

# **VTK Import for Inventor Help**

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# VTK Import for Inventor Help

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Welcome to *VTK Import for Inventor* Help!

This help file provides all the information you need to understand and use *VTK Import for Inventor*. 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 *VTK Import for Inventor* help file is divided into the following sections:

- [Introduction](#) - Introduction to *VTK Import for Inventor*.
- [Command Reference](#) - Quick reference of all the commands added by *VTK Import for Inventor*.
- [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 *VTK Import for Inventor* add-in file into the Inventor environment, please refer to the [ReadMe](#) file.
- Please read the [License Agreement](#) before using the software.

# Introduction

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*VTK Import for Inventor* is a Visualization Toolkit VTK file import for Inventor. This add-in gives Inventor the ability to import polygon data from VTK files.

*VTK Import for Inventor* reads polygon mesh data stored in VTK files and imports it into Inventor. A polygon mesh in a VTK file is comprised of a set of triangular faces. *VTK Import for Inventor* creates trimmed planar surfaces for each triangle and knits them together to create a body. If the polygon mesh is closed (i.e. it does not contain boundary edges) then *VTK Import for Inventor* will create a closed body feature, otherwise an open surface will be created.

*VTK Import for Inventor* is designed to work with the following versions of Inventor:

- Inventor 2011
- Inventor 2010
- Inventor 2009
- Inventor 2008
- Inventor 11
- Inventor 10
- Inventor 9

*VTK Import for Inventor* is very easy to use. *VTK Import for Inventor* adds new commands to Inventor. It also adds a ribbon bar to the Inventor user interface called "Add-Ins" containing these new commands.

*VTK Import for Inventor* 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 VTK File Format**

The Visualization ToolKit (VTK) is an open source, freely available software system for 3D computer graphics, image processing, and visualization used by thousands of researchers and developers around the world. VTK consists of a C++ class library, and several interpreted interface layers including Tcl/Tk, Java, and Python. The Toolkit stores geometric data in a file format known as VTK. Very few CAD applications have the ability to read and write VTK files.

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## VTK Import for Inventor Help

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This is the *VTK Import for Inventor* ReadMe file.

VTK Import for Inventor is an add-in for Inventor.

### Installation:

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The installer adds VTK Import for Inventor to the list of available add-ins installed for Inventor. To verify whether VTK Import for Inventor has been properly loaded into Inventor invoke the "Add-In Manager" by clicking on the "Tools" menu and then. Verify that "VTK Import for Inventor" is present in the list of "Available Add-Ins" and make sure that "Loaded/Unloaded" and "Load on Startup" check boxes are checked.

Now VTK Import for Inventor is ready for use.

### Usage:

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VTK Import for Inventor adds new commands to Inventor. It also adds a ribbon bar to the Inventor user interface called "Add-Ins" containing these new commands. Simply click on the buttons in the ribbon bar to run these new commands.

The new commands are:

- 1) Import - Imports a VTK file
- 2) Help - Display the VTK Import for Inventor help file
- 3) Register - Display the VTK Import for Inventor product registration dialog box
- 4) About - Display the VTK Import for Inventor about box

### Support:

=====

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
Phone	+91 9822689298
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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*VTK Import for Inventor* adds new commands to Inventor. It also adds a ribbon bar to Inventor called "Add-Ins" containing these new commands.

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

## Import

---

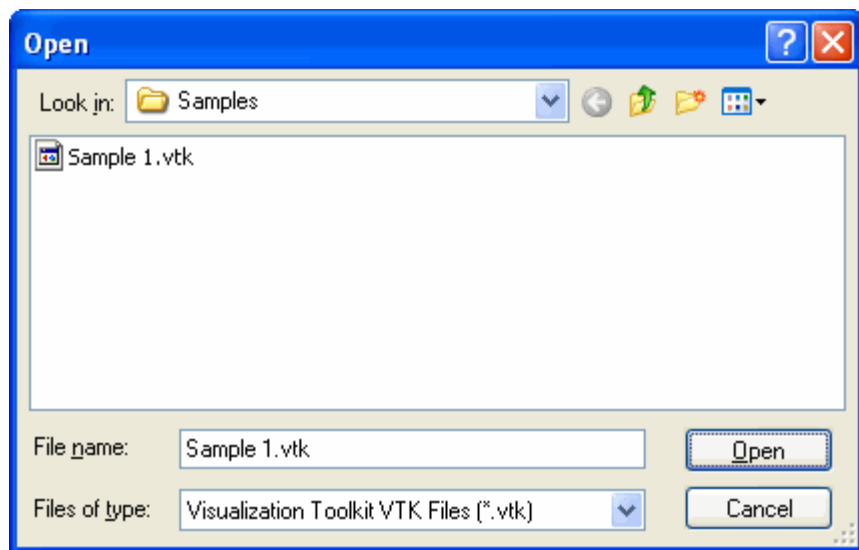
**Menu Button** Add-Ins > Import

---

This command imports mesh objects from VTK files into Inventor.

### To import a VTK file

1. Click the *Import* button on the "Add-Ins" ribbon bar.
2. The Inventor file "Open" dialog box is displayed. Browse for the VTK file you wish to import and click *Open*.



## Help

---

**Menu Button** Add-Ins > Help

---

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

## Register

**Menu Button** Add-Ins > Register

This command is used to register your copy of *VTK Import for Inventor*.

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.

Product Name: VTK Import for Inventor 2010 version 1.0

Host ID: 00-1E-8C-9C-71-44

License Key: xUAb5Cqw`1p9901ygnkBX040459B10AAJL;'a6m009gCd20a941717ASERT24578ERX04Y680p18fdgdvdgBBEo9FCAB#+(IOA14Y1FGF3CP8CmtB9CGs4703DD266V60,a6E8AE0g8V

Buttons: Buy Online, Request Key, Update Key

How do I get a license key?

=== LICENSE KEY PARAMETERS ===

Key type: Trial  
Expires: 13-Sep-2009  
Runs remaining: 7

Close

### 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.

## VTK Import for Inventor 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](mailto:register@sycode.com)

## About

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**Menu Button** Add-Ins > About

---

This command is used to display the *VTK Import for Inventor* About box. The About box lists the software and its version .



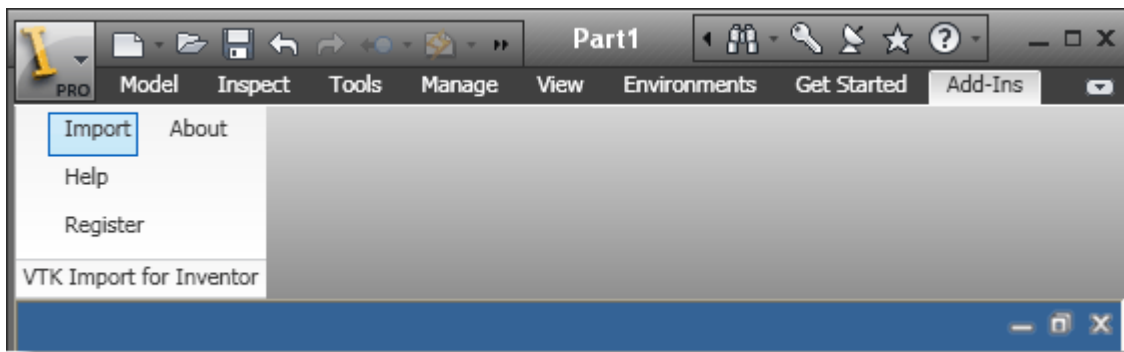
# Tutorial

## Tutorial

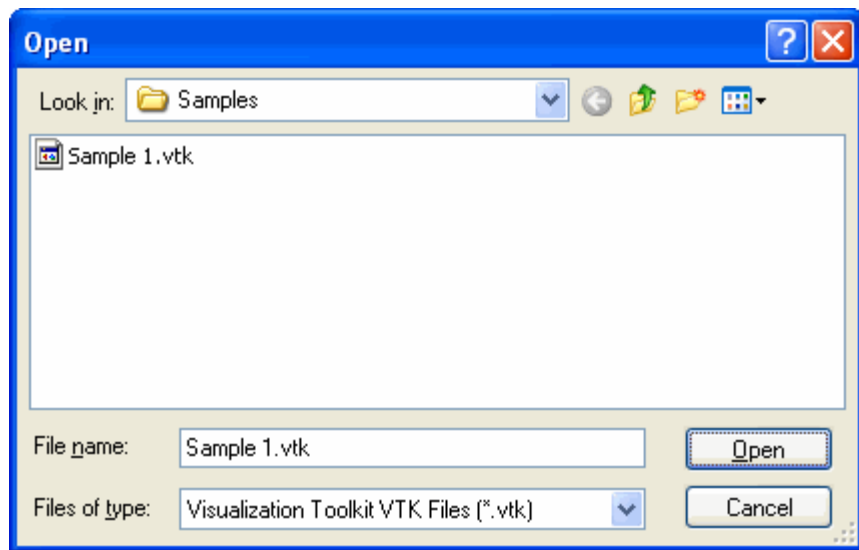
This tutorial provides the necessary information and hands-on experience to help you get started with *VTK Import for Inventor*.

**Step 1:** Start Inventor.

**Step 2:** Click the *Import* button on the "Add-Ins" ribbon bar.



**Step 3:** The Inventor "Open" dialog box is displayed. Browse for the file C:\Program Files\SYCODE\VTK Import for Inventor\Samples\Sample 1.vtk and click *Open*.



The figure below shows the final result.

