

3DM Export for Pro/ENGINEER Help

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3DM Export for Pro/ENGINEER Help

Welcome to *3DM Export for Pro/ENGINEER* Help!

This help file provides all the information you need to understand and use *3DM Export for Pro/ENGINEER*. Click the links below or use the Contents tab on the left to browse help topics. You can also scroll the topics on the above right hand pane.

The *3DM Export for Pro/ENGINEER* help file is divided into the following sections:

- [Introduction](#) - Introduction to *3DM Export for Pro/ENGINEER*.
- [Command Reference](#) - Quick reference of all the commands added by *3DM Export for Pro/ENGINEER*.
- [Tutorial](#) - Tutorial to get you started in the shortest possible time.

If you need any additional information please [contact](#) SYCODE.

Note:

- If you have trouble loading the *3DM Export for Pro/ENGINEER* plug-in file into the Pro/ENGINEER Wildfire environment, please refer to the [ReadMe](#) file.
- Please read the [License Agreement](#) before using the software.

Introduction

3DM Export for Pro/ENGINEER is a Rhinoceros/OpenNURBS file export plug-in for Pro/ENGINEER Wildfire. This plug-in gives Pro/ENGINEER Wildfire the ability to export 3D solid and surface data from a Pro/ENGINEER Wildfire part and assembly geometry to meshes in a 3DM file.

3DM Export for Pro/ENGINEER tessellates solid bodies in a Pro/ENGINEER Wildfire document into a set of triangular meshes. These meshes are then exported to a 3DM file as mesh objects. The 3DM file can then be imported into a variety of CAD applications.

3DM Export for Pro/ENGINEER is very easy to use as it adds new commands to Pro/ENGINEER. It also adds a submenu to the Pro/ENGINEER Wildfire menu called "3DExport".

3DM Export for Pro/ENGINEER comes with a detailed documentation as well as a [tutorial](#) to get you started in the shortest possible time.

If you need any additional information please [contact](#) SYCODE.

The 3DM File Format

The 3DM (3D Model) file format is the native file format of Rhinoceros, the NURBS modeling software from Robert McNeel & Associates. The OpenNURBS Initiative was founded by Robert McNeel & Associates in January 2000, with the sole purpose of providing CAD, CAM, CAE and computer graphics software users reliable methods for transferring 3D geometry between applications via the 3DM file format. TerrainCAD, our terrain generation, editing and modeling software, also uses the 3DM file format as its native file format.

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ReadMe

This is the *3DM Export for Pro/ENGINEER* ReadMe file.

3DM Export for Pro/ENGINEER is a plug-in for Pro/ENGINEER Wildfire

Installation:

=====

3DM Export for Pro/ENGINEER is a Pro/TOOLKIT application and needs to be registered with Pro/ENGINEER Wildfire before it can be used. Once you register the plug-in with Pro/ENGINEER Wildfire, it will be automatically loaded every time you start Pro/ENGINEER Wildfire. Before you register 3DM Export for Pro/ENGINEER it is important that you note down the folder where the plug-in was installed. The default installation location is "C:\Program Files\SYCODE\3DM Export for Pro ENGINEER".

Plug-in Registration:

=====

1) The plug-in installer copies a file called protk.dat into the installation folder. Open it in NotePad and observe the lines starting with "exec_file" and "text_dir".

2) The line starting with "exec_file" is the full path of the plug-in DLL. You need to choose the correct plug-in DLL depending upon your version of Pro/ENGINEER Wildfire. Modify the file path to match your plug-in installation folder and replace XXX in the file name as explained below:

For Pro/ENGINEER Wildfire 1.0 and 2.0, replace "XXX" with "3DMExport_VC60.dll"

For Pro/ENGINEER Wildfire 3.0, replace "XXX" with "3DMExport_VC71.dll"

For Pro/ENGINEER Wildfire 4.0 and 5.0 (32 Bit), replace "XXX" with "3DMExport_VC80.dll"

For Pro/ENGINEER Wildfire 4.0 and 5.0 (64 Bit), replace "XXX" with "3DMExport_VC80x64.dll"

For example, if you have installed 3DM Export for Pro/ENGINEER in the default location and you are using Pro/ENGINEER Wildfire 4.0 (64 bit) the line will be as follows: exec_file C:\Program Files\SYCODE\3DM Export for Pro ENGINEER\3DMExport_VC80x64.dll

IMPORTANT: This is a critical step. The plug-in will not load into Pro/ENGINEER Wildfire if this step is not carried out properly. To better understand this step you may want to browse to the installation folder (typically C:\Program Files\SYCODE\3DM Export for Pro ENGINEER) and take a look at the file names of the plug-in DLL's copied into it.

3) The line starting with "text_dir" tells Pro/ENGINEER Wildfire where to look for supporting files required by the plug-in. Modify the folder path to match your plug-in installation folder.

4) Save protk.dat and exit NotePad.

5) When Pro/ENGINEER Wildfire starts it looks for a file called protk.dat and loads the plug-ins listed in it. Pro/ENGINEER Wildfire looks for protk.dat in a folder called "text" located in the Pro/ENGINEER Wildfire installation folder. For example, in the case of Pro/ENGINEER Wildfire 4.0, the "text" folder may be "C:\Program Files\proeWildfire 4.0\text". Copy the protk.dat that you just edited to the Pro/ENGINEER Wildfire "text" folder.

IMPORTANT: If there is already a file called protk.dat in the "text" folder, it means that you already have registered other plug-ins. Do not overwrite it. Instead, append the contents of the protk.dat file you just edited to the contents of the existing protk.dat file in the "text" folder.

Now 3DM Export for Pro/ENGINEER is ready for use.

Usage:

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3DM Export for Pro/ENGINEER adds new commands to Pro/ENGINEER Wildfire. It also adds a submenu to the Pro/ENGINEER Wildfire menu called "3DMExport" containing these new commands. Simply click on the menu items in this sub menu to run these new commands.

The new commands are:

- 1) Export - Exports a 3DM file
- 2) Help - Display the 3DM Export for Pro/ENGINEER help file
- 3) Register - Display the 3DM Export for Pro/ENGINEER product registration dialog box
- 4) About - Display the 3DM Export for Pro/ENGINEER about box

Support:

=====

For support, please E-Mail support@sycode.com

Contact

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E-Mail	info@sycode.com
Web Site	http://www.sycode.com

Command Reference

3DM Export for Pro/ENGINEER adds a new menu to Pro/ENGINEER Wildfire. The '3DMExport' submenu consists of the following commands:

Export	Exports to a 3DM file
Help	Displays the <i>3DM Export for Pro/ENGINEER</i> help file
Register	Registers your copy of <i>3DM Export for Pro/ENGINEER</i>
About	Displays the <i>3DM Export for Pro/ENGINEER</i> about box

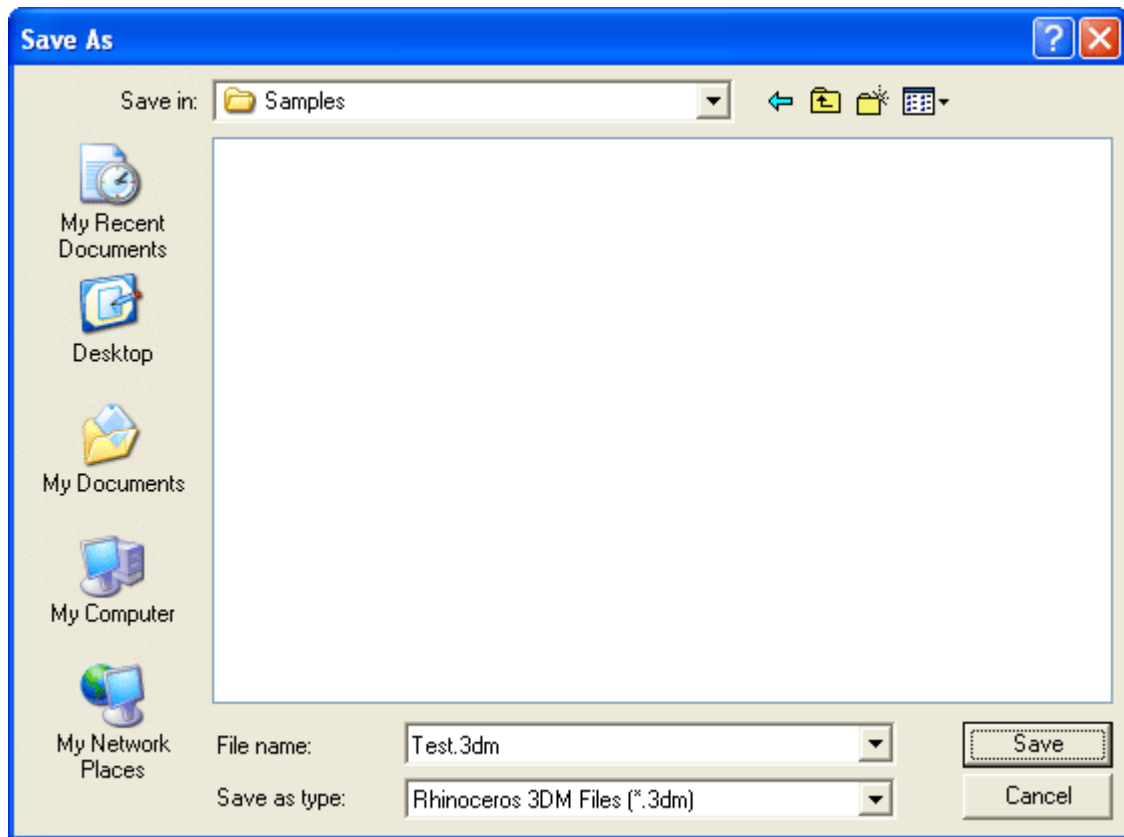
Export

Menu Button 3DMExport > Export

This command tessellates the active Pro/ENGINEER Wildfire's part or assembly and exports the resulting meshes to mesh objects in a 3DM file.

To export to a 3DM file

1. Select *Export* from the "3DMExport" submenu.
2. The Pro/ENGINEER Wildfire "Save As" dialog box is displayed. Enter the name of a 3DM file and click *Save*.



3. The "3DM Export for Pro/ENGINEER Options" dialog box is displayed. Set the options and click *Ok*.

Help

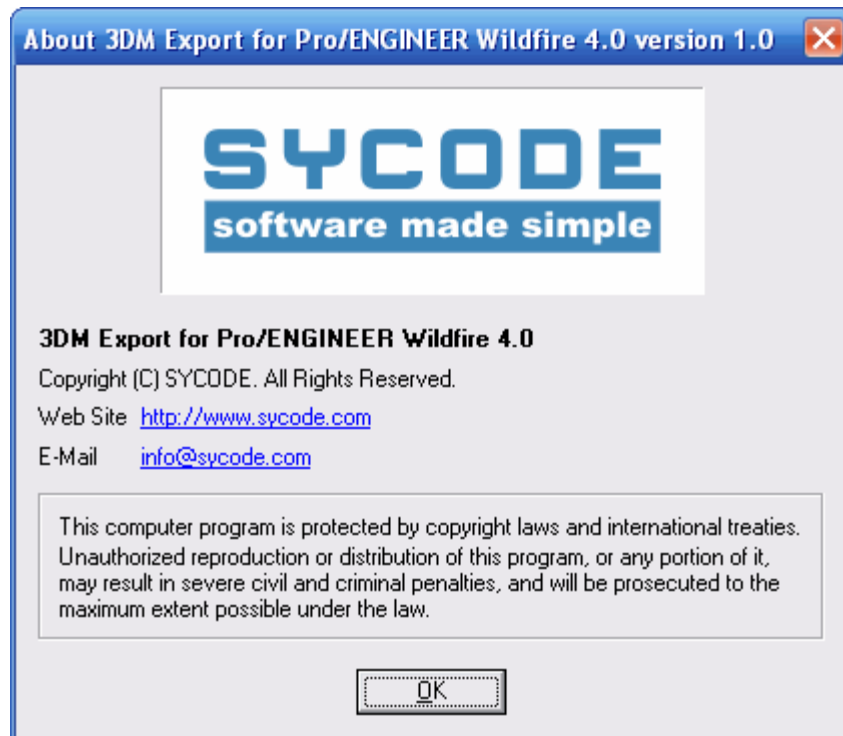
Menu Button 3DMEport > Help

This command is used to display the help file. The [Welcome](#) page is a good place to start.

About

Menu Button 3DMExport > About

This command is used to display the *3DM Export for Pro/ENGINEER* About box. The About box lists the product and its version.



Register

Menu Button 3DExport > Register

This command is used to register your copy of *3DM Export for Pro/ENGINEER*.

You need a license key to start using the software. A license key can be of two types: Trial or Permanent. A trial key is issued to you instantly and completely free of cost so that you may try the software before you purchase a license. A permanent key is issued after you have purchased a license.

The screenshot shows a dialog box titled "SYCODE License Server". It contains the following fields and buttons:

- Product Name:** 3DM Export for Pro/ENGINEER Wildfire 4.0 (with a "Buy Online" button)
- Host ID:** 00-1D-7D-FD-AD-1D (with a "Request Key" button)
- License Key:** jSAn0D100C01p6c0F044D040AAq2y308M Fh707Gc1A57Q0D40A0ID71A0P93C160A1 4T5E75785U0BDtC1d07Bh50ijD8AvRcC3 (with an "Update Key" button)
- A button labeled "How do I get a license key?"
- A section titled "=== LICENSE KEY PARAMETERS ===" showing:
 - Key type: Trial
 - Expires: 25-Jul-2009
 - Runs remaining: 10
- A "Close" button at the bottom.

How do I get a Trial Key?

Simply click the 'Request Key' button and select 'TRIAL KEY' as the type of key being requested. Fill the form and submit it. A trial key will be immediately sent to you by email.

How do I get a Permanent Key?

To get a permanent key you need to have already purchased a license. If you have not yet purchased a license you can do so by clicking the 'Buy Online' button. After you place your order click the 'Request Key' button and select 'PERMANENT KEY' as the type of key being requested. Fill the form and submit it. Your order will be verified and a permanent key will be sent to you by email within one business day.

IMPORTANT:

- (1) Please ensure that your computer is connected to the internet before you request for a key.
- (2) Please be sure to enter a valid email address as the key will be sent to you by email.

3DM Export for Pro/ENGINEER Help

(3) To avoid disruption in your work-flow we urge you to place your order before the trial period ends.

If you need anything else please send an email to register@sycode.com

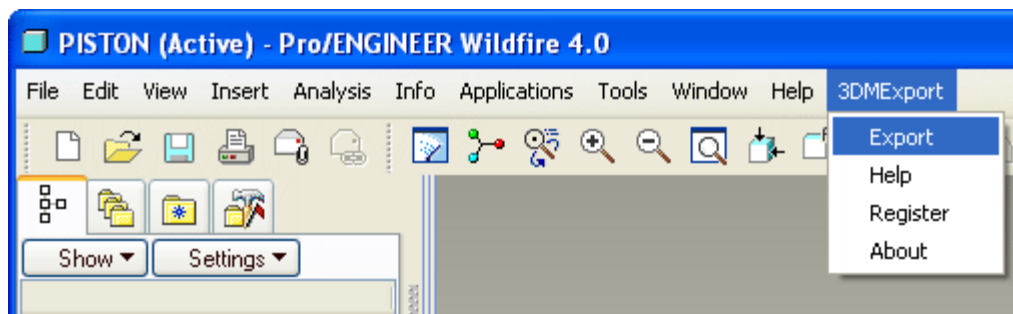
Tutorial

This tutorial provides the necessary information and hands-on experience to help you get started with *3DM Export for Pro/ENGINEER*.

Step 1: Start Pro/ENGINEER Wildfire.

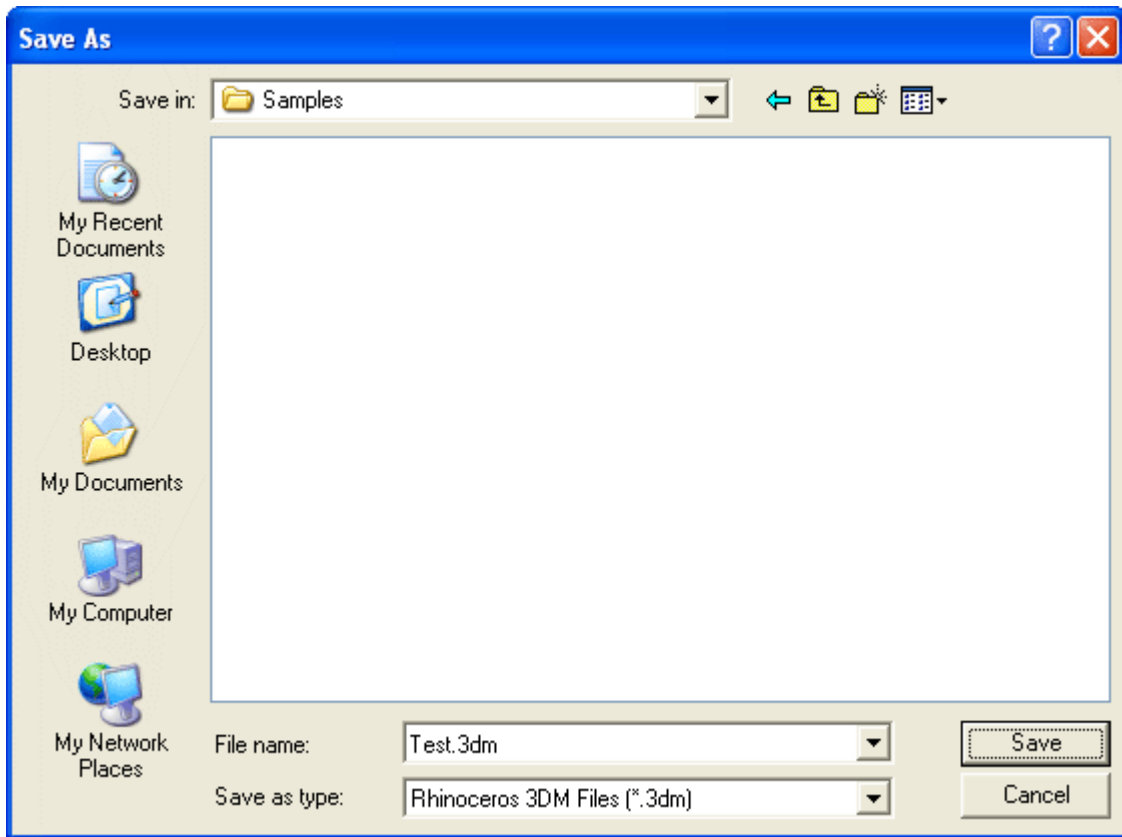
Step 2: Open the file "C:\Program Files\3DM Export for Pro ENGINEER\Samples\Piston.sat" as a part document.

Step 3: Select *Export* from the "3DMExport" menu.

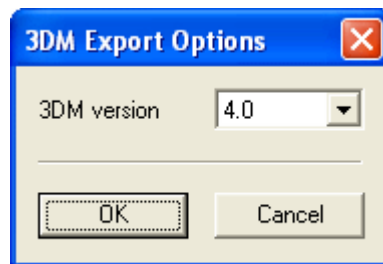


Step 4: The Pro/ENGINEER Wildfire "Save As" dialog box is displayed. Enter the output file name of a 3DM file and click Save.

3DM Export for Pro/ENGINEER Help



Step 5: The "3DM Export for Pro/ENGINEER Options" dialog box is displayed. Select the version of the 3DM file and click *OK*.



The 3DM file will be exported in the location you specified.