

## **VTK Import for ARES Help**

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# VTK Import for ARES Help

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Welcome to *VTK Import for ARES* Help!

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

- [Introduction](#) - Introduction to *VTK Import for ARES*.
- [Command Reference](#) - Quick reference of all the commands added by *VTK Import for ARES*.
- [Tutorial](#) - Tutorial to get you started in the shortest possible time.

**Note:**

- Please refer to the section "Loading Instructions" in the [ReadMe](#) file to load *VTK Import for ARES* plug-in file into the ARES environment.
- Please read the [License Agreement](#) before using the software.

# Introduction

## Introduction

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*VTK Import for ARES* is a Visualization Toolkit VTK file import plug-in for ARES®. This plug-in gives ARES the ability to import geometric data from ASCII and Binary VTK files.

*VTK Import for ARES* reads polygon mesh data stored in VTK files and imports it into ARES. A polygon mesh in a VTK file is comprised of a set of triangular/quad faces. *VTK Import for ARES* recreates the polygon meshes in a VTK file inside the active ARES drawing. The model can be recreated as set of points, lines, polylines, 3D faces or a polyface mesh.

*VTK Import for ARES* is designed to work with the following version of ARES:

- ARES 2010 (32 bit)

*VTK Import for ARES* is very easy to use. Once installed, it must be loaded into the ARES environment. There are simple instructions for this in the *ReadMe* document which can be found in the installation folder. Once loaded it adds new commands to ARES's existing commands and a new submenu called "VTKImport" to the ARES menu containing these newly added commands.

*VTK Import for ARES* 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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## ReadMe

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

VTK Import for ARES is a add-in for ARES Commander Edition

Please read this ReadMe document carefully and completely. It contains important information which is vital to the proper working of VTK Import for ARES.

Loading:

=====

Before you use the VTK Import for ARES you need to load the add-in into the ARES environment. Loading is a one time process. The add-in will automatically load itself into ARES on startup henceforth. To load the add-in please carry out the following steps:

- 1) Click Tools->Options. This brings up the Options dialog box.
- 2) Select Add-Ins on the left.
- 3) Check the "New" button towards the top right.
- 4) Browse for the add-in DRX file (VTKImport\_ARES\_3.02src\_8.drx) in the VTK Import for ARES installation folder (typically C:\Program Files\SYCODE\VTK Import for ARES\ ) and click "Open"
- 5) Check "OK" on the Options dialog box to dismiss it.

Usage:

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VTK Import for ARES adds new commands to ARES. It also adds a new menu the ARES menu "VTKImport". Use the items on this menu to invoke the newly added commands.

The new commands are:

- 1) Import - Import a VTK file
- 2) Help - Display the VTK Import for ARES help file
- 3) Register - Register your copy of VTK Import for ARES
- 4) About - Display the VTK Import for ARES about box

Sample files are copied into the Samples folder (typically "C:\Program Files\SYCODE\VTK Import for ARES\Samples"). You can use these sample files to try VTK Import for ARES.

Support:

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

## Contact

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Fax	+91 832 2416615
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Web Site	<a href="http://www.sycode.com">http://www.sycode.com</a>

# Command Reference

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*VTK Import for ARES* adds new commands to ARES and a submenu called "VTKImport" which houses them. The new commands are:

<a href="#">VTKImport</a>	Import a VTK file
<a href="#">VTKImportHelp</a>	Display the <i>VTK Import for ARES</i> help file
<a href="#">VTKImportRegister</a>	Register your copy of <i>VTK Import for ARES</i>
<a href="#">VTKImportAbout</a>	Display the <i>VTK Import for ARES</i> about box

## VTKImport

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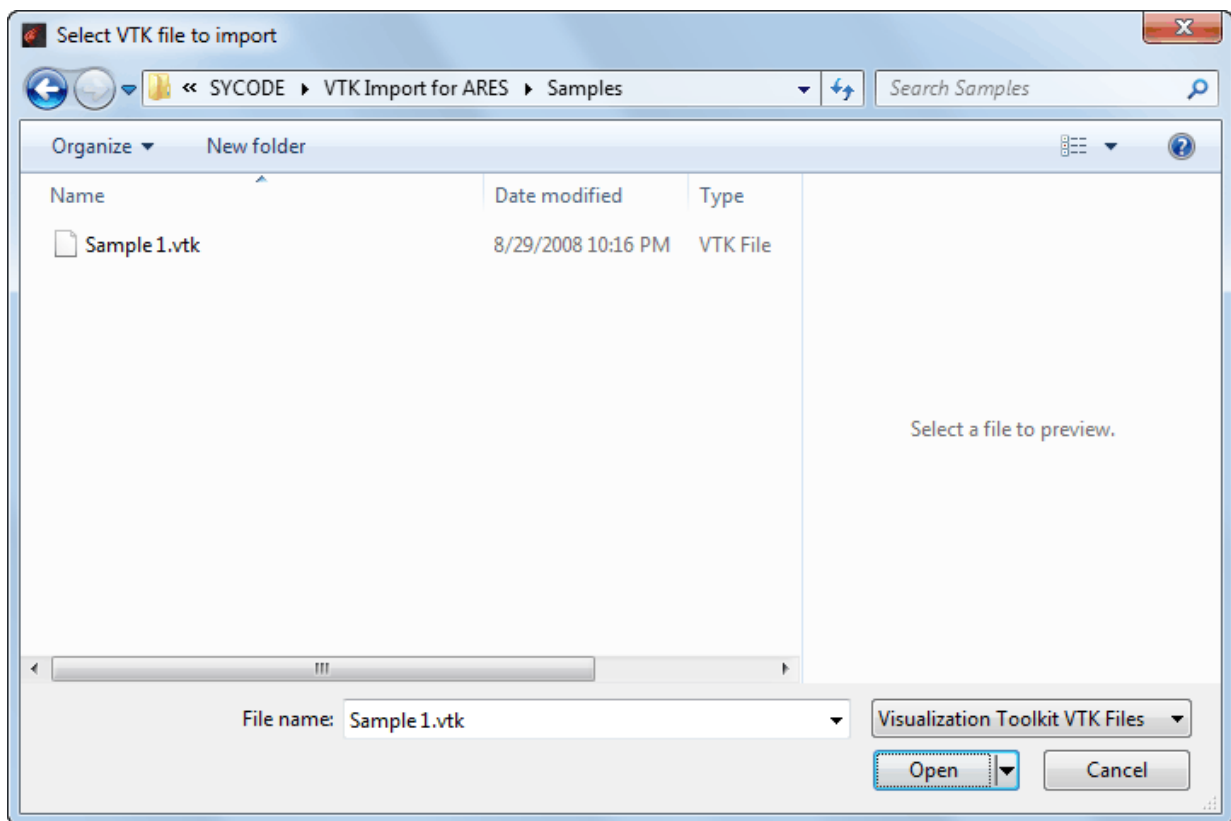
<b>Menu Button</b>	VTKImport > Import
<b>Command</b>	VTKImport

---

This command imports geometric data from ASCII and Binary VTK files into ARES.

### To import a VTK file

1. Select *Import* from the "VTKImport" submenu or type *VTKImport* at the ARES command prompt and press *Enter*.
2. The ARES file "Open" dialog box is displayed. Browse for the VTK file you wish to import and click *Open*.



2. At the ARES command prompt, select the "Options" as required and click OK.

## VTKImportHelp

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<b>Menu Button</b>	VTKImport > Help
<b>Command</b>	VTKImportHelp

---

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

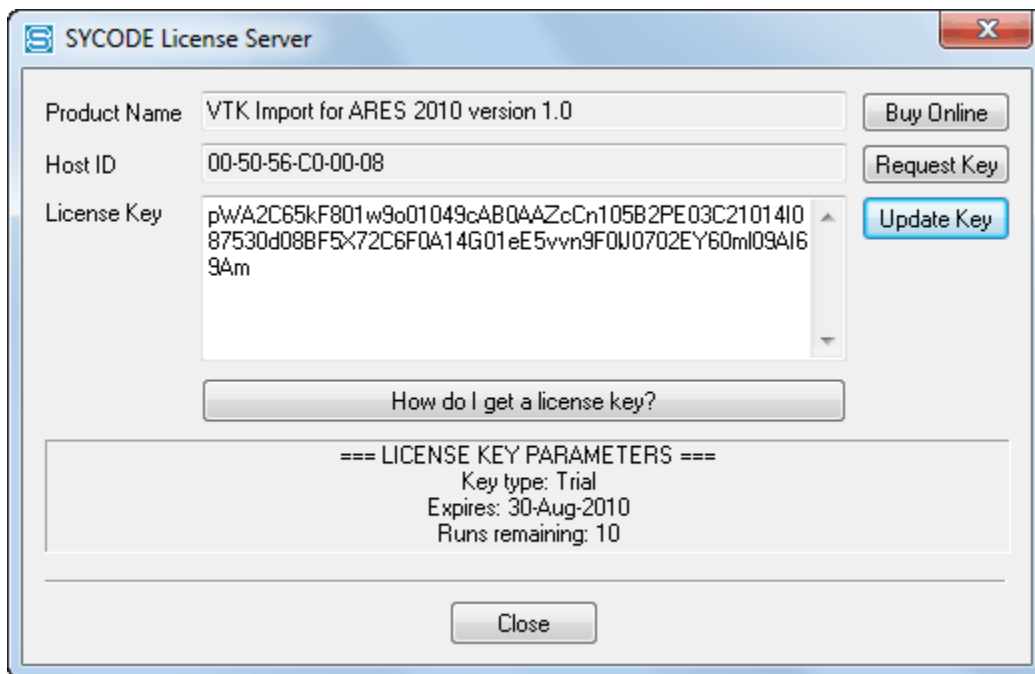
## VTKIImportRegister

**Menu Button** VTKIImport > Register

**Command** VTKIImportRegister

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

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:

## VTK Import for ARES Help

- (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)

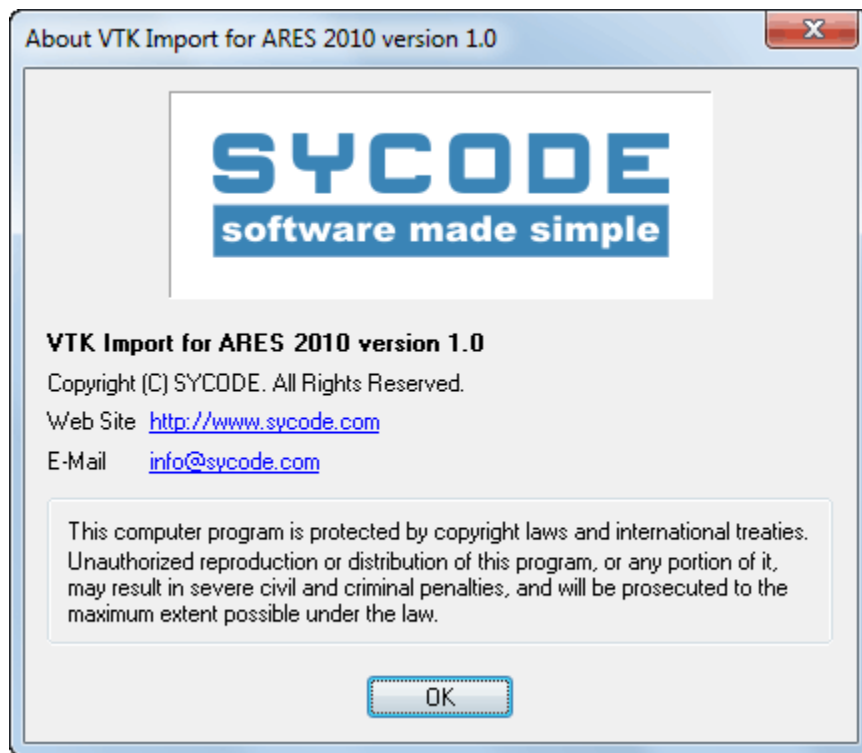
## VTKImportAbout

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<b>Menu Button</b>	VTKImport > About
<b>Command</b>	VTKImportAbout

---

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



# Tutorial

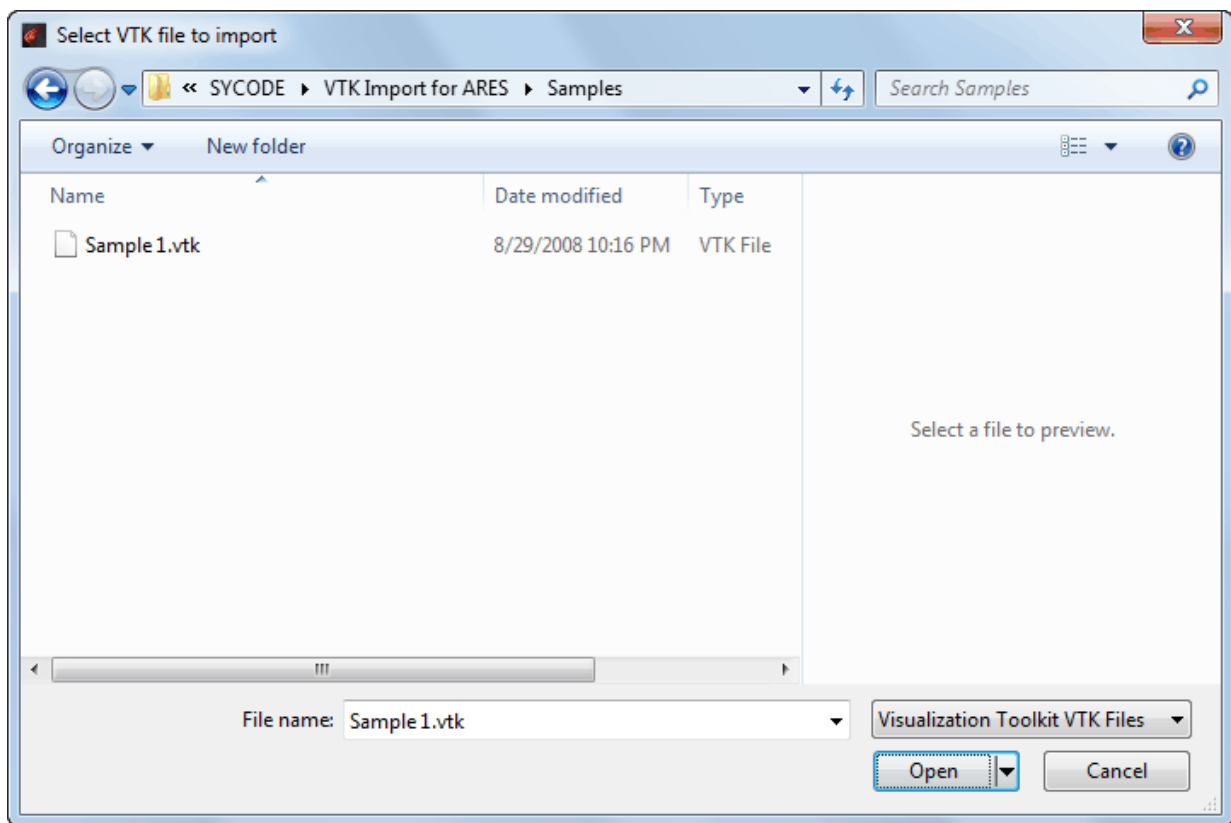
## Tutorial

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

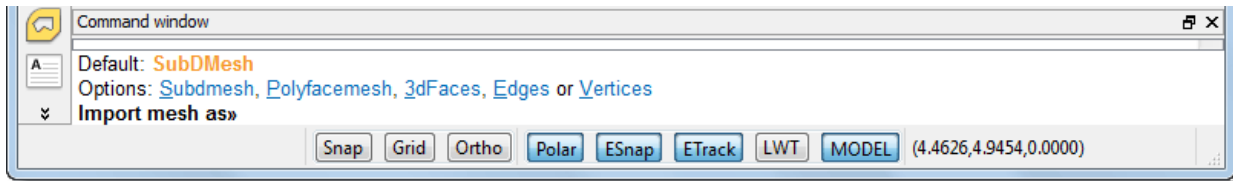
**Step 1:** Start *ARES*.

**Step 2:** Select *Import* from the "VTKImport" menu or type *VTKImport* at the *ARES* command prompt and press *Enter*.

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



**Step 4:** The "VTK Import Options" dialog box is displayed. Set the VTK options as required and click *OK*.

**Note:**

1. When importing a VTK file object with "Subdmesh" option will import as "Vertices", this is a known limitation and we have reported this behavior to Graebert. Graebert will fix it in the next release.

2.

The below shows a VTK file opened in ARES.

