

# ImSym - Imaging System Simulator Installation Guide

Version 2024.09  
September 2024

**SYNOPSYS<sup>®</sup>**

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"#\$%&'()\*+,-./0#1%12 3045 677 &'()\*1 &818&98:5 ;)'1 1#<\*>=&8 >0: :#4?@80\*>\*'#0 4#0\*>'0 4#0<':80\*'>7  
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### **Right to Copy Documentation**

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# Contents

Chapter 1 Getting Started.....



# Chapter 1 Getting Started

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## System Requirements

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\$8&<#&@>048 <#&@ @?\*'!\*)&8>:8: 1'@?>\*'012 =8 &84#@@80: . \*# ed "RM 4#&815

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7>&(8 1'@?>\*'01\_

c W&88 : 'ID 1\$>48 >1 7'1\*8: \*# '01\*>77 3@/%@H 4#@\$#080\*1

g e,e- T [ 3@/%@#07%

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c W&88 : 'ID 1\$>48 #0 \*)8 system :&'98 ^'5852 \*)8 :&'98 #0 =)'4) \*)8 #8&>'0( 1%1\*8@ '1 '01\*>778: \_<#&



## Contacting





# Chapter 2 Installing ImSym with Synopsys Common Licensing

3@/%@ 4>0 1?\$\$#& Y#1\* 3N1 4#@\$>'A78 ='\*) /%0#\$1%1 "#@@#0 F'4801'0(5  
; )8 '01\*?4\*'#01 '0 \*)'1 184\*'#0 >&8 '0\*80:8: <#& 3@/%@ 4?1\*#@8&1 '01\*>77'0( \*)8 >\$\$7'4>\*'#0 #0 \*)8'& 1%1\*8@15  
3< %#? >&8 \*)8 3@/%@ #& 3; 6 :@'0'1\*&>#& >0: 088: \*# '01\*>77 \*)8 /%0#\$1%1 "#@@#0 F'4801'0( 18&

1. F#( #0 \*# %#?& 4#@\$?8& >1 6 :@'0'1\*>#&5
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3. N#?A78!47'4D \*)8 18\*?\$ <'78 ImSym y3:h3:h3:hå\pmlpss psu xeesdC lxeChn&C.



\$

% !

V)80 \*)8 \$&#4811 '1 4#@\$78\*82 301\*>77>\*'#0 "#@\$78\*8 '1 : '1\$7>%8: '0 \*)8 /8\*? \$ = '0: # = 5

**1**

# Chapter 3 Installing and Managing the Synopsys Common Licensing Server

3< %#? >&8 ?1'0( /%0#\$1%1 "#@@#0 F'4801'0( 08\*=#&D 7'4801'0(2 %#? 088: \*# '01\*>77 \*)8 /%0#\$1%1 "#@@#0 F'4801'0( 18&98&5

; )8 B8\*=#&D ^"7'80\* 301\*>77>\*'#0\_ 4>\$>A'7'\*% '1 1?\$\$#&#8: A% \*)8 /%0#\$1%1 "#@@#0 F'4801'0( 18&98&5

3< %#? >&8 >7&8>:% ?1'0( /%0#\$1%1 "#@@#0 F'4801'0( '0 %#?& #&(>0'1>\*'#02 4#0\*>4\* 3@/%@ /?\$\$#&#\* A8<#&8 4#0\*'0?'0(5

/%0#\$1%1 Q\$\*'4>7 /#7?'\*#01 1#<\*=>&8 \$&#: ?4\*1 4>00#\* 1)>&8 7'480181 =') 8>4) #\*)8&q \*)8% 1)>&8 #07% \*)8 7'48018 18&98& 1#<\*=>&8 6 1'0(78 7'48018 18&98& 4>0 A8 ?18: \*# 18&98 >77 /%0#\$1%1 Q\$\*'4>7 /#7?'\*#01 \$&#: ?4\*1 \*)>\* 1?\$\$#&#\* /%0#\$1%1 "#@@#0 F'4801'0(5 3< %#? =#?7: 7'D8 \*# 4#01#7':>\*8 %#?& 7'48018 18&9'0( 088: 12 4#0\*>4\* %#?& 7#4>7 /%0#\$1%1 />781 S8\$&8180\*>\*98 <#& (?':>048 #0 \$&#4?&'0( 7'4801815

301\*>77'0( /%0#\$1%1 "#@@#0 F'4801'0( 18&98& 1)#?7: A8 :#08 A% %#?& 3@/%@ #& 3; >:@'0'1\*&>#&5 3\* &8G?'&81 1%1\*8@!>:@'0'1\*&>\*'#0!78987 \*&>'0'0( >0: 1)#?7: A8 \$8&<#&@8: A% 1#&8#08 =)# '1 <@'7'>& =')

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**Note:** [% :8<>?7\*2 /%0#\$1%1 "#@@#0 F'4801'0( 4#@@?'0'4>\*81 9'> \$#&\* ,p- , - >0: ,p- ,e5 3< %#? ='77 A8  
 &'00'0( 3@ /%@ >4&#11 : '<&8&80\* 1?A08\*12 %#? ='77 )>98 \*# 4#0<'(?&8 %#?& &#?\*8&1 #& <'&8=>771 \*# >77# = \*=#!  
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V)80 1\$84'<% '0( \*)8 18&98& 0>@8 <#& > 08\*=#&D 47'80\*2 1\$84'<% \*)8 \$#&\* >0: \*)8 18&98& 0>@8 #& 3R  
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; )8 / " F 301\*>778& /8\*?\$ 14&880 '1 : '1\$>%8:5

3< %#? &848'98 > =>&0'0( \*)>\* 1#@8 >\$7'4>\*'#01 >&8 &'00'0(2 18784\* **Do not close the applications** >0:  
)80 47'4D







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#

# Appendix A Using SolvNetPlus to Obtain Software and Licenses

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**Note:** W#& 4?1\*#@&81 =#&D'O( =\*) : '1\* &'A?\*&12 \$78>18 4#0\*>4\* %?& 7#4>7 3@ /%@ 1#<=>&8 : '1\* &'A?\*& \*# #A\*>'0 %#?& 1#<=>&8 >0: 7'480185 /88 \*)8 )\*\*\$1H]]==51%0#\$1%154#@]#\$\*'4>7!1#7?'\*#01]1?\$\$#&\*]1?\$\$#&\*! (#A>7!4#0\*>4\*15)\*@7 \$>(8 <#& 4#0\*>4\* '0<#&@>\*'#05

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Q&:8&'0( T8:'> ^"N1]NbN1\_ #0 \$>(8 , e
3. 301\*>77'O( 3@ /%@ #0 \$>(8 , ,
4. S8\*&'89'O( F'48018 U8%1 #0 \$>(8 , h

30 \*)'1 184\*'#0H

- c /'(O'O( M\$ <#& > /#79B8\*R7?1 644#?0\* #0 \$>(8 ea
- c N#=#07#>:'O( /#<=>&8 <#&@ /#79B8\*R7?1 #0 \$>(8 , -
- c Q&:8&'0( T8:'> ^"N1]NbN1\_ #0 \$>(8 , e
- c 301\*>77'O( 3@ /%@ #0 \$>(8 , ,
- c QA\*>'O'O( \*)8 Y#1\* 3N #0 \$>(8 , h
- c S8\*&'89'O( F'48018 U8%1 #0 \$>(8 , h

## Signing Up for a SolvNetPlus Account

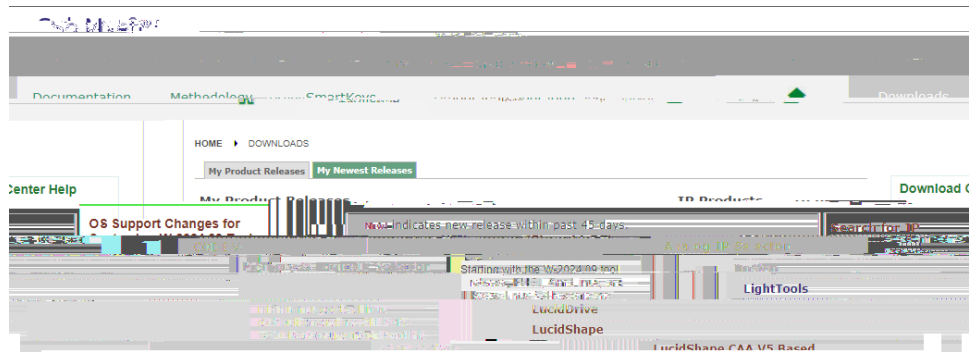
[ &#&8 %#? 4>0 :#=07#>: 3@ /%@ 1#<=>&8 >0: 7'48018 D8%12 %#? @?1\* 1'(O ?\$ <#& > /%0#\$1%1 /#79B8\*R7?1 >44#?0\*5

3< %#? >7&8>:% )>98 > /#79B8\*R7?1 >44#?0\*2 %#? 4>0 1D'\$ \*# N#=#07#>:'O( /#<=>&8 <#&@ /#79B8\*R7?1 #0 \$>(8 , -5

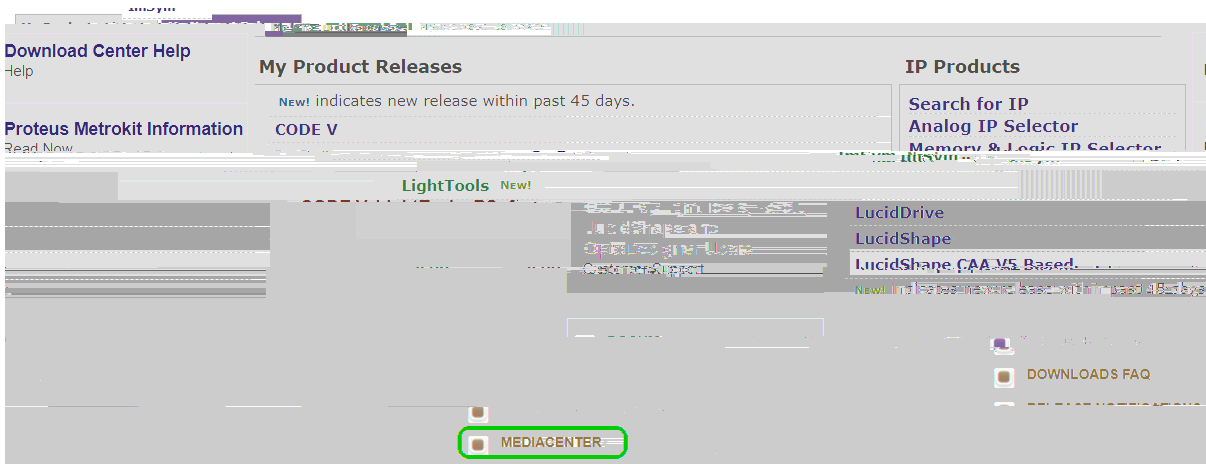
N?&'O( \*)8 &8('1\* &'>\*'#0 \$&#48112 %#? >71# 088: \*# 80\*8& %#?& 4#@>\$>0%01 /'\*8 3N5 3< %#? :# 0#\* DO#=# %#?& 4#@>\$>0%01 /'\*8 3N2 \$78>18 4#0\*>4\* 1#7908\*\$7?1<88:A>4D n 1%0#\$1%154#@ \*# &8G?81\* '\*5 [ 8 1?&8 \*# '047?:8 %#?& 4#@>\$>0% 0>@8 >0: >: :&811 '0 \*)8 8@>'7 &8G?81\*5

1. Z# \*# )\*\*\$1H]]1#7908\*\$7?151%0#\$1%154#@ >0: 47'4D **REGISTER - CREATE ACCOUNT**





3. /8784\* \*)8 \$&#: ?4\* %#? =>0\* \*# :#=07#>:5
4. /8784\* \*)8 98&1'#0 %#? =#?7: 7'D8 \*# :#=07#>:5  
; )8 N#=07#>: N8\*>'71 \$>(8 '1 : '1\$7>%8:5
5. MO: 8& S878>18 678&\*12 47'4D \*)8 **Sign up** 7'0D \*# : '1\$7>% S878>18 678&\*1 #S\*'#01 \*)>\* >77# = %#? \*#  
1?A14&'A8 \*# S878>18 B#\*'<'4>\*'#0 8@>'71 <&#@ /#79B8\*R7?15  
; )818 8@>'71 78\* %#? D0# = = )80 > 08 = 98&1'#0 #< 3@ /% @ '1 >9>'7>A78 <#& :#=07#>:5  
a. "7'4D \*)8 \$&#: ?4\* 0>@8 <#& = )'4) %#? =#?7: 7'D8 \*# &848 % 0 #0 #<



4. QO \*)8 T8: '> "80\*8& \$>(82 18784\* \*)8 \$&#: ?4\* ^85(52 3@ /% @2 F?4': / )>\$82 8\*45\_ >0: 47'4D \*)8 Add A?\*\*\*#05
5. "#@\$78\*8 \*)8 /)'\$\$'0( 6 : :&811 '0<#&@>\*)#0 >0: 47'4D **Continue**5
6. S89'8= \*)8 1)'\$\$'0( &8G?81\*2 1)#=#0 '0 \*)8 <#77#='0( (<'(?&82 >0: 47'4D **Place Order**5

HOME ▸ DOWNLOADS

Please check the following information. If everything is correct, click "Place Order" button to place the order. Otherwise,

Cary Rose	Name
crose	User Name
100	Site ID
2092-EST LightTools 9.0	Products
	Additional Information
CARYROSE@SYNOPSYS.COM	Email
	Job Title
	Company Name 2
	Department 3
199 South Los Robles Ave	Address 1
	Address 2
	Address 3
	Address 4
	Address 5
	Address 6
	Address 7
	Address 8
	Address 9
	Address 10
	Address 11
	Address 12
	Address 13
	Address 14
	Address 15
	Address 16
	Address 17
	Address 18
	Address 19
	Address 20
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	Address 90
	Address 91
	Address 92
	Address 93
	Address 94
	Address 95
	Address 96
	Address 97
	Address 98
	Address 99
	Address 100

## Installing ImSym

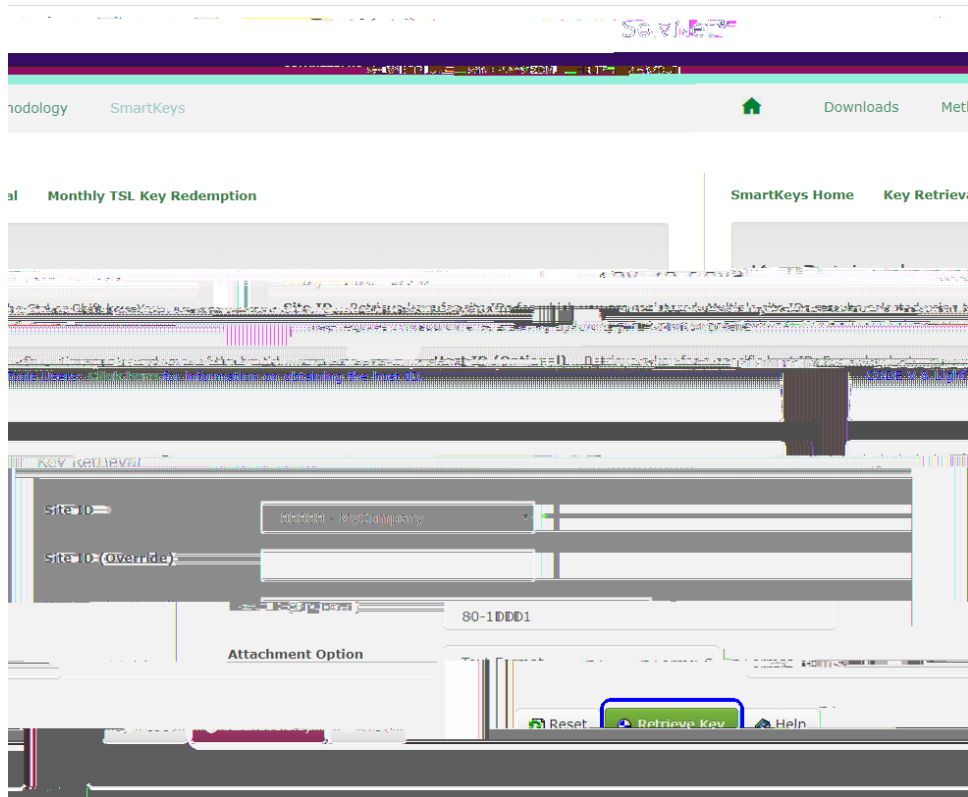
301\*&?4\*#01 <#& '01\*>77'0( 3@ /% @ \$&#: ?4\*1 >0: 7'48018 D8%1 >&8 \$&#9': 8: '0 \*)8 <#77#='0( 4)>\$\*8&1H

c Z8\*\*'0( /\*>&8: #0 \$>(8 i ! 7'1\*1 3@ /% @ 1%1\*8@ &8G?'&8@80\*1 >0: \*8771 %#? )#=# \*# 4#0\*>4\* 3@ /% @ /?\$\$#&&5

- c 301\*>77'0( 3@/%@ =') /%0#\$1%1 "#@@#0 F'4801'0( #0 \$>(8 a ! 301\*>77 3@/%@ #0 > 47'80\* 1%1\*8@ >0: 4#0<'(?&8 \*)8 7'480185
- c 301\*>77'0( >0: T>0>('0( \*)8 /%0#\$1%1 "#@@#0 F'4801'0( /8&98& #0 \$>(8 eh ! 3<%#? >&8 ?1'0( > 08\*=#&D 7'480182 %#? '01\*>77 \*)8 7'48018 D8% #0 > 08\*=#&D 18&98& P#? >71# '01\*>77 \*)8 /%0#\$1%1 "#@@#0 F'4801'0( 18&98& #0 \*)8 08\*=#&D 18&98& \*# @>0>(8 \*)8 7'4801815
- 6<\*8& %#? '01\*>77 \*)8 3@/%@ \$&#: ?4\*2 4#0\*0?8 =') QA\*>'0'0( \*)8 Y#1\* 3N #0 \$>(8 ,h5

## Obtaining the Host ID

3. ;# #A\*>'0 > 7'48018 D8% <#& > 1'0(78 M/ [ :#0(782 80\*8& \*)8 Y#1\* 3N #< %#?& 3@/%@ M/ [ :#0(78 '0 \*)8 Y#1\* 3N ^Q\$\*'#0>7\_ <'87:5 3< %#? : # 0#\* D0# = \*)8 Y#1\* 3N 9>7?8 <#& %#?& M/ [ :#0(782 188 QA\*>'0'0( \*)8 Y#1\* 3N #0 \$>(8 ,h5  
 ;# #A\*>'0 7'48018 D8%1 <#& >77 \$&#: ?4\*1 >0: >77 Y#1\* 3N1 >\* %#?& 4#@\$>0%2 78>98 \*)8 Y#1\* 3N ^Q\$\*'#0>7\_ <'87: A7>0D >0: (# #0 \*# 1\*8\$ . #0 \$>(8 ,.5
4. "7'4D **Retrieve Key**2 1)#=0 '0 \*)8 <#77#='0( (<'(?&85





## Appendix B Tro

- c ;)8 7'48018 &8G?81\* =>1 :80'8: A% \*)8 08\*=#&D 7'48018 18&98& #0 \$>(8 , f
- c ;'@8 ;>@\$8& E&&#& #0 \$>(8 , a
- c 3@/%@ 4>00#\* <'0: \*)8 /%0#\$1%1 7'4801'0( 18&9'48]:>8#@0 ^10\$17@:\_ #0 \$>(8 , a
- c MS:>\*'0(> F'48018 W'78 V'\*)#?\* 6:@'0'1\*#&#& R&'9'78(81 #0 \$>(8 h-
- c MO'01\*>77'0( /%0#\$1%1 "#@@#0 F'4801'0( #0 \$>(8 he

## There are no remaining licenses for the requested feature

### Problem

F'48018: 0?@A8& #< ?18&1 >7&8>:% &8>4)8:5

### Cause

6 7'@'8: 0?@A8& #< ?18&1 4>0 ?18 \*)'1 <8>?\*&8 >\*)8 1>@8 \*'@82 >0: \*)8 7'@'8 )>1 A880 &8>4)8:5

### Solution

3< %#? >&8 &?00'0( @?7\*\$78 1811'#01 4#04?&&80\*7%2 %#? @>% )>98 &8>4)8: \*)8 @>C'@?@ 4#04?&&80\* 1811'#0 7'@'8

W#& 08\*=#&D 7'4801812 \$78>18 =>\*' <#& #\*)8& ?18&1 \*# 80: \*)8'& <8>?\*&8 ?1>(82 \*)80 \*%& >(>'05

;# <?&\*)8& 4)84D 7'48018 ?1>(8 >\*)%#?& 1'\*82 \$78>18 4#0\*>4\* %#?& /%0#\$1%1 "#@@#0 F'4801'0( 7'48018 >:@'0'1\*#&#&

## The license does not include the requested feature

### Problem

B# /?4) W8>?\*&8 EC'1\*1

### Cause

; )8 7'48018 <'78 <#?0: :#81 0#\* 4#0\*>'0 >9>7': <8>?\*&8 <#& \*)'1 98&1'#0 #< \*)8 1#<\*>=&85

### Solution

R78>18 4)84D =\*) %#?& 3@/%@ >:@'0'1\*#&#& <#& \*)8 9>7': <8>?\*&815

## Cannot connect to the license server system

### Problem

; )8 7'48018 <#& @#: ?78 3@/%@ '1 0#\* >9>'7>A785 3@/%@ 4>00#\* &?0 :?8 \*#> 7'4801'0( '11?85

**Cause**

; )8 7'48018 18&98& @>0>(8& ^7@ (&:\_ )>1 0#\* A880 1\*>&\*8: %8\*2 \*)8 =&#0( \$#&\* n )#1\* #& 7'48018 <'78 '1 A8'0( ?18:2 #& \*)8 \$#&\* #& )#1\*0>@8 '0 \*)8 7'48018 <'78 )>1 A880 4)>0(8:5  
^7@ (&:\_ :>8@#0 '1 0#\* &'00'0(5

**Solution**

; )8 3@ /%@ '01\*>778& 4#0<'(?&81 \*)'1 >1 \*)8 **Flexlm Service 1** 18&9'485 " #0<'&@ \*)8 W78C7@ /8&9'48 e '1

**Solution**

/88 T#: '<%'0( F'48018 Q\$\*#01 #0 \$>(8 ed \*# ?\$:>\*8 \*)8 7'48018 <'785

## A connection to the Synopsys Common Licensing license manager was lost

**Problem**

;)8 4#@\$78\*8 8&&#& @811>(8 'lA connection to the Synopsys Common Licensing license manager was lost, and the application has exhausted all of its retry attempts

**Cause**

">00#\* 4#0084\* \*# 7'48018 18&98& 1%1\*8@5

**Solution**

```
W#& 08*=#&D 7'4801812 4)84D %#?& 08*=#&D 4#0084*'#0 *# %#?& 08*=#&D 7'48018 18&98&
3< *)8 8&&#& $8&1'1*12 4#0*>4* 3@ /%@ /?$#$#&# #& %#?& 7#4>7 : '1*&'A?#&5
3047?:8 *)8 <#77#='0(H
c 6 14&8801)#* #< *)8 F'48018 T>0>(8& E&&#& = '0:#=
c ;)8 <#77#='0( <'781 <&#@ *)8 licenses <#7:8& ^A% :8<>?7*2 C:\Synopsys\PhotonicSolutions
  \2024.09 \RSoft\licenses_H
g rsoft.lic
g flexlog.txt
```

## The license request was denied by the network license server

**Problem**

```
;) '1 8&&#& @811>(8 4>0 A8 &848'98: <&#@ @?7*$78 1480>&'#15
c ;)8 M18&]Y#1* #0 EX "FMNE 7'1* <#& <8>*?&8 ^W78CB8* F'4801'0( 8&&#&H !hf2 !e-e_
c M18&])#1* 0#* #0 3B "FMNE 7'1* <#& <8>*?&8 ^W78CB8* F'4801'0( 8&&#&H !ha_
c ")84D#?* 8C488:1 T 6X 1$84'<'8: '0 #*$*#01 <'78 ^W78CB8* F'4801'0( 8&&#&H !fp_
```

**Cause**

```
;) '1 8&&#& 4>0 #44?& <#& #08 #< *)8 <#77#='0( &8>1#01H
c T>C 7'@ '* #< ?18&1 )>1 A880 &8>4)8:5
c P#? )>98 A880 8C47?:8: <&#@ ?1'0( *) '1 <8>*?&85
c ;)8 <8>*?&8 '1 &818&98: <#& #*)8&15
```



## Updating a License File Without Administrator Privileges

```
P#? 1)#?: ?18 *)8 ##71 :814&'A8: 'O T#:'<% 'O( F'48018 QS'##01 #0 $>(8 ed *# ?$:>*8 %#?& 7'48018 <'7815
Y#=#898&2 *)8 3@ /%@ 'O1*>77&& 8G?'&81 6 :@'O'1*>##& $&'9'78(81 *# 'O1*>77 *)8 /%0#$1%1 "#@@#O F'4801'0(
7'48018 18&98&>0: '*1 >11#4'>*8: 18&9'4815 3<%#? :# 0#* )>98 >:@'O'1*>##& $&'9'78(812 *)8 <#77#='O(
$&#48: ?&8 :814&'A81 > @8*)# : ## #98&=&'*8 %#?& 8C'1'0( 7'48018 D8% <'78 ^C:\Synopsys\licenses
\opslic.txt_ ='*) > 08= 7'48018 D8% <'785
```

```
3<%#? ?$(&>:8 %#?& 3@ /%@ 'O1*>77>*#02 (>'O >44811 *# 08= @#: ?7812 #& #*)8&='18 4)>0(8 %#?& 7'4801'0(2
%#? @>% 088: *# ?$:>*8 %#?& 7'48018 <'785
```

```
; )8 3@ /%@ 'O1*>77&>?#*#>*81 *)8 'O1*>77>*#0 >0: 4#0<'(?&*#0 #< /%0#$1%1 "#@@#O F'4801'0( <#&
%#?5 /%0#$1%1 "#@@#O F'4801'0( &8G?'&81 *)8 7'48018 D8% <'78 <#& 0#:87#4D8: 1%1*8@1 *# A8 ?$:>*8: ='*)
'O<#&@>*#0 1$84'<'4 *# %#?& 1%1*8@5 ; )8 1 - E/=*/: 4#@@>0: :814&'A8: A87#=# ?$:>*81 *)8 7'48018 <'78 <#&
%#? >?#*#>*4>77%5
```

```
; )'1 $&#48: ?&8 >11?@81 %#? >7&8>:% )>98 %#?& 08= 7'48018 D8% <'785 3<%#? :# 0#*2 188 S8&'89'0( F'48018
U8%1 #0 $>(8 ,h #& 4#0*>4* %#?& 7#4>7 /%0#$1%1 >44#?0* >: @'O'1*>##&5
```

### 1. Q\$\*'#0>7H T>D8 > A>4D?\$ 4#\$% #< \*)8 4?&&80\* 7'48018 D8%5

```
W#& 8C>@$782 ?'1'0( > 4#@@>0: $&#@$#H
```

```
copy C:\Synopsys\licenses\opslic.txt C:\Synopsys\licenses
\opslic_bak.txt
```

```
P#? 4>0 &81*##&8 *)8 #7: 7'48018 A% &80>@'O( opslic_bak.txt *# opslic.txt >0: &81*>&'0( *)8
7'48018 18&98&5
```

### 2. Q\$80 > 4#@@>0: \$&#@\$\* >0: 0>9'(>\*8 \*# \*)8 <#7:8& 4#0\*>'0'0( %#?& 08= 7'48018 D8% <'785

### 3. "?1\*#@'18 \*)8 7'48018 D8% <#& \*)'1 1%1\*8@ ?'1'0( \*)8 1 - E/=\*/: 4#@@>0:5

```
; )8 <#77#='O( 8C>@$78 >11?@81 %#?& 7'48018 D8% <'78 '1 0>@8: NewLicense.txt5
```

```
rsfixlic NewLicense.txt NewCustomLicense.txt
```

```
; )'1 4#@@>0:1 4&8>*81 > 08= 98&1'#0 #< *)8 7'48018 D8% <'78 ^NewCustomLicense.txt_ ='*) >77
*)8 :8*>'71 ?'O'G'78 *# %#?& 1%1*8@ $#$?>*8:5 ;# @>0?>77% ?$:>*8 *)8 7'48018 D8% <'782 188 *)8 /%0#$1%1
"#@@#O F'4801'0( :#4?@80*>*#05
```

### 4. Q98&=&'\*8 \*)8 4?&&80\* 7'48018 D8% =\*) \*)8 08=2 4?1\*#@'18: 7'48018 D8%5

```
copy NewCustomLicense.txt C:\Synopsys\licenses\opslic.txt
```

```
3< $&#@$*8: *# #98&=&'*8 *)8 <'782 80*8& J5
```

### 5. S81\*>&'\*)8 7'48018 18&98& ?'1'0( #08 #< \*)8 <#77#='O( #S'##015

```
c S?0 *)8 <#77#='O( 4#@@>0:H
```

```
rslmd -restartlmgrd
```

```
c S81*>&'*#?& 1%1*8@5
```

```
; )8 7'48018 18&98& 1)#?: A8 &'00'0( ?'1'0( *)8 08= 7'48018 D8%5
```

# Uninstalling Synopsys Common Licensing



**CAUTION:** N# 0#\* &8@#98 \*)8 /%0#\$1%1 "#@@#0 F'4801'0( 18&98& ?07811 %#? )>98 4#0<'&@8: \*)>\* 0# /%0#\$1%1 \$&#: ?4\*1 >&8 ?1'0( \*)8 /%0#\$1%1 "#@@#0 F'4801'0( 18&98& '01\*>0485

3< '01\*&?4\*8: \*# :# 1# A% 3@/%@ /?\$#\$&\*2 %#? 4>0 <#77#=# \*)818 1\*8\$1 \*# &8@#98 \*)8 /%0#\$1%1 "#@@#0 F'4801'0( 4#@\$#080\*1 <&#@ > 1%1\*8@5

; )8 3@/%@ '01\*>778& >?\*#@>\*81 \*)8 '01\*>77>\*'#0 >0: 4#0<'(?&\*'#0 #< \*)8 /%0#\$1%1 "#@@#0 F'4801'0( 4#@\$#080\*15 Y#=#898&2 \*)8 '01\*>778& \*&8>\*1 \*)818 4#@\$#080\*1 >1 18\$>&>\*8 '01\*>77>\*'#012 >0: \*)8% >&8 0#\* &8@#98: =)80 %#? &?0 \*)8 3@/%@ M0'01\*>77 \*##75

W#77#=# \*)818 '01\*&?4\*'#01 \*# &8@#98 \*)8





# Glossary

## Client (machine)

; )8 47'80\*2 #& 47'80\* @>4)'082 '1 > 4#@\$?\*8& \*)>\* )>1 3@ /%@ '01\*>78: #0 '\*2 >0:  
'1 4#0<'(?&8: \*# &8G?81\* > 7'48018 <&#@ > 7'48018 18&98&5 W#& /%0#\$1%1 "#@@#0  
F'4801'0(2 \*)'1 @>4)'08 &?01 B8\*=#&D "7'80\* 1#<\*>=&82 =)'4) ?181 > 08\*=#&D 7'480185

## Host ID

6 ?0'G?8 3N ?18: \*# >11#4'>\*8 > 7'48018 =') > 1\$84'<'4 4#@\$?\*8&5  
W#& /%0#\$1%1 "#@@#0 F'4801'0(2 \*)'1 '1 > 9>7?8 &8\*&'898: ?1'0( \*)8 \*~ +, -. CD  
?\*17'%5 ; )8 9>7?8 @>% A8 >11#4'>\*8: =') %#?& 4#@\$?\*8& #& =') > M/ [ :#0(785  
;)8 /%0#\$1%1

