

Chapter 2: Platform Details

Windows Vista

Generally speaking, you need Administrator privileges to install any software on Microsoft Vista and you should install software from an Administrator account. Limited user accounts do not usually have the permissions required to access system areas that the installer may need to modify. Windows Vista and Server 2008 have the built-in ability to automatically reduce the potential of security breaches in the system by automatically enabling a feature called User Account Control (UAC). Administrative options for Vista include:

- UAC turned off and install as full administrator (preferred method)
- UAC turned off and install as non-administrative user
- UAC turned on and install with full administrative privileges (using **Run as Administrator** from the context menu)
- UAC turned on and not install with full administrative privileges (you did not select **Run as Administrator** from the context menu)
- UAC turned on and install as non-administrative user (not supported)

If you are running with UAC on, even if you have administrative privileges, you will have limited account control unless you specifically choose **Run as Administrator**. Running with UAC *off* is the preferred method for installing ANSYS, Inc. products. If you are installing as a non-administrative user, you must turn off UAC. You must be an administrative user in order to disable UAC for non-administrative users. To turn UAC off while you install ANSYS, Inc. products:

1. Open Control Panel and select **Administrative Tools> System Config.**
2. Continue through User Account Controls prompt.
3. Select **Tools**. Scroll down and select **Disable UAC**.
4. Click **Launch**.
5. Reboot your computer.

Once you have installed your applications, you can enable UAC again.

If you cannot disable UAC and need to install with UAC on, you should run all applications, including the installation setup, as an administrator. Otherwise, the files may be written to `AppData\Local\VirtualStore\<path>` rather than directly to `<path>`, if `<path>` is a protected directory (such as `C:\Program Files`). As a result, some applications and utilities may behave unpredictably. If you cannot disable UAC, you should:

- Always run **ANSLIC_ADMIN** and any other ANSYS, Inc. application by selecting the utility or application from the Start menu and right-mouse clicking and selecting **Run as Administrator**.
- Set your Start menu shortcuts to always run as administrator with the following procedure (or similar):
 1. Right-click the shortcut you wish to modify and select **Properties**.
 2. Click **Advanced** on the **Shortcut** tab.
 3. Select **Run as administrator** and click **OK**.
 4. Click **OK**.

Refer to your Microsoft Vista documentation or visit www.microsoft.com for more instructions on setting **Run as Administrator** at various levels within the operating system.

When installing ANSYS, Inc. products, including the license manager, on Windows Vista machines, you need to be aware of several factors involving User Access Control (UAC):

1. When you install the license manager, you should install using the same permissions as you used to install the product.

If you install both the product and the license manager as an administrator with UAC turned off (the preferred method), product and licensing installation and configuration will proceed as normal.

If you install the product as a non-administrative user with UAC turned off, you will see some expected restrictions (i.e., you will need to run some additional post-installation product configuration steps, etc.). Likewise, if you run as a non-administrative user with UAC turned off, you will also see expected restrictions (i.e., you will not be able to start and stop the license manager.)

If you install as an administrative user with UAC turned on, you may encounter unpredictable behavior with both the product and license manager installations and

subsequent behavior. As an administrator, you can choose to install and run applications with full administrative privileges (right-click and select **Run as Administrator** from the context menu) to avoid any unpredictable situations. However, we strongly recommend against running with UAC on and not selecting **Run as Administrator**. These situations are described below.

- 2. If you have UAC turned on and you do not install (and run) with full administrative privileges (you do not select **Run as Administrator** from the context menu), be aware that files may be written to and read from the %localappdata%\VirtualStore\ location (in the case of licensing, to %localappdata%\VirtualStore\Program Files\Ansys Inc\Shared Files\Licensing) instead of to the <os drive>. In this situation, **ANSLIC_ADMIN** settings, such as **Specify the License Server**, will indicate that files are being written to and read from <os drive>\Program Files\Ansys Inc\Shared Files\Licensing. Log files may behave in the same way. However, when you view the ansyslmd.ini file located in <os drive>\Program Files\Ansys Inc\Shared Files\Licensing, you will not see the **ANSLIC_ADMIN** settings you specified.
- 3. To ensure that files are correctly written to and read from <os drive>\Program Files\Ansys Inc\Shared Files\Licensing, you should either turn UAC off (preferred), or if UAC is turned on, always run with full administrative privileges (**Run as Administrator** from the context menu).
- 4. If you are not running with full administrative privileges (that is, if you are not running as administrator with UAC turned off, or administrator with UAC turned on and **Run as Administrator** selected), you will not be able to use those **ANSLIC_ADMIN** options that require administrative privileges, such as starting and stopping the license manager.

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Compiler Requirements for Windows Systems

Table 2.1 Compiler Requirements

ANSYS/Workbench	CFX Compilers*	FLUENT	AUTODYN
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and its subsidiaries and affiliates

Compilers*		Compilers*	Compilers*
Intel EM64T, AMD64 / Windows XP x64 Edition Version 2003 Intel EM64T, AMD64/Windows Vista x64			
Intel Fortran v10.1 Microsoft Visual Studio 2005 Professional Edition	Intel Fortran v10.1 Microsoft Visual Studio 2005 Professional SP1	Microsoft Visual Studio 2005 Standard Microsoft Visual Studio 2008 Standard	N/A
Intel IA-32 bit / Windows XP (Build 2600) Version 5.1 Intel IA-32 bit / Windows Vista			
Intel Fortran v10.1 Microsoft Visual Studio 2005 Professional Edition	Intel Fortran v10.1 Microsoft Visual Studio 2005 Professional SP1	Microsoft Visual Studio 2005 Standard Microsoft Visual Studio 2008 Standard [1]	Intel Fortran v10.1 MS Visual C++.NET 2005

* Compilers are required only if you will be using User Programmable Features or other customization options.

1. You can also use Microsoft Visual Studio 2005/2008 Express, but the SDK is required for 64-bit versions. Please see the FAQ at http://www.fluentusers.com/support/installation/winfaq/udf_serial.htm for more information. The SDK is not officially supported. If you experience difficulties after installing the SDK, please contact your system administrator.
If you are running FLUENT parallel, see http://www.fluentusers.com/support/installation/winfaq/udf_par.htm for more information.

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