

VTK Export for Alibre Design Help

Table Of Contents

VTK Export for Alibre Design Help	1
Introduction	2
License Agreement	3
ReadMe	10
Contact.....	11
Command Reference	12
Export	13
Help.....	14
Register.....	15
About.....	17
Tutorial	18

VTK Export for Alibre Design Help

Welcome to *VTK Export for Alibre Design* Help!

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

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

Introduction

VTK Export for Alibre Design is a Visualization Toolkit (.vtk) file export add-on for Alibre Design®. This add-on gives Alibre Design the ability to export geometric data from Alibre Design to ASCII and Binary VTK files.

VTK Export for Alibre Design tessellates solid bodies in a Alibre Design document into a set of triangular meshes. These meshes are then exported to a VTK file as mesh objects. The VTK file can then be imported into a variety of CAD applications.

VTK Export for Alibre Design is designed to work with the following versions of Alibre Design:

- Alibre Design 12
- Alibre Design 11
- Alibre Design 10

VTK Export for Alibre Design is very easy to use. It adds new commands to Alibre Design. Once installed, it automatically loads itself into Alibre Design and adds a new submenu called "VTKExport" to the Alibre Design menu which contain these newly added commands.

VTK Export for Alibre Design 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 Export for Alibre Design* ReadMe file.

VTK Export for Alibre Design is an add-on for Alibre Design

Installation:

=====

The installer adds VTK Export for Alibre Design to the list of available add-ons installed for Alibre Design. To verify whether VTK Export for Alibre Design has been properly loaded into Alibre Design invoke the "Add-on Manager" by clicking on the "Tools" menu, then "Add-on Manager". Verify that "VTK Export for Alibre Design" is present in the list of available add-ons and make sure that its check box is checked.

Now VTK Export for Alibre Design is ready for use.

Usage:

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VTK Export for Alibre Design adds new commands to Alibre Design. It also adds a submenu to the Alibre Design menu called "VTKExport" 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 an VTK file.
- 2) Help - Display the VTK Export for Alibre Design help file.
- 3) Register - Display the VTK Export for Alibre Design product registration dialog box.
- 4) About - Display the VTK Export for Alibre Design about box.

Support:

=====

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

Contact

Mailing address	S1/116, Nova Cidade Complex, NH 17, Alto Porvorim, Goa - 403521 India
Phone	+91 9822689298
Fax	+91 832 2416615
E-Mail	info@sycode.com
Web Site	http://www.sycode.com

Command Reference

VTK Export for Alibre Design adds a new menu to Alibre Design called 'VTKExport'. The 'VTKExport' menu consists of the following commands:

Export	Exports a VTK file
Help	Displays the <i>VTK Export for Alibre Design</i> help file
Register	Registers your copy of <i>VTK Export for Alibre Design</i>
About	Displays the <i>VTK Export for Alibre Design</i> about box

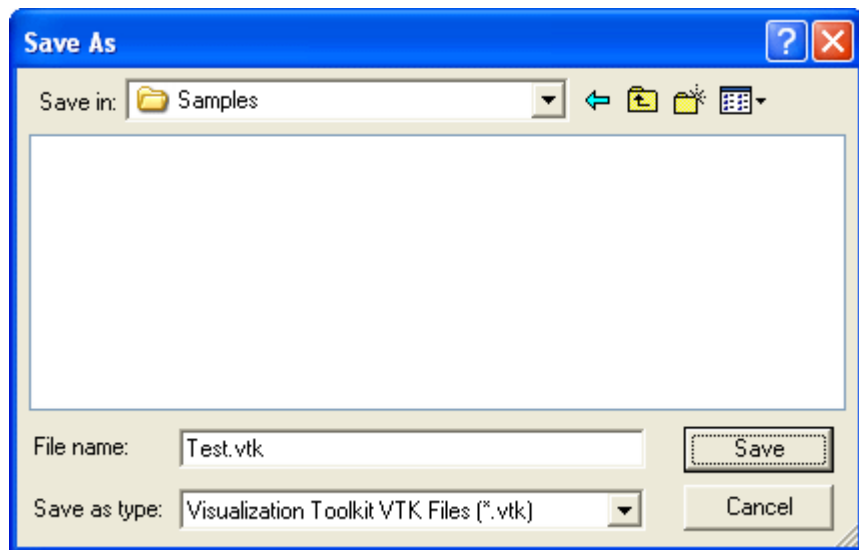
Export

Menu Button VTKExport > Export

This command tessellates the active Alibre Design part or assembly and exports geometric data from Alibre Design to ASCII and Binary VTK files.

To export to a VTK file

1. Select *Export* from the "VTKExport" menu.
2. The Alibre Design "Save As" dialog box is displayed. Enter the name of a VTK file and click *Save*.



3. The "VTK Export for Alibre Design Options" dialog box is displayed. Select the File type as required and click *OK*.

Help

Menu Button VTKExport > Help

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

Register

Menu Button VTKExport > Register

This command is used to register your copy of *VTK Export for Alibre Design*.

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 has a blue title bar with a close button (X) on the right. The main area is white with a light blue border. It contains three input fields with corresponding buttons to their right:

- Product Name:** VTK Export for Alibre Design 11 version 1.0 (Button: Buy Online)
- Host ID:** 00-1D-7D-FD-AD-1D (Button: Request Key)
- License Key:** jSAn0D100CD1p6c0F044D04QAAq2y308M Fh707Gc1A57Q0D4QA0ID71AOP93C16QA1 4T5E75785U0BDtC1d07Bh50jD8AvRcC3 (Button: Update Key)

Below the license key field is a button labeled "How do I get a license key?". At the bottom of the dialog, there is a section titled "=== LICENSE KEY PARAMETERS ===" with the following text:

```

Key type: Trial
Expires: 25-Jul-2009
Runs remaining: 10

```

A "Close" button is located at the bottom center of the dialog.

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.

VTK Export for Alibre Design Help

- (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

About

Menu Button VTKExport > About

This command is used to display the *VTK Export for Alibre Design* About box. The About box lists the product and its version.



Tutorial

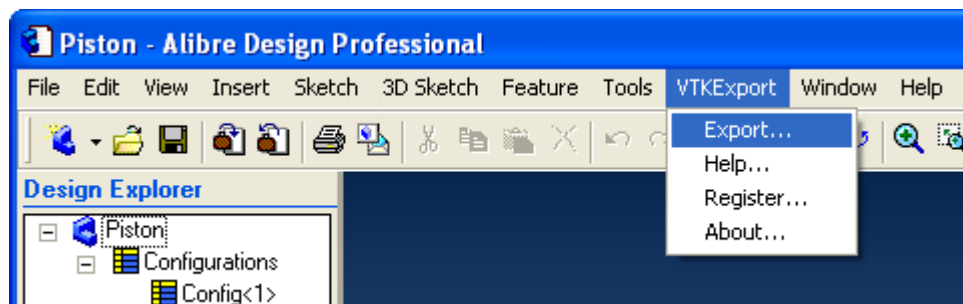
This tutorial provides the necessary information and hands-on experience to help you get started with *VTK Export for Alibre Design*.

Step 1: Start Alibre Design.

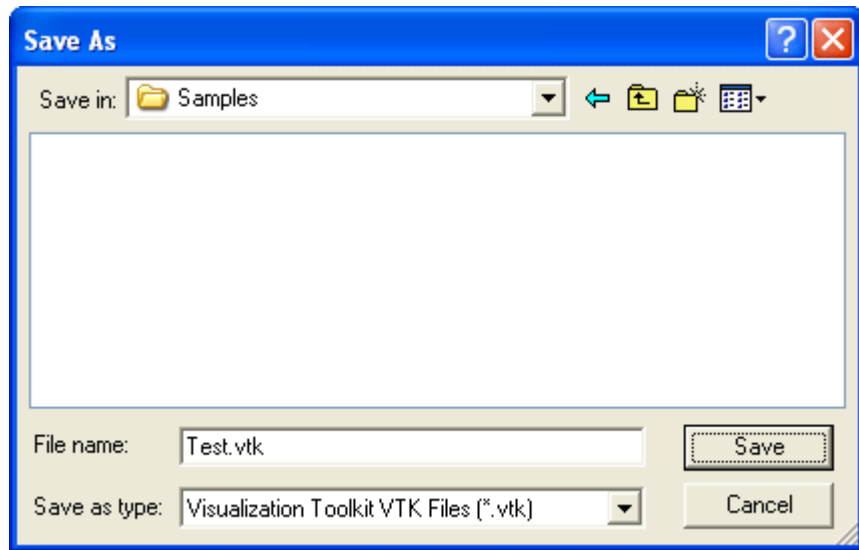
Step 2: Click "Import" from the "File" menu. The Alibre Design's "Import File" dialog box is displayed. Browse for a file typically located at "C:\Program Files\VTK Export for Alibre Design\Samples\Piston.sat" and click *Open*.

Step 3: The Alibre Design's "Import File Options" dialog box is displayed. Set the options as required and click *OK*.

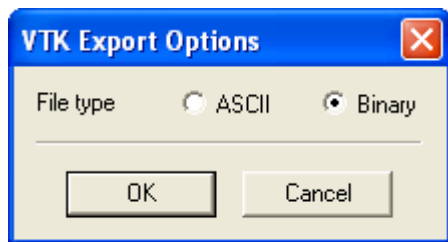
Step 4: Select *Export* from the "VTKExport" menu.



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



Step 6: The "VTK Export for Alibre Design Options" dialog box is displayed. Select the File type as required and click *OK*.



The VTK file will be created in the location you specified.