

Synopsys[®] Common Licensing Release Notes - Version 10.9.3

June 9, 2008

These release notes present the latest information about Synopsys Common Licensing version 10.9.3 in the following sections:

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

You can also see Synopsys Common Licensing 10.9.3 *Release Notes*, which you can access by going to the Download Center in SolvNet, located at the following address:

<https://solvnet.synopsys.com/DownloadCenter>

Installation Information

The 10.9.3 release of Synopsys Common Licensing (SCL) is a stand-alone release and must be installed in an empty directory. Do not install this release over an existing Synopsys Common Licensing (SCL) release. SCL 10.9.3 includes all the bug fixes in the 10.9.2 and prior releases.

For SCL configuration and start-up 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>.

For troubleshooting assistance, see *Troubleshooting* in the *Licensing QuickStart Guide* at <http://www.synopsys.com/keys>.

New Features, Changes, and Enhancements

SCL 10.9.3 provides new features, changes, and enhancements as described in the following sections:

- [Sandwork Design and ArchPro Design Automation Daemons Support](#)
- [Sandwork Design and ArchPro Design Automation Legacy License Daemons within sclsh](#)
- [Duplicate Feature Entries in the sssverify Command Display](#)
- [Issues Resolved in SCL 10.9.2](#)
- [Issues Resolved in SCL 10.9.1d](#)
- [Issues Resolved in SCL 10.9.1c](#)
- [Issues Resolved in SCL 10.9.1b](#)

SCL 10.9.3 is based on FLEXnet 10.8.5.3, the standard licensing software provided by Acreoso Software (formerly Macrovision, Inc.). For the sparcOS5, x86sol32, hp32, aix64, and rs6000 platforms, SCL 10.9.3 is based on FLEXnet 10.8.5.0. For a list of OS platforms, FLEXnet versions and license daemon support in SCL 10.9.3, see [Table 1](#).

Note: In addition, all issues resolved in SCL 10.9.2, 10.9.1d, 10.9.1c, and 10.9.1b releases, as shown in the following sections, are incorporated in SCL 10.9.3.

Table 1 List of OS Platforms, FLEXnet Version and License Daemon Support in SCL 10.9.3

Platform	Keyword	FLEXnet version	Support for sandwork	Support for archpro	** All other Synopsys license daemons
Red Hat Linux Intel x86 - 32-bit	linux	10.8.5.3	Yes	Yes	Yes
Red Hat Linux AMD Opteron - 64-bit	amd64	10.8.5.3	Yes	Yes	Yes
Sun Solaris SPARC - 64-bit	sparc64	10.8.5.3	Yes	Yes	Yes
Sun Solaris SPARC - 32-bit	sparcOS5	10.8.5.0	No	No	Yes
Solaris AMD64 -64-bit	x86sol64	10.8.5.3	Yes	No	Yes
Solaris AMD64 -32-bit	x86sol32	10.8.5.0	No	No	Yes
HP-UX 11.0 - 64-bit	hp64	10.8.5.3	Yes	No	Yes
HP-UX 11.0 - 32-bit	hp32	10.8.5.0	No	No	Yes
Window XP - 32-bit	windows	10.8.5.3	Yes	No	Yes
IBM RS/6000 AIX - 64-bit	aix64	10.8.5.0	No	No	Yes
IBM RS/6000 AIX - 32-bit	rs6000	10.8.5.0	No	No	Yes
SUSE 9.0 - 64-bit	suse64	10.8.5.3	Yes	Yes	Yes
SUSE 9.0 - 32-bit	suse32	10.8.5.3	Yes	Yes	Yes

** All other Synopsys license daemons (excluding archpro and sandwork): adalmd, anagram, avantd, chrysalisd, hscd, metasoftd, saber_dmn, tmalld, innologd, ISE-TCADd, EPIC, everest, la_damon, leda, ssilmd, synopsysd, vcsd, nassd, numeritchd, TE_CATS, CADABRA, snpsOEM1, snpsOEM2, snpsOEM3, and sigmacd.

Important: Note that if you receive license keys for sandwork or archprod license daemons on one of the unsupported OS platforms, then the license keys will not work. The server will display an encryption error on the unsupported platforms. Contact your account manager to regenerate the license keys and migrate to one of the supported OS platforms.

Please note that linuxipf and RedHat 7.2 platforms will no longer be supported from this release.

The following issues are resolved in this release:

- Sandwork Design and ArchPro Design Automation daemons are now supported
- Sandwork Design and ArchPro Design Automation legacy license daemons can now be used within sclsh
- When the license key file has both CVD and legacy keys for a certain feature, `sssverify -pinfo` displays duplicate entries for that feature

Sandwork Design and ArchPro Design Automation Daemons Support

The daemons for Sandwork Design and ArchPro Design Automation have been incorporated into SCL 10.9.3. [Table 2](#) reflects the complete list of legacy vendor daemons incorporated into it. Before starting SCL, these daemon processes must be shut down.

Table 2 Legacy Vendor Daemons in SCL 10.9.3

Acquired 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
ArchPro Design Automation*	archprod

* These daemons were added in the 10.9.3 release.

Sandwork Design and ArchPro Design Automation Legacy License Daemons within `sclsh`

The Sandwork Design legacy daemon `sandwork` and the ArchPro Design Automation legacy license daemon `archprod` are supported within `sclsh` in the 10.9.3 release.

For example, you can use `sandwork` as follows:

```
% sclsh> sandwork init
% sclsh> sandwork co <Feature_name>
```

and you can use `archprod` as follows:

```
% sclsh> archprod init
% sclsh> archprod co <Feature_name>
```

For help on `sclsh`, you can type **help** at the `sclsh` prompt to see all the commands supported by `sclsh`:

```
% sclsh
> help
```

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

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

Duplicate Feature Entries in the `sssverify` Command Display

When the license key file has both CVD and legacy keys for a certain feature, the `sssverify -pinfo` command displayed duplicate entries for that feature. Previously, when the license key file has both CVD and legacy keys for a certain feature, the `sssverify -pinfo` command displayed duplicate entries for that feature. This is fixed in 10.9.3.

The following is an example of a sample license key file:

```
INCREMENT PWABA sigmacd 2006.4 30-sep-2007 2 ED16DF11907C34034EF9 \
  SUPERSEDE DUP_GROUP=NONE ISSUED=17-aug-2007 NOTICE=000001000 \
  ck=76 SN=RK:4600-0:863311:934065 START=02-feb-2007

INCREMENT PWABA snpslmd 2007.060 30-sep-2007 1 VENDOR_STRING=^1+S \
  SUPERSEDE DUP_GROUP=NONE ISSUED=17-aug-2007 NOTICE=000001000 \
  ck=196 SN=RK:4593-0:863309:681087 START=02-feb-2007 AUTH={ \
  sigmacd=( LK=0DD69FE14C6AE395B91A) snpslmd=( \
  LK=DDE6DFF137EBFEDE2BC7) }
```

The first INCREMENT line is for the PWABA feature with the legacy daemon `sigm acd`.

The second INCREMENT line is for the same PWABA feature with the CVD daemon snpslmd.

Previously, when the **sssverify -pinfo** command was executed, incorrect output was displayed. When this command was used:

```
% sssverify <file_name> -pinfo
```

the output was the following:

```
Product: FIRM Optimizer          Serial Number: (SN=4593-0:863309)
-----
Feature Name                     Expiry-Date  Daemon      Version Quantity  Start-Date
-----
PWABA                            30-sep-2007 snpslmd     2007.060         1    17-aug-2007
PWABA                            30-sep-2007 snpslmd     2007.060         1    17-aug-2007

Product: PWA                      Serial Number: (SN=4600-0:863311)
-----
Feature Name                     Expiry-Date  Daemon      Version Quantity  Start-Date
-----
PWABA                            30-sep-2007 sigmacd     2006.4           2    17-aug-2007
PWABA                            30-sep-2007 sigmacd     2006.4           2    17-aug-2007
```

The output in this example is incorrect and is fixed in 10.9.3.

By comparison, when the **sssverify -pinfo** command is executed in 10.9.3, correct output is displayed:

```
% sssverify <file_name> -pinfo
```

The output is the following:

```
Product: FIRM Optimizer          Serial Number: (SN=4593-0:863309)
-----
Feature Name                     Expiry-Date  Daemon      Version Quantity  Start-Date
-----
PWABA                            30-sep-2007 snpslmd     2007.060         1    02-feb-2007

Product: PWA                      Serial Number: (SN=4600-0:863311)
-----
Feature Name                     Expiry-Date  Daemon      Version Quantity  Start-Date
-----
PWABA                            30-sep-2007 sigmacd     2006.4           2    02-feb-2007
```

The output in this example is correct for the **sssverify -pinfo** command.

Issues Resolved in SCL 10.9.2

This section presents the latest information about resolved issues in SCL 10.9.2. SCL 10.9.2 is based on FLEXnet version 10.8.5.0 software from Macrovision. The FLEXnet issues listed in the following table are resolved in FLEXnet 10.8.5.0 and are therefore incorporated into SCL 10.9.2.

Note: In addition, all issues resolved in SCL 10.9.1d, 10.9.1c, and 10.9.1b releases, as shown in the following sections, are incorporated in SCL 10.9.2.

- [Enhanced lmstat Utility](#)
- [Enhanced Daemon Lock File Behavior](#)
- [Enhanced FLEXlm Utilities](#)

Enhanced lmstat Utility

In previous SCL releases, the FLEXnet lmstat utility would not display the status of multiple license servers. Even though this was the expected behavior of `lmstat` as documented in the Macrovision *FLEXnet Licensing End User Guide*, the status of only the first server was displayed. This issue is fixed in SCL 10.9.2. Now when you use the lmstat utility as shown in the following example, Design-Compiler key users of both server1 and server2 are displayed:

```
% lmutil lmstat -c port@server1.port@server2 -f Design-Compiler
```

Enhanced Daemon Lock File Behavior

The server terminated abnormally if the license daemon was unable to verify that the lock file was successfully created in the temporary directory. This issue is fixed in SCL 10.9.2. In addition, on UNIX platforms, the license daemon did not properly timestamp the lock files for secondary daemons. This sometimes resulted in lock files being removed by a cleanup script, thereby causing the server to exit. This issue is also fixed in SCL 10.9.2.

Enhanced FLEXlm Utilities

The following points about using the FLEXnet 10.8.5.0 utilities are important:

- SCL 10.9.2 requires that you use FLEXnet 10.8.5.0 tools (`lmgrd` or `LMTOOLS`) to start the license daemon.
- Version 10.8.5.0 of the `lmutil` utilities (`lmstat`, `lmremove`, `lmdown`, and so on) is required.
- The `lmcksum` utility is no longer supported and is replaced with the `sssverify` utility.
- Other FLEXnet utilities behave as if all the features are for the `snpslmd` daemon.

For a list of resolved issues in FLEXnet 10.8.5.0, see [Table 3](#).

Table 3 Resolved Macrovision FLEXnet Issues

Problem Number	Description
IOB-000048124	Previously, clients running on either a dual processor Windows system or another very fast Windows system would fail with a -15 network error when trying to checkout a license from the server. This has been fixed.
IOA-000027799	Previously, clients running on either a dual processor Windows system or another very fast Windows system would fail with a -15 network error when trying to checkout a license from the server. This has been fixed.
IOA-000027159	On some 64-bit systems, the vendor daemon could become confused about which clients were actually connected and would sometimes close a client connection that should not have been closed. This would result in a checkin message in the log file followed by a checkout message a few minutes later when the client reconnected because of the heartbeat. This issue has been resolved.
IOA-000025176	Previously, the IP address was printed backwards on some platforms in the debug log during the <code>lmdown</code> process. This has been fixed.
IOA-000006317	Issues related to the commands <code>lmstat -c file/server_list</code> and <code>lmpath -status</code> not working correctly have been fixed.

Issues Resolved in SCL 10.9.1d

The following issues are resolved in this release:

- `lmstat` command does not list the PACKAGE users
- Daemon re-starts with `tcp_s bad` error message on the Solaris platform
- Daemon port does not get released after using the `-reuseaddr` option
- Daemon does not get killed after issuing the `lmdown` command
- On the hp64 platform, the daemon dies with a `Status 50` error

lmstat Command Does Not List PACKAGE Users

If you have a PACKAGE line in the license file, as shown in the following example, the `lmstat` command does not list the users of the PACKAGE. Use the `lmgrd`, `lmutil`, and `snpslmd` executables from the 10.9.3 release for that functionality to work:

```

INCREMENT CAD snpslmd 2005.09 14-jan-2006 10 8D73B1D7AF0034349C16 \
  COMPONENTS="F1 F2" OPTIONS=SUITE_RESERVED ck=137
  ISSUED=23-sep-2005 ck=244 SN=RK:6784-0:695792:654634 \
  START=13-may-2005
PACKAGE CAD snpslmd 2005.09 4030D0A1B892321C715F \
  COMPONENTS="F1 F2" OPTIONS=SUITE_RESERVED ck=137

```

When the F1 component is checked out, and you invoke the **lmstat** command to see the CAD package users, the users are not listed. However, the user name is listed against the F1 component. This issue is fixed in the 10.9.3 release.

```

-----
% lmstat -c 27000@host -a
License server status: 27000@host
  License file(s) on host: /remote/issue.lic:
  host: license server UP (MASTER) v10.8
Vendor daemon status (on host):
  snpslmd: UP v10.8
Feature usage info:

Users of CAD: (Total of 10 licenses issued; Total of 1 license in use)

Users of F1: (Total of 10 licenses issued; Total of 1 license in use)
  "F1" v2005.09, vendor: snpslmd
  floating license
  bob (user) host /dev/pts/33 (v1.0) (host/27000 101), start Sun 12/11 16:34
-----

```

Daemon Re-starts with **tcp_s bad** Error Message on Solaris Platform

The **tcp_s bad** error occurs if all the conditions listed below are satisfied:

- The server is hosted on a Solaris operating system
- The VENDOR line in the license file has `PORT= keyword`
- The `tcp_time_wait_interval` TCP parameter is set to a default value

The **tcp_s bad** message is reported if you terminate the previous instance of the license daemon and try to restart the daemon before the kernel releases the daemon port. This issue is fixed in the 10.9.3 release. The daemon reuses the port number even if the kernel is temporarily holding the port.

Note:

It is mandatory to use the **-reuseaddr** option while starting the license daemon to resolve this issue. A sample use of this command line option is shown below.

```
% lmgrd c <license_file> -l <logfile> -reuseaddr
```

Daemon Port Not Released after Using `-reuseaddr` Option

If the `VENDOR` line in the key file has a port number, on a Solaris platform the `snpslmd` daemon does not restart immediately even after specifying the `-reuseaddr` option. The `-reuseaddr` option (kernel instruction to reuse the port even if used by a previous instance of the daemon) was being applied to the `lmgrd` process and not the daemon process. This is fixed in 10.9.3 release.

Daemon Not Terminated after Issuing `lmdown` Command

Sometimes when the license server is heavily loaded, the `lmdown` command indicates that the `lmgrd` and the daemon process have been terminated. However, when you list all the running processes on the system, the daemon is still listed as an active process, and it must be manually terminated. This issue is resolved in 10.9.3 release.

On the hp64 platform, the daemon dies with a `status 50` error

On the hp64 platform, the `snpslmd` daemon sometimes dies with the `Vendor daemon died with status 50` error message. This issue is resolved in the 10.9.3 release.

Issues Resolved in SCL 10.9.1c

SCL 10.9.1c is based on FLEXlm version 10.8.0.8 from Macrovision. The following issues are resolved in this release:

- PACKAGE and Multiple INCREMENT Lines
- Common Components Between PACKAGES
- Issues with Redundant Server Configuration

PACKAGE and Multiple INCREMENT Lines

If there are multiple INCREMENT lines for the same PACKAGE line, SCL 10.9.1b and prior releases consider only the license count from the first INCREMENT line.

Common Components Between PACKAGES

When there are two or more PACKAGE lines in a license file, SCL 10.9.1b and prior releases ignore the common components (features) of the packages.

Issues with Redundant Server Configuration

Bug fixes related to three-server redundant configuration in SCL 10.9.1c include:

- The vendor daemon failed to restart properly if a quorum was lost by `lmgrd` and then re-established (Macrovision bug fix number: IOA-000013101)

- The redundant license server did not show quorum status information at startup. Quorum information is now displayed in the debug log file, and you receive feedback about the quorum establishment and whether or not the license servers have started up properly (Macrovision bug fix number: IOA-000013118)

Issues Resolved in SCL 10.9.1b

The following issues are resolved in SCL version 10.9.1b:

- Idle socket connections
- `Bad Handshake Detected...` warning message

Note:

SCL 10.9.1c incorporates all the bug fixes from the SCL 10.9.1b release.

Idle Socket Connections

The socket connection on the license server is not released after a Linux client disconnects from the license server. Instead the connection moves into an idle socket state. (This happens only if the licenses are checked out from Linux clients for more than 10 minutes.) The idle socket connections accumulate, and eventually the server runs out of file descriptors and crashes. This issue is resolved in SCL version 10.9.1b.

Note:

On Solaris 32-bit and 64-bit platforms, this issue is resolved in the SCL 10.9.1 release. On the remaining supported platforms, this is fixed in SCL 10.9.1b.

Bad Handshake Detected... Warning Message

A `Bad Handshake Detected...` warning message is displayed in the license server debug log file if the client and the server are not able to negotiate the initial connection. This usually happens if the client product is encrypted for a legacy daemon (any daemon other than the `snpslmd` daemon) and if the key file is in the legacy license file format.

If you have a product encrypted for one of the legacy daemons (that is, `avantd`, `tmald`, and so on), and your license server has a key file in the legacy license file format, the `Bad Handshake Detected...` warning might appear in your server log file. The following code is a sample of a legacy key feature that elicits a `Bad Handshake Detected...` warning:

```
INCREMENT hspice avantd 2006.03 09 31-oct-2006 5 \  
ACAC835AC702BF751CF8 VENDOR_STRING=hspice \  
SUPERSEDE ISSUED=19-jul-2005 ck=88 \  
SN=RK:5299-0:468635:0 START=19-jul-2005
```

To avoid getting the warning message, obtain a common vendor daemon (`cvd`) formatted key file, available from Smartkeys at <http://www.synopsys.com/smartkeys>. For example:

```
INCREMENT hspice avantd 2006.03 31-oct-2006 10 \  
  VENDOR_STRING=hspice SUPERSEDE ISSUED=19-jul-2005 \  
  ck=88 SN=RK:7186-0:468635:0 START=19-jul-2005 \  
  AUTH={ snpslmd=( LK=9DE4B4D216293D484E9F) avantd=( \  
  LK=EDE4040266E114803469)}
```

Note:

On Solaris 32-bit and 64-bit platforms, this issue is resolved in the SCL 10.9.1 release.
On the remaining supported platforms, it is fixed in SCL 10.9.1b.

Resolved STARs

The Synopsys Technical Action Requests (STARs) listed in [Table 4](#) are resolved in Synopsys Common Licensing version 10.9.3.

Table 4 Resolved Synopsys Common Licensing STARs

STAR ID	Title
STAR 9000232678	Issue with "Checkin failed" errors in the server
STAR 9000205748	Add archprod/sandwork license daemons to SCL 10.9.3 release
STAR 9000203347	Add sandwork license daemon to sclsh command list
STAR 9000197463	Bug in "sssverify -pinfo" when the license key has both legacy and CVD keys