

Installing CosmosScope

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SYNOPSYS®

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Installing CosmosScope

Describes the steps required for installing CosmosScope. It also provides information on how to verify the installation and uninstall CosmosScope.

This document includes the following sections:

- [Preparing for Installation](#)
- [Synopsys Common Licensing \(SCL\)](#)
- [Supported Platforms and Operating Systems](#)
- [Disk Space and Memory Requirements](#)
- [Installing the Software from EST or a CD](#)
- [Installing the Software from Command Line Using Silent Mode](#)
- [Invoking CosmosScope on Windows](#)
- [Invoking CosmosScope on Solaris and Linux](#)
- [Uninstalling the Software](#)
- [Accessing CosmosScope Documentation](#)
- [Customer Support](#)

Important:

Install the latest version of CosmosScope in a folder that does not contain an existing installation. A common license can serve multiple versions of CosmosScope.

The installation instructions in this document are the most up-to-date available at the time of production. However, changes might have occurred. For the latest installation information, see CosmosScope release notes or documentation on SolvNet at <http://solvnet.synopsys.com/>.

Preparing for Installation

The following points are prerequisites for the installation process.

- Retrieve your license keys from the SmartKeys Web page. To access the SmartKeys webpage, click the SmartKeys link from the [Download Center](#). For detailed licensing information, see the [Synopsys Licensing QuickStart Guide](#).
- *Solaris and Linux users:* You must have system administrator privileges when installing licensing or tools in a restricted directory location. The installation script requires that the Bourne shell is available at `/bin/sh`.
- *Windows users:* You must have administration privileges for installing and uninstalling the CosmosScope. In addition, you must close all running CosmosScope sessions before starting any CosmosScope installation processes on Windows.
- To download the software by electronic software transfer (EST), you must have Netscape Navigator 4.0 or later, Microsoft Internet Explorer 4.0 or later, or Mozilla 1.x or later.
- Verify that your disk space is adequate. See Table 2 for information on disk space requirements for each platform.
- *The CosmosScope Release Notes* provides information about changes in licensing, memory requirements, and supported platforms, as well as other enhancements and changes regarding CosmosScope.

To read the release notes,

1. Go to <https://solvnet.synopsys.com/ReleaseNotes> (If prompted, enter your user name and password. If you do not have a Synopsys user name and password, follow the instructions to register with SolvNet.)
2. Click CosmosScope, then click the release you want in the list that appears at the bottom.

The Release Notes are in Portable Document Format (PDF) and require a PDF file reader to view and print them.

Note:

To view and print CosmosScope documentation in Portable Document Format (PDF), you must have Adobe Acrobat Reader installed on your machine. To acquire the latest version of the Adobe Reader software, free of charge, go to <http://www.adobe.com/> and click the Get Adobe Reader button. Follow the instructions on the Web page.

Synopsys Common Licensing (SCL)

Synopsys Common Licensing (SCL) provides a single method of obtaining licenses used by all Synopsys tools. SCL reduces licensing administration complexity, minimizing the effort you expend in installing, maintaining, and managing licensing software for Synopsys tools.

Note:

It is recommended that you download and install the latest version of SCL. To download the latest version of SCL, click "Synopsys Common Licensing" from the [Download Center](#).

The following sections describe:

- [Installing, Administrating, and Troubleshooting SCL](#)
- [SCL Documentation](#)

Installing, Administrating, and Troubleshooting SCL

For information on installing, administrating and troubleshooting SCL see the [Synopsisys Licensing QuickStart Guide](#). The Synopsisys Licensing Quick Start provides information on Downloading and Installing SCL, and other information that is necessary to administer and troubleshoot SCL.

The Documentation section provides links to the installation readme, release notes, administration guide and the FLEXnet User Manual.

Note:

Install a single copy of SCL on your license server to be used with all Synopsys tools. Installation of Synopsys tools and SCL is not order dependent. That is, you can install SCL before or after you install your Synopsys tools. However, you cannot use any Synopsys tools reliant on SCL until you have installed and configured SCL.

SCL Documentation

The Synopsys Common Licensing Installation Notes, Synopsys Common Licensing Release Notes, and the Synopsys Common Licensing Administration Guide, are also available in PDF format in the SCL installation directory at `scl_root/docs/scl`.

The FLEXnet End Users Guide and FAQ is also available in PDF format in the SCL Installation directory at `docs/flexlman`.

Supported Platforms and Operating Systems

Table 1 lists the supported platforms, operating systems, and corresponding Synopsys platform keywords for this release. Many platforms require operating system (OS) patches.

For detailed information, see the Supported Platforms Guide page on the Synopsys Web site. Go to http://www.synopsys.com/products/platforms/sw_platform.html

Under Supported Platforms Guides, select the appropriate foundation for your release. This Web page provides information about supported hardware, operating systems, and required OS patches. If the required patch described on this page is not available from the platform vendor, install the most recent patch instead.

Table 1 Supported Platforms, Operating Systems, and Keywords

Compute Platform	Operating system	Synopsys platform keyword	Platform keyword	Window environment
x86	Red Hat Enterprise Linux v4.0 and 5.0	linux (32-bit mode) ¹	IA.32	GNOME
x86	SUSE Enterprise Linux v9.and 10 ² Note: Supported only on IA- 32 and AMD Opteron	suse32 (32-bit mode)	SUSE.32	KDE
Sun SPARC	Solaris 9, 10 ¹	sparcOS5 (32-bit mode)	SUN.32	CDE

Table 1 Supported Platforms, Operating Systems, and Keywords

Compute Platform	Operating system	Synopsys platform keyword	Platform keyword	Window environment
x86	Windows Vista 32-bit Windows XP Professional 32-bit			Open GL
x86_64	Windows XP Professional x64			Open GL
x86_64	Red Hat Enterprise Linux v4.0 and 5.0			GNOME

1. The 32-bit (x86) and 64-bit (x86_64) Linux software is binary compatible with the Intel EM64T or AMD Opteron running Red Hat Enterprise Linux. See <http://www.synopsys.com/products/platforms> for the latest information.

2. Binary-compatible hardware platform or operating system. Note, however, that binary compatibility is not guaranteed. See <http://www.synopsys.com/products/platforms> for the latest information.

See the Supported Environments section in CosmosScope release notes for latest information on supported platforms. CosmosScope release notes are available at <https://solvnet.synopsys.com/ReleaseNotes>. For information on accessing SolvNet see the [Accessing SolvNet](#) section.

Disk Space and Memory Requirements

The disk space requirement varies depending on the platform and the features selected for installation. Table 2 shows the maximum space required for installing CosmosScope on a particular platform. Each CD also includes this information in the top-level `INSTALL_README.wri` file.

Table 2 CosmosScope Disk Space and Memory Requirements (in Megabytes)

Platform	Software (maximum)	Default temporary directory location	Minimum disk space to run the installer	Temporary disk space during installation
Sun Solaris	1470	<code>/var/tmp</code>	520	700

Installing CosmosScope

Installing the Software from EST or a CD

Table 2 CosmosScope Disk Space and Memory Requirements (in Megabytes) (Continued)

Platform	Software (maximum)	Default temporary directory location	Minimum disk space to run the installer	Temporary disk space during installation
Linux	1500	/tmp	480	650
Windows	1310	%TEMP% or %HOME%\Local Settings\Temp	700	600

Note:

If there is not enough disk space in the default temporary directory, set the environment variable in one of the following ways and launch the CosmosScope Installer program:

- `setenv IATEMPDIR /home/my_user_name/tmp` or
- `export IATEMPDIR=/home/my_user_name/tmp` or
- change the Windows system environmental variable %TEMP%.

Installing the Software from EST or a CD

Ensure to close any open CosmosScope applications before proceeding with the installation.

Following are the types of installation:

- [Installing for the First Time](#)
- [Cancelling Installation](#)

Installing for the First Time

Perform the following steps to install the CosmosScope software:

1. You can install the CosmosScope software in one of the two ways:

If you are installing from...	then...
EST	Download the CosmosScope release to a temporary directory. You can obtain the latest CosmosScope download instructions from the Release Library, which is accessible through SolvNet. Double click the installer. The CosmosScope installer automatically pre-installs the required software. If the pre-install software already exists, the installer continues with installing CosmosScope. Proceed with Step 3 of this procedure.
a CD	Proceed with Step 2 of this procedure

Note:

On Windows platform, CosmosScope requires Microsoft Visual C++ 2008 Redistributable - x86 9.0.30729 software.

Installing CosmosScope

Installing the Software from EST or a CD

2. Place the CD in the CD drive. The following events takes place depending on the platform on which you want to install the software:

Solaris or Linux	Windows
<p>Most Solaris and Linux systems will automatically mount the CD. If the CD does not mount, see Installing Synopsys Tools.</p> <p>Execute the following commands to invoke the CosmosScope installer:</p> <pre>%/cdrom/ cosmosscope_version_platform</pre> <p>Or</p> <pre>% cd your_cd_path; ./ cosmosscope_version_platform</pre>	<p>The installation program should start automatically. If it does not, double-click the setup.exe executable file, located at the root level of the CD.</p> <p>The CosmosScope installer automatically pre-installs the required software. If the pre-install software already exists, the installer continues with installing CosmosScope.</p>

Note:

Mounting the CD might require system administrator privileges.

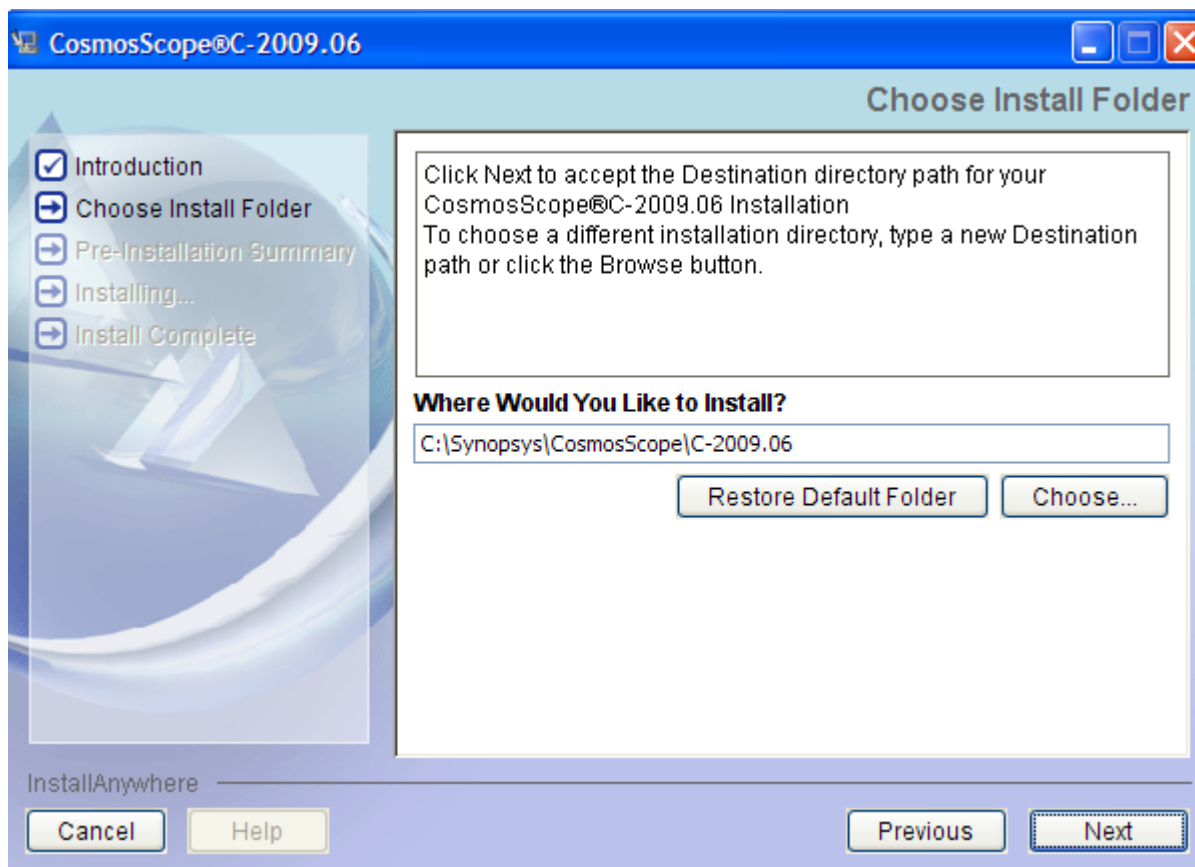
3. The CosmosScope Installer window is launched and the Introduction screen is displayed:



Installing CosmosScope

Installing the Software from EST or a CD

4. Click Next to choose the installation folder. The Choose Install Folder screen is displayed:



The default installation location is automatically resolved and displayed. You can choose to install the software at a different location other than the default location by clicking the Choose button.

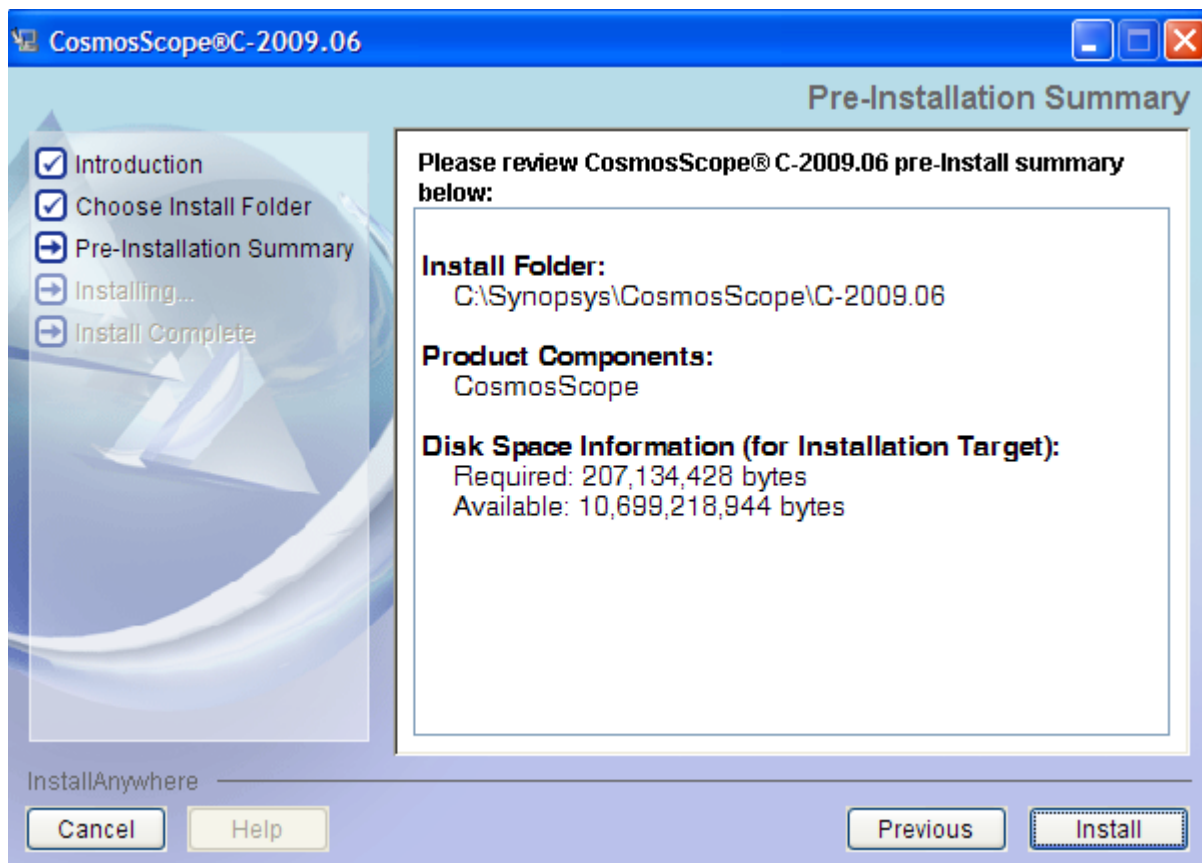
Note:

Ensure that you have write permissions to the specified installation location.

The table below describes the default installation locations on different platforms:

Platform	Default install location
Windows	C:\Synopsys\CosmosScope\C-2009.06
Solaris	/opt/Synopsys/CosmosScope/C-2009.06
Linux	/opt/Synopsys/CosmosScope/C-2009.06

5. Click Next to view the pre-installation summary. The Pre-Install Summary screen is displayed:



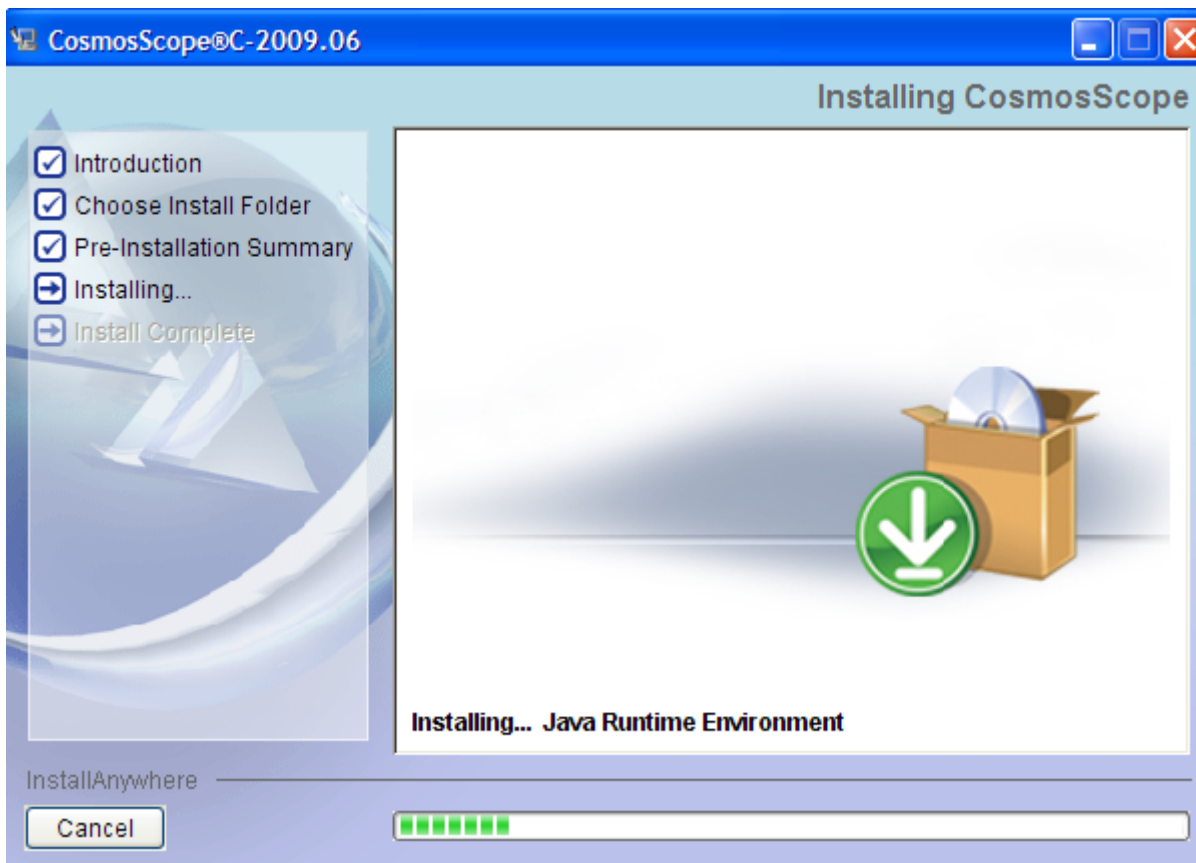
Installing CosmosScope

Installing the Software from EST or a CD

This screen summarizes the information collected and evaluated prior to the installation. The following table describes the summary in GUI mode:

Prep-Install Summary	GUI mode
Install Folder	X
Product Components	X
Disk Space	X

6. Click install to initiate the installation process. The Installing CosmosScope screen is displayed:



Following events occur during the installation process:

- Creates an install log file that records the install results. The log file is used to trace any installation errors

- Installs Java Runtime Environment (JRE) to prepare the install environment
 - Installs features according to user choice
 - Creates desktop icons (Windows only)
 - Imports registry information into windows registry (Windows only)
7. When the installation is complete, the View Release Notes dialog box is displayed. Click Yes to view the release notes else click No to close the dialog box.
 8. Click Done to exit the CosmosScope Installer program.

Note:

If the installation fails, please refer to the install log file in the root of the installation location to fix the problem.

Cancelling Installation

The following actions are taken when you cancel an in-progress installation:

Case	When you click the Cancel button...	then the installation is cancelled...
1	before the pre-request installation starts	and any files and folders upto the point of cancellation are placed in the temporary directory. The uninstall program removes all files and folders created during the cancelled installation.
2	during the pre-request installation	and any files and folders upto the point of cancellation are placed in the install directory. Navigate to the <installation_path>/_Pre_Install/ directory and click the uninstall.exe. The uninstall program removes all files and folders created during the cancelled installation.

Installing CosmosScope

Installing the Software from Command Line Using Silent Mode

Case	When you click the Cancel button...	then the installation is cancelled...
3	before CosmosScope installation starts	Same as Case 1.
4	during CosmosScope installation	and any files and folders upto the point of cancellation are placed in the install directory. Navigate to the <installation_path>/CosmosScope/ directory and click the uninstall.exe. The uninstall program removes all files and folders created during the cancelled installation.

Installing the Software from Command Line Using Silent Mode

You can install CosmosScope from command line on Solaris and Linux platforms by using the `setup` script command and on Windows platforms by invoking the `setup.exe` installation program in silent mode.

By default, the CosmosScope installer invokes the GUI installation program on all platforms. You can choose to install the software in a non-interactive mode (silent mode).

Silent mode is available for Solaris, Linux, and Windows systems.

Silent Mode Installation

Suppresses all interactive and graphic output. You can choose to install CosmosScope using one of the following options:

- [Using Default Settings](#)
- [Using a Single Command](#)
- [Using an install.properties File](#)

Using Default Settings

Execute the following command to install CosmosScope using the default settings:

Platform	Command
Unix / Linux	<code>CosmosScope <version>_linux.bin - i silent</code>
Windows	<code>CosmosScope <version>_win.exe - i silent</code> CosmosScope is installed in the default directory, <code>C:\Synopsys\CosmosScope\<version></code>

Using a Single Command

Execute the following command on a single line to install CosmosScope using custom settings.

Platform	Command
Unix / Linux	<p><code>CosmosScope_C-2009.06_linux.bin -i SILENT - DUSER_INSTALL_DIR=<installation_path></code></p> <p>Where:</p> <ul style="list-style-type: none"> ▪ <code>-DUSER_INSTALL_DIR</code> - Specifies the installation path. <p>Use the forward slash (/) as the delimiter while specifying the installation path and the component source folder path. For example: <code>/remote/us03ops/clients/CosmosScope</code></p>
Windows	<p><code>CosmosScope_C-2009.06_win.exe -i SILENT - DUSER_INSTALL_DIR=<installation_path></code></p> <p>Where</p> <ul style="list-style-type: none"> ▪ <code>-DUSER_INSTALL_DIR</code> - Specifies the installation path. <p>Use the double backward slash (\\) as the delimiter while specifying the installation path and the component source folder path. For example: <code>C:\\Synopsys\\CosmosScope</code></p>

Installing CosmosScope

Installing the Software from Command Line Using Silent Mode

Using an install.properties File

Define a custom `.properties` file as an input to the command as follows:

Platform	Command
Unix / Linux	<pre>CosmosScope_<version>_linux.bin - i silent -f <path_to_properties_file></pre> <p>Properties file format:</p> <pre>INSTALLER_UI=silent USER_INSTALL_DIR=<installation_path></pre> <p>Where:</p> <ul style="list-style-type: none">▪ <code>INSTALLER_UI=silent</code> - Specifies the mode for the installer.▪ <code>USER_INSTALL_DIR</code> - Specifies the installation path. <p>Note:</p> <p>Use the forward slash (/) as the delimiter while specifying the installation path and the component source folder path.</p> <p>For example: <code>/remote/us03ops/clients/CosmosScope</code></p>
Windows	<pre>CosmosScope_<version>_win.exe - i silent -f <path_to_properties_file></pre> <p>Properties file format:</p> <pre>INSTALLER_UI=silent USER_INSTALL_DIR=<installation_path></pre> <p>Where:</p> <ul style="list-style-type: none">▪ <code>INSTALLER_UI=silent</code> - Specifies the mode for the installer.▪ <code>USER_INSTALL_DIR</code> - Specifies the installation path. <p>Use the double backward slash (\\) as the delimiter while specifying the installation path and the component source folder path.</p> <p>For example: <code>C:\\Synopsys\\CosmosScope</code></p>

Invoking CosmosScope on Windows

CosmosScope requires only a single license daemon, `snpslmd`. For additional information, see [Installing Synopsys Tools](#).

To run CosmosScope on Windows platforms,

1. Check that your `SNPSLMD_LICENSE_FILE` or `LM_LICENSE_FILE` variable is set to a valid licensing server. If licenses are not available CosmosScope will not start when invoked.

The port and host name variables correspond to the TCP port and license server host name specified in the `SERVER` line of the Synopsys license file.

Each license file can contain licenses for many packages from multiple vendors. You can specify multiple license files by separating each entry with a semicolon (;).

2. Start the tool by going to Start > Programs > Synopsys > CosmosScope *version* > CosmosScope Simulator. The CosmosScope window opens.
3. To exit CosmosScope, choose File > Exit.

Invoking CosmosScope on Solaris and Linux

To invoke CosmosScope, you need to setup the user environment by specifying the location of the executable files and set the license environment variable. The directory containing the executable commands is located within the `ai_bin` directory in the `install_home` installation root.

Perform the following steps to invoke and verify the CosmosScope installation:

1. Add the executable file to the path.

If you are using the...	then include the following line...	in the...
C Shell	<code>setenv PATH install_home/ ai_bin:\$PATH</code>	<code>.cshrc</code> file
Bourne, Korn, or Bash shell,	<code>PATH=install_home/ai_bin:\$PATH export \$PATH</code>	<code>.profile</code> , <code>.kshrc</code> , or <code>.bashrc</code> file:

Installing CosmosScope

Uninstalling the Software

2. Install the latest SCL and define the `SNPSLMD_LICENSE_FILE` or `LM_LICENSE_FILE` environment variables before you can verify the CosmosScope installation.

For information about downloading and installing SCL and on setting the license variable, see [Installing Synopsys Tools](#).

3. Navigate to your home directory using the following command.

```
% cd $HOME
```

4. Invoke the software by executing the following command.

To invoke...	type...
CosmosScope	% scope
CosmosScope Book	% saberbook

If CosmosScope is correctly installed, this command invokes the tool.

Uninstalling the Software

The Uninstall program removes all files and folders created through the install process.

Note:

Files and folders created by you in the installation directory is not considered for removal by the CosmosScope Uninstall program.

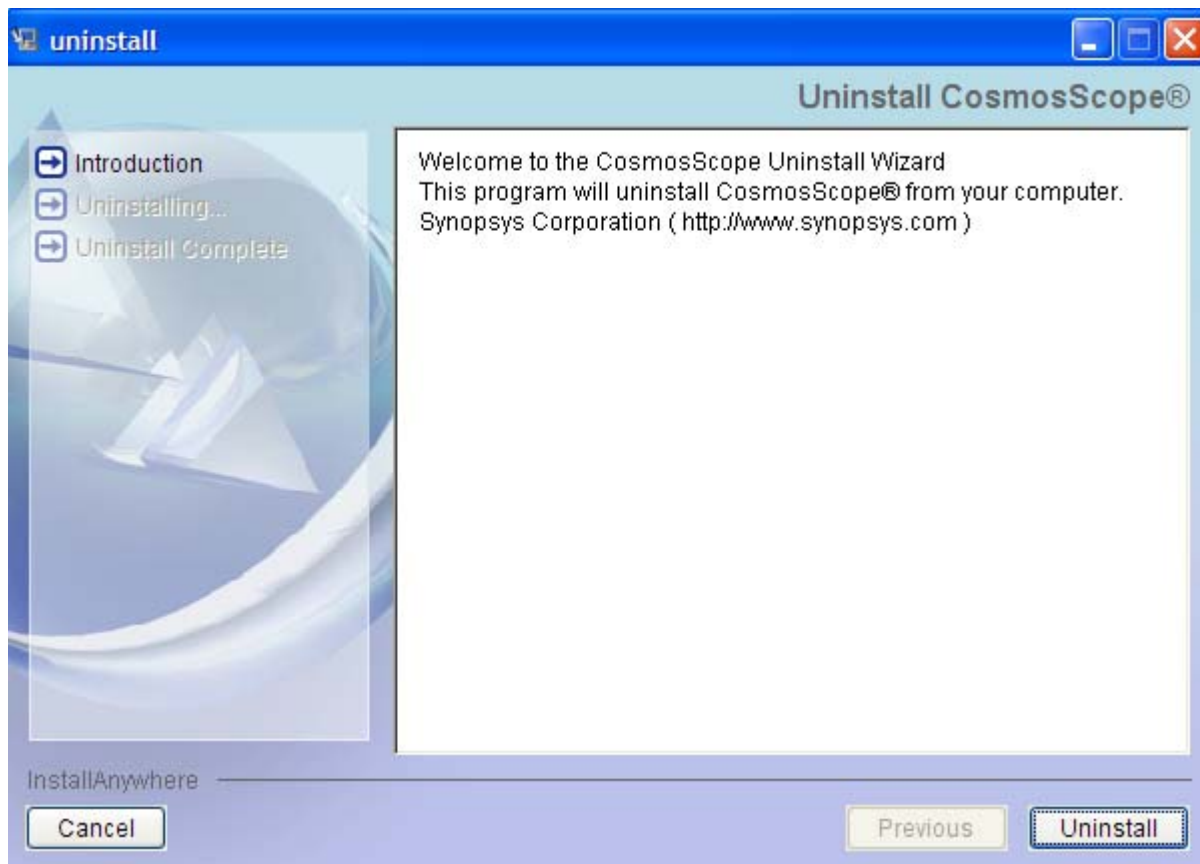
Perform the following steps to uninstall CosmosScope:

1. See the table below for information on uninstalling CosmosScope on a specific platform:

To uninstall CosmosScope on...	choose one of the following option...
Solaris / Linux platform	<ul style="list-style-type: none">▪ Execute the uninstall program, which is located in the <code><Install_home>/CosmosScope</code> directory. The uninstall program is launched as show in the next step.▪ Delete the entire software directory.

To uninstall CosmosScope on...	choose one of the following option...
Windows platform	<ul style="list-style-type: none">▪ Execute the uninstall program, which is located in the <i><Install_home>/_CosmosScope</i> directory. The uninstall program is launched as show in the next step.▪ From the Control Panel, select “Add or Remove Programs”, select the version of CosmosScope you want to uninstall and click the Change/Remove button. The uninstall program is launched as show in the next step.▪ Choose Start > Programs > Synopsys > CosmosScope version > uninstall. The uninstall program is launched as show in the next step.

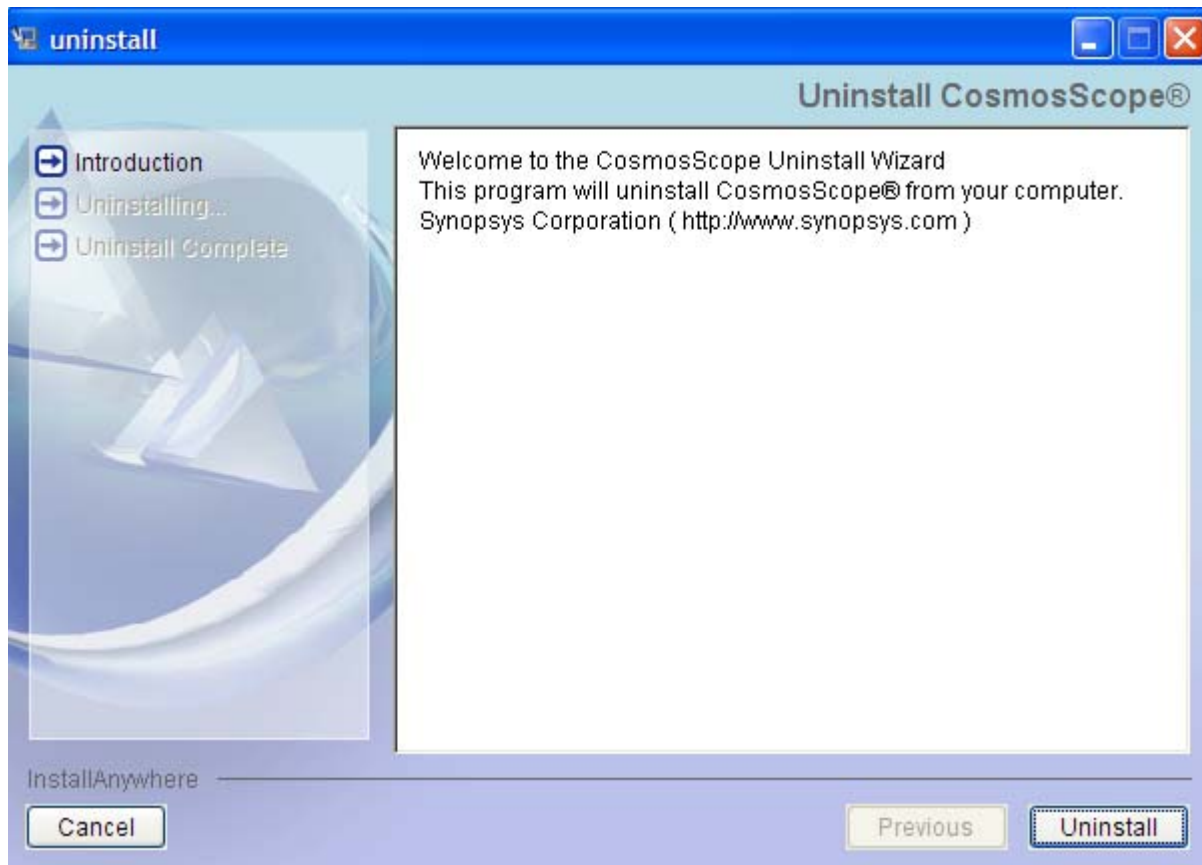
2. The Uninstall CosmosScope screen is displayed:



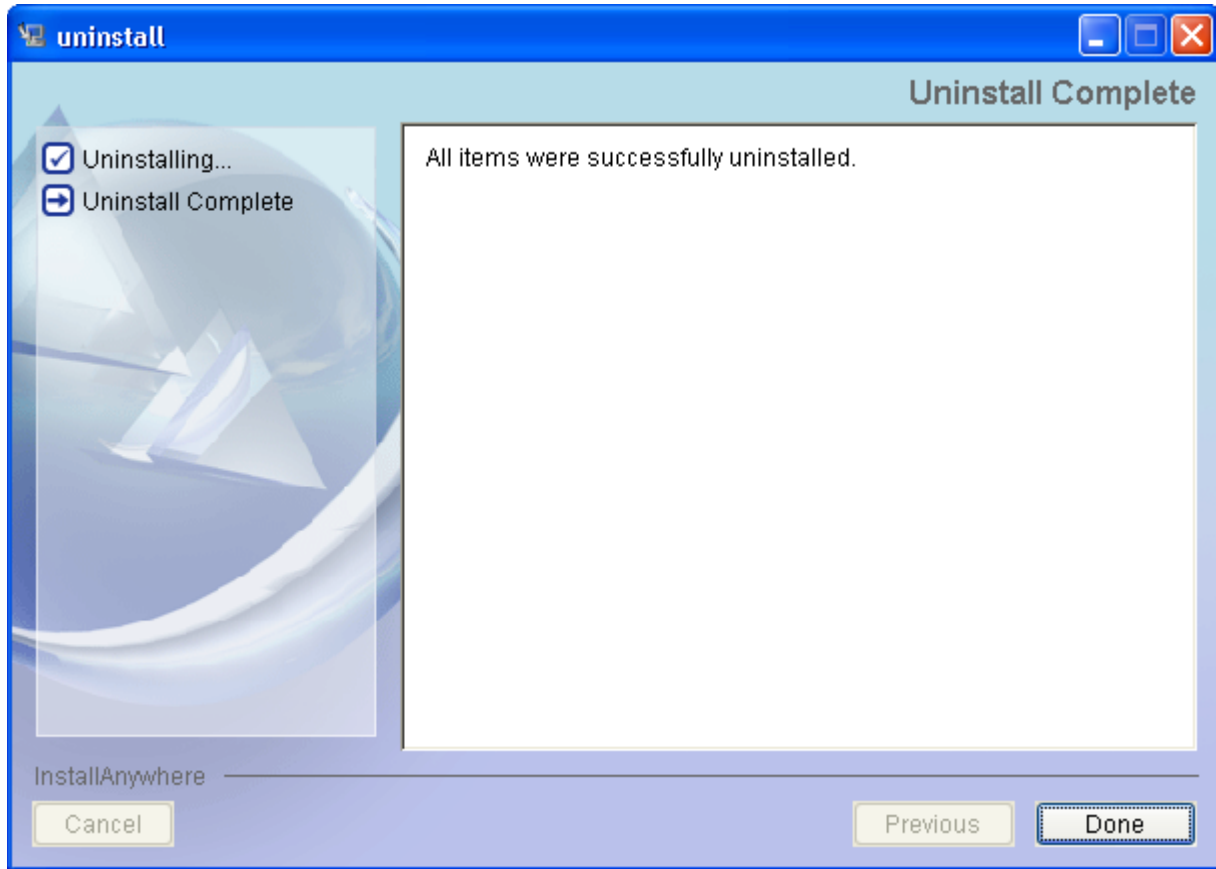
Installing CosmosScope

Uninstalling the Software

3. Click the Uninstall button to start uninstalling CosmosScope. The Uninstall CosmosScope screen displays the uninstall progress:



4. Once the uninstall is complete, the Uninstall Complete screen is displayed:



5. Click Done to exit the Uninstall CosmosScope program.

Accessing CosmosScope Documentation

The documentation for CosmosScope is available as PDF files or as online help.

Viewing and Printing CosmosScope Documentation in Portable Document Format

To view and print CosmosScope documentation in PDF, you must have Adobe Acrobat Reader installed on your machine.

Viewing CosmosScope Online Help

The online Help system is a browser-based HTML Help system.

To view a Help system, Synopsys recommends the following minimum revisions web browsers on the Synopsys-supported platforms (later versions should also work):

Platform	Operating Systems	Supported Browsers
SunSPARC Solaris 32- and 64-bit	Solaris 9 or 10 ¹	Firefox 1.5, 2.0 Mozilla 1.7
X86 (IA-32) 32-bit and Linux 32-bit	RedHat Enterprise Linux 4 or 5 SUSE Linux Enterprise Server 9 or 10	Firefox 1.5, 2.0, 3.0 ² Mozilla 1.7 Netscape Navigator 7.0
X86_64 Linux 64-bit	Red Hat Enterprise Linux 4 or 5 SUSE Linux Enterprise Server 9 or 10	Firefox 1.5, 2.0, 3.0 ² Mozilla 1.7 Netscape Navigator 7.0
X86 Windows XP Professional	Windows XP Professional v2002	Firefox 1.5, 2.0, 3.0 ³ Internet Explorer 6.0 Mozilla 1.7 Netscape Navigator 7.0

1. Synopsys does not recommend using Netscape Navigator to view Help on Solaris.
2. Synopsys recommends using Firefox 3.0 builds 2008052912 or later on Linux.
3. Synopsys recommends using Firefox 3.0 builds 2008052906 or later on Windows.

The following sections describe:

- [How to Set a Default Browser on Windows](#)
- [How to Set a Default Browser on UNIX or Linux](#)
- [Setting MIME Types to View PDFs from Help](#)

How to Set a Default Browser on Windows

On Windows, Help opens the browser associated with `.html` files (typically Internet Explorer).

To use a browser other than Internet Explorer on Windows:

1. Open the browser that you want to use.
2. Open the Add or Remove Programs applet (available from the Control Panel).
3. Choose Set Program Access and Defaults.
4. Select Custom and click the down arrow to display the custom menu.
5. Choose “Use my current Web browser” and click OK.

Result: The next time you click Help, the Help content will appear in your selected default browser.

How to Set a Default Browser on UNIX or Linux

The Help system finds HTML browsers on UNIX or Linux by searching for browsers in this order: Netscape and Mozilla. It searches for these browsers in the following locations:

1. It first searches in the directories listed in your `$PATH` environment variable for the following executables in the following order:

```
netscape6  
netscape  
mozilla
```

2. If Help doesn't find these executables in your `$PATH`, it searches first for `netscape6`, then `netscape`, then `mozilla`, in the following customary locations:

```
/opt/browser/  
/usr/local/bin/  
/usr/local/browser/  
/usr/bin/browser
```

Installing CosmosScope

Accessing CosmosScope Documentation

To use a browser other than those listed above on UNIX or Linux, there are two methods you can use.

Method A: Open the browser you want to use first:

1. Before you use Help, open the browser you want to use, such as Firefox.
2. Then start Help from your Synopsys application.

The Help document will open in the currently opened browser.

Method B: Link the executable you want to use to one of the executables (netscape or mozilla) used by Help by default:

- For example, assume that you want to use your Firefox browser executable instead of Mozilla, and that both executables are located in /usr/bin. Make a symbolic link from the firefox executable to mozilla as follows:

```
cd /usr/bin
ln -s firefox mozilla
```

This will cause Help to start Firefox in place of Mozilla when Help is called.

Note:

If you make this change, all users on this system will start Firefox instead of Mozilla on this server, in any context.

Setting MIME Types to View PDFs from Help

Online Help includes PDF versions of the documents, for use in printing. In order for links from the Help to the PDF to work, you must set an association in your browser for MIME type "application/pdf" with an appropriate PDF viewer for your platform. See the documentation for your particular browser for specific instructions on creating MIME-type associations.

Customer Support

Customer support is available through SolvNet online customer support and through contacting the Synopsys Technical Support Center.

Accessing SolvNet

SolvNet includes an electronic knowledge base of technical articles and answers to frequently asked questions about Synopsys tools. SolvNet also gives you access to a wide range of Synopsys online services, which include downloading software, viewing Documentation on the Web, and entering a call to the Support Center

To access SolvNet:

1. Go to the SolvNet Web page at <http://solvnet.synopsys.com>.
2. If prompted, enter your user name and password. (If you do not have a Synopsys user name and password, follow the instructions to register with SolvNet.)

If you need help using SolvNet, click Help on the SolvNet menu bar.

Contacting the Synopsys Technical Support Center

If you have problems, questions, or suggestions, you can contact the Synopsys Technical Support Center in the following ways:

1. Open a call to your local support center from the Web by going to <http://solvnet.synopsys.com/EnterACall> (Synopsys user name and password required).
2. Telephone your local support center.
 - North America
Toll: 800-245-8005, or send an e-mail message to saber-hotline@synopsys.com

Installing CosmosScope
Customer Support

- Europe
 - Central Europe: +49-89-99320-0
 - Northern Europe:
 - Scandinavia: +46 8 555 202 20
 - United Kingdom: +44 (0) 1189 965 1186
 - Southern Europe:
 - France: +33 (0) 810 810903
 - Italy: +39 039 6846 700
 - Israel: +972-9-9719600
- Asia-Pacific:
 - China: +8610-68029992
 - India: 1-800-102-7677
 - Korea: +82-2-3404-2700
 - Singapore: +65-62967433
 - Taiwan: 0800079595
 - Japan: 03-5746-1117