

Synopsys Common Licensing 1.1 Release Note

This release note presents the latest information about Synopsys Common Licensing (SCL) version 1.1 in the following sections:

- New Features, Enhancements, and Changes
- Known Problems and Limitations

New Features, Enhancements, and Changes

This section describes the new legacy application support feature and explains the changes in support of third-party licensing.

It includes the following subsections:

- Legacy Application Support
- SCL and Third-Party Licensing

Legacy Application Support

Version 1.1 of SCL introduces support for legacy applications that date back to August 1998. Legacy application support allows you to run Synopsys applications that used a Synopsys licensing system predating SCL with SCL. (That is, if you choose to install SCL 1.1 legacy application support, you can now run these applications with SCL.)

Applications released during this period (dating back to August 1998) can use SCL 1.1 to obtain licenses from the `snpslmd` daemon using the same SCL license key file used for non-legacy applications. SCL 1.1 achieves this functionality by using replacement legacy daemons instead of the original legacy daemons you may be running.

Table 1 identifies the replacement legacy daemons provided for the supported platforms. For specific product compatibility information, refer to the Synopsys Web page at www.synopsys.com/support/keys/nonclp.html.

Table 1 SCL 1.1 Legacy Application Support Replacement Legacy Daemons Matrix

Platforms	Replacement legacy daemons				
	synopsysd	EPIC	la_dmon	everest	ssilmd
sparcOS5	<i>Supported</i>	<i>Supported</i>	<i>Supported</i>	<i>Supported</i>	<i>Supported</i>
sparc64	<i>Supported</i>	<i>Supported</i>	<i>Supported</i>	<i>Supported</i>	<i>Supported</i>
sun4	<i>Supported</i>	<i>Supported</i>	<i>Supported</i>	<i>Supported</i>	<i>Supported</i>
hpux10	<i>Supported</i>	<i>Supported</i>	<i>Supported</i>		<i>Supported</i>
hp64	<i>Supported</i>	<i>Supported</i>			
rs6000	<i>Supported</i>	<i>Supported</i>	<i>Supported</i>		<i>Supported</i>
decalpha	<i>Supported</i>	<i>Supported</i>	<i>Supported</i>		
sgimips	<i>Supported</i>		<i>Supported</i>		
linux	<i>Supported</i>		<i>Supported</i>		
msvc50	<i>Supported</i>	<i>Supported</i>	<i>Supported</i>		

Enabling Legacy Application Support

Legacy application support is optional. You enable it by

- Choosing to install the required software when you install the SCL software
- Updating your SCL license key file to include VENDOR lines for the required legacy daemons. (See “Updating Your License Key File for Replacement Legacy Daemons” on page 1-4.)
- Using the *port@host* method of specifying your license server

For example, for UNIX users, if your license server machine named *sclserv* is configured to use port 26585, users would set their `$LM_LICENSE_FILE` variable as follows:

```
% setenv LM_LICENSE_FILE 26585@sclserv
```

Updating Your License Key File for Replacement Legacy Daemons

To start the replacement legacy daemons, you must add the appropriate `VENDOR` line(s) to your license key file. You can use the `modkeyfile` utility to do so, or you can manually edit the license key file. For details on how to use `modkeyfile`, see “The `modkeyfile` Utility” on page 1-4.

After you modify the license key file to include the required `VENDOR` lines, stop and restart the `lmgrd` daemon specifying the modified license key file. Starting `lmgrd` will automatically start `snpslmd` and any replacement legacy daemons listed in the license file.

The `modkeyfile` Utility

SCL 1.1 includes a utility called `modkeyfile` that customizes your license key file to include required additions and changes. For SCL 1.0, you were required to make these changes manually.

The `modkeyfile` utility is located in directory `$SNPSLMD_ROOT/admin/license`. The MS Windows NT version of this utility is called `modkeyfile.exe`. Here is the kind of license key file information that `modkeyfile` assists you in updating:

- `SERVER`—host name and port number
- `VENDOR`—path to `snpslmd` and options file
- `VENDOR`—additional `VENDOR` lines to provide support for the replacement legacy daemons you specify

For example, to run the `modkeyfile` utility, enter the following commands:

```
% cd $SNPSLMD_ROOT/admin/license  
% modkeyfile license_file_name
```

where *license_file_name* is the fully qualified path to a valid `snpslmd` license key file.

The `modkeyfile` utility presents prompts, asking you for the required information.

SCL and Third-Party Licensing

SCL introduces a change in the method of protection provided for third-party software loaded and used with Synopsys synthesis products.

In the past, Synopsys licensing software performed a second encryption check for third-party software used with Synopsys synthesis Products. With the advent of SCL, this check is no longer performed.

For releases 1999.10 and 2000.05 of Synopsys synthesis products and all later versions, third-party libraries can be loaded with Synopsys synthesis tools. However, for these releases, the second encryption check is not performed. (These releases are SCL-compatible, not legacy releases.)

Known Problems and Limitations

This section describes known problems, limitations, and possible workarounds in Synopsys Common Licensing version 1.1.

No Support for Third-Party Libraries When the Legacy Application `synopsysd` Daemon Is Used

SCL 1.1 introduces legacy application support, as described in “Legacy Application Support” on page 1-2. If you install legacy application support for use with Synopsys synthesis products, a replacement `synopsysd` daemon is installed.

In this case, no support is provided for use of third-party libraries with Synopsys synthesis products. SCL 1.1 and the `synopsysd` replacement daemon used for legacy application support do not support loading of third-party libraries.

Constraint on Use of *SAMsuite* With SCL

FLEX/*m* allows you to create license key files that combine vendor information and license keys from multiple vendors into a single license key file. *Samsuite*, the GLOBEtrouter Software Asset Management product, provides a feature that allows you to break out license keys and related vendor information from a multivendor license key file.

You can use *Samsuite* with Synopsys applications that are SCL based. However, you must not use the *SAMsuite* feature to break out vendor information on SCL license key files. This is because SCL 1.1 license key files for legacy application support include multiple `VENDOR` lines, all of which pertain to Synopsys products and all of which must remain in the same license key file. Using this *Samsuite* feature on such a file would remove the additional `VENDOR` lines required for legacy application support.

FLEX/m's lostat Utility Reports License Versions Incorrectly (STAR 101986)

On-support licenses allow for ongoing availability of the licensed feature as new versions of the feature are released. It may occur that when you run the `lstat` utility, an incorrect version number for an on-support licensed tool will be displayed. Although incorrect, this information is not representative of the actual license granted or the tool version itself. The correct, requested license is granted to run the intended version of the tool.

A workaround is not necessary for this problem apart from understanding that the information `lstat` displays in error. This reporting problem will be corrected in a future release of SCL.

lmgrd Doesn't Find snpslmd Properly (STAR 102342)

When the `lmgrd` license daemon is started, it locates and starts the `snpslmd` vendor daemon.

Because of a *FLEXlm* error, the *lmgrd* daemon is unable to locate the *snpslmd* daemon when all of the following conditions prevail:

- The *lmgrd* daemon and the *snpslmd* daemon are in the same directory.
- The *VENDOR* line in the specified license key file does not give the path to the *snpslmd* daemon.
- You execute the *lmgrd* command from outside the directory that contains both the *lmgrd* daemon and the *snpslmd* daemon, giving a path to that directory. For example

```
% scl/unix/bin/lmgrd \  
-c scl/admin/license/snpslmd.lic
```

Workaround

To circumvent this problem given these conditions, change to your working directory containing both the *lmgrd* daemon and the *snpslmd* daemon, and start the *lmgrd* daemon from within that directory. For instance, on a UNIX platform, you might enter the following commands:

```
% cd scl/unix/bin  
% ./lmgrd -c scl/admin/license/snpslmd.lic
```

Alternatively, modify the *VENDOR* line of the license key file to include the path to the *snpslmd* daemon.

On-Support Algorithm Causes Server to Log Incorrect Versions (STAR 102471)

The license server incorrectly logs checkout requests for on-support features. Although the correct feature is checked out, currently you cannot rely on the log file for verification or tracking purposes for on-support features. For example, if a user runs a 2000.05 release Synopsys tool and the feature for that tool is an on-support feature, the license server will log the checkout request as a request for version 1998.05. The error introduced in the log file has no bearing on the feature, which was correctly checked out.

There is no workaround for this problem. Though the error causes confusion, it is not hazardous.

Erroneous UNSUPPORTED: SNPS-CSL and UNSUPPORTED: DEMO Messages (STAR 103928)

Some Synopsys tools routinely make requests for certain administrative features such as `SNPS-CSL` and `DEMO` from the license server. If an installation is not authorized for these administrative features, the license server will log misleading error messages noting that these administrative features are unsupported.

Presently, there is no workaround for this problem. Synopsys and GLOBEtrotter Software are collaborating on a solution that will be introduced in a future release.

Limitations

SCL 1.1 is subject to the following platform-dependent limitations:

- Only about 500 concurrent legacy applications can be supported on sparcOS5 and sparc64 platforms. This is an OS limitation.
- Only 120 concurrent legacy applications can be supported on the Sun4 platform. This is an OS limitation.

The following additional limitation applies to SCL 1.1:

- Newer applications that rely on the `vcsl` license daemon (VCS, CoverMeter) are bridged and will work with the SCL daemon `snpslmd`. However, SCL 1.1 does not support VCS and CoverMeter applications that were released prior to December 1999. If you need to run these legacy applications, contact your Synopsys Account Manager.