

## **VTK Export for ARES Help**

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# VTK Export for ARES Help

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Welcome to *VTK Export for ARES* Help!

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

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

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

**Note:**

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

# Introduction

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

*VTK Export for ARES* extracts facet data from 3D Face, Polygon Mesh and PolyFace Mesh objects in the active ARES drawing and exports it to a VTK file.

*VTK Export for ARES* is designed to work with the following versions of ARES:

- ARES 2010 (32 Bit)

*VTK Export 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 "VTKExport" to the ARES menu containing these newly added commands.

*VTK Export 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

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

VTK Export 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 Export for ARES.

Loading:

=====

Before you use the VTK Export 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 (VTKExport\_ARES\_3.02src\_8.drx) in the VTK Export for ARES installation folder (typically C:\Program Files\SYCODE\VTK Export for ARES\) and click "Open"
- 5) Check "OK" on the Options dialog box to dismiss it.

Usage:

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

The new commands are:

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

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

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

<a href="#">VTKExport</a>	Exports a VTK file
<a href="#">VTKExportHelp</a>	Displays the <i>VTK Export for ARES</i> help file
<a href="#">VTKExportRegister</a>	Registers your copy of <i>VTK Export for ARES</i>
<a href="#">VTKExportAbout</a>	Displays the <i>VTK Export for ARES</i> about box

## VTKExport

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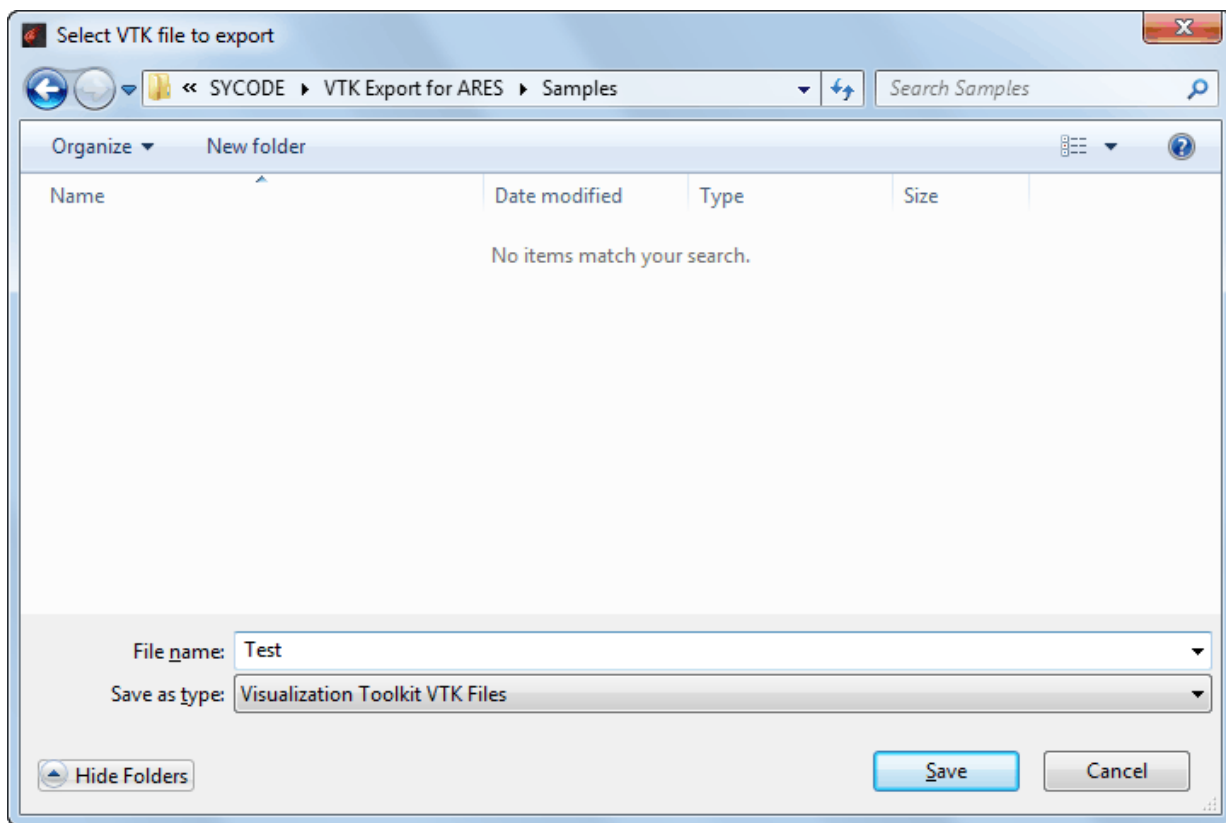
<b>Menu Button</b>	VTKExport > Export
<b>Command</b>	VTKExport

---

This command exports geometric data from ARES to ASCII and Binary VTK files.

### To export to a VTK file

1. Select *Export* from the "VTKExport" menu or type *VTKExport* at the ARES command prompt and press *Enter*.
2. At the ARES command prompt "Select objects to export", select the objects that you wish to export and press *Enter* when done.
3. The ARES file "Save As" dialog box is displayed. Enter the output file name of a VTK file and click *Save*.



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



## VTKExportHelp

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<b>Menu Button</b>	VTKExport > Help
<b>Command</b>	VTKExportHelp

---

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

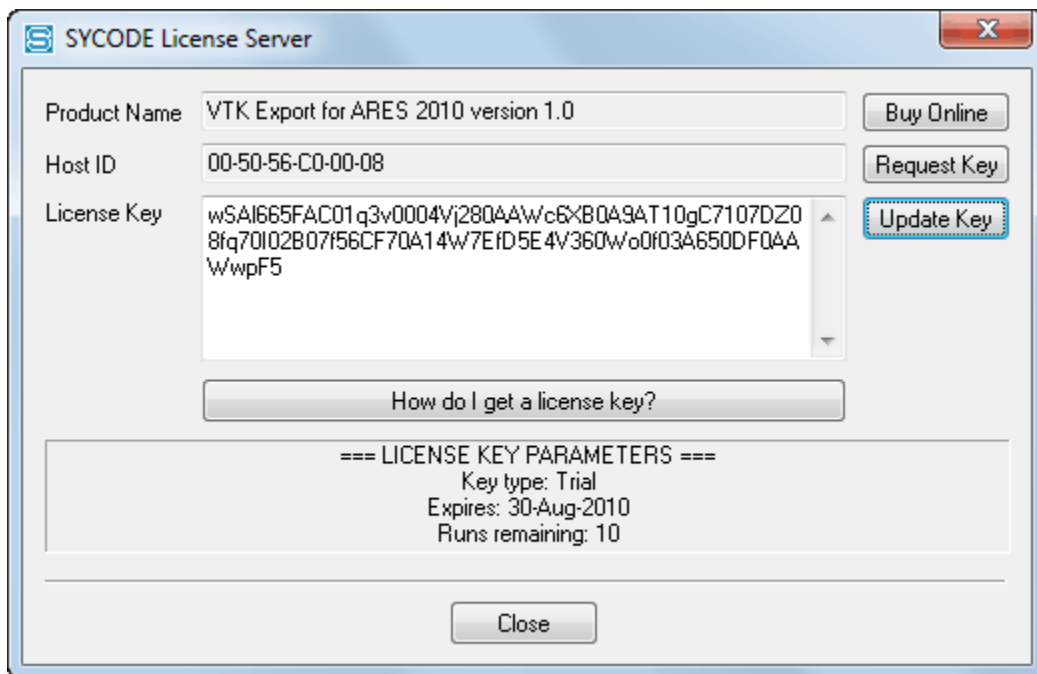
## VTKExportRegister

**Menu Button** VTKExport > Register

**Command** VTKExportRegister

This command is used to register your copy of *VTK Export 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:

## Command Reference

- (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)

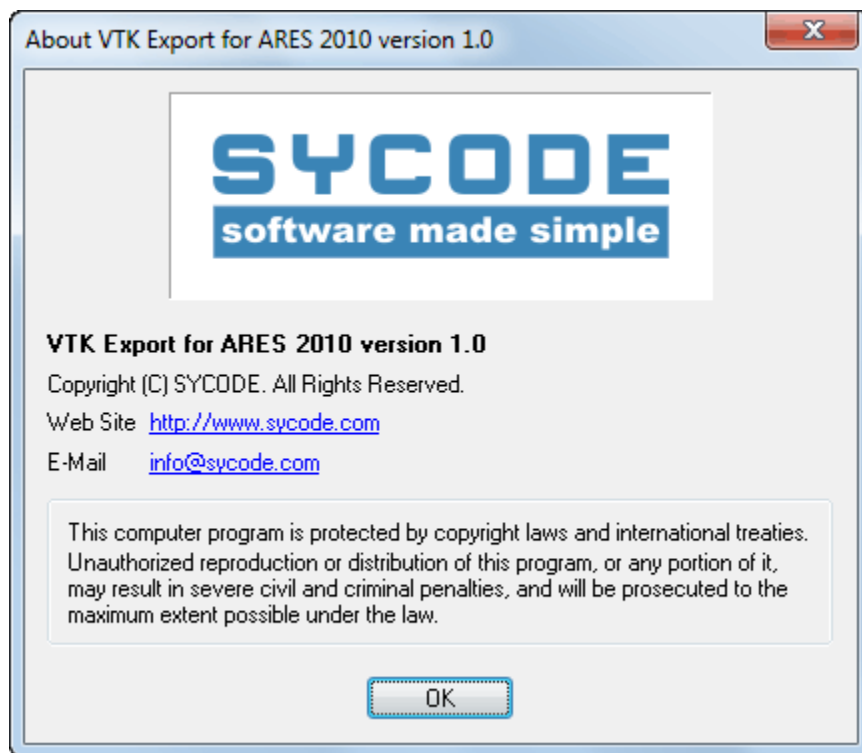
## VTKExportAbout

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<b>Menu Button</b>	VTKExport > About
<b>Command</b>	VTKExportAbout

---

This command displays the *VTK Export for ARES* About box. The About box lists the software and its version.



# Tutorial

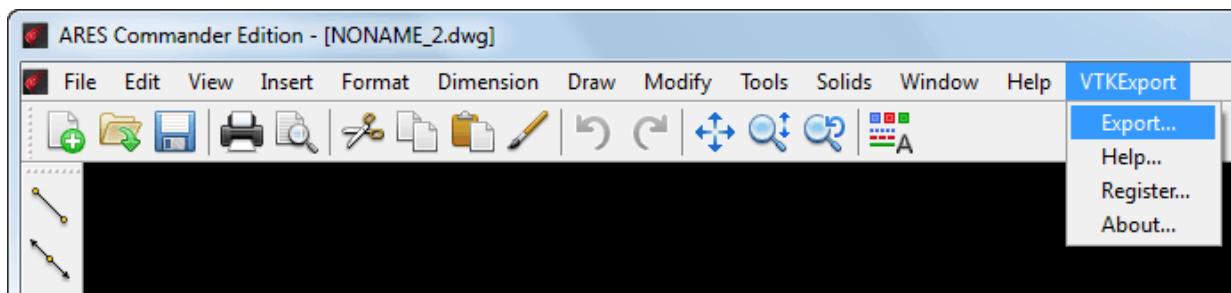
---

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

**Step 1:** Start ARES.

**Step 2:** Click Open from the "File" menu. The "Open Drawing" dialog box is displayed. Select the file C:\Program Files\SYCODE\VTK Export for ARES\Samples\Sample 1.dwg and click *Open*.

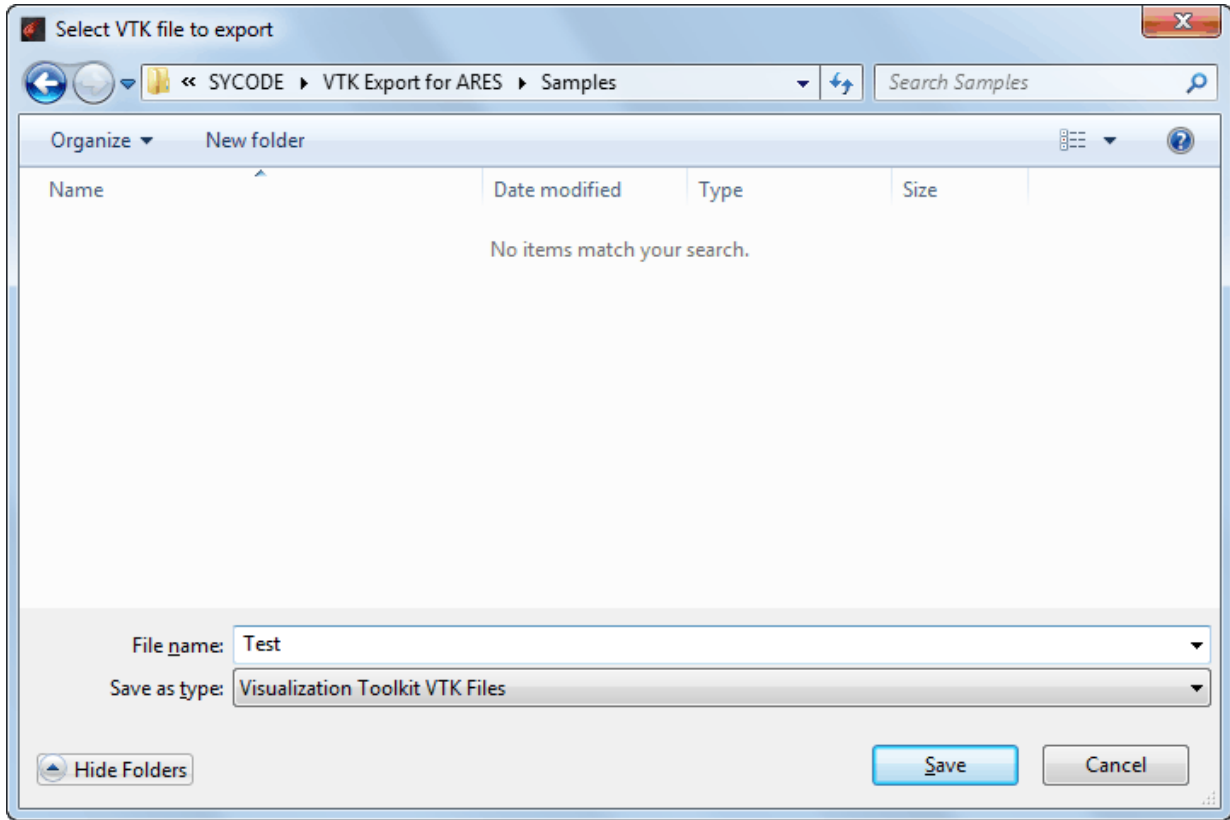
**Step 3:** Select *Export* from the "VTKExport" menu or type *VTKExport* at the ARES command prompt and press *Enter*.



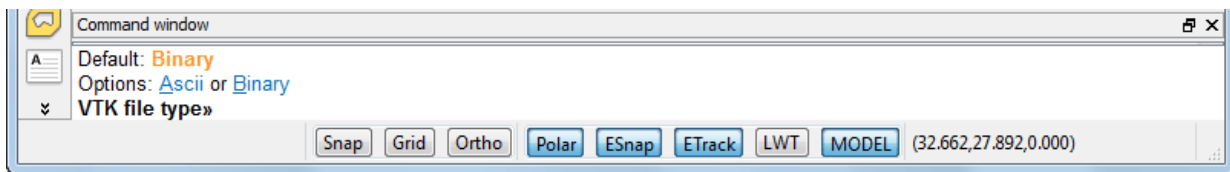
**Step 4:** At the ARES command prompt "Select objects to export", select the objects that you wish to export and press Enter when done.

**Step 5:** The ARES "Save As" dialog box is displayed. Enter the output file name of the VTK file and click *Save*.

## VTK Export for ARES Help



**Step 6:** At the ARES command prompt, select the "Options" as required and click OK.



The model will be exported to the VTK file you specified.