

SAT Export for AutoCAD Help

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SAT Export for AutoCAD Help

Welcome to *SAT Export for AutoCAD* Help!

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

- [Introduction](#) - Introduction to *SAT Export for AutoCAD*.
- [Command Reference](#) - Quick reference of all the commands added by *SAT Export for AutoCAD*.
- [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 *SAT Export for AutoCAD* plug-in file into the AutoCAD environment.
- Please read the [License Agreement](#) before using the software.

Introduction

SAT Export for AutoCAD is an ACIS SAT and SAB file export plug-in for AutoCAD. This plug-in gives AutoCAD the ability to export 3D solid models in AutoCAD to ACIS to SAT and SAB files.

AutoCAD already has a command called ACISOUT which exports ACIS SAT files. However this command is limited to exporting SAT files (not SAB) and that too up till version 7.0 only. Spatial has released ACIS version 20 and most CAD systems read SAT and SAB files much later than version 7.0. AutoCAD's ACISOUT command is not able to write ACIS SAT files later then version 7.0. This can post a huge problem when it comes to effectively exchanging data between AutoCAD and other CAD systems. *SAT Export for AutoCAD* solves this problem by giving AutoCAD the ability to write ACIS SAT and SAB files up till the latest version of ACIS as developed by Spatial.

SAT Export for AutoCAD is powered by the widely used 3D InterOp technology from Spatial. 3D InterOp is the industry standard for proprietary and neutral CAD file format data exchange and is used in almost all the major CAD systems. Besides data exchange 3D InterOp also offers powerful repairing and healing features which are extensively used in *SAT Export for AutoCAD*. Repairing involves checking the file for corrupted data and fixing the invalid data. Healing corrects the differences in precision. *SAT Export for AutoCAD* also creates a detailed log file which is extremely useful in identifying data translation problems and aids in locating and fixing errors.

SAT Export for AutoCAD is designed to work with the following versions of AutoCAD:

- AutoCAD 2011 (32 & 64 Bit)
- AutoCAD 2010 (32 & 64 Bit)
- AutoCAD 2009 (32 & 64 Bit)
- AutoCAD 2008 (32 & 64 Bit)
- AutoCAD 2007
- AutoCAD 2006
- AutoCAD 2005
- AutoCAD 2004
- AutoCAD 2002
- AutoCAD 2000i
- AutoCAD 2000

SAT Export for AutoCAD is very easy to use. Once installed, it must be loaded into the AutoCAD environment. There are simple instructions for this in the [ReadMe](#) file. Once loaded it adds new commands to AutoCAD's existing commands and a new submenu called "SATEXport" to the AutoCAD menu containing these newly added commands.

SAT Export for AutoCAD 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 ACIS File Formats

The 3D ACIS® Modeler (ACIS) is a 3D modelling kernel (or engine) owned by Spatial Corporation. ACIS features an open, object-oriented C++ architecture that enables robust, 3D modelling capabilities. ACIS is used to construct applications with hybrid modeling features, since it integrates wireframe model, surface, and solid modeling functionality with both manifold and non-manifold topology, and a rich set of geometric operations.

ACIS supports two kinds of save files, Standard ACIS Text (SAT), and Standard ACIS Binary (SAB). The two formats store identical information, so the term SAT file is generally used to refer to either (when no distinction is needed). SAT files are ASCII text files that may be viewed with a simple text editor. A SAT file contains carriage returns, white space and other formatting that makes it readable to the human eye. A SAT file has a .sat file extension. SAB files cannot be viewed with a simple text editor and are meant for compactness and not for human readability. A SAB file has a .sab file extension. A SAB file uses delimiters between elements and binary tags, without additional formatting.

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ReadMe

This is the *SAT Export for AutoCAD* ReadMe file.

Thank you for installing SAT Export for AutoCAD.

Please read this ReadMe document carefully and completely. It contains important information which is vital to the proper working of SAT Export for AutoCAD.

Loading Instructions:

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Since SAT Export for AutoCAD is a plug-in for AutoCAD, it has to be loaded into the AutoCAD environment before it can be used. Loading is a one time process. SAT Export for AutoCAD will automatically load itself into AutoCAD the next time you run AutoCAD.

The SAT Export for AutoCAD plug-in files are installed into the SAT Export for AutoCAD installation folder (typically "C:\Program Files\SYCODE\SAT Export for AutoCAD\"). The plug-in files have an extension of ".arx".

The list of plug-in files along with the version of AutoCAD is shown below. Please be sure to use the plug-in file that corresponds to your version of AutoCAD.

```
SATExport_VC60.arx    -> AutoCAD 2000, 2000i, 2002
SATExport_VC70.arx    -> AutoCAD 2004, 2005, 2006
SATExport_VC80.arx    -> AutoCAD 2007, 2008 (32 Bit), 2009 (32 Bit)
SATExport_VC80x64.arx -> AutoCAD 2008 (64 Bit), 2009 (64 Bit)
SATExport_VC90.arx    -> AutoCAD 2010 (32 Bit)
SATExport_VC90x64.arx -> AutoCAD 2010 (64 Bit)
SATExport_VC90.arx    -> AutoCAD 2011 (32 Bit)
SATExport_VC90x64.arx -> AutoCAD 2011 (64 Bit)
```

To load SAT Export for AutoCAD into AutoCAD please follow the steps listed below:

- (1) Select "Load Application..." from "Tools" menu or enter the "_APpload" command.
- (2) Click the "Contents" button in "Startup Suite"
- (3) Click the "Add" button.
- (4) Browse for the plug-in file for your version of AutoCAD (see list above).
- (5) Click the "Add" button on the Add File to Startup Suite dialog box.
- (6) Click the "Close" button to close the Startup Suite dialog box.
- (7) Click the "Close" button to close the Load/Unload Applications dialog box.

Now SAT Export for AutoCAD is completely installed and ready for use.

Usage:

=====

SAT Export for AutoCAD adds new commands to AutoCAD. The commands added are:

SAT Export for AutoCAD Help

- 1) SATExport - Exports a SAT file
- 2) SATExportHelp - Displays the SAT Export for AutoCAD help file
- 3) SATExportRegister - Registers your copy of SAT Export for AutoCAD
- 4) SATExportAbout - Displays the SAT Export for AutoCAD about box

Sample Files:

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Sample files are copied into the Samples folder which is located in the SAT Export for AutoCAD installation folder (typically "C:\Program Files\SYCODE\SAT Export for AutoCAD\"). You can try SAT Export for AutoCAD using these sample files.

Support:

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

Contact

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Fax	+91 832 2416615
E-Mail	info@sycode.com
Web Site	http://www.sycode.com

Command Reference

SAT Export for AutoCAD adds new commands to AutoCAD and a submenu called "SATExport" which houses them. The new commands are:

SATExport	Exports a SAT file
SATExportHelp	Displays the <i>SAT Export for AutoCAD</i> help file
SATExportRegister	Registers your copy of <i>SAT Export for AutoCAD</i>
SATExportAbout	Displays the <i>SAT Export for AutoCAD</i> about box

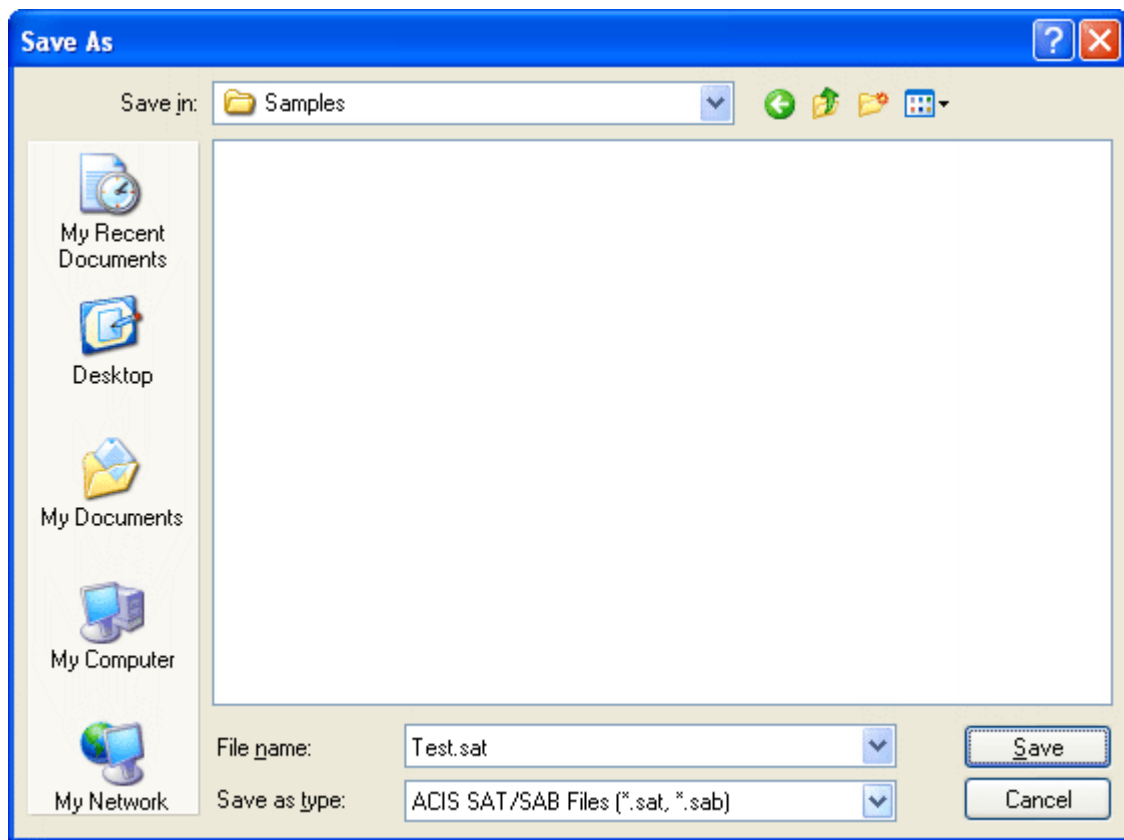
SATExport

Menu Button	SATExport > Export
Command	SATExport

This command is used to export to a SAT file.

To export a SAT file

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



4. The "SAT Export for AutoCAD Options" dialog box is displayed. Select the required options and click *OK*.

SATExportHelp

Menu Button	SATExport > Help
Command	SATExportHelp

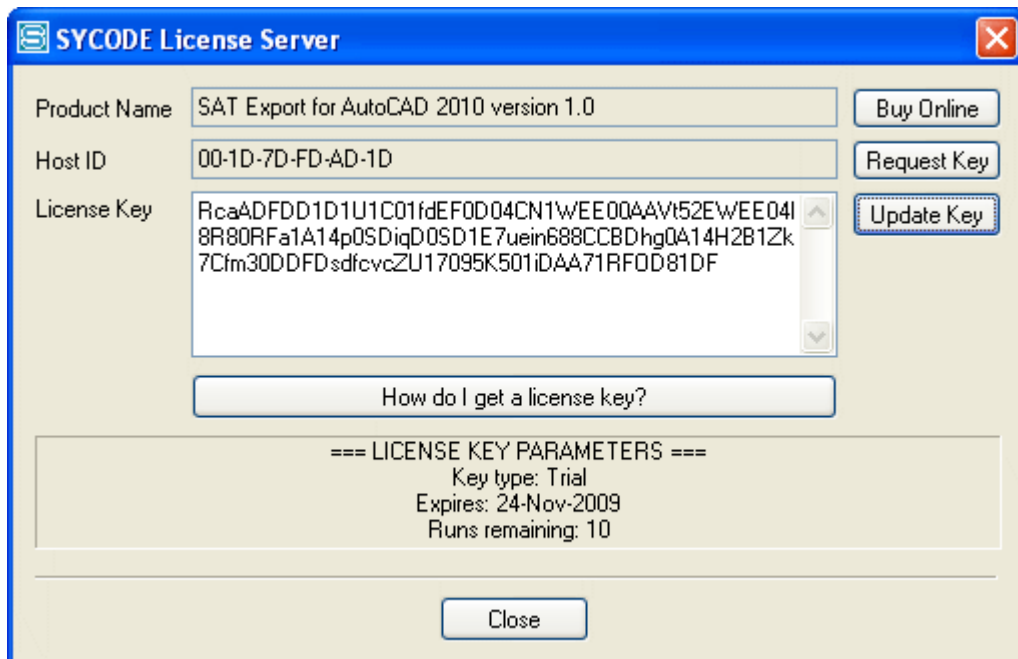
This command displays the help file. The [Welcome](#) page is a good place to start.

SATExportRegister

Menu Button	SATExport > Register
Command	SATExportRegister

This command is used to register your copy of *SAT Export for AutoCAD*.

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

SATExportAbout

Menu Button	SATExport > About
Command	SATExportAbout

This command is used to display the *SAT Export for AutoCAD* About box. The About box lists the product and its version.



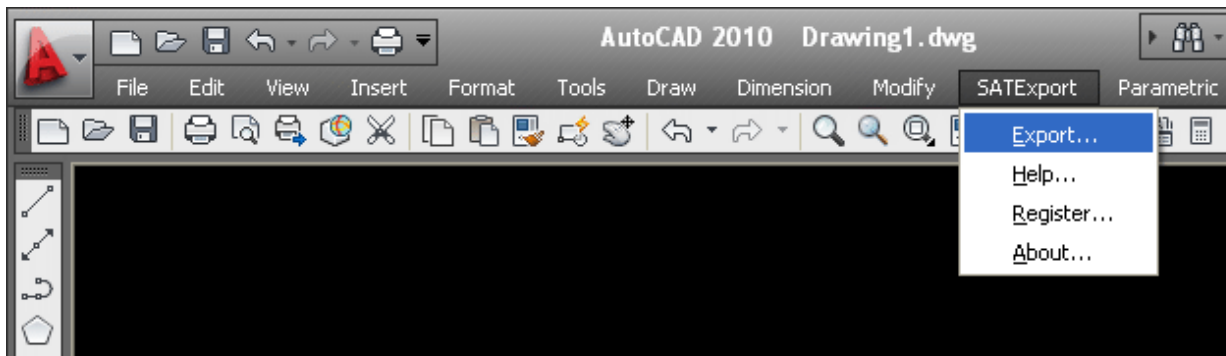
Tutorial

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

Step 1: Start AutoCAD.

Step 2: Select "Open" from the AutoCAD file menu. The "Select File" dialog box is displayed. Browse for the file typically located at "C:\Program Files\SYCODE\SAT Export for AutoCAD\Samples\Sample 1.dwg" and click *Open*.

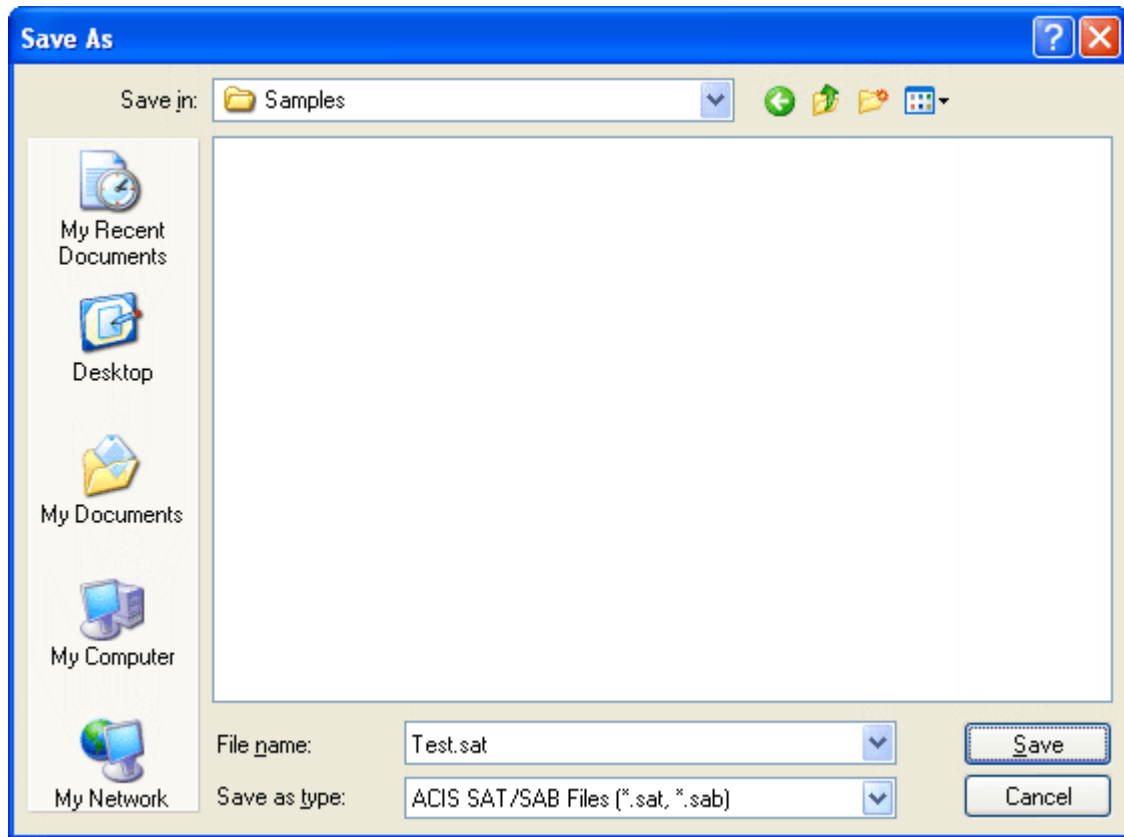
Step 3: Select *Export* from the "SATExport" menu or type *SATExport* at the AutoCAD command prompt and press *Enter*.



Step 4: At the AutoCAD "Select objects" command prompt, select the objects you wish to export. Press *Enter* when done.

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

SAT Export for AutoCAD Help



Step 5: The "SAT Export for AutoCAD Options" dialog box is displayed. Select the required options and click OK.



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