

SpiceExplorer and WaveView Analyzer Installation Guide

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SpiceExplorer and WaveView Analyzer Installation Guide, A-2008.03

Installing SpiceExplorer and WaveView Analyzer

This document describes how to install the SpiceExplorer and WaveView Analyzer product.

Note:

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 the product release notes or documentation.

This document provides instructions for the UNIX, Linux, and Windows platforms. The document includes the following sections:

- [Preparing for Installation](#)
- [Installing SpiceExplorer and WaveView Analyzer \(UNIX and Windows\)](#)
- [Invoking SpiceExplorer and WaveView Analyzer on Windows](#)
- [Installing the SX-CDS Link Package](#)
- [Installing the SX-DAIC Link Package](#)
- [Installing the SX-VSDE Link Package](#)
- [Viewing and Printing SpiceExplorer and WaveView Analyzer Documentation in Portable Document Format \(PDF\)](#)
- [Troubleshooting SpiceExplorer and WaveView Analyzer Installation on Solaris Platforms](#)
- [Uninstalling SpiceExplorer and WaveView Analyzer](#)
- [Customer Support](#)

Important:

Do not install later versions of the SpiceExplorer and WaveView Analyzer tools over earlier versions of the tools.

Preparing for Installation

Before beginning the installation process, read the *SpiceExplorer and WaveView Analyzer Release Notes*. The release notes are in Portable Document Format (PDF) and are located in the electronic software transfer (EST) download directory. They require a PDF file reader to view and print them. Check for the following information:

- Changes in licensing requirements
- Changes in memory requirements
- The operating system versions on which the software is supported
- Changes made from prior releases

If you have not already done so, retrieve your license keys from the SmartKeys Web page at <http://solvnet.synopsys.com/smartkeys>.

For detailed licensing information, see the Synopsys Licensing QuickStart Guide Web page at <http://www.synopsys.com/keys>.

UNIX: Root or administration privileges are not required.

Windows: Administration privileges are required for installing and uninstalling the tool. To ensure a successful installation, confirm that previous releases have been uninstalled (see *Installing Synopsys Tools*, available at <http://www.synopsys.com/install/>). If licensing will be installed with this installation, you must stop any existing license servers (Imgrd or avantd), then uninstall licensing. To stop the avantd FLEXIm license server or FLEXIm license server, choose **Administrative Tools > Services** from the Control Panel.

Supported Platforms and Compilers

SpiceExplorer and WaveView Analyzer is available on CD or by EST. Obtain the appropriate binary executable files for your operating system. Table 1 lists the supported platforms for this release.

Table 1 Supported Platforms, Operating Systems, and Keywords

Platform	Operating system	Synopsys platform keyword	Window environment
HP PA-RISC 2.0	HP-UX 11.0	hp32 (32-bit mode) hp64 (64-bit mode)	CDE
Sun SPARC	Solaris 9 (32-bit and 64-bit)	sparcOS5	CDE
IA-32 (X86) AMD Opteron (64-bit)	Red Hat Enterprise Linux v3, 4	linux (32-bit mode) linux (64-bit mode)	GNOME
IA-32 (X86)	XP Professional v2002	winXP	
IA-32 (X86)	Windows 2000/ME/NT	win2000, winme, winnt	
IA-32 (X86)	Windows 95/98	win95, win98	

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 all SpiceExplorer and WaveView Analyzer features on a particular platform. Each CD also includes this information in the top-level INSTALL_README.wri file.

Table 2 Disk Space and Memory Requirements (in Megabytes)

Platform	Software (maximum)	Default temporary directory location	Temporary disk space from CD	Temporary disk space from EST
HP-UX	83	/var/tmp	83	83
Solaris	83	/var/tmp	83	83
Linux	83	/tmp	83	83
Windows	12	%TEMP% or C:\My Documents\temp	12	12

Installing SpiceExplorer and WaveView Analyzer

Installing SpiceExplorer and WaveView Analyzer (UNIX and Windows)

Installing SpiceExplorer and WaveView Analyzer (UNIX and Windows)

WaveView Analyzer is released as part of Synopsys SpiceExplorer product suite. The license key determines if the application can be started in the "full SpiceExplorer" mode, the "WaveView Analyzer only" mode, or both. The default startup mode can be configured in the Preference Settings.

You can install SpiceExplorer and WaveView Analyzer version A-2008.03 by using a GUI or by using text commands. By default, the SpiceExplorer and WaveView Analyzer installer invokes the installation GUI. To install SpiceExplorer and WaveView Analyzer by using text commands, see [Installing Synopsys Tools](#).

Installing SpiceExplorer and WaveView Analyzer by EST

Download the SpiceExplorer and WaveView Analyzer release to any directory. You can obtain the latest SpiceExplorer and WaveView Analyzer download instructions from the SolvNet Release Library.

The UNIX version of WaveView Analyzer is distributed in a compressed tar file, which can be installed in any directory. Root (administrator) permission is not required.

To install the software on UNIX systems:

1. Ensure your environment has the needed Tcl/Perl/Java runtime libraries already installed.

If you do not have these libraries installed, download the `sx_common.tar.gz` file. You can untar the `sx_common.tar.gz` file at a disk location independent from the release directory. Set the `SW_SX_COMMON` environment variable to the `sx_common` root directory.
2. Extract the tar file into a directory (the installation directory). Make sure that the installation directory has proper read permission to the end users. The distribution tar file is named `sx_rev.tar.gz`, where `rev` is the revision code.
3. Enter `gunzip sx_rev.tar.gz` to uncompress the tar file.
4. Enter `tar xvf sx_rev.tar` to extract the release directory `sx_rev` from the tar file.
5. Enter `rm sx_rev.tar` to remove the tar file.
6. Append `installation_directory/sx_rev/bin` to the search path in your shell init file (for example, `.cshrc` for C-shell).

Installing SpiceExplorer and WaveView Analyzer

Installing SpiceExplorer and WaveView Analyzer (UNIX and Windows)

For example, the Solaris release directory contains the following files and directories:

File or Directory	Description
LICENSE	License agreement
bin/	SpiceExplorer/WaveView Analyzer wrapper script
doc/	Documentation
etc/	
include/	Header file and examples for the WDF writer
syntax/	Syntax rules for VIM editors
packages/	
SX-CDS-Link/	CDS-Link package
SX-DAIC-Link/	DAIC-Link package
SX-VSDE-Link/	VSDE-link package
platforms/sun4_u5/	
bin/	32-bit SpiceExplorer executables
lib/	32-bit NanoSim/VPI/WDF-writer libraries
lic/	32-bit Flexlm license management tools
platforms/sun4_u5_64/	
bin/	64-bit SpiceExplorer executables
lib/	64-bit NanoSim/VPI/WDF-writer libraries
lic/	64-bit Flexlm license management tools

The MS Windows version of WaveView Analyzer is distributed in a self-extracting executable file. To install the software on Windows systems, download the file to your PC, and double click the file icon to activate the automated installation sequence.

Installing SpiceExplorer and WaveView Analyzer

Setting Up Licenses

The automated installation sequence adds WaveView Analyzer entries to the Windows **Start** menu and a shortcut to WaveView Analyzer on the Windows Desktop. Double click the shortcut, or select the **SpiceExplorer** entry from the **Start** menu to launch a WaveView Analyzer job.

Installing SpiceExplorer and WaveView Analyzer from a CD

Mounting the CD might require root access privileges. If you do not have root access privileges, see your system administrator for instructions on mounting the CD. For detailed instructions, see [Installing Synopsys Tools](#).

Setting Up Licenses

WaveView Analyzer uses Flexlm for license management. If you receive an uncounted node-locked evaluation or demo license, no license server needs to be started.

UNIX Platforms: To install an uncounted node-locked evaluation license, append the full path of the license file (including the license file name) to the environment variable `LM_LICENSE_FILE`.

Windows Platforms: To install an uncounted node-locked evaluation license, start the WaveView Analyzer application. Select the **Specify the License File** option, and follow the automated steps to setup the license file. You need to do this only once when you start WaveView Analyzer for the first time.

To install a production or floating license, you need to start the license server by entering the following line:

```
lmgrd -c license.dat
```

The `lmgrd` license server automatically invokes the `sandwork` vendor daemon. Make sure the path to the `sandwork` vendor daemon is appended to the `VENDOR` line in your license file. You can find `lmgrd` and `sandwork` in the `bin/` directory for different platforms. Please consult your system administrator to install the floating license. A copy of Flexlm end user's manual is included in the `doc/` directory. An online user's manual is also available at <http://www.macrovision.com/>.

Invoking SpiceExplorer and WaveView Analyzer on Windows

To invoke SpiceExplorer and WaveView Analyzer on Windows platforms,

1. Start the tool by choosing **Start > Programs > SpiceExplorer *version number***. The SpiceExplorer window opens.
2. To check the product version, choose **Help > About SpiceExplorer**.
3. To exit SpiceExplorer, choose **File > Exit**.

Installing the SX-CDS Link Package

The SX-CDS Link package requires the "sx_cdslink" license from Synopsys. The post-layout cross-probing functions require the "sx_cdslink_ext" license.

The SX-CDS Link package consists of the following files.

- `sx_link.ile`: the encrypted SX-CDS Link SKILL module.
- `sx_menu.il`: the SKILL module for SX-CDS tool menu.
- `sx_user.il`: the user-customizable SKILL module.
- `schematic.menus`: the menu file for the Composer integration.
- `simui.menus`: the menu file for the Virtuoso ADE integration.

Synopsys SX-CDS Link supports schematic to viewer cross probing in two different Cadence schematic entry environments:

1. Virtuoso Analog Environment mode: also referred to as the Analog Artist mode involving integrated ADE window, Parametric analysis window, Composer, calculator and waveform viewer.
2. Composer-only mode: The user uses only the Composer schematic entry tool without the ADE environment. If the Cadence "SE" (Simulation Environment) is available, simulation jobs can be launched from the simulator menu in Composer. If the "SE" option is not available, users usually run simulation manually in an outside shell window.

Installing SpiceExplorer and WaveView Analyzer

Installing the SX-CDS Link Package

Depending on your Cadence working environment, the SX-CDS Link package can be installed using two different methods. The following table summarizes the needed components for each installation method.

Table 3 SX-CDS Link Installation Components

	Method 1: Trigger Function		Method 2: Menu File	
	Composer	ADE Mode	Composer	ADE Mode
sx_link.ile	X	X	X	X
sx_menu.il	X	X		
sx_user.il	optional	not needed	optional	not needed
simui.menus				X
schematic.menus			X	

Installation Method 1: User Trigger Function

This is the preferred installation method for SX-CDS Link. The following files from the SX-CDS Link package: sx_link.ile, sx_menu.il, and sx_user.il are required. The sx_user.il SKILL file is required only if you want to customize the SX-CDS Link for the Cadence SE integration. The two menu files, schematic.menus and simui.menus, are not required.

Advantage: No root authority is needed to install the package. A single installation works for both the "Virtuoso ADE" and the "Composer-only" mode. SX-CDS Link tool menu is automatically updated when users switch between the "Virtuoso ADE" and the "Composer-only" mode.

Disadvantage: The SX-CDS Link tool menu always appears in the Composer schematic window. The menu cannot be inserted into the top tool menu of the "Artist Design Environment (ADE)" window. If you prefer to add the SX-CDS menu to the ADE window, you will have to install SX-CDS Link using the menu file simui.menus. (See the next section)

Follow the steps below to install the SX-CDS Link package:

1. Add the following `load` commands to your `.cdsinit` file:

```
load("/path_to/sx_link.ile" "sandwork")
load("/path_to/sx_menu.il")
load("/path_to/sx_user.il")
```

The `.cdsinit` file is usually located in your home directory. If the `.cdsinit` file also exists in the working directory, the settings override those in the `.cdsinit` file in the your home directory. Use absolute paths to load the SX-CDS SKILL modules into `.cdsinit`.

2. Enter `which sx` in a shell window to verify that `sx` is located in your search path. If `sx` cannot be found in your search path, you need to append the path to the `sx` executable in the `path` (or `PATH`) variable in your shell init file. For example:

```
set path=($path /directory_path_to_sx )
```

3. If you have already used the SKILL user trigger function to customize the menu for other applications in the Cadence Composer schematic entry tool, you might need to manually merge the SX-CDS trigger functions with your existing user trigger functions. The user trigger registration functions for SX-CDS Link can be found in the `sx_menu.il` text SKILL module.

Installation Method 2: Menu Files

This method requires the use the `schematic.menus` and `simui.menus` menu files to add the SX-CDS Link tool menu to the Cadence tools. The `sx_link.ile` SKILL module (and `sx_user.il` module, if you want to customize the SX-CDS Link for SE integration), are also required. The `sx_menu.il` SKILL module is not required.

Note:

The two menu files cannot co-exist in the menu file directory. You can only select one menu file to install: either `schematic.menus` or `simui.menus`.

Advantage: The SX-CDS Link menu can be inserted into the top menu bar of the ADE window in the "Virtuoso ADE" mode.

Disadvantages: The "Composer-only" and the "Virtuoso ADE" mode cannot co-exist in one DFII environment. Users need re-installation to switch between the "Composer-only" and the "Virtuoso ADE" mode. Root authority is usually needed if the menu file is to be installed in the public Cadence tool directory.

Composer-Only Mode

To install the SX-CDS Link package for the Composer-only mode:

1. Add the following line to your `.cdsinit` file:

```
load("/path_to/sx_link.ile" "sandwork")
```

2. Copy `schematic.menus` to the following directory:

```
$cadence_install_dir/dfII/local/menus
```

3. Enter `which sx` in a shell window to verify that `sx` is located in your search path. If `sx` cannot be found in your search path, you need to append the path to the `sx` executable in the `path` (or `PATH`) variable in your shell init file. For example:

```
set path=($path /directory_path_to_sx)
```

The `.cdsinit` file is usually located in your home directory. If `.cdsinit` also exists in the working directory, the settings override those in the `.cdsinit` file in the your home directory. Use absolute paths to load the SX-CDS SKILL modules into `.cdsinit`.

If you have an existing `schematic.menus` menu definition file under the `$cadence_install_dir/dfII/local/menus` directory, you might need to merge the content from the provided `schematic.menus` menu definition into the existing `schematic.menus` menu file.

To limit the installation to your private working environment without changing your Cadence site setup, move the `menus/schematic.menus` directory to your home directory. Create a directory named `menus` under your home directory if necessary.

SX-CDS link is developed based on DFII 4.4.6. Minor modifications of `schematic.menus` might be required for integration into earlier versions of DFII. For example, the Composer program in DFII version 4.4.3 does have the **Option** top menu entry. As a result, the `schSOOptionPulldown` entry that is near the end of `schematic.menus` needs to be commented out with leading semi-colons (;).

Virtuoso ADE Mode

To install the SX-CDS Link package for the Virtuoso ADE mode:

1. Add the following line to your `.cdsinit` file:

```
load("/path_to/sx_link.file" "sandwork")
```

2. Copy `simui.menus` to the following directory:

```
$cadence_install_dir/dfII/local/menus
```

3. Enter `which sx` in a shell window to verify that `sx` is located in your search path. If `sx` cannot be found in your search path, you need to append the path to the `sx` executable in the path (or `PATH`) variable in your shell init file. For example:

```
set path=($path /directory_path_to_sx)
```

The `.cdsinit` file is usually located in your home directory. If `.cdsinit` also exists in the working directory, the settings override those in the `.cdsinit` file in the your home directory. Use absolute paths to load the SX-CDS SKILL modules into `.cdsinit`.

If you have an existing `simui.menus` menu definition file under the `$cadence_install_dir/dfII/local/menus/` directory, you might need to merge the content from the provided `simui.menus` menu definition into the existing `simui.menus` menu file.

To limit the installation to your own working environment without changing your Cadence site setup, move `menus/simui.menus` to your home directory. Create the `menus` directory under your home directory if necessary.

Special Note for IC5141 USR3 (or later) Users

In the Cadence IC5141 USR3 release, the default output format of Spectre and `spectreVerilog` was changed from PSF/WSF to SST2. Since WaveView Analyzer does not support the Cadence SST2 format, the following configuration is required to restore the default format to PSF:

- Spectre: Add the following line to your `$HOME/.cdsenv` file:

```
spectre.envOpts simOutputFormat string "psfbin"
```
- UltraSim: From the ADE window go to [Simulation - Options - Analog] and select PSF as the output format.
- `spectreVerilog`: Add the following lines to your `$HOME/.cdsenv` file:

Installing SpiceExplorer and WaveView Analyzer

Installing the SX-DAIC Link Package

```
spectreVerilog.envOpts simOutputFormat string "psfbin"  
spectreVerilog.envOpts logicOutputFormat string "WSF"
```

- UltraSimVerilog: From the ADE window, choose **Simulation > Options > Analog**, and select PSF as the output format. Then, add the following line to your \$HOME/.cdsenv file:

```
UltraSimVerilog.envOpts logicOutputFormat string "WSF"
```

SX-CDS Link for AMS Designer

SX-CDS Link supports cross-probing in AMS Designer only with the Synopsys WDF format. The following line must be added to the \$HOME/.cdsenv file:

```
ams.envOpts simOutputFormat string "wdf"
```

When the WDF format is used with AMS Designer, the simulation results are stored in two files under the psf/ directory: (1) ams_database.vcd for logic waveforms from ncsim, and (2) tran.tran.wdf or amsControl.-1.wdf for analog waveforms from Spectre or UltraSim. SX-CDS link looks for these output files automatically if "ams" is selected as the simulator in Virtuoso.

Installing the SX-DAIC Link Package

The SX-DAIC Link package requires the "sx_daiclink" license.

The installation processes differ depending on the DAIC release version that you are using. Choose one of the following installation processes:

- [Installing SX-DAIC Link for DAIC Version 2002.2 and Earlier](#)
- [Installing SX-DAIC Link for DAIC Versions 2002.3 through 2003.4](#)
- [Installing SX-DAIC Link for DAIC Versions 2004.1 and Later](#)

Installing SX-DAIC Link for DAIC Version 2002.2 and Earlier

WaveView Analyzer utilizes AMPLE functions in schematic.ample to communicate with DAIC. The provided schematic.ample AMPLE module contains a modified version of the AMPLE functions from the original install tree, which is located here:

```
$MGC_HOME/shared/pkgsg/daicsim/userware/default/  
schematic.ample
```

If the same AMPLE functions are already modified in your setup, you need to manually merge the changes. Please refer to the comment or documentation in the provided schematic.ample file for details.

To install the SX-DAIC Link package:

1. Copy the WaveView Analyzer executable (sx) to the `$MGC_HOME/bin` directory. If you prefer to place the executable in a different location, please modify the initial value of the `sx_command_default` AMPLE variable in `schematic.ample`.
2. You can merge the provided `schematic.ample` into the following public file, or keep the provided `schematic.ample` file in a non-public directory (the user AMPLE directory):

```
$MGC_HOME/shared/pkgsg/daicsim/userware/default/  
schematic.ample
```

3. Modify the `AMPLE_PATH` variable to include the directory, and copy `schematic.ample` to `$AMPLE_PATH/da_ic`.

Installing SX-DAIC Link for DAIC Versions 2002.3 through 2003.4

WaveView Analyzer utilizes AMPLE functions in `schematic_sim.ample` and `daic_sim_mgr.ample` to communicate with DAIC. The provided `schematic_sim.ample` and `daic_sim_mgr.ample` AMPLE modules contain modified versions of the AMPLE functions necessary for the cross-probing integration. The original AMPLE modules are located in the install tree here:

```
$MGC_HOME/shared/pkgsg/da_ic/userware/default
```

If the same AMPLE functions are already modified in your setup, you need to manually merge the changes. Please refer to the comment or documentation in the AMPLE modules file for details.

To install the SX-DAIC Link package:

1. Copy the WaveView Analyzer executable (sx) to the `$MGC_HOME/bin` directory. If you prefer to place the executable in a different location, please modify the initial value of the `sx_command_default` AMPLE variable in `schematic_sim.ample`.
2. You can merge the provided AMPLE modules into the following public directory, or keep the provided modules in a non-public directory (the user AMPLE directory):

Installing SpiceExplorer and WaveView Analyzer

Installing the SX-VSDE Link Package

```
$MGC_HOME/shared/pkgs/da_ic/userware/default/
```

3. Modify the AMPLE_PATH variable to include the private AMPLE directory, and copy schematic_sim.ample and daic_sim_mgr.ample to \$AMPLE_PATH/da_ic.

Installing SX-DAIC Link for DAIC Versions 2004.1 and Later

The installation steps are the same as those for [Installing SX-DAIC Link for DAIC Versions 2002.3 through 2003.4](#), except that the daic_sim_mgr.ample.2004.1 and schematic_sim.ample.2004.1 AMPLE codes are used instead.

Installing the SX-VSDE Link Package

The SX-VSDE Link package requires the SpiceExplorer-Cadence Link "sx_cdslink" license.

To install the SX-VSDE package:

1. Copy the waveform.cfg file to the \$ACV_ROOT/admin directory. If waveform.cfg already exists in \$ACV_ROOT/admin, append the content from the included waveform.cfg file to the existing one.
2. Copy sx_run to the \$ACV_ROOT/bin directory.
3. Modify the path of the WaveView Analyzer executable in the sx_run file.

Viewing and Printing SpiceExplorer and WaveView Analyzer Documentation in Portable Document Format (PDF)

To view and print SpiceExplorer and WaveView Analyzer documentation in Portable Document Format (PDF), you must have Adobe Acrobat Reader installed on your machine. To determine which version of Adobe your operating system requires, see Table 4.

Table 4 shows which version of Adobe Reader you need to use with a particular release.

Table 4 Platform and Supported Version

Platform	Product documentation version	Adobe Reader version
HP-UX	A-2008.03 or later	Adobe Reader 5.0 or earlier
Linux	A-2008.03 or later	Adobe Reader 7.0
Sun SPARC (Solaris) ¹	A-2008.03 or later	Adobe Reader 7.0
Windows	A-2008.03 or later	Adobe Reader 6.0 or 7.0

1. On Solaris operating systems, the GNOME desktop manager must be installed to support Adobe Reader 7.0.

Troubleshooting SpiceExplorer and WaveView Analyzer Installation on Solaris Platforms

If you encounter the following error message while running SpiceExplorer:

```
ld.so.1: ./sx: fatal: libXm.so.3: can't open file: errno=2  
Killed
```

Append `/usr/dt/lib` to your `LD_LIBRARY_PATH` environment variable. For example:

```
setenv LD_LIBRARY_PATH /usr/dt/lib:$LD_LIBRARY_PATH
```

By default, the CDE window manager environment allows popup dialog windows to appear behind the main application window. This default setting can make it difficult to locate a dialog window that is hidden behind the main window. To change the default setting, choose **Style Manager > Window**, and deselect the "Allow Primary Windows On Top" option. The **Style Manager** can be started from the **Tools** menu.

Uninstalling SpiceExplorer and WaveView Analyzer

To uninstall SpiceExplorer and WaveView Analyzer on UNIX, delete the entire software installation directory.

To uninstall the SpiceExplorer and WaveView Analyzer on Windows, go to **My Computer > Control Panel > Add/Remove Programs**, select **SpiceExplorer** from the list, and click the **Add/Remove** button to uninstall.

The uninstall operation varies slightly on other Windows O/S (Windows 2000/XP/ME/NT). Please follow the standard application removal procedure in each Windows environment to remove SpiceExplorer.

Customer Support

For information about accessing customer support, see [Installing Synopsys Tools](#).