

# **DWG Import for Pro/ENGINEER Help**

## Table Of Contents

DWG Import for Pro/ENGINEER Help.....	1
Introduction .....	2
License Agreement .....	3
ReadMe .....	10
Contact.....	12
Command Reference .....	13
Import .....	14
Help.....	15
Register.....	16
About.....	18
Tutorial .....	19

# DWG Import for Pro/ENGINEER Help

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Welcome to *DWG Import for Pro/ENGINEER* Help!

This help file provides all the information you need to understand and use *DWG Import 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 *DWG Import for Pro/ENGINEER* help file is divided into the following sections:

- [Introduction](#) - Introduction to *DWG Import for Pro/ENGINEER*.
- [Command Reference](#) - Quick reference of all the commands added by *DWG Import 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 *DWG Import 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

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*DWG Import for Pro/ENGINEER* is an AutoCAD DWG file import plug-in for Pro/ENGINEER Wildfire. It gives Pro/ENGINEER the ability to import mesh objects from AutoCAD DWG files as solids models in Pro/ENGINEER Wildfire.

Pro/ENGINEER Wildfire already has the ability to read AutoCAD DWG files. However, when importing DWG files into Pro/ENGINEER Wildfire 3D mesh objects are ignored. *DWG Import for Pro/ENGINEER* gives Pro/ENGINEER Wildfire the ability to read 3D mesh objects in an AutoCAD DWG file and import them as solid bodies in a Pro/ENGINEER part document. A polygon mesh in a DWG file is comprised of a set of triangular and quad faces. *DWG Import for Pro/ENGINEER* creates trimmed planar surfaces for each triangle and quad and knits them together to create a solid body. If the polygon mesh is closed (i.e. it does not contain boundary edges) then *DWG Import for Pro/ENGINEER* will create a closed body feature, otherwise an open surface will be created.

*DWG Import for Pro/ENGINEER* is very easy to use. Once installed, it must be loaded into the Pro/ENGINEER Wildfire environment. Follow the simple instructions in the "ReadMe" document which can be found in the installation folder. Once loaded, it adds new commands to Pro/ENGINEER Wildfire and a submenu called "DWGImport" to the Pro/ENGINEER Wildfire menu.

*DWG Import for Pro/ENGINEER* comes with 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 DWG File Format**

DWG is a format used for storing two and three dimensional design data and metadata. It is the native format for the AutoCAD Computer Aided Design package, as well as IntelliCAD (and its variants), and PowerCAD. DWG is supported non-natively by several hundred other software applications.

DWG (denoted by the .dwg filename extension) was the native file format for the Interact CAD package, developed by Mike Riddle in the late 1970s, and subsequently licensed by Autodesk in 1982 as the basis for AutoCAD. From 1982 to 2007, Autodesk created versions of AutoCAD which wrote no less than 18 major variants of the DWG file format, none of which it publicly documented.

The DWG format, has become a de facto standard for CAD drawing interoperability. It has been estimated that there are in excess of two to four billion DWG files in existence.

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## ReadMe

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This is the *DWG Import for Pro-ENGINEER* ReadMe file.

DWG Import for Pro/ENGINEER is a plug-in for Pro/ENGINEER Wildfire.

### Installation:

=====

DWG Import 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 DWG Import 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\DWG Import 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 "DWGImport\_VC60.dll"

For Pro/ENGINEER Wildfire 3.0, replace "XXX" with "DWGImport\_VC71.dll"

For Pro/ENGINEER Wildfire 4.0 and 5.0 (32 Bit), replace "XXX" with "DWGImport\_VC80.dll"

For Pro/ENGINEER Wildfire 4.0 and 5.0 (64 Bit), replace "XXX" with "DWGImport\_VC80x64.dll"

For example, if you have installed DWG Import 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\DWG Import for Pro  
ENGINEER\DWGImport_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\DWG Import 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 "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 DWG Import for Pro/ENGINEER is ready for use.

Usage:

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

The new commands are:

- 1) Import - Imports a DWG file
- 2) Help - Display the DWG Import for Pro/ENGINEER help file
- 3) Register - Display the DWG Import for Pro/ENGINEER product registration dialog box
- 4) About - Display the DWG Import for Pro/ENGINEER about box

Support:

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For support, please E-Mail [support@sycode.com](mailto:support@sycode.com)

## Contact

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Mailing address	S1/116, Nova Cidade Complex, NH 17, Alto Porvorim, Goa - 403521 India
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Fax	+91 832 2416615
E-Mail	<a href="mailto:info@sycode.com">info@sycode.com</a>
Web Site	<a href="http://www.sycode.com">http://www.sycode.com</a>

# Command Reference

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*DWG Import for Pro/ENGINEER* adds a new menu to Pro/ENGINEER Wildfire called 'DWGImport'. The 'DWGImport' menu consists of the following commands:

<a href="#">Import</a>	Imports a DWG file
<a href="#">Help</a>	Displays the <i>DWG Import for Pro/ENGINEER</i> help file
<a href="#">Register</a>	Registers your copy of <i>DWG Import for Pro/ENGINEER</i>
<a href="#">About</a>	Displays the <i>DWG Import for Pro/ENGINEER</i> about box

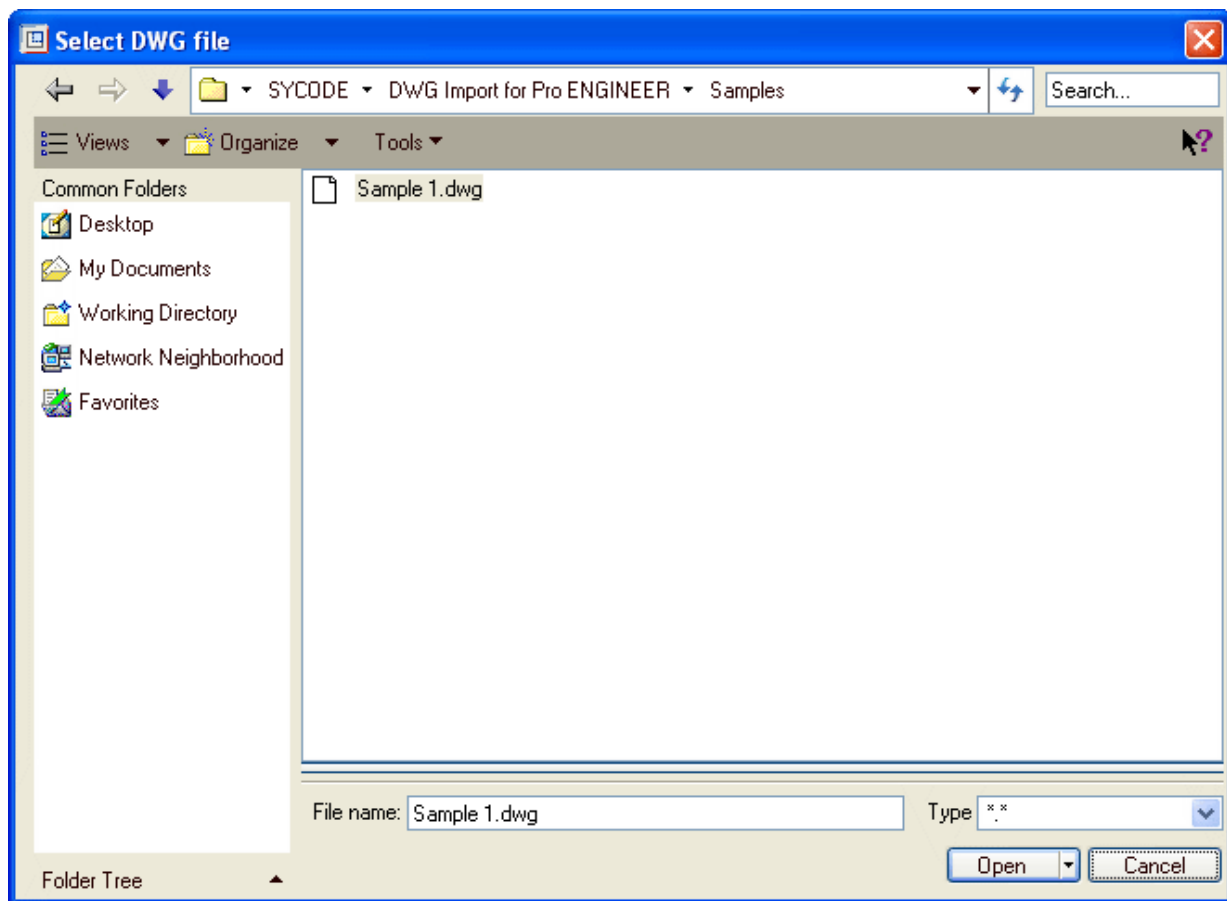
## Import

**Menu Button** DWGImport > Export

This command is used to imports an AutoCAD DWG file

### To import a DWG file

1. Select *Import* from the "DWGImport" menu.
2. The Pro/ENGINEER "Open" dialog box is displayed. Browse for the DWG file you wish to import and click *Open*.



## Help

---

**Menu Button** DWGImport > Help

---

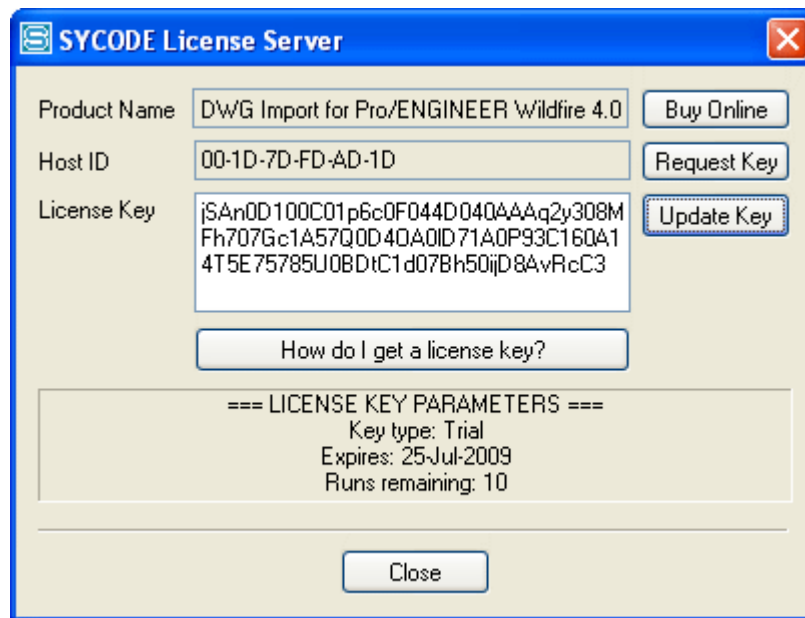
This command displays the help file. The [Welcome](#) page is a good place to start.

## Register

**Menu Button** DWGImport > Register

This command is used to register your copy of *DWG Import 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.



### 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.
- (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](mailto:register@sycode.com)

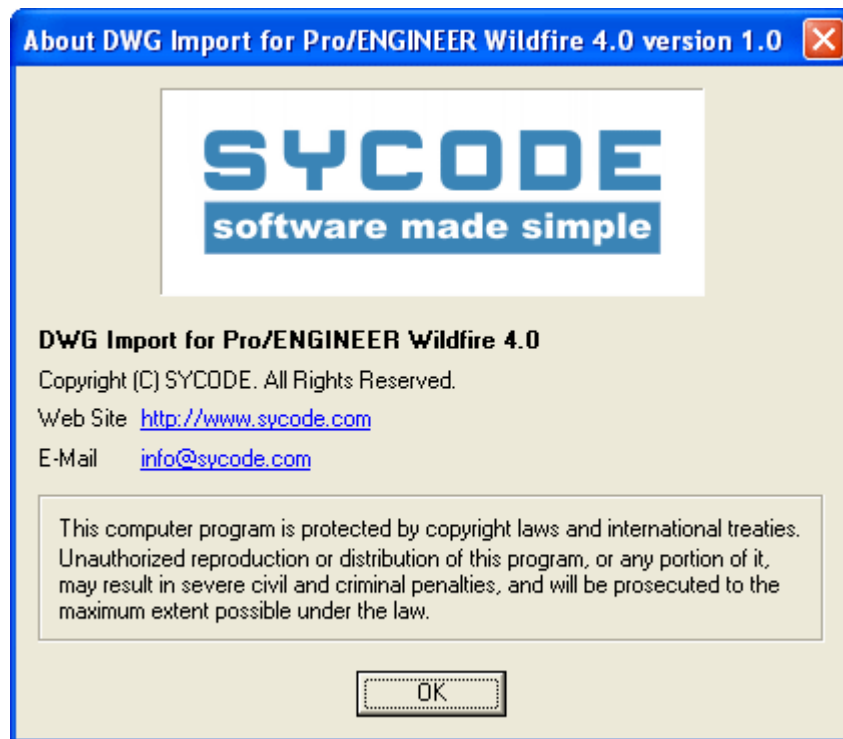
## About

---

**Menu Button** DWGImport > About

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



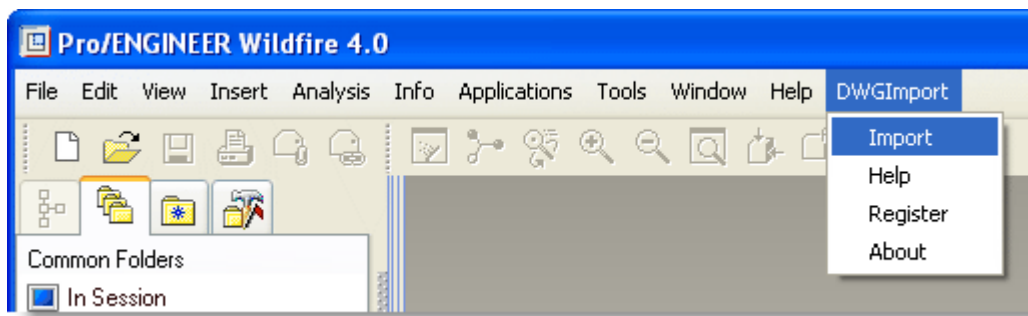
# Tutorial

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

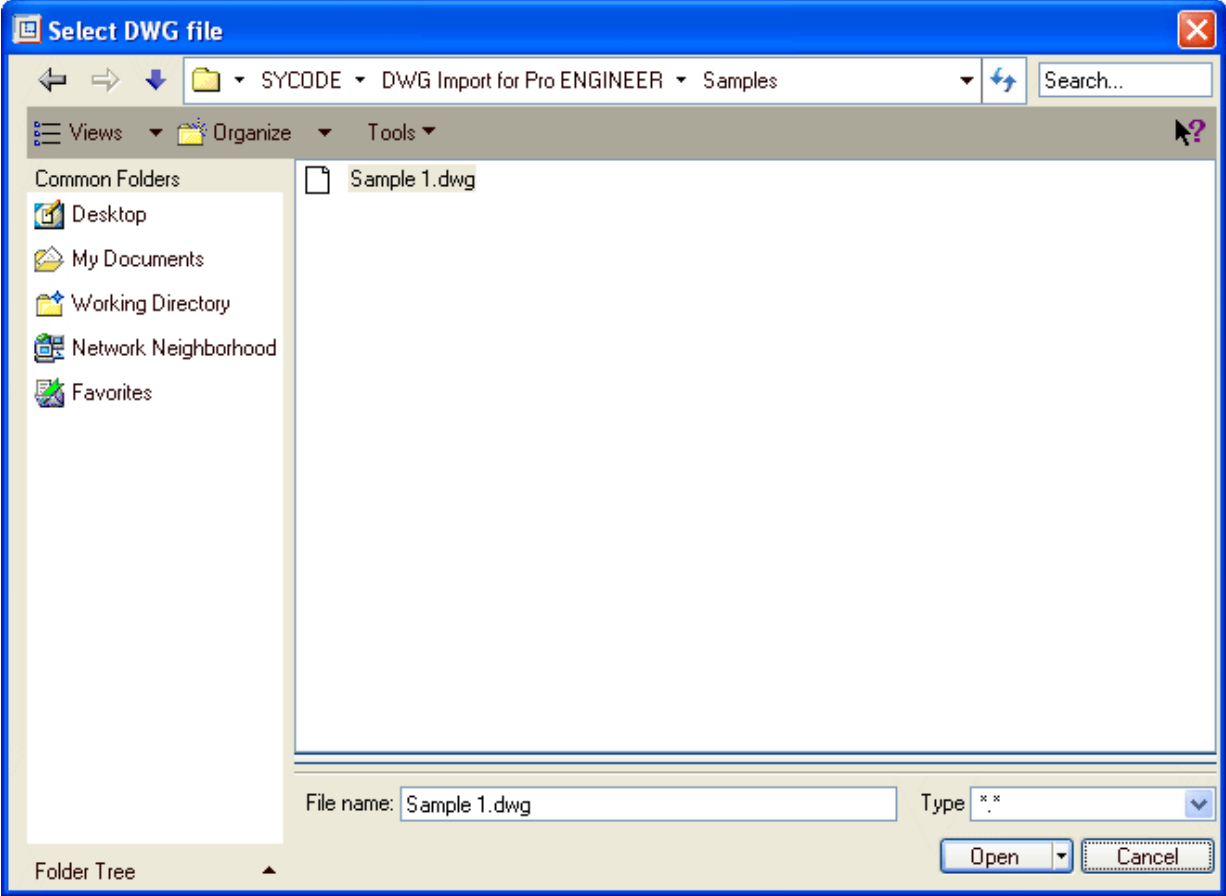
**Step 1:** Start Pro/ENGINEER Wildfire.

**Step 2:** Select *Import* from the "DWGImport" menu.



**Step 3:** The Pro/ENGINEER "Open" dialog box is displayed. Browse for the file C:\Program Files\SYCODE\DWG Import for Pro ENGINEER\Samples\Sample 1.dwg and click *Open*.

DWG Import for Pro/ENGINEER Help



The figure below shows the final result

