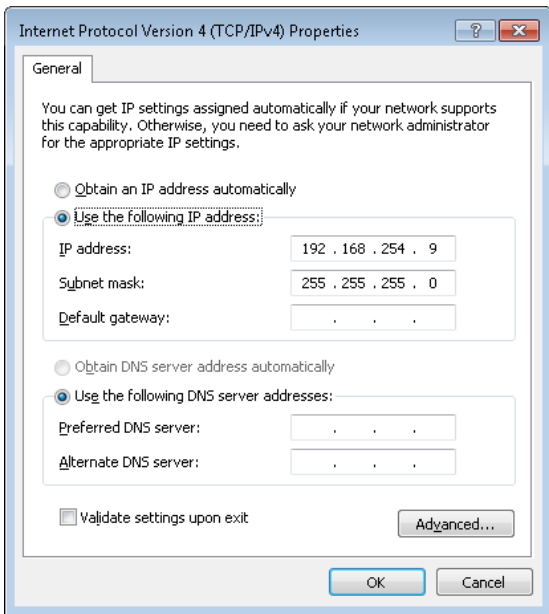
Configure the Card

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 the **Change adapter settings** link in the left panel.
4. Right-click **Local Area Connection Network 3**.
5. Select **Properties**.
The Local Area Connection Properties dialog opens.



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

The Internet Protocol Version 4 (TCP/IPv4) Properties dialog opens.



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**.
12. Close the Local Area Connection 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 follows:
SW 6 OFF, SW 7 ON, SW 8 ON. 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. To confirm the connection between the workstation and the DAD, from Windows, click **Start**, and then select **Run**.
The Run dialog opens.

5. In the **Open** dialog, type ping 192.168.254.11-t, and then click **OK**.
 - If you receive the message: “Request Timed Out” the communication has failed. Check your connections, IP settings, and cables, and then repeat steps 1 to 5.
 - If you receive the message: “Reply from 192.168.254.11” the communication is successful. Continue to step 6.
6. Using the Analyst® TF software, add the DAD to a hardware profile. Refer to the operator guide that comes with the mass spectrometer.



Table E-1 provide a list and the location of the available documents that are installed with the software.

Start Menu: All Programs > AB SCIEX > Analyst® TF
 • Software Guides

Table E-1 Software Guides and Tutorials

Document	Description
Advanced user Guides	Describes the features and functionality of the Analyst software.
Analyst TF Help	Provides procedures for setting up and using the Analyst software to create methods, acquire samples, and analyze data.
IDA Tutorial	Provides procedures for using the Acquisition Method Editor to create an IDA experiment.
Laboratory Director's Guide	Describes the security functionality of the Analyst software.
Manual Optimization Tutorial	Provides procedures for manually optimizing the instrument for a particular analyte.
Mass Calibration Tutorial	Provides procedures for calibrating your instrument.
Peripheral Devices Setup Guide	Provides procedures for connecting peripheral devices to the computer and instrument.
Release Notes	Provides information about new software features and notes on use, known issues, and limitations.
Scripts User Guide	Provides procedures for installing and using the Analyst TF software scripts.
Software Installation Guide	Provides information, requirements, and procedures for installing the software.
Template Methods in Analyst TF Software	Provides information about template methods and parameters.

The hardware guides, System User Guides, and SelexION Technology User Guide are available on the TripleTOF Systems Hardware Documentation DVD. Ion source guides are now delivered with the ion sources, and the site planning guides are available on the AB SCIEX Web site, <http://www.absciex.com/userguides>. Table E-2 lists these guides.

Table E-2 Hardware Guides

Document	Description
TripleTOF® 5600/5600+ Instruments System User Guide	Covers the following information for the AB SCIEX TripleTOF 5600/5600+ systems: safety and system information, hardware profiles, projects, instrument tuning and calibrating, basic acquisition methods, batches, analyzing and processing data, information about DuoSpray ion source, generic parameters, calibration ions and solutions, and cleaning and maintaining the TripleTOF 5600/5600+ systems. Also, provides information about regulatory compliance, instrument safety, and safety requirements for the laboratory.
TripleTOF 4600 System User Guide	Covers the following information for the AB SCIEX TripleTOF 4600 system: safety and system information, hardware profiles, projects, instrument tuning and calibrating, basic acquisition methods, batches, analyzing and processing data, information about DuoSpray ion source, generic parameters, calibration ions and solutions, and cleaning and maintaining the TripleTOF 4600 system. Also, provides information about regulatory compliance, instrument safety, and safety requirements for the laboratory.
TripleTOF 6600 System User Guide	Provides information for the TripleTOF 6600 system: safety and system information, hardware profiles, projects, instrument tuning and calibrating, basic acquisition methods, batches, analyzing and processing data, information about DuoSpray™ ion source, generic parameters, calibration ions and solutions, and cleaning and maintaining the TripleTOF 6600 system. Also, provides information about regulatory compliance, instrument safety, and safety requirements for the laboratory.
SelexION Technology User Guide	Provides information about the SelexION technology supported in the Analyst software for separation of compounds.
Qualified Maintenance Procedures for TripleTOF 6600, TripleTOF 5600/5600+, and TripleTOF 4600 systems	Provides procedures for cleaning and maintaining the mass spectrometers. Note: Only trained operators should perform any cleaning or maintenance procedure.
CDS Operator Guide	Provides procedures for installing and using the CDS (calibrant delivery system).
Site Planning Guides	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.

Revision Log

Revision	Description	Date
A	First release of document.	Aug 2014

