Ansys 2021软件安装注意事项

亿道电子
Emdoor ELEC.

Ansys

Agenda

1 安装前的准备工作

2 安装过程中的注意事项

3 Licensing相关要点

4 常见问题分享

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安装前的准备工作

安装前的准备工作

- 授权文件
  - 获取客户购买的具体软件、MAC地址、维护期；
  - 确定需要安装的内容，备好安装介质；
  - 确定或提前准备好待测试的模型文件；
- 操作系统
  - 确认客户的操作系统支持当前待安装的ANSYS软件版本；
  - 确认客户的服务器或工作站的MAC地址与授权文件吻合；
  - 确认是否安装或曾安装“爱国版”；
- 兼容性检查
  - **https://www.ansys.com/it-solutions/platform-support**
  - platform-support-by-application-product-2021-r2.pdf；
  - browser-support-2021-r2.pdf；

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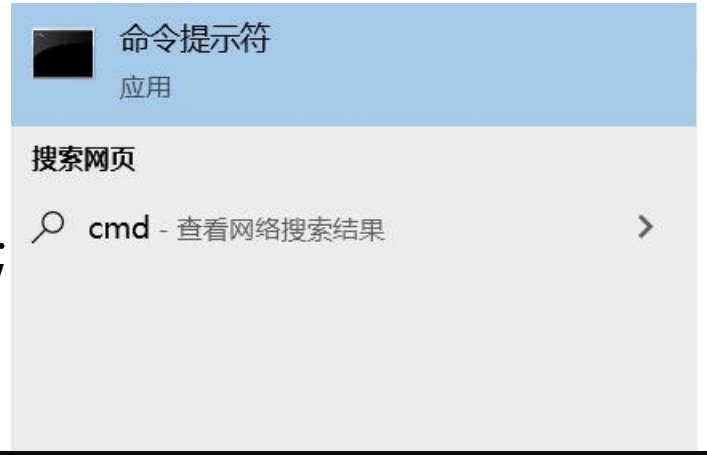
安装前的准备工作

设备规格

Inspiron 7590

设备名称	DESKTOP-P34FGK5
处理器	Intel(R) Core(TM) i5-9300H CPU @ 2.40GHz 2.40 GHz
机带 RAM	32.0 GB (31.8 GB 可用)
设备 ID	2AEB5A07-48A1-46ED-BB56-55C29FAA80D9
产品 ID	00342-35565-57210-AAOEM
系统类型	64 位操作系统, 基于 x64 的处理器
笔和触控	没有可用于此显示器的笔或触控输入

维护期；




```
无线局域网适配器 WLAN:

   连接特定的 DNS 后缀 . . . . . : lan
   描述. . . . . . . . . . . . . . . : Intel(R) Wireless-AC 9560 160MHz
   物理地址. . . . . . . . . . . . . : 08-71-90-11-27-09
   DHCP 已启用 . . . . . . . . . . . : 是
   自动配置已启用. . . . . . . . . . : 是
   本地链接 IPv6 地址. . . . . . . . : fe80::11f1:55be:c9f7:6c1a%7(首选)
   IPv4 地址 . . . . . . . . . . . . : 192.168.1.166(首选)
   子网掩码 . . . . . . . . . . . . : 255.255.255.0
   获得租约的时间 . . . . . . . . . : 2021年9月2日 18:10:35
   租约过期的时间 . . . . . . . . . : 2021年9月2日 20:15:24
   默认网关. . . . . . . . . . . . . : 192.168.1.1
   DHCP 服务器 . . . . . . . . . . . : 192.168.1.1
   DHCPv6 IAID . . . . . . . . . . . : 134771088
   DHCPv6 客户端 DUID . . . . . . . : 00-01-00-01-28-1A-AC-71-08-71-90-11-27-09
   DNS 服务器 . . . . . . . . . . . : 211.136.150.66
                                       192.168.1.1
   TCPIP 上的 NetBIOS . . . . . . . : 已启用
```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安装前的准备工作

Ansys License Manager Release 2021 R2

- Home
  - View Status/Start/Stop License Manager
  - Reread License Manager Settings
- License File Options
  - Add a License File
  - Get System Hostid Information
  - View FlexNet Licenses
- Log Files
  - View Licensing Interconnect Log
  - View FlexNet Debug Log
  - View License Management Center Log
- Reporting
  - View Current License Usage
  - View License Usage History
  - View Peak License Usage
  - View License Denials
- Diagnostics
  - Display FlexNet License Status

FlexNet Hostid Information

HOSTNAME: DESKTOP-P34FGK5

PLATFORM: WINX64

IDTYPE	HOSTID	
Disk Serial Number (D)	ea61b284	SAVE TO FILE
MAC Address (E)	087190112709	SAVE TO FILE

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安装前的准备工作

Current Release Support Data

The PDF files below provide platform support information for the current Ansys release, including certification and test information for operating systems, graphics cards, job schedules and other platform components.

- Ansys Platform Support Strategy & Plans June 2021 (PDF)
- Ansys 2021 R2 - Platform Support by Application / Product (PDF)
- Ansys 2021 R2 - 3Dconnexion Devices Certification (PDF)
- Ansys 2021 R2 - Browser Support (PDF)
- Ansys 2021 R2 - CAD Support (PDF)
- Ansys 2021 R2 - Graphics Cards Tested (PDF)
- Ansys 2021 R2 - GPU Accelerator Capabilities (PDF)
- Ansys 2021 R2 - Job Schedulers and Queuing Systems Support (PDF)
- Ansys 2021 R2 - Message Passing Interface Support for Parallel Computing (PDF)
- Ansys 2021 R2 - Remote Display and Virtual Desktop Support (PDF)

Ansys Announcements

- Ubuntu CentOS announcement - April, 2021 (PDF)

Information Resources Provided by HPC Partners

For customers who need guidance on high performance computing (HPC) configurations, useful resources are provided at the following links:

- HPC Partner Ecosystem
- Intel Cluster Ready Solutions
- Workstation Refresh ROI Estimator

Ansys Benchmarks

- Standard Benchmarks: Overview and Performance
- FREE Ansys Performance Benchmark Program

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安装前的准备工作 - 操作系统支持

Ansys

Platform Support by Application / Product
Release 2021 R2

	Operating Systems (64-bit)	Windows 10 * (Professional, Enterprise & Education)	Windows Server 2016 ** Standard	Windows Server 2019 *** Standard	Red Hat Enterprise 7 (7.6, 7.7, 7.8 & 7.9)	Red Hat Enterprise 8 (8.1, 8.2 & 8.3)	SuSE Linux Enterprise Server & Desktop 12 (SP4 & SP5)	SuSE Linux Enterprise Server & Desktop 15 (SP1 & SP2)	CentOS 7 (Kommunity Enterprise OS 7.6, 7.7, 7.8 & 7.9)	CentOS 8 (Kommunity Enterprise OS 8.1, 8.2 & 8.3)	
Electronics Applications	Ansys EMIT	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	Ansys HFSS	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	Icepak	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	Maxwell	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	Ansys PExprt	✓	✓	✓							
	Q3D Extractor	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	Ansys Savant	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	Ansys Slwave	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Embedded Software & Systems / Optical Applications	medini analyze	✓									
	Scade Architect	✓									
	Scade Display	✓[1]									1 Code generators are qualified/certified on Windows 10 using long term service versions (LTSB/LTSC)
	Scade LifeCycle	✓									
	Scade Suite	✓[1]									1 Code generators are qualified/certified on Windows 10 using long term service versions (LTSB/LTSC)
	Scade Test	✓									
	Speos	✓	✓	✓							
	Speos HPC	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	Speos for Creo Parametric	✓									
	Speos for NX	✓									
	Ansys Twin Builder	✓	✓	✓							
	VRXPerience Data Preparation and VR	✓									
	VRXPerience Driving Simulator powered by SCANeR	✓									Also compatible with CentOS 7.5 x64 / CentOS 7.6 x64 / CentOS 8.2 x64 / Ubuntu 20.04 LTS x64
	VRXPerience Lighting and Sensors	✓									
	VRXPerience Sensors Simulator	✓									Also compatible with CentOS 7.5 x64 / CentOS 7.6 x64
	VRXPerience Sound	✓									

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安装前的准备工作- 浏览器支持

Browser Support
Release 2021 R2

The following browser versions have been tested and certified as compatible with the ANSYS products included in 2021 R2.

Browser	Version	NOTES:
Chrome	91	Support limited to Windows
Firefox	78	Tested on Linux
	89	Tested on Windows
Microsoft Edge (Chromium)	91	Support limited to Windows 10

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安装前的准备工作 - Windows VS. Linux

Downloads: Current Release - 2021 R2

Select Release: 2021 R2 | Select Operating System: Windows x64

Windows x64 packages are displayed

Select Download Type: Primary Packages

Primary Packages (Commercial & Academic Packages)

Structures	Fluids	Electronics	PrepPost	Discovery
Full Package	Full Package	Full Package	Full Package	Full Package
ANSYS Motion		Updates		
		Motor-CAD		

Materials	Fluids and Structures	Embedded Software	Photonics	Acoustics
Granta Selector	Full Package	Full Package	Lumerical	VRX Sound - SAS
Granta MI Enterprise				
Granta MI Pro				
Granta EduPack				

Optical

- Speos
- Speos for NX
- Speos for Creo Parametric
- Speos HPC

Select Release: 2021 R2 | Select Operating System: Linux x64

Linux x64 packages are displayed

Select Download Type: Primary Packages

Primary Packages (Commercial & Academic Packages)

Structures	Fluids	Electronics	PrepPost	Discovery
Full Package	Full Package	Full Package	Full Package	No products that meet your selection criteria are available.Please change your criteria.
ANSYS Motion		Updates		

Materials	Fluids and Structures	Embedded Software	Photonics	Acoustics
No products that meet your selection criteria are available.Please change your criteria.	Full Package	No products that meet your selection criteria are available.Please change your criteria.	Lumerical	No products that meet your selection criteria are available.Please change your criteria.

Optical

- Speos HPC
- Intel MPI 2018.4

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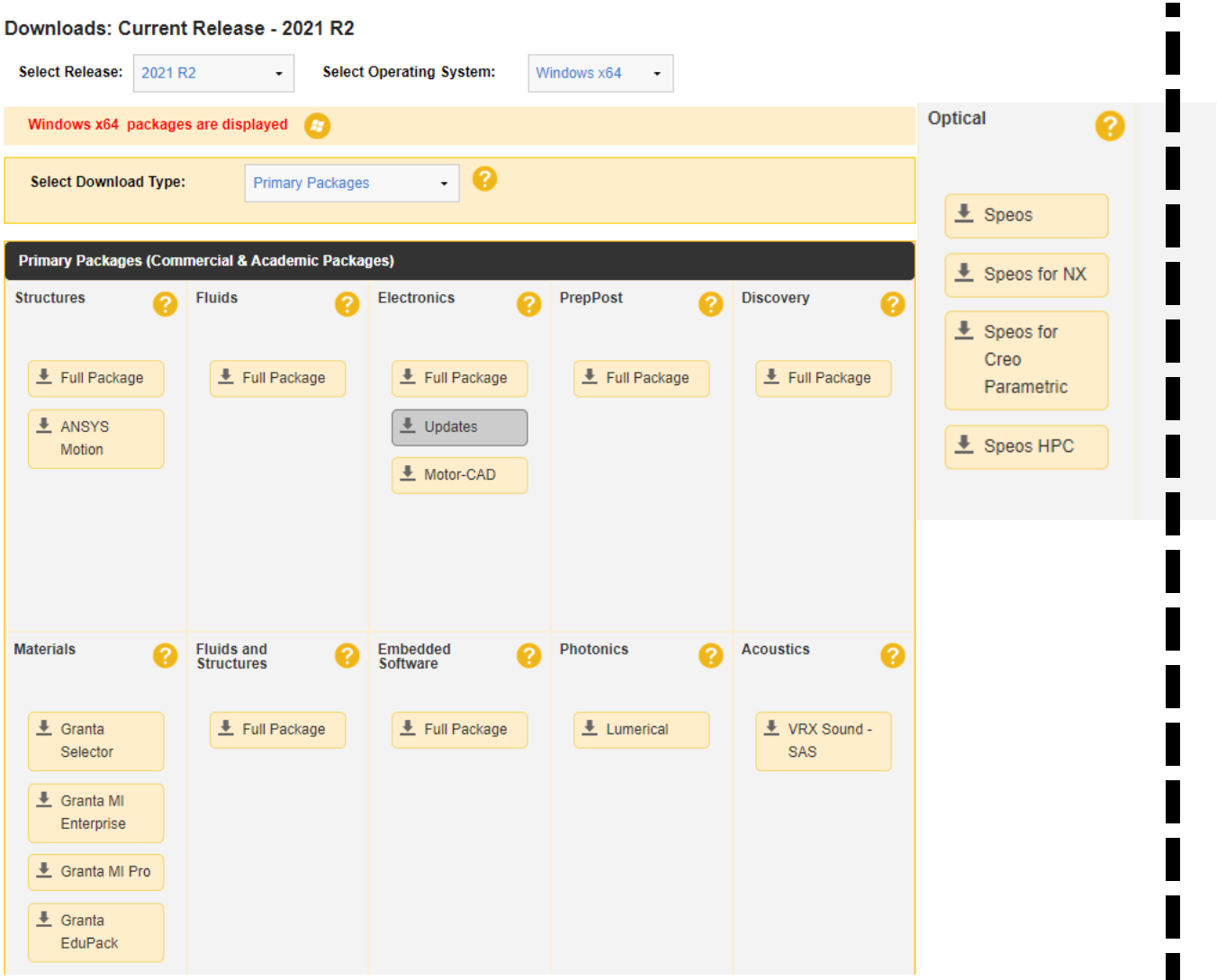
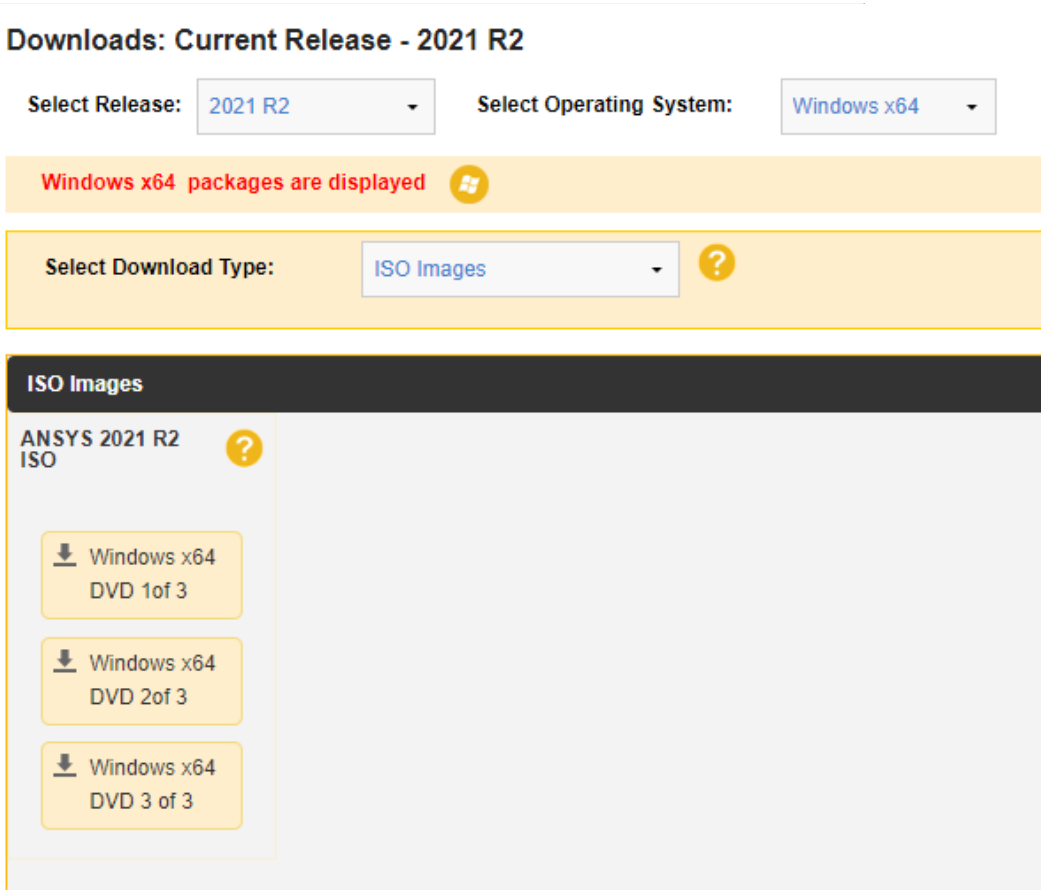
安装前的准备工作 - Primary VS. ISO





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安装前的准备工作 - License文件

名称

license-ansys_hybrid_12012020_042300_309_AM

```
SERVER TS-LICENSE 509a4c081202 1055
VENDOR ansyslmd
USE_SERVER

# Products licensed in this file:
# 1. ANSYS Electronics Premium HFSS: 1 task(s) Evaluation expiring 16-May-2021 Customer # 1133564
# 2. ANSYS HPC Pack: 1 task(s) Evaluation expiring 16-May-2021 Customer # 1133564
# 3. ANSYS SpaceClaim: 1 task(s) Evaluation expiring 16-May-2021 Customer # 1133564

INCREMENT elec_solve_2d ansyslmd 9999.9999 16-may-2021 1 5141AA3BC059 \
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        8D91 4AD9 713F 7835 0200 E30F DD42 4D6E 5B09 28D0 FD91 96E4"

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        ISSUER=AUFI_TKC ISSUED=15-apr-2021 START=15-apr-2021 \
        SIGN2="0062 126A 7679 2BB4 B822 9260 301E BB00 1D75 1740 03AC \
        FC16 D0CE BDCA AA06"

INCREMENT elec_solve_level1 ansyslmd 9999.9999 16-may-2021 1 \
        D5A7C9DE20EC VENDOR_STRING="eval customer:01133564" \
        ISSUER=AUFI_TKC ISSUED=15-apr-2021 START=15-apr-2021 \
        SIGN2="0045 F106 0C1F 3480 4066 1495 3012 A200 72CD 19B7 099E \
        238B DF2B D442 48F6"
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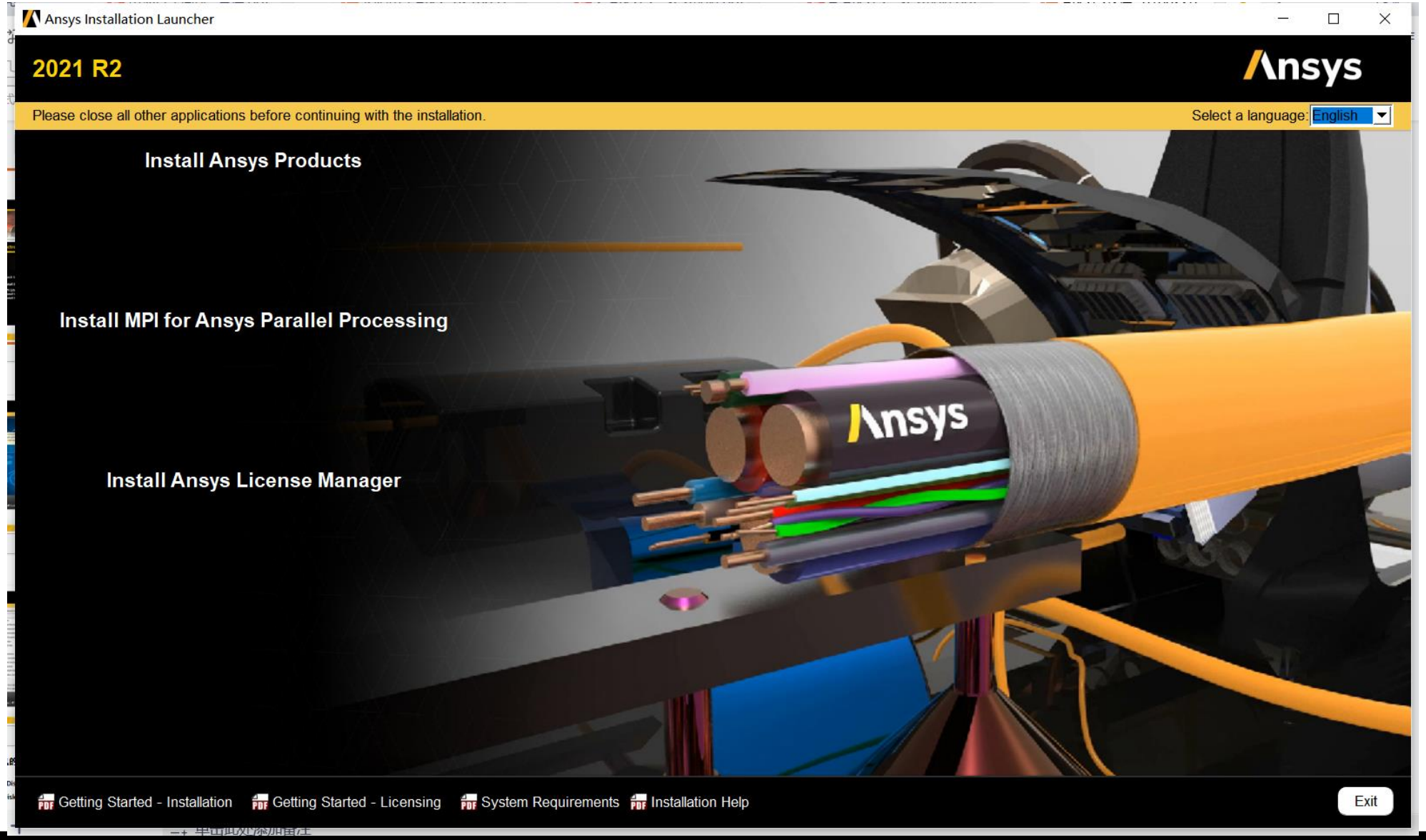
安装过程中的注意事项

安装过程中的注意事项



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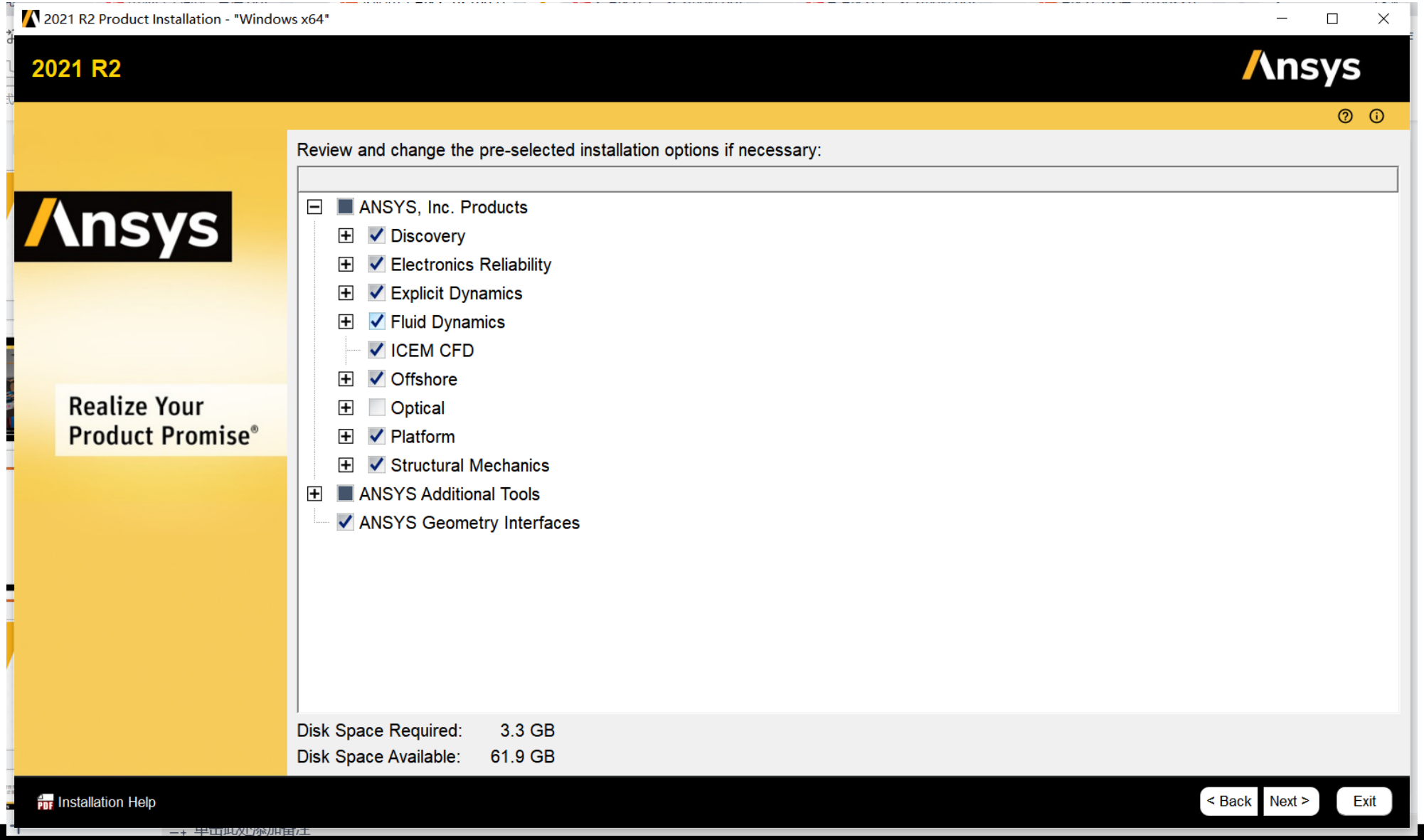
安装过程中的注意事项



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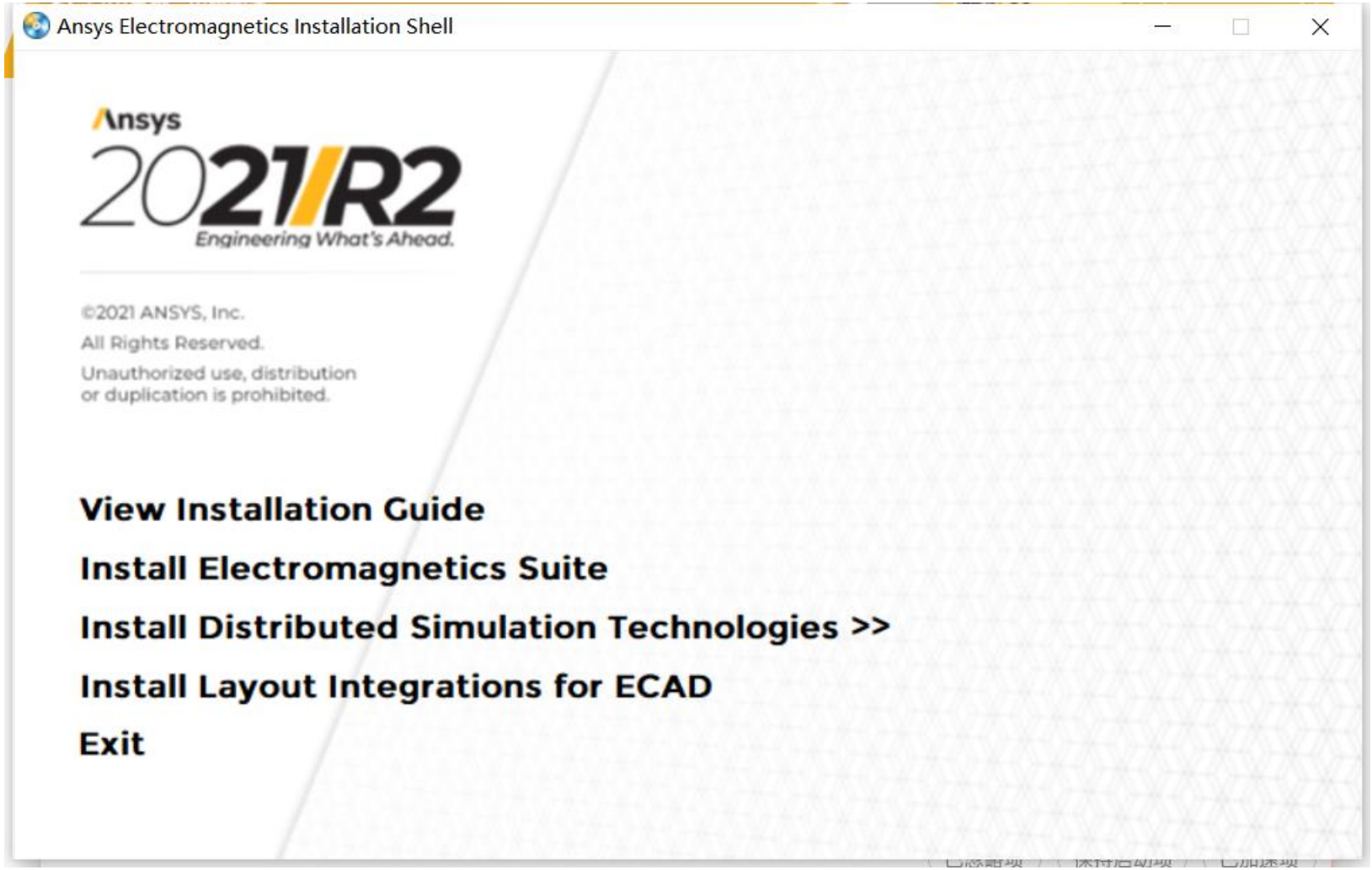
安装过程中的注意事项



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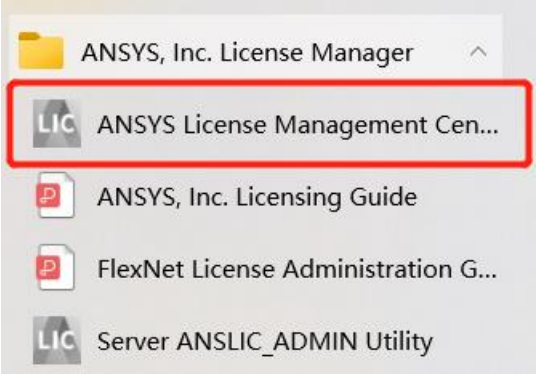
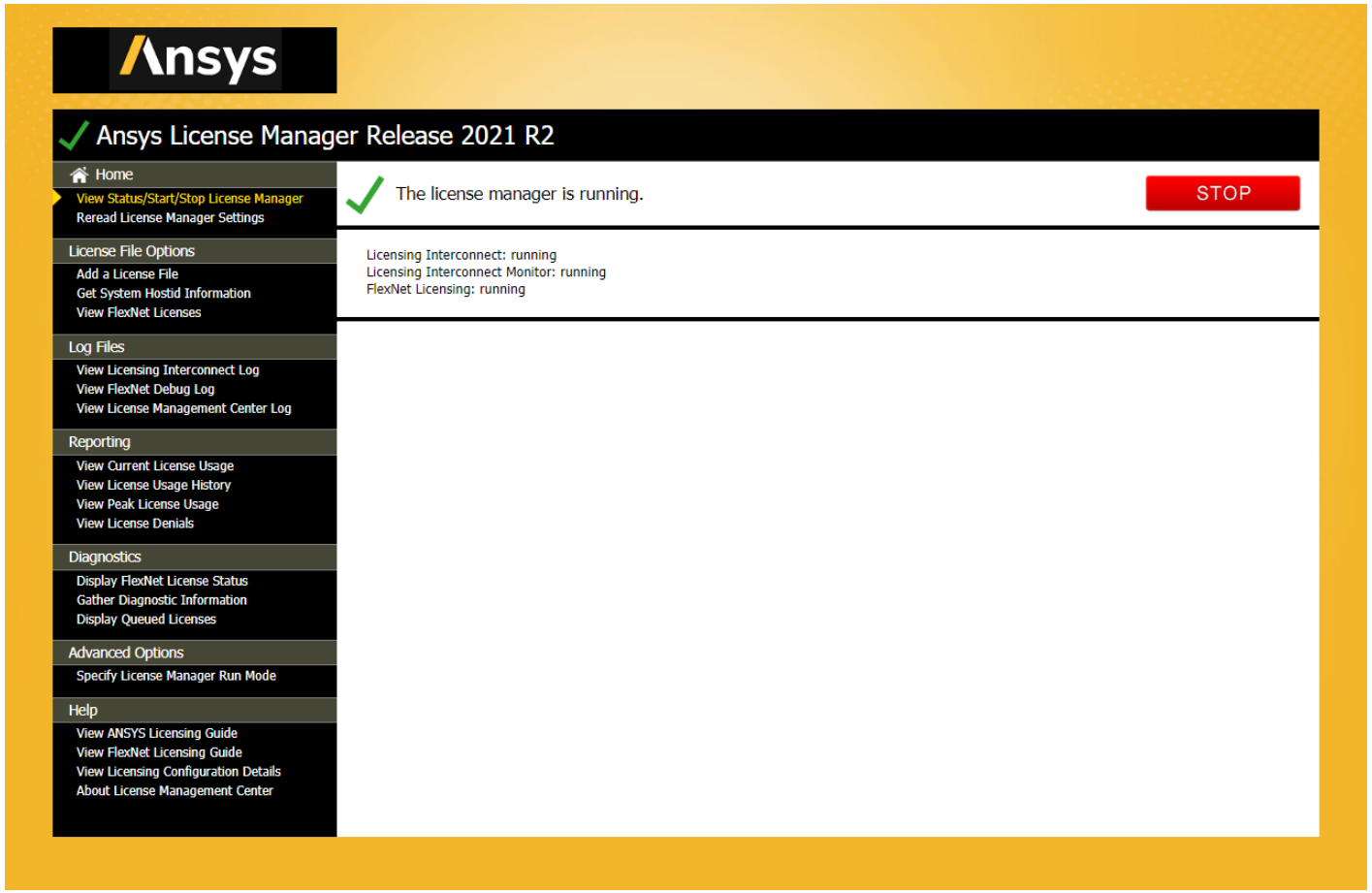
Licensing相关要点

Licensing

如下图所示，在打开的新版 ANSYS License 管理界面中，如果是旧版本的 ANSYS License 管理器升级的话，ANSYS License 管理器会自动恢复为升级前的正常启动状态。如果是新装的 ANSYS License 管理器，那么当前的服务状态将是停止状态。





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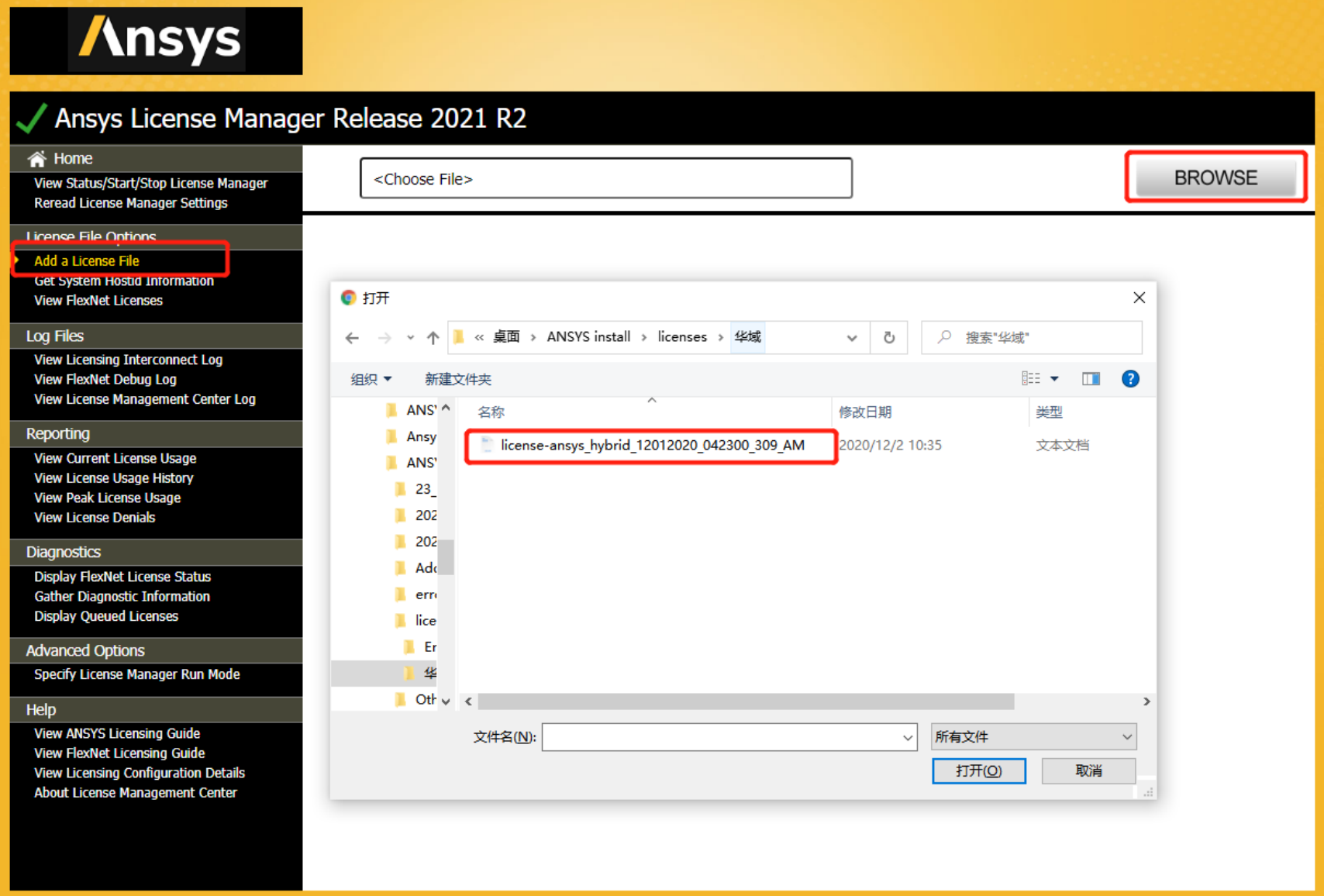

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Ansys License Manager Release 2021 R2

- Home
  - View Status/Start/Stop License Manager
  - Reread License Manager Settings
- License File Options
  - Add a License File
  - Get System Hostid Information
  - View FlexNet Licenses
- Log Files
  - View Licensing Interconnect Log
  - View FlexNet Debug Log
  - View License Management Center Log
- Reporting
  - View Current License Usage
  - View License Usage History
  - View Peak License Usage
  - View License Denials
- Diagnostics
  - Display FlexNet License Status
  - Gather Diagnostic Information
  - Display Queued Licenses
- Advanced Options
  - Specify License Manager Run Mode
- Help
  - View ANSYS Licensing Guide
  - View FlexNet Licensing Guide
  - View Licensing Configuration Details
  - About License Management Center

ansyslmd.lic

REFRESH

```
SERVER DESKTOP-P34FGK5 087190112709 1055
VENDOR ansyslmd
USE_SERVER

# Products licensed in this file:
# 1. ANSYS Channel Partner Bundle - Multiphysics: 1 task(s) Lease expiring 28-Feb-2022 Customer # 1054791
# 2. ANSYS Channel Partner Bundle - HPC: 1 task(s) Lease expiring 28-Feb-2022 Customer # 1054791
# 3. ANSYS Channel Partner Bundle - Structures: 1 task(s) Lease expiring 28-Feb-2022 Customer # 1054791
# 4. ANSYS Channel Partner Bundle - LS-Dyna: 1 task(s) Lease expiring 28-Feb-2022 Customer # 1054791
# 5. ANSYS Channel Partner Bundle - Low Frequency Emag: 1 task(s) Lease expiring 28-Feb-2022 Customer # 1054791
# 6. ANSYS Channel Partner Bundle - PrePost Processing: 1 task(s) Lease expiring 28-Feb-2022 Customer # 1054791
# 7. ANSYS Channel Partner Bundle - High Frequency Emag: 1 task(s) Lease expiring 28-Feb-2022 Customer # 1054791
# 8. ANSYS Channel Partner Bundle - Chemical Kinetics: 1 task(s) Lease expiring 28-Feb-2022 Customer # 1054791
# 9. ANSYS Channel Partner Bundle - Systems Products: 1 task(s) Lease expiring 28-Feb-2022 Customer # 1054791
# 10. ANSYS Channel Partner Bundle - Fluids: 1 task(s) Lease expiring 28-Feb-2022 Customer # 1054791

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        44D7 7242"

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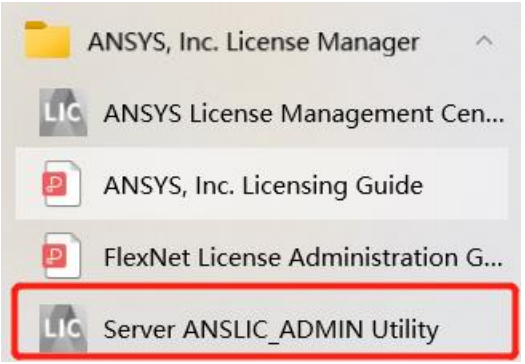
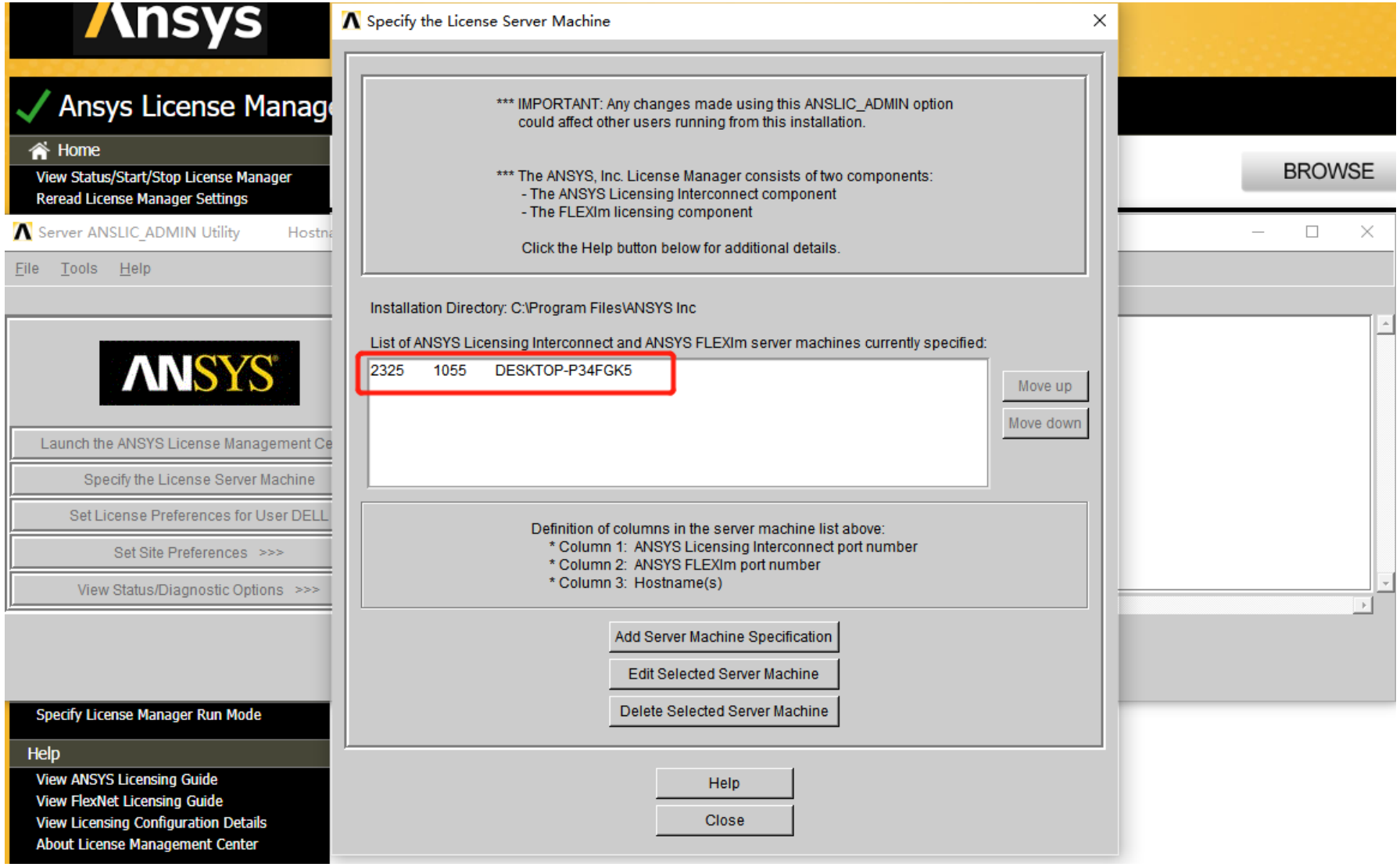
Licensing





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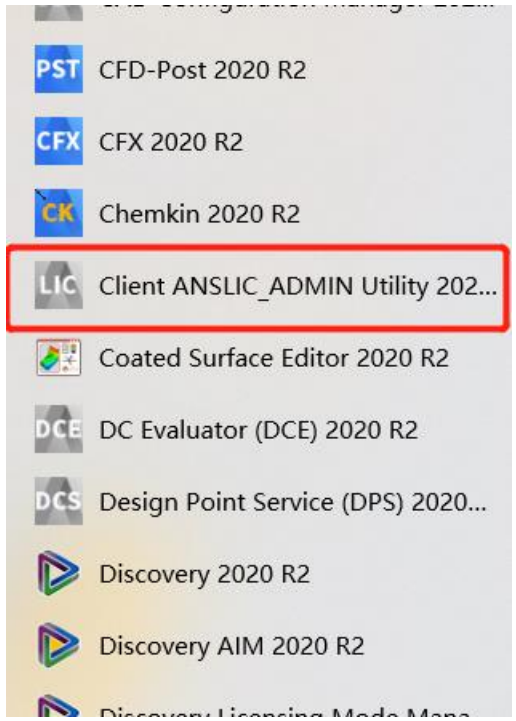

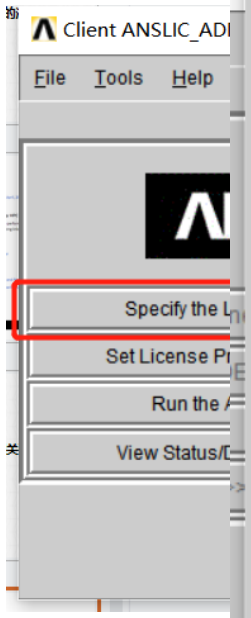

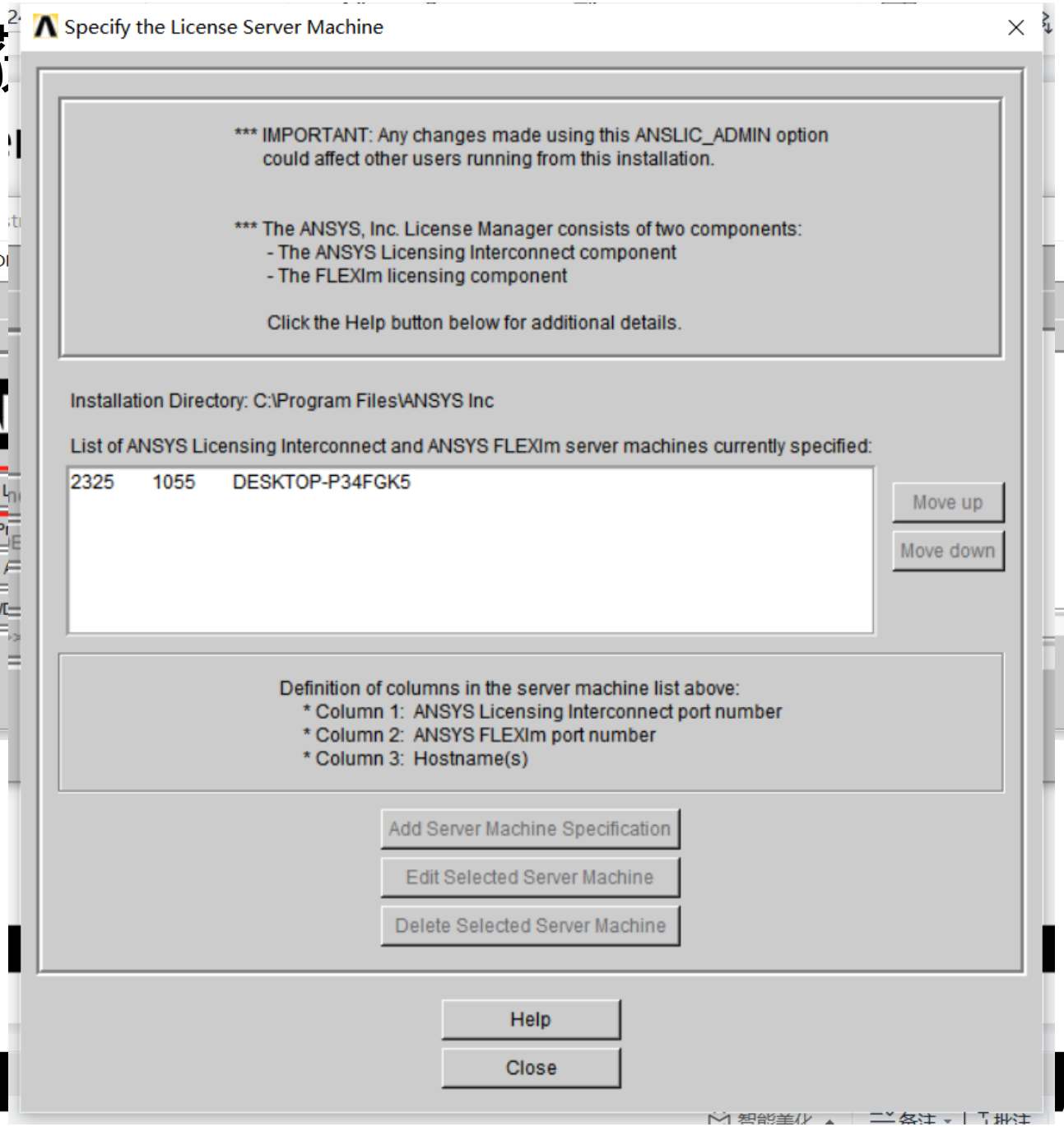

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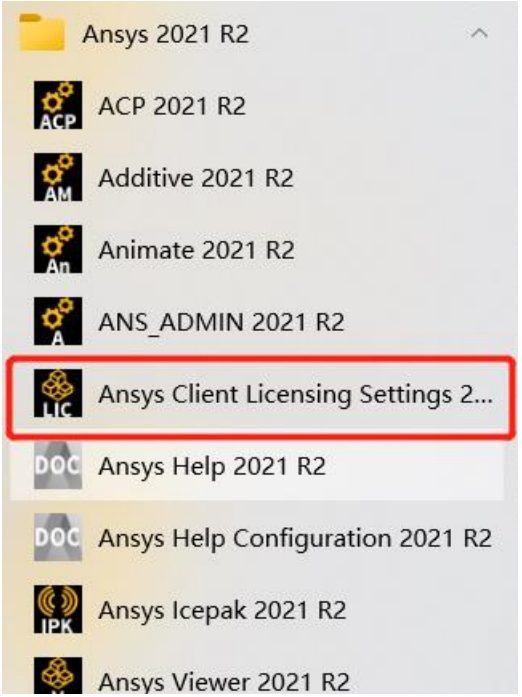
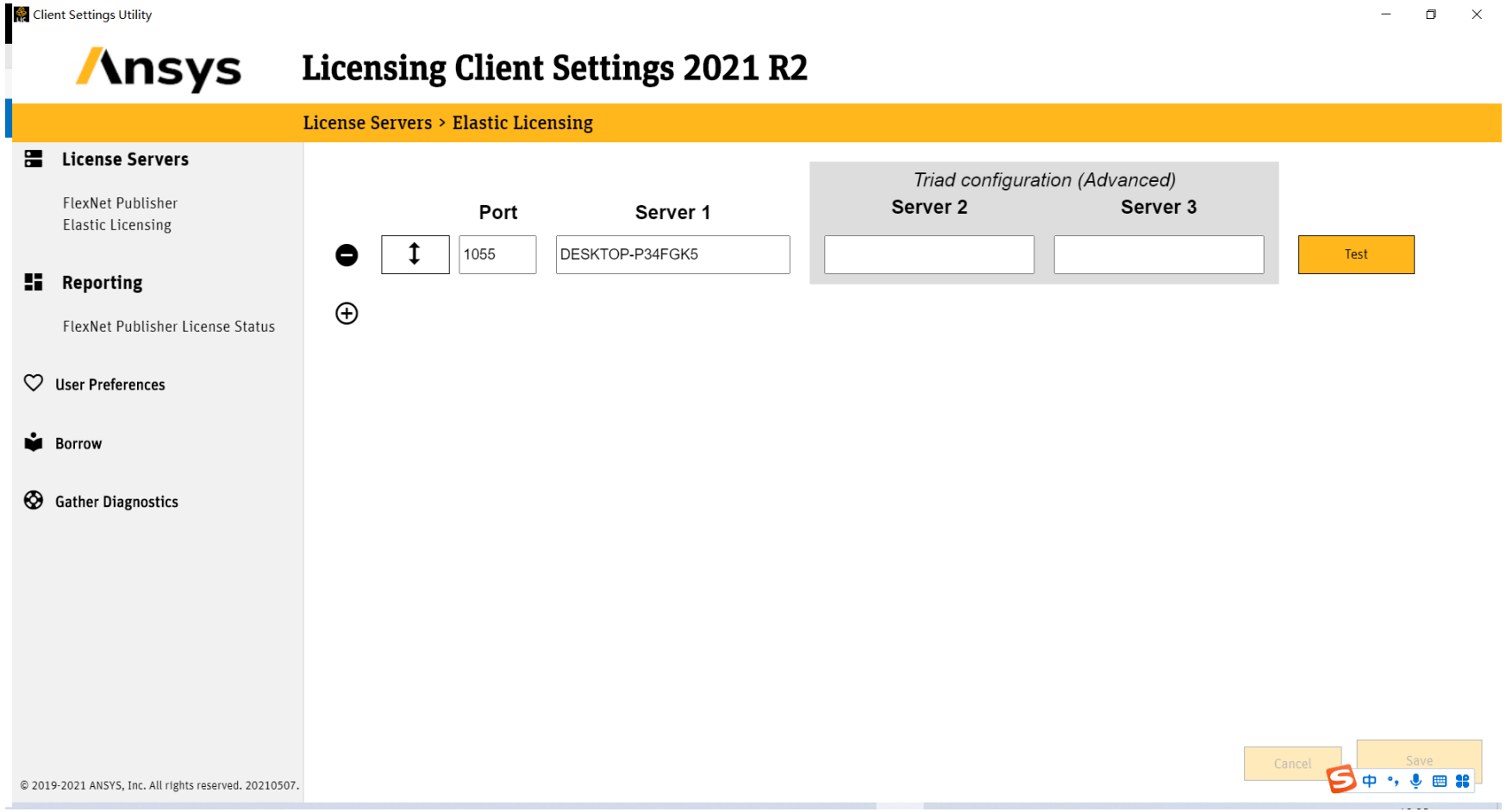
2021以后版本：





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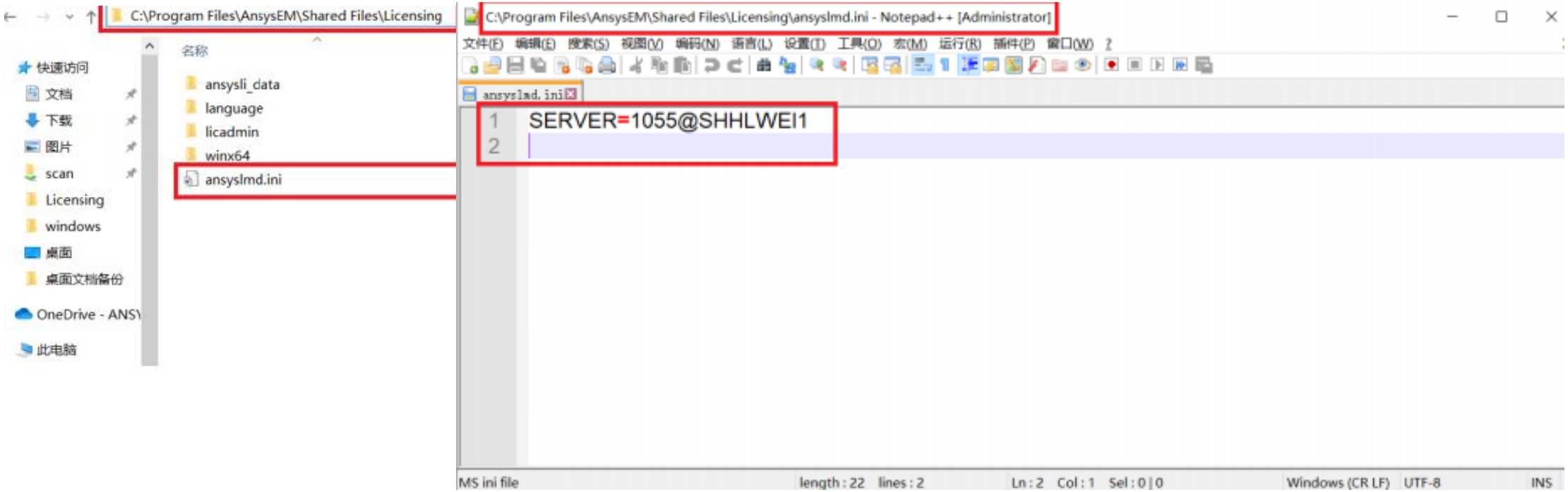

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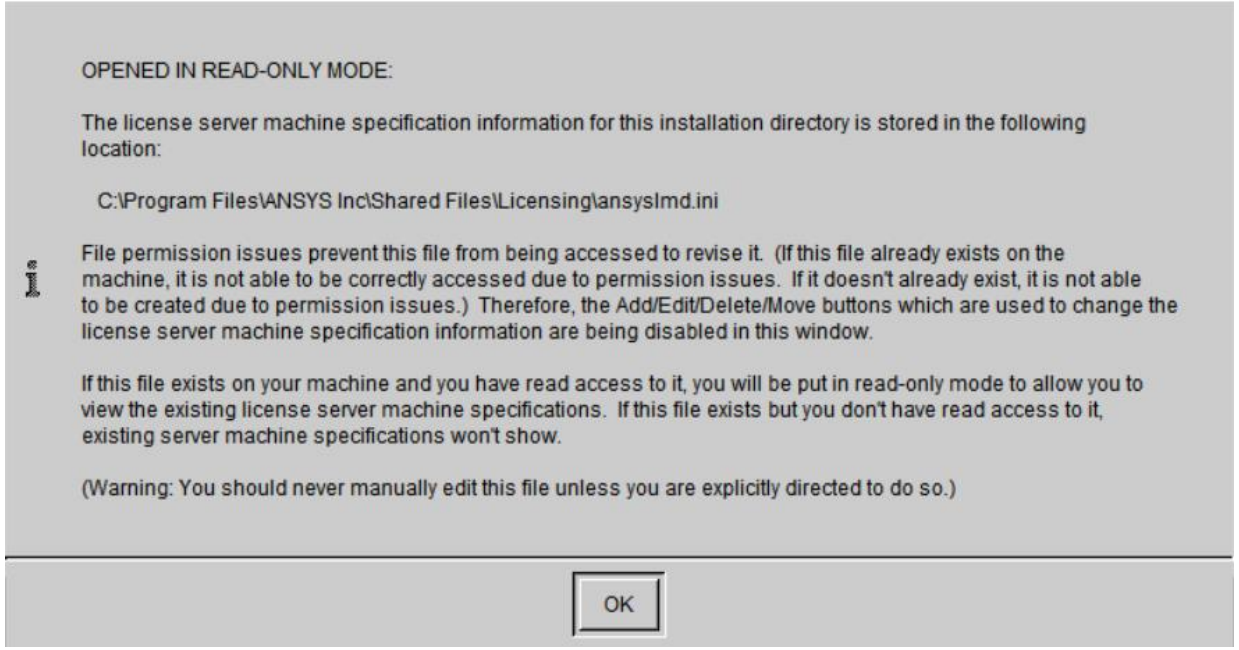
Licensing相关要点

- 所有Licensing相关操作都应以管理员身份进入
- 所有Licensing相关操作都应以管理员身份进入



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常见问题分享

常见问题分享

Fwd:Fwd: Dongguan Taising audio technology Ltd. # 1133564 (TS-LICENSE) ANSYS License Pack - Temp Key Center

2_daniel.li（李怀胜）

发给 2_zewei.liu（刘泽伟），刘岸冲, 庞丽华　　2021-04-16 11:22 隐藏信息

发件人: 2_daniel.li（李怀胜）<daniel.li@emdoor.com>

收件人: 2_zewei.liu（刘泽伟）<zewei.liu@emdoor.com>

抄送: 刘岸冲<stephen.liu@emdoor.com>，庞丽华<business@emdoor.com>

时间: 2021年4月16日 (周五) 11:22

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license-ansys_hybrid_04152... (7 KB)　ANSYSLicensingInstructio... (551 KB)

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常见问题分享

-96	License server machine is down or not Responding. **许可证服务器计算机已关闭或未响应。**	防火墙设置： 许可证服务器上运行的防火墙可能会阻止 ANSYS 许可证管理器使用的端口上的通信。 Add: C:\Program Files\ANSYS Inc\Shared Files\Licensing\winx64\ **lmgrd.exe and ansyslmd.exe** to your firewall exceptions as well as **port 1055 and 2325.** OR On the client machine if Windows firewall is running then please configure firewall exceptions per below. Add: C:\Program Files\ANSYS Inc\Shared Files\Licensing\winx64**ansysli_client.exe, lmgrd.exe** to your firewall. 另一种可能性是客户端计算机和许可证服务器之间的网络连接可能不是最佳的。 请尝试设置环境

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常见问题分享

17. ANSYS License 服务端分发授权时，默认是无法通过 Windows 自带的防火墙，因此需要手动添加相关防火墙放行规则，否则 ANSYS 客户端无法正常获取可用授权。需要放行的 TCP 端口及相关程序如下（假设 ANSYS License 服务端安装在默认路径下，使用默认 TCP 端口）

A：TCP 1055 端口

B：TCP 2325 端口

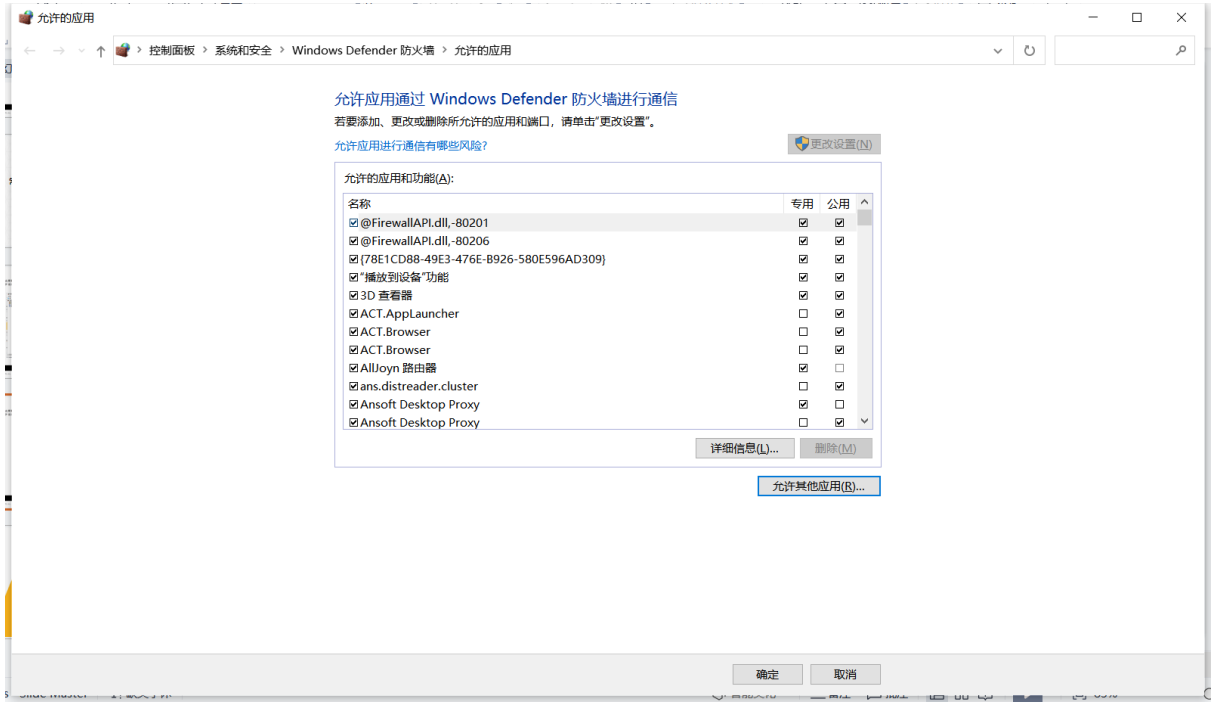
C：C:\Program Files\ANSYS Inc\Shared Files\Licensing\winx64\ansysli_server.exe

D：C:\Program Files\ANSYS Inc\Shared Files\Licensing\winx64\ansysli_client.exe

E：C:\Program Files\ANSYS Inc\Shared Files\Licensing\winx64\ansysli_monitor.exe

F：C:\Program Files\ANSYS Inc\Shared Files\Licensing\winx64\ansyslmd.exe

G：C:\Program Files\ANSYS Inc\Shared Files\Licensing\winx64\lmgrd.exe



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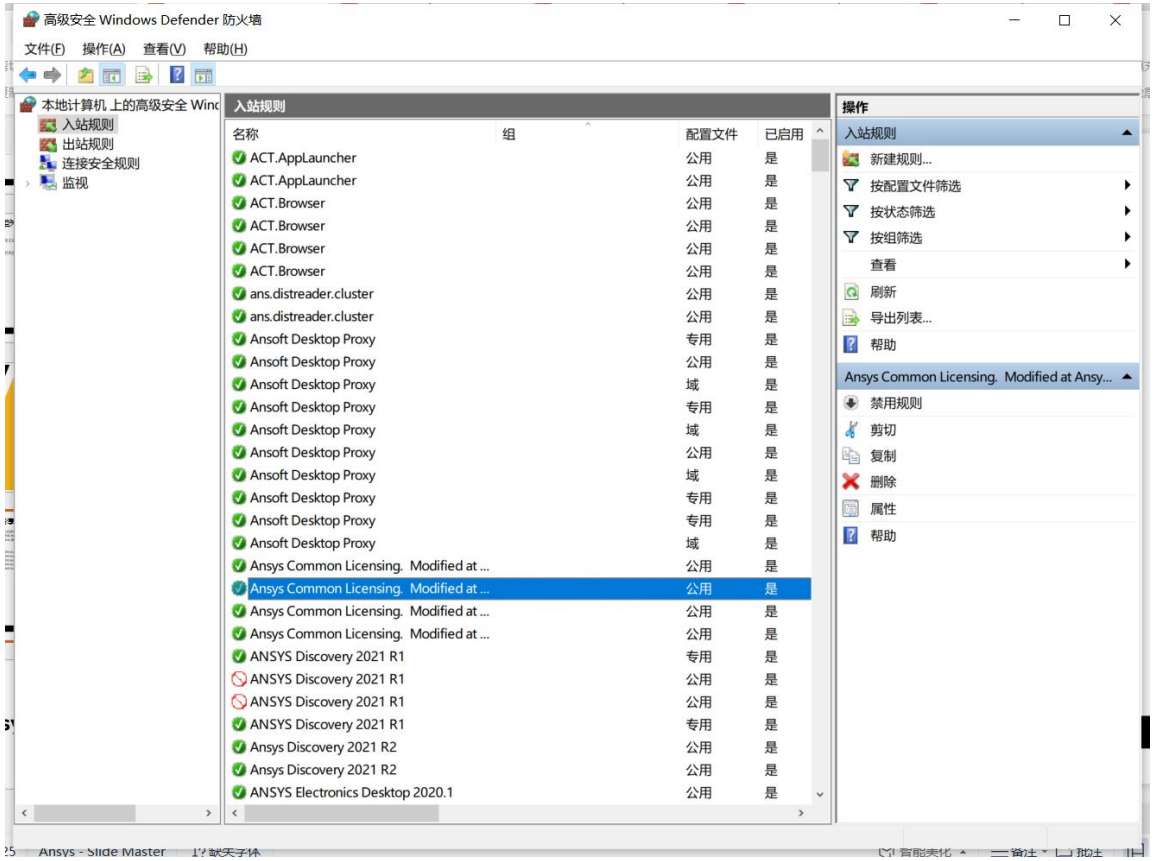
G：C:\Program Files\ANSYS Inc\Shared Files\Licensing\winx64\lmgrd.exe



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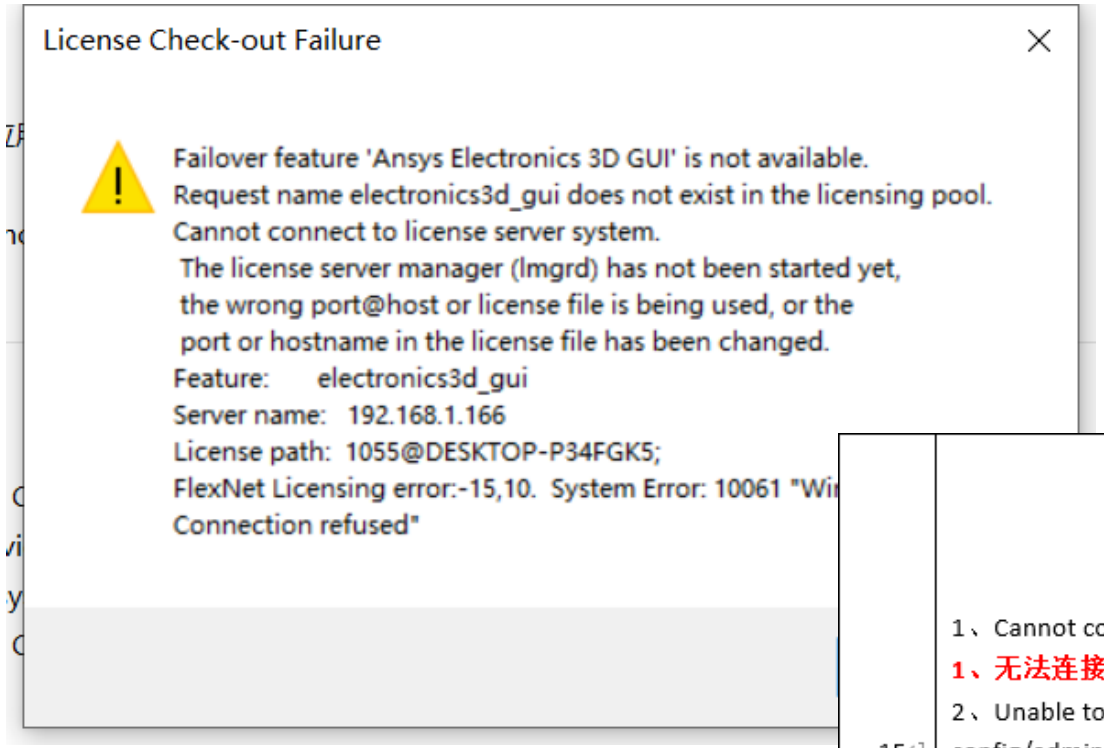
常见问题分享



-15	1、Cannot connect to license server system. **1、无法连接到许可证服务器系统。** 2、Unable to detect installed products.Please make sure that config/admin.xml exists in your installation directory and is syntactically correct **2、无法检测已安装的产品。请确保 config / admin.xml 存在于安装目录中，并且语法正确**	解决方案 1：服务器（lmadmin 或 lmgrd）尚未启动。请检查许可证管理器软件是否已在许可证服务器计算机上运行 解决方法 2：许可证文件中的 TCP / IP 端口已更改。请求许可证服务器管理员验证许可证中的 SERVER 行文件 解决方法 3：在客户端上指定了错误的端口号机。 For ANSYS CFD and Structural please open this file in a text editor C:\Program Files\ANSYS Inc\Shared Files\Licensing\ansyslmd.ini And look for line ： SERVER=1055 is default port number For ANSYS EM open file below in editor C:\Program Files\AnsysEM\admin\redirect.lic or redirect1055.lic And look for line ： SERVER <hostname> ANY 1055 解决方法 4：我的文档位置已改变或出现中文字符

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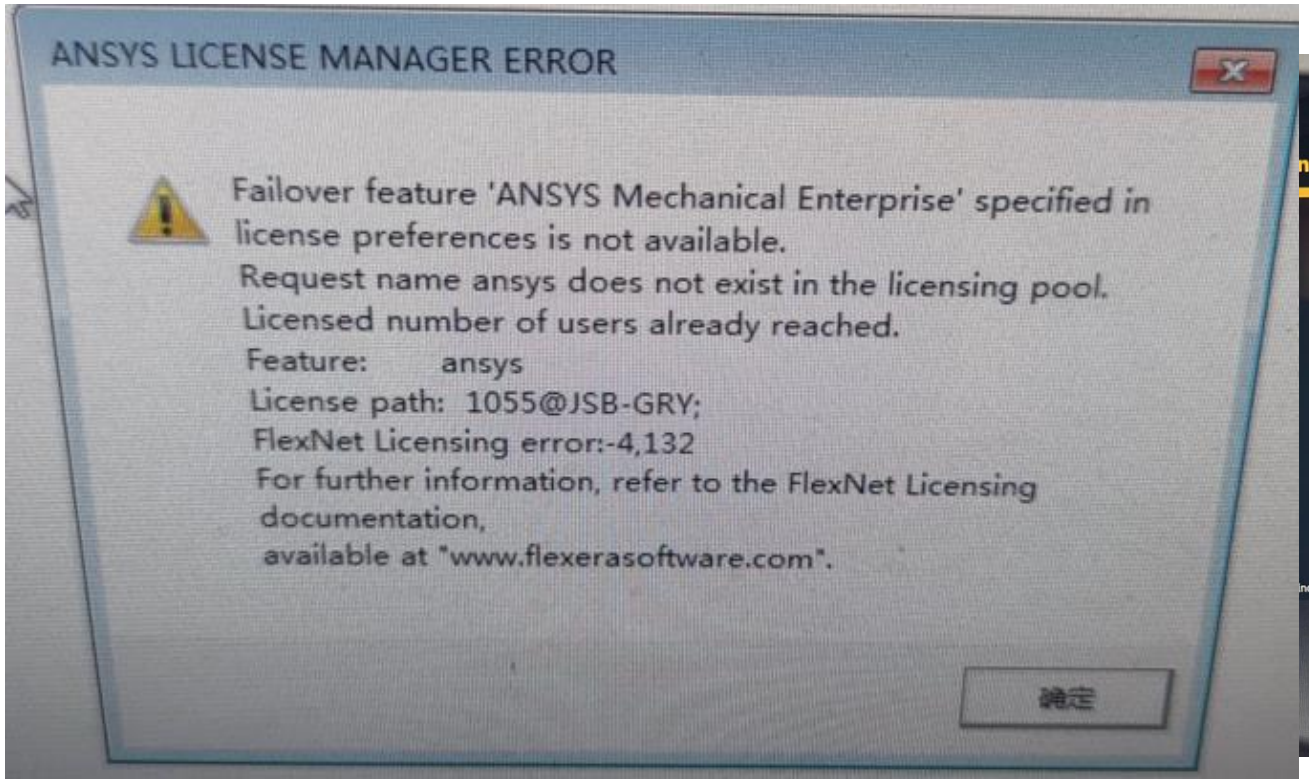

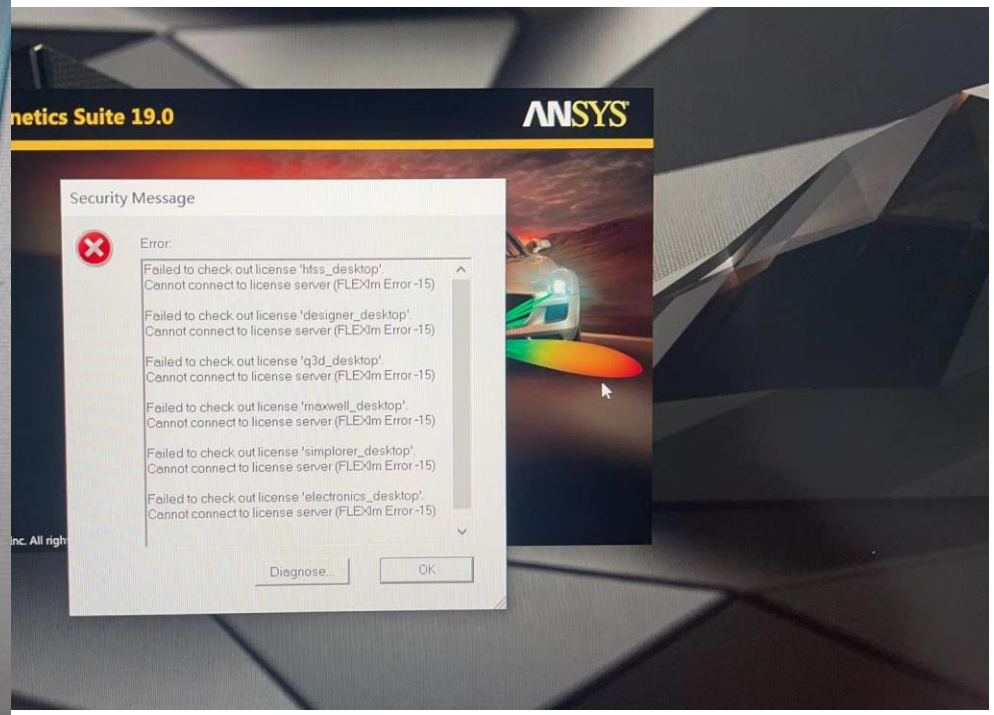

代码	提示	解决方案
-4	Licensed number of users already reached **已达到授权许可的用户数**	此错误表示所有许可证均为目前正在使用中。 请打开许可管理器工具并选择许可证状态。从这份报告，你可以确定谁在使用许可证。

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常见问题分享

代码	提示	解决方案
-4	Licensed number of users already reached **已达到授权许可的用户数**	此错误表示所有许可证均为目前正在使用中。 请打开许可管理器工具并选择许可证状态。从这份报告，你可以确定谁在使用许可证。
-13	No SERVER lines in license file **许可证文件中没有 SERVER 行**	使用 ANSYS 许可证管理中心添加许可证文件。 不要手动编辑和复制许可证文件。如果确实使用 Windows 上的记事本确保文本文件以 ANSI 编码保存。
-15	1、Cannot connect to license server system. **1、无法连接到许可证服务器系统。** 2、Unable to detect installed products.Please make sure that config/admin.xml exists in your installation directory and is syntactically correct **2、无法检测已安装的产品。请确保 config / admin.xml 存在于安装目录中，并且语法正确**	解决方案 1：服务器（lmadmin 或 lmgrd）尚未启动。请检查许可证管理器软件是否已在许可证服务器计算机上运行 解决方法 2：许可证文件中的 TCP / IP 端口已更改。请求许可证服务器管理员验证许可证中的 SERVER 行文件 解决方法 3：在客户端上指定了错误的端口号机。 For ANSYS CFD and Structural please open this file in a text editor C:\Program Files\ANSYS Inc\Shared Files\Licensing\ansyslmd.ini And look for line ： SERVER=1055 is default port number For ANSYS EM open file below in editor C:\Program Files\AnsysEM\admin\redirect.lic or redirect1055.lic And look for line ： SERVER <hostname> ANY 1055 解决方法 4：我的文档位置已改变或出现中文字符
-18	License server system does not support this feature **许可证服务器系统不支持此功能**	许可证文件最近可能已更改 1、For ANSYS CFD or Structural reset client license preferences. 首先关闭所有 ANSYS 程序，For WINDOWS please select - Start /All Programs /ANSYS v17.X / ANSYS Client Licensing / Client ANSLIC_ADMIN Utility. For LINUX-/ansys_inc/shared_files/licensing/lic_admin/anslic_admin click on "set license preferences for user " --> 17.x --> OK --> Reset to default - Continue - OK 2、For ANSYS EDT see Solution 产品指向有问题，即默认打开了没有许可的产品 解决方案 1： 关闭 ANSYS EDT / Simplorer。将我的文档\ Ansoft \ Electronics Desktop 2016.0 重命名为旧电子 Desktop2016.0 解决方案 2： 在 ANSYS EDT / Simplorer GUI - >工具 - >选项 - >常规选项 - >桌面配置 - >设置目标配置，自定义菜单，设置示意图环境。 所有以上可以设置为 Simplorer，更改为其他

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