

Synopsys Common Licensing Release Notes

Version 11.2

December 6, 2010

These release notes present the latest information about Synopsys Common Licensing version 11.2 in the following sections:

- [Installation Information](#)
- [New Features, Changes, and Enhancements](#)
- [Resolved STARs](#)

SCL version 11.2 is based on FLEXnet 11.9, the standard licensing software provided by Flexera Software, formerly Acresto Software. For Windows platform, it is based on FLEXnet version 11.8.

Installation Information

The 11.2 release of Synopsys Common Licensing (SCL) is a standalone release and must be installed in an empty directory, using the latest version of the Synopsys Installer. Do not install this release over an existing Synopsys Common Licensing (SCL) release. SCL 11.2 includes all the bug fixes that have been made in the SCL 11.1 and earlier SCL releases.

You should use the Synopsys Installer to install the SCL software. For SCL configuration and startup instructions, see *Starting the SCL Server on UNIX and Windows Systems* in the *Synopsys Common Licensing Administration Guide*, which is available at <http://www.synopsys.com/install>

To download SCL via Electronic Software Transfer, go to the Synopsys Downloads web site at <https://solvnet.synopsys.com/DownloadCenter/dc/product.jsp>, and download the `scl_v11.2_common.tar` file and the platform-specific tar file that you need. For example, for the AMD64 platform, you should download the `scl_v11.2_linux.tar` file or the `scl_v11.2_amd64.tar` file.

The Synopsys Installer defaults to the following root directory: `/usr/synopsys/SCL_11.2`.

This root directory has additional directories, such as,

`/usr/synopsys/SCL_11.2/docs`

`/usr/synopsys/SCL_11.2/platform/bin`

`/usr/synopsys/SCL_11.2/platform/drivers`

For the Windows platform, the default install directory is `C:\synopsys\SCL_11.2`. After installation, the directory looks like this: `C:\synopsys\SCL_11.2\windows\bin\snpslmd.exe`.

Synopsys also provides various dongle drivers for Windows and Linux that are required in order to be able to use a dongle as a license server on Windows.

Drivers for the Windows platforms are included under this directory:
`C:\synopsys\SCL_11.2\windows\drivers`.

Drivers for the Linux platforms are included under this directory:
`/usr/synopsys/SCL_11.2/linux_platform/drivers`.

New Features, Changes, and Enhancements

Synopsys Common Licensing version 11.2 provides new features, changes, and enhancements as described in the following sections:

- [Support for the CoWare, Synfora, and VaST License Daemons](#)
- [Combined Vendor Daemons](#)
- [Combined Vendor Daemon Operating System Support](#)
- [Issues Resolved in FLEXnet Version 11.9](#)

Support for the CoWare, Synfora, and VaST License Daemons

Support for the CoWare, Inc., Synfora, and VaST Systems Technology Corporation legacy license daemons is available through the common licensing shell in the 11.2 release. For example,

```
% sclsh> cowared init
% sclsh> cowared co feature_name
```

or

```
% sclsh> synforad init
% sclsh> synforad co feature_name
```

or

```
% sclsh> vastlmd init
% sclsh> vastlmd co feature_name
```

For help during the session, type `help` at the prompt to see all the supported commands as shown in the example below:

```
% sclsh> help
```

For additional help on a specific command, use the following option:

```
% sclsh> command_name -help
```

Combined Vendor Daemons

The legacy license daemons for CoWare Inc., Synfora, and VaST Systems Technology Corporation have been incorporated into SCL version 11.2. [Table 1](#) reflects the complete list of legacy vendor daemons. Before starting SCL, these daemon processes must be shut down.

Table 1 Legacy Daemons Incorporated Into SCL Version 11.2

Aquired company	Daemons
Analog Design Automation	adalmd
Avant! Corporation	anagram, avantd, chrysalisd, hscd, metasoftd, saber_dmn, tmalld
Innologic Systems, Inc.	innologd
Integrated Systems Engineering	ISE-TCADD
Legacy and other daemons	EPIC, everest, la_damon, leda, ssilmd, synopsysd, vcsd
Nassda Corporation	nassd
Numerical Technologies	numeritchd, TE_CATS, CADABRA
Placeholder for future OEM partners	snpsOEM2, snpsOEM3
SIGMA-C	sigmacd
Zenpire Corporation	snpsOEM1
Sandwork Design	sandwork
CHIPit	pdld
Synplicity	synplctyd
Synfora ¹	synforad
CoWare Inc. ¹	cowared
VaST Systems Technology Corporation ¹	vastlmd

1. This daemon was added in the 11.2 release. It is supported in version 11.2 only.

Combined Vendor Daemon Operating System Support

Table 2 shows the list of OS platforms and license daemon support in SCL version 11.2.

Table 2 SCL Version 11.2 OS Combined Vendor Daemon OS Support

OS and computer platform	Synopsys platform keyword	Support for sandwork	Support for pdld	Support for synpctyd	Support for vastlmd	Support for cowared	Support for synforad	All other Synopsys license daemons ¹
Sun SPARC Solaris — 32-bit	sparcOS5	yes	yes	yes	yes	yes	yes	yes
Sun SPARC Solaris — 64-bit	sparc64	yes	yes	no	no	no	no	yes
Red Hat Enterprise Linux x86 — 32-bit	linux	yes	yes	yes	yes	yes	yes	yes
Red Hat Enterprise Linux x86 — 64-bit	amd64	yes	yes	yes	no	no	no	yes
SUSE Linux Enterprise Server — 32-bit	suse32	yes	yes	yes	yes	yes	yes	yes
SUSE Linux Enterprise Server — 64-bit	suse64	yes	yes	yes	no	no	no	yes
Solaris x86 — 32-bit	x86sol32	no	no	no	no	no	no	yes
Solaris x86 — 64-bit	x86sol64	yes	no	no	no	no	no	yes
Microsoft Windows XP Professional — 32-bit	windows	yes	yes	yes	yes	yes	no	yes

Table 2 SCL Version 11.2 OS Combined Vendor Daemon OS Support (Continued)

OS and computer platform	Synopsys platform keyword	Support for sandwork	Support for pdld	Support for synplctyd	Support for vastlmd	Support for cowared	Support for synforad	All other Synopsys license daemons ¹
IBM RS6000 AIX — 32-bit	rs6000	no	no	no	no	no	no	yes
IBM RS6000 AIX — 64-bit	aix64	no	no	no	no	no	no	yes

1. All other Synopsys license daemons (excluding sandwork, pdld, synplctyd, vastlmd, cowared, and synforad): adalmd, anagram, avantd, chrysalisd, hscd, metasoftd, saber_dmn, tmalld, innologd, ISE-TCADD, EPIC, everest, la_damon, leda, ssilmd, synopsisd, vcsd, nassd, numeritchd, TE_CATS, CADABRA, snpsOEM1, snpsOEM2, snpsOEM3, and sigmacd.

Important:

- If you are using the Sun Solaris SPARC 64-bit daemon for Synplicity license keys, you must move to one of the Synplicity supported platforms. See the Combined Vendor Daemon OS Support section for information.
- For Synplicity tools, if you are using a Sun Solaris SPARC 64-bit platform, you must use the Sun SPARC 32-bit version of the SCL 11.2 daemon because Synplicity Combined Vendor Daemon keys are supported on the 32-bit version. Alternatively, if you are using a Sun Solaris SPARC 64-bit platform, you can move to the Red Hat Enterprise Linux 64-bit (amd64) platform by rehosting your license keys. In order to rehost keys, contact your Account Manager and execute a License Key Rehost Agreement.
- If you are using a Linux platform and have a dongle, install the 32-bit daemon. You can run the 32-bit daemon on a 64-bit OS.
- The Sentinel SuperPro dongle is not supported on Windows platforms for server-based licenses. It is supported only for uncounted (server-less) licenses on Windows.

Issues Resolved in FLEXnet Version 11.9

The following issues have been resolved in FLEXnet version 11.9 and other recent FLEXnet releases:

- **IOC-000078789: New AUTOMATIC_REREAD keyword for administrative options File**

The `AUTOMATIC_REREAD` keyword allows license administrators to turn off the automatic rereading of licenses that takes place by default at midnight when any licenses have expired. The `AUTOMATIC_REREAD` keyword controls the automatic rereading of license files and trusted storage when any features have expired. This option applies to all concurrent licenses held in license files or trusted storage.

`AUTOMATIC_REREAD OFF | ON` controls the automatic rereading of license files and trusted storage when any features are found to have expired. The default, when this option is not set, is that each day at midnight a check determines if each license has expired. When any license found is expired, all license files and trusted storage are reread. To turn off automatic reread at midnight, enter `AUTOMATIC_REREAD OFF` in the options file.

For details see the *License Administration Guide*.

- **IOA-000050766: Client/Server Communication Errors Over Unreliable Networks**

An error might occur when a FLEX-enabled client performed a repeated set of FLEX operations, such as checkout, checkin, license inventory, and so on, on an unreliable network connection with the license server. This unreliable network connection can cause the request or response protocol between the license server and the client to break down. The client would time out while reading part of a response from the license server and misinterpret the remaining portion of the responses as belonging to a different message request.

This issue has been resolved by tagging each request or response message with a unique identifier. The unique identifier is verified during message processing to ensure message integrity.

- **IOC-000084161: Limitations Raised on TCP Port Connections**

On the Windows platform, the license server was unable to serve more than 4,000 license clients simultaneously due to a limitation hardcoded in the FLEXnet Publisher product and a limitation in the Windows systems on the number of TCP ports available to any process.

The FLEXnet Publisher limitation has been raised to a limit of 10,000 simultaneous connections. The license administrator might need to adjust the Windows system TCP/IP parameter settings to raise the limit on the maximum number of TCP ports available for use. For example, on certain Windows systems, the following registry entry needs to be modified:

```
HKEY_LOCAL_MACHINE\System\CurrentControlSet\Services\Tcpip\Parameters\  
MaxUserPort
```

- **IOA-000027199: Imstat Produced Duplicate Output**

When multiple vendor daemons were managed by a single `lmgrd` process, `lmstat` output incorrectly listed features served by vendor daemon A as belonging to vendor daemon B.

This issue is resolved by having `lmstat` properly associate the list of features served by each vendor daemon.

- **IOA-000047599: Improvements to Lingered License Handling**

When a very large number of licenses are in the lingered checkout state, the license server might become very busy processing the linger list and can appear unresponsive to new checkout requests. Under this circumstance the FlexEnabled license clients will time out while waiting for a response from the license server.

The processing of the lingered licenses is now more efficient and the license server is more responsive to client requests.

- **IOB-000053017: Dongle Support for More Linux Platform Variations**

The FLEXid9 dongles are now supported on the 64-bit version of the x64 LSB toolkits. Refer to the *Dongle Installation Guide* for more information.

Resolved STARs

The Synopsys Technical Action Requests (STARs) listed in the following table are resolved in Synopsys Common Licensing version 11.2.

Table 3 Resolved Synopsys Common Licensing STARs

STAR ID	Title
9000418751	Support for Coware, Synfora, and VaST legacy license daemons is added to SCL 11.2