DAC Software Suite Installation Guide

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Installing the DAC Software Suite

MINIMUM SYSTEM REQUIREMENTS

- Windows® XP with Service Pack 2 or Windows® Vista
- USB 2.0
- 128MB RAM
- 50MB of free hard disk space

PREREQUISITES

The following items are required before the DAC Software Suite can be installed. If they are not present on your system before the DAC Software Suite Setup is run, setup will install them automatically:

- Microsoft Windows Installer 3.1 or later
- Microsoft .NET Framework version 3.5 or later
- National Instruments VISA Runtime Version 4.3 or later
- National Instruments LabVIEW Runtime Version 7.1.1 (later versions are <u>not</u> compatible)

UPGRADING FROM A PREVIOUS VERSION

Any previous versions of the DAC Software Suite do not need to be un-installed before installing a new version. The new installer will find the existing installation and upgrade it automatically.

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STARTING THE SETUP PROCESS

 The Setup program will have an icon similar to the one pictured to the left (if downloaded from the internet). Run this file to begin the setup process. For installation from a CD, click the indicated link. After a small delay, the screen below will be displayed:

Press Next to continue to the License Agreement:
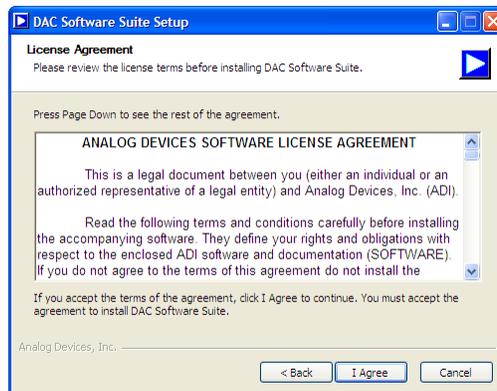
Carefully read through the Analog Devices Software License Agreement. If you agree to the terms of the agreement, press "I Agree". If you do not agree, you will not be able to install the DAC Software Suite.
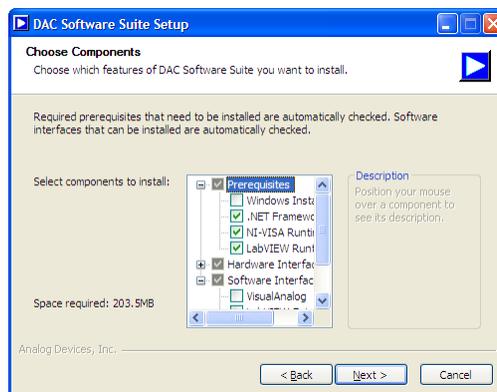
The Choose Components page allows you to select which components of the DAC Software Suite you would like to install. The installer will automatically select the best option for your system. The prerequisites will only be selected if the installer determines they are not present on your system. The various software interfaces will only be selected if the corresponding software package is already installed.

 Warning: If you have another vendor's VISA libraries installed (for example, the Agilent IO Libraries), you should not install the NI-VISA runtime from within the DAC Software Suite Setup. NI-VISA will need to be manually installed according to both National Instruments' and your 3rd party VISA library's instructions, before installing the DAC Software Suite. For more information on NI-VISA, see http://www.ni.com/visa

Press Next to move on to the Choose Install Location page:
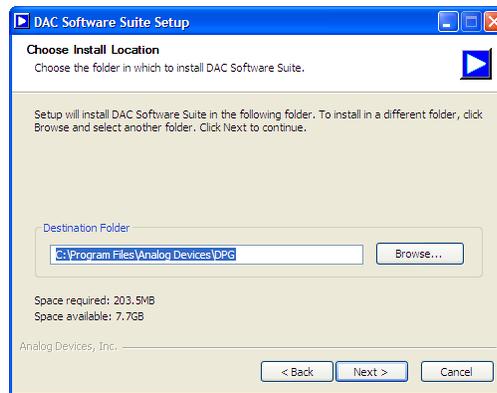
For most users, the default install location of C:\Program Files\Analog Devices\DPG\ should be used. Some software interfaces may not function properly if the default directory is changed.

Click Next to move to the Choose Start Menu Folder page:
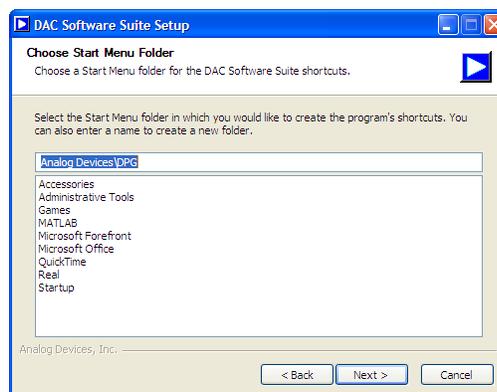
This screen allows you to change the location where shortcuts to various parts of the DAC Suite will be installed.

Press Next to begin the installation.
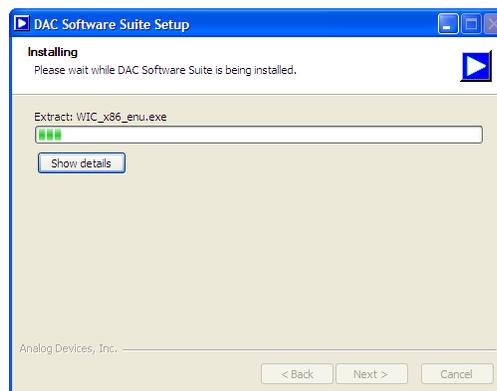
During the installation, a progress bar will be displayed, with various status messages appearing above it. Depending on what prerequisites need to be installed, the process may take up to an hour.

.NET Framework Installation

If the .NET Framework is installed during the DAC Software Suite installation, the following screen will appear for several minutes while the .NET Framework is installed:
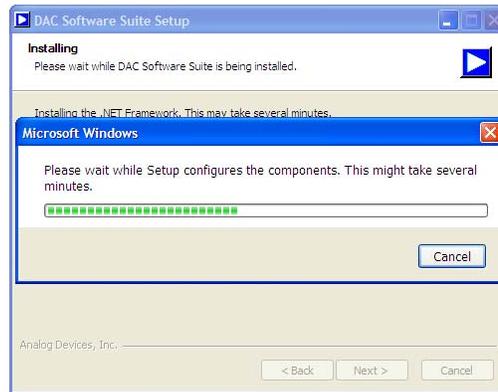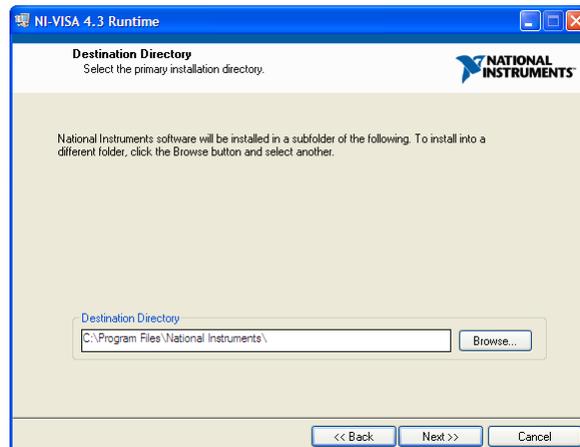

The window will close automatically when the .NET Framework has been installed, and the DAC Software Suite setup with resume.
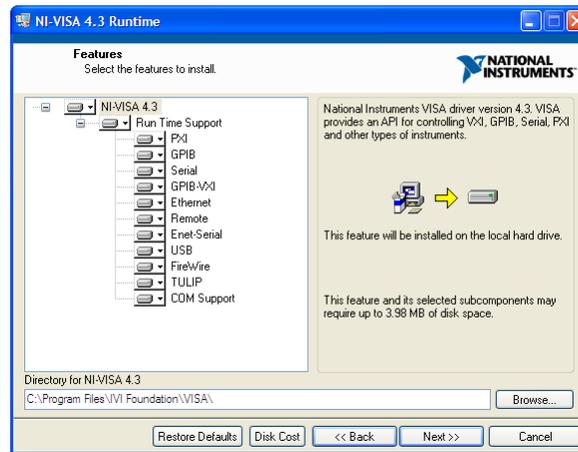

NI-VISA Installation

If the National Instruments VISA library is installed during the DAC Software Suite installation, the NI-VISA installer will be run automatically.
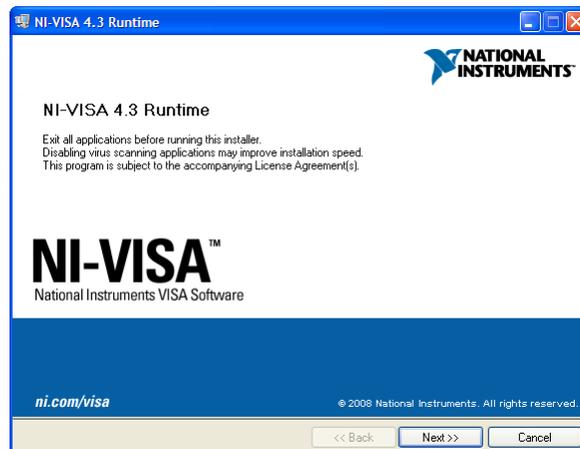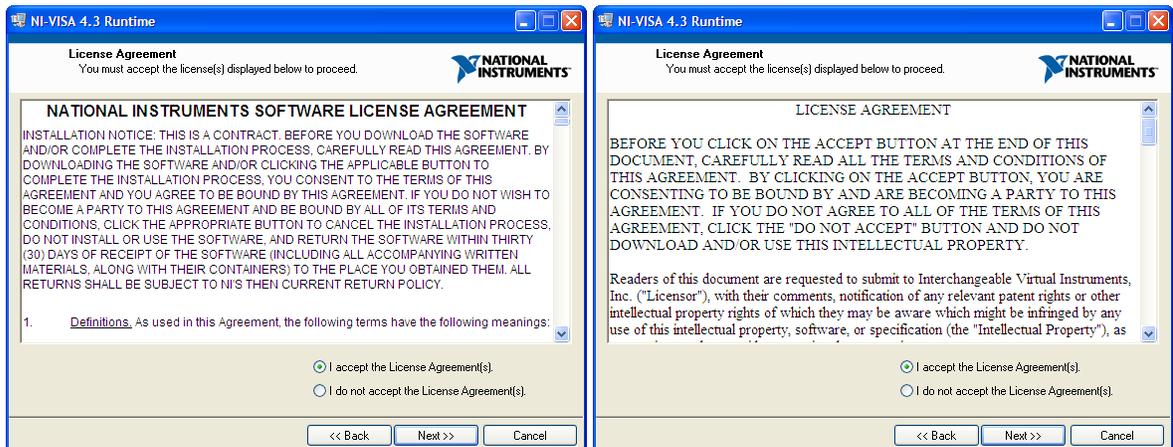

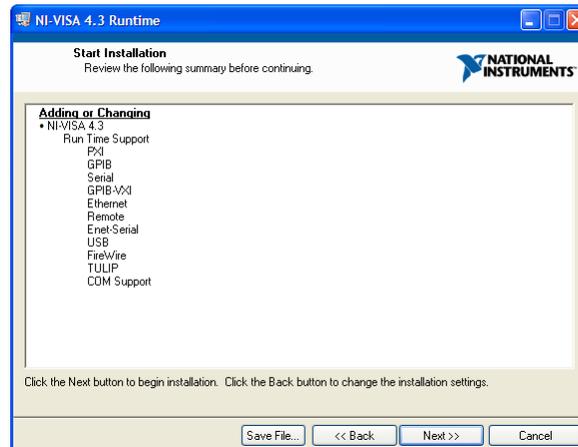Click Next to begin the NI-VISA installation.

Most users will keep the default installation directory, though this is not a requirement. Click Next to continue.
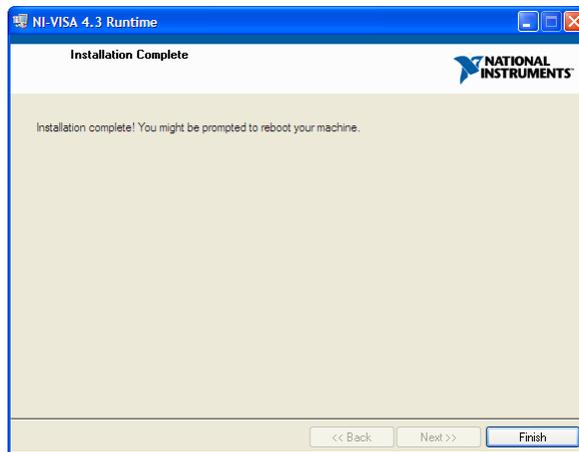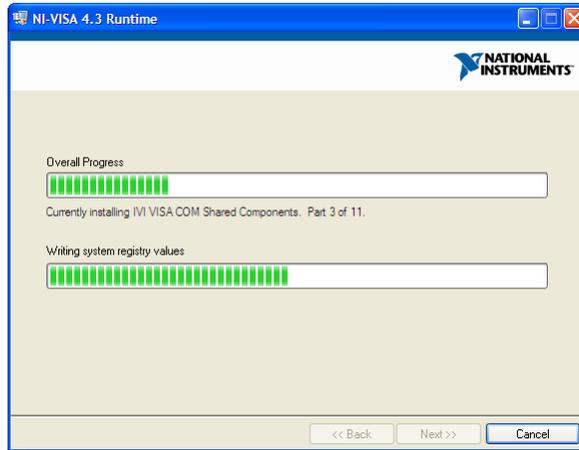
Only the USB Run Time Support is required for DPG operation, though most users will install the entire NI-VISA suite. Click Next to continue.

You will need to agree to both license agreements in order for the NI-VISA installation to continue.

Click Next to begin the installation.

Once the NI-VISA installation is complete, click Finish. You will not need to reboot your PC at this time. The DAC Software Suite setup will resume.

LabVIEW Runtime 7.1.1 Installation

The National Instruments LabVIEW Run-Time Engine setup will run automatically, and will not require any interaction. The DAC Software Suite setup will resume immediately after the LabVIEW Run-Time setup is complete.
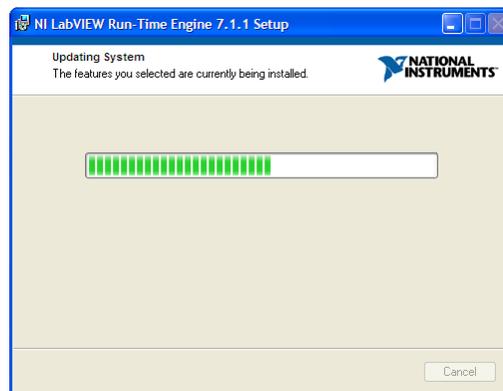
USB Driver Pre-Installation
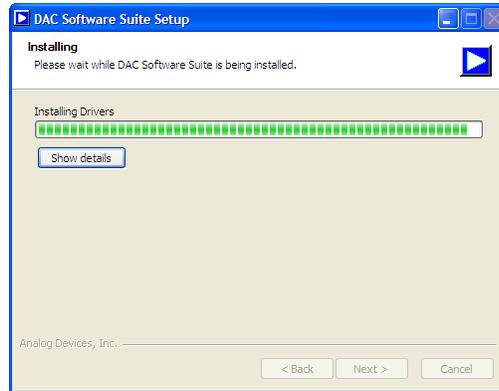
The USB drivers required for both the DPG and Evaluation Boards are pre-installed to make connecting the device for the first time easier. You may receive several warnings from Windows about unsigned drivers during this step. To ensure proper diver installation, please allow the driver installation when prompted.

Evaluation Board Software Installation

Once the main installation has finished, press Next.
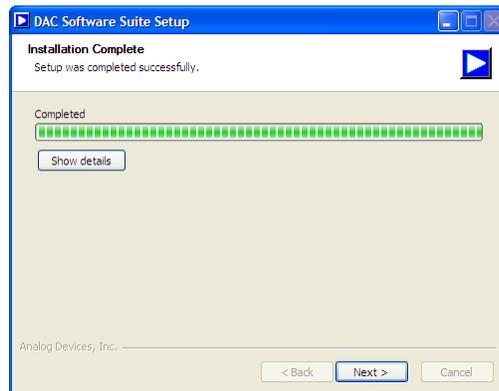
The list of available Evaluation Board modules is displayed next. Select which Evaluation Boards you would like to use.
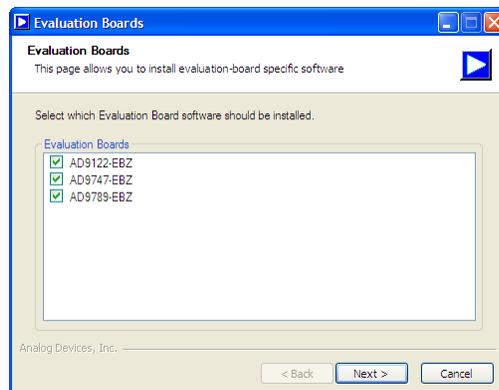
After clicking Next, each evaluation board module will be installed. Depending on the number of modules that are being installed, the process may take several minutes. Your screen may flash between several different installers during this process. No interaction is required until installation is complete (see below).

The Installation Complete page confirms that the DAC Software Suite was successfully installed. Click Finish to exit the installer. If you are prompted to reboot your computer, you must do so before running any DPG components.
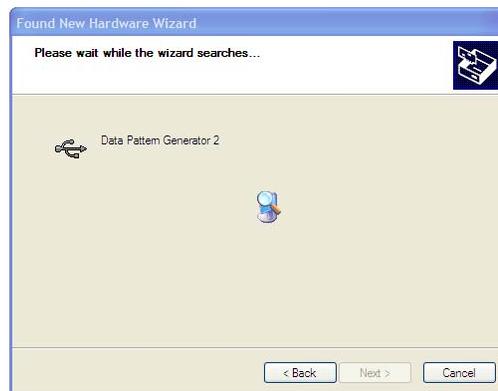

HARDWARE INSTALLATION (WINDOWS XP)

In order to communicate with the DPG2 or an evaluation board over USB, several drivers will be installed during the setup process.

The first time you connect a DPG/evaluation board to your system that has never been connected to your system before, the Found New Hardware wizard will open automatically.

Leave the default selection of "Install the software automatically" and click Next. Windows® will search for the appropriate drivers to use (which were installed during the DAC Software Suite setup).

Once the correct drivers are located, the completed page will be displayed. The DPG is now ready to be used on your system.
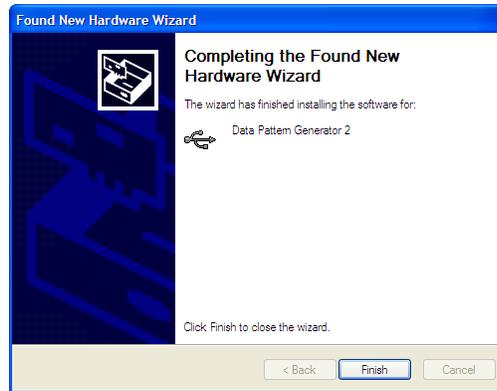
HARDWARE INSTALLATION (WINDOWS VISTA)

In Windows Vista, the required drivers are installed during the setup process, and associated with the correct hardware. No user interaction is required. Windows will automatically install the correct driver the first time a new device is connected.

FOR MORE INFORMATION

Complete documentation is provided for the DAC Software Suite. In certain applications, such as DPGDownloader and LabVIEW, documentation specific to the application is available directly from the Help menu within the application. For all other topics, and for general DPG information, the complete suite documentation is installed. To access it, click on the *DAC Suite Help* shortcut in your start menu. It will be located in the same folder as the DPGDownloader shortcut, typically in Start > Programs > Analog Devices > DPG.