



Distributing Your Finished Windows Game

XNA Game Studio 4.0

Presents information about how to share your game with any Windows user, even if the user does not have XNA Game Studio installed.

Quick Information

Platform	Source code visible	Format	Windows user requirements
Windows	No	Setup.exe and manifest, or .zip or other compressed format.	<ul style="list-style-type: none">• Must be running, at minimum, Windows XP Service Pack 2.• Must have a video card that supports, at minimum, Shader Model 1.1.

Important

Games for Windows - LIVE is unavailable to finished games. This functionality is not included in the redistributable version of the XNA Framework. A game that attempts to use these components without XNA Game Studio installed will result in a [GamerServicesNotAvailableException](#).

Also, the XNA Framework Redistributable file does not contain the [Content Pipeline Build Runtime](#). Building content at run time is supported only when XNA Game Studio has been installed on the Windows-based development computer.

If you would like to share your XNA Game Studio game with other Windows users, but do not want to share your source code and assets, you can create an installable package that contains your game binaries and the necessary redistributable files.

The ClickOnce publishing feature of Visual Studio provides a convenient way to produce a portable installation package for distribution on a CD, Web site, or other media.

Sharing with Another Windows User

You may package XNA Game Studio game projects for use without XNA Game Studio installed only for the Windows platform.

You can use one of the following methods to create a portable install package:

Using ClickOnce Deployment

You can use the [ClickOnce](#) feature of Visual Studio to build and create an installation package for your XNA Game Studio game. This method automatically ensures that all required supporting files are included in your installation package.

Using Another Installation Package Tool

You can use an installation package tool of your choice. With this method, you must take more care to include all of the required supporting files for an XNA Game Studio game.

Using ClickOnce Deployment

ClickOnce is a deployment technology that allows you to create self-updating Windows-based applications that can be installed and run with minimal user interaction.

To build a ClickOnce installation package

1. In **Solution Explorer**, select the game project for the Windows platform to which you want to deploy.
2. On the **Build** menu, click **Publish**.

The Publish Wizard appears.
3. On the **Where do you want to publish the application?** page, enter the path or FTP location where the application will be deployed.

The default location is a folder named "publish" below the project's folder.
4. Click **Next** to continue.
5. On the **How will users install the application?** page, select the **From a CD-ROM or DVD-ROM** option (the default) if that is your choice, and then click **Next** to continue.
6. On the **Where will the application check for updates?** page, select an update option:
 - If the application checks for updates, click **The application will check for updates from the following location**, and enter the location where updates will be posted. This can be a file location, website, or FTP Server.
 - If the application will not check for updates, click **The application will not check for updates**.
 - Click **Next** to continue.
7. Click **Finish** to deploy the application.

Visual Studio builds your XNA Game Studio game project and, if successful, deploys your application to the location specified in step 3. A Windows Explorer window then opens to show the Setup.exe file produced and the manifest.

The ClickOnce feature for XNA Game Studio automatically includes all of the required software packages as part of the installation package.

An alternate method of initiating ClickOnce is through the **Publish** properties of the Project Designer. These properties can be accessed by double-clicking the **Properties** item in **Solution Explorer** or by clicking **[project name] Properties** on the **Project** menu, and then clicking the **Publish** tab. This tab provides the facility to set several more options, including the version number of the deployed application.

If you wish to distribute your game on a CD, use a CD-Rewriter or DVD-Rewriter to copy the files from the specified location to a CD-ROM or DVD-ROM.

Special Considerations for Game Data Files

Your game may require the use of a data file to read and store information. For example, the starter kit provided with XNA Game Studio uses an XML file to read and store game settings. Other games may use a text file or other format.

The default behavior of the ClickOnce publishing wizard assigns any XML, text, or other data files in a project to "Data File" as its Publish Status. However, this status is for files containing data used by the installer package, not for files accessible to your game when it executes. Files assigned to this type will be placed in the path denoted in the .NET Framework's ApplicationDeployment.DataDirectory property.

This is likely to be inconvenient, as the file will be inaccessible to your game through conventional storage APIs. The recommended actions to correct this are as follows:

1. Ensure the **Build Action** property of the data file is set to "Content." This specifies that the data file is to be included in the install package.
2. Reassign the Publish Status to "Include."

The **Build Type** setting may be changed through the file's property window.

The Publish Status is changed through the **Application Files** dialog box of the **Publish** properties

section of Project Designer.

To change the publish status

1. In **Solution Explorer**, double-click the **Properties** item of your project.
2. Navigate to the **Publish** tab in Project Designer.
3. Click the **Application Files** button.
4. Select the drop-down box in the **Publish Status** column of the dialog box to change the setting.
5. Click **OK**.

Using Another Installation Package Tool

To use an installation package tool other than ClickOnce, you will need to build your game binaries and include the required software packages.

To compile your game binaries for distribution with another installation package tool

1. In XNA Game Studio, open the project you want to package.
2. On the **Build** menu, click **Build Solution**.

This creates the necessary files needed to run your game on other computers.
3. Using an installation package tool of your choice, package all files located in the appropriate output directory of your project.

Required Software Packages

In addition to the requirements listed in the previous table, there are additional software prerequisites that must be installed on a player's machine if the computer does not have XNA Game Studio installed.

The following software packages must be installed on the player's computer in order for your game to run.

- The [.NET Framework 4.0 Redistributable](#).
- The [XNA Framework Redistributable 4.0](#).

Tip

You can verify that your game was built with the XNA Framework 4.0 by loading your project in XNA Game Studio, and then by clicking the project node in Solution Explorer. The **XNA Framework Version** property is visible in the property pane.

To determine whether the player already has the redistributable installed, use the Windows Installer function [MsiQueryProductState](#) with the product code for the version of the redistributable that you want to verify. The following table lists the product code for the XNA Framework Redistributable 4.0.

Redistributable version corresponding to	Product code
XNA Game Studio 4.0	2BFC7AA0-544C-4E3A-8796-67F3BE655BE9

An alternative to checking the product code for the version of the XNA Framework Redistributable for XNA Game Studio 4.0 is to check the registry for the following value:

```
[HKEY_LOCAL_MACHINE\Software\Microsoft\XNA\Framework\v4.0]  
Installed=1
```

- The following files from the [DirectX 9.0c](#) Redistributable.
 - Mar2009_d3dx9_41_x86.cab
 - APR2007_d3dx9_33_x86.cab
 - APR2007_xinput_x86.cab
 - Feb2010_xact_x86.cab
 - Feb2010_XAudio_x86.cab
 - Feb2010_X3DAudio_x86.cab
 - DSETUP.dll
 - dsetup32.dll
 - DXSETUP.exe
 - dxupdate.cab

These files are installed automatically as part of the XNA Framework Redistributable install package for XNA Game Studio 4.0. You do not need to perform a separate install step when you create games with this version of XNA Game Studio.

See Also

[Sharing Your Source Code and Assets](#)
[Sharing Your Game Package](#)

Community Content

© 2011 Microsoft. All rights reserved.