# Altium Designer 20 网络版安装说明

## 一、电脑配置要求

	推荐的系统要求			
操作系统	Windows 10 (64-bit only)			
处理器	英特尔®酷睿™i7 处理器或同等产品			
RAM	16GB			
硬盘容量	10GB			
硬盘	固态硬盘			
显卡	高性能图形卡(支持DirectX 10或更高版本),例如GeForce GTX 1060 / Radeon RX 470			
显示器	具有 2560x1440(或更好)屏幕分辨率的双显示器			
鼠标	用于 3D PCB 设计的 3D 鼠标,例如 Space Navigator			
阅读器	Adobe® Reader®(版本 XI 或更高版本,用于 3D PDF 查看)			
网络	网络连接			
浏览器	最新的 Web 浏览器 (IE-11, Google, Firefox 等)			
其它	Microsoft Office 64 位(DbLibs 数据库需要 office 64 位的 Microsoft Access 或者 Microsoft Excel 工具; BOM 材料清单需 要 office 64 位 Microsoft Excel 工具)			

最低系统要求			
操作系统	仅限 64 位的 Windows 7 或 Windows 8 或 Windows 10		
处理器	英特尔®酷睿™i5 处理器或同等产品		
RAM	4GB		
硬盘容量	10GB		
显卡	显卡(支持 DirectX 10 或更高版本),如 GeForce 200 系列/ Radeon HD 5000 系列/ Intel HD 4600		

显示器	显示器至少 1680x1050 (宽屏) 或 1600x1200 (4:3) 屏幕分辨 率
阅读器	Adobe®Reader®(版本 XI 或更高版本,用于 3D PDF 查看)
浏览器	最新的 Web 浏览器 (IE-11, Google, Firefox 等)
其它	Microsoft Office 64 位(DbLibs 数据库需要 office 64 位的 Microsoft Access 或者 Microsoft Excel 工具; BOM 材料清单需 要 office 64 位 Microsoft Excel 工具)

## 二、软件安装

客户拿到软件安装U盘或者下载好 Altium Designer 20 安装程序后(网盘下载链接: <u>https://pan.baidu.com/s/1OQTjsDI-hembcIVLz7zKcA</u>;首先鼠标右键点击 AltiumDesigner20Setup.exe 文件,并以管理员身份去运行安装程序。

	Manage	altium_designer_offline_insta	ller_20_0_9			
View	Application Tools					
nis PC → Do	ocuments (F:) > Baidu	uNetdiskDownload > altium_	_designer_offline_installer_20	_0_9		
	Name	^	Date modified	Туре		Size
	📕 Altium Cao	che	12/20/2019 3:35 PM	File folder		
	Extensions	;	12/20/2019 3:35 PM	File folder		
	📕 Metadata		12/20/2019 3:35 PM	File folder		
	🚴 AltiumDes	igner20Setu	** (25 (2010) 0 10 10 10 1			24,269 KB
	autorun.inf	f Open			n	1 KB
	🔛 eula.zip	Run as adm	iinistrator		_	1,849 KB
	Extensions	.ini Troublesho	ot compatibility		ti	2 KB
		Pin to Start				
		<ul> <li>Move to Or</li> </ul>	neDrive			
		당 Scan with V	Vindows Defender			
		🖻 Share				

然后在下图界面,默认点击"Next"按钮。





可在红色框选处选择条款的语言类型(注意这里语言的选择不会影响软件本 身的工具栏语言,只是针对下面这段条款),勾选接受条款内容(蓝色框选处勾 上 I accept the agreement),之后点击"Next"按钮。

ALTIUM DESIGNER	<b>License Agreement</b> To continue, you must accept the End-User License Agreement.
	Please select the language you would like to use to read the agreement.
	Select language: English
	ALTIUM LLC END- Russian ALTIUM LLC END- Russian ALTIUM LLC Amended July, 2019
	IMPORTANT - READ CAREFULLY
	THIS ALTIUM LLC END-USER LICENSE AGREEMENT ("EULA") IS A LEGAL         I do not accept the agreement
20.0.9 (Build 164)	Advanced Back Next Cancel

根据设计中用到的模块选择是否安装相应的功能插件(一般情况下此处默认 就好),之后继续点击"Next"按钮。





选择软件安装路径以及软件自带文件的存放路径,此处默认路径是在 C 盘 (系统盘),用户可根据自己的情况更改路径,如果系统盘空间狭窄,建议尽量 避开系统盘安装,之后继续点击"Next"按钮。

ALTIUM DESIGNER	<b>Destination Folders</b> Select the folders where the software and documents will be installed.
	Choose where to install the program files for the software, as well as the shared documents that are accessed and used by the software.
	Program Files: C:\Program Files\Altium\AD20 Shared Documents: C:\Users\Public\Documents\Altium\AD20 Default Default
20.9 (Build 164)	<u>B</u> ack <u>N</u> ext <u>C</u> ancel

在以下界面,可以选择是否参与 Altium 软件经历收集(如果软件使用过程 中出现报错或者提示,都可以直接提交到 Altium 研发出),此处默认选择"Yes, I want to participate",之后继续点击"Next"按钮。





### 在以下界面,点击"Next"按钮开始安装。



安装过程如下。



	Installing Altium Designer The features you selected are being installed.
	Prepare Preparing files
20.09 (Build 164)	<u>Back</u> <u>N</u> ext <u>Cancel</u>

勾上 Run Altium Designer 之后,点击"Finish"按钮可直接打开该软件。



打开软件时,会跳出防火墙网络连接的安全警报窗口,选择"允许访问"。



💣 Windows	安全警	服		$\times$	
Windows Defender 防火墙已经阻止此应用的部分功能					
Windows D	efende	r 防火墙已阻止所	f有公用网络和专用网络上的 x2 的某些功能。		
	9	名称( <u>N</u> ): 发布者( <u>P</u> ):	x2 未知		
		路径(日):	C:\program files\altium\ad18\x2.exe		
允许 x2 在这些网络上通信: ☑ 专用网络,例如家庭或工作网络( <u>R</u> )					
□公用网络,例如机场和咖啡店中的网络(不推荐,由于公用网络通常安全性很小或者根本不安全) (U)					
<u> 允许应用通过防火墙有何风险?</u>					
			♥允许访问(A) 取消		

软件打开后,会出现以下界面,此处可以点击"OK"导入之前版本的软件 Preference 设置,也可以选择"Cancel"来获取默认 Preference 设置。



之后需要添加软件授权文件(即 license 文件)来激活软件,在此之前,我 们需要先将服务器端安装完成并添加好 license。

### 三、服务器安装

• 安装前的准备工作:

1. 关闭防火墙和杀毒软件,如果有加密软件,请做好设置来规避对于 AIS 安装文件的限制约束。

2. Altium Infrastructure Server 只能在 Windows 7 或者更高版本的此操作系统的电脑上安装和运行。它不能安装在 Windows XP 的 PC 上。此外,它也不能安装并运行在基本版本的操作系统 (Core, Home, Starter, Base)的 PC 上。当通过私人许可服务提供许可证时,基础架构服务器只能由 Altium Designer 16.0

### 12 亿值电子

及更高版本访问。

3. 附加软件已安装或配置

Internet 信息服务(IIS)。为了正确操作, Altium Infrastructure Server 至少 需要安装 7.5 版(IIS 7.5)。

Firebird 2.5 数据库引擎。

.NET Framework 4.0.

安装软件前,需要启动 IIS 服务。基本的步骤是在控制面板的"程序和功能", 找到"启用或关闭 windows 功能",选中"Internet Information Services",然后"Web 管理工具"下面的与 IIS 相关的都选中。

如果电脑上的.NET Framework 版本较低, Altium Infrastructure Server 在安装的时候会提示用户安装(附件软件都不需要客户单独下载)。

需要详细的系统要求,可参考如下链接:

http://www.altium.com/documentation/17.1/display/ADES/Altium+Infrastructure+Ser ver++((System+Requirements));

● 安装 AIS 服务器:

下载安装程序,下载地址: <u>http://www.altium.com/products/downloads/;</u>



下载好之后,运行安装向导:双击 Altium Infrastructure Server 1.0.1.61 文件, 如下:

Other (G:) > Altium_Infrastructure_Server_1_0_1_61							
^	Name	Date modified	Туре	Size			
s_F	Altium Infrastructure Server 1.0.1.61.exe	7/24/2017 3:48 PM	Application	179,728 KB			
	Altium Infrastructure Server CAL License	5/17/2017 4:59 PM	ALF File	2 KB			
牛!	Altium Infrastructure Server License LHLU	5/17/2017 4:59 PM	ALF File	2 KB			
r_1							

Altium 的基础架构服务器安装向导将出现,默认点击 Next;



之后会进入以下界面,选择 I accept the agreement,并点击 Next 按钮继续安

装;



在以下界面,可自定义设置安装路径,之后继续点击 Next;



🔆 Setup - Altium Infrastructure Server	_		×
Select Destination Location Where should Altium Infrastructure Server be installed?			R A
Setup will install Altium Infrastructure Server into the	following	g folder.	
To continue, click Next. If you would like to select a different fo	older, cli	ck Browse.	
C:\Program Files (x86)\Altium\Altium Infrastructure Server		B <u>r</u> owse	
At least 443.8 MB of free disk space is required.			
< <u>B</u> ack	<u>N</u> ext >	c	ancel

#### 选择 Altium Infrastructure Server 数据目录

使用向导的此页面分别指定存储数据库和修订文件的目标文件夹。默认安装 路径为:

数据库文件-C:\ProgramData\Altium\InfrastructureServerData

修订文件文件夹-C:\ProgramData\Altium\InfrastructureServerData\Revisions 要指定备用位置,只需直接在地址栏中输入位置,或单击地址栏右侧的 "Browse"按钮,然 后选择所需的目标文件夹(或即时创建)。继续单击 Next;

🔆 Setup - Altium Infrastructure Server	_		×
Select Altium Infrastructure Server Data Directory Where the app data files should be stored?			R.
Select the folders in which Altium Infrastructure Server will store	files		
Database folder: C:\ProgramData\Altium\InfrastructureServerData	E	3 <u>r</u> owse	
Revisions files folder: C:\ProgramData\Altium\InfrastructureServerData\Revisions	E	Browse	
			_
< <u>B</u> ack	xt >	Car	ncel

接着进入端口设置界面, 指定 Altium Infrastructure Server 用于网络连接的端口号。默认值为:

HTTP 端口(默认 9780) HTTPS 端口(默认 9785) 同步服务端口(默认 9790) LDAP 服务端口(默认 9791)

当选择端口时,请注意,它不能与其他应用程序使用的任何端口冲突,如果 端口当前正在使用,您将被安装程序通知。

端口号制定完毕,单击 Next 继续;

_		$\times$
		P
<u>N</u> ext >		Cancel
	Next >	Next >

之后点击 Install 开始安装,如下;



🐳 Setup - Altium Infrastructure Server	_		×
Ready to Install Setup is now ready to begin installing Altium Infrastructure Se computer.	rver on you	r	
Click Install to continue with the installation.			
< <u>B</u> ack	<u>I</u> nstall		ancel

此时,如下进度条会持续 5~20 分钟左右,具体时间决定于服务器电脑的系统配置以及权限或者 IIS 影响等各种条件;



为方便起见,安装程序的最后一页还提供访问基础架构服务器的 URL (HTTP 和 HTTPS)。Finish 之后安装完成。



#### 验证 Altium Infrastructure Server 正在运行

可以进入 Windows 系统的 Internet Information Services (IIS) Manager 信息 服务管理器面板,检查确认 Altium Infrastructure 相关应用程序池处于"已启动"状态。

DESKTOP-UHSUBC > Application Pools						
Application Pools						Actions
USC (DE) This page lets you view and manage the list of application pools on Pools	in the serve	r. Application pr	ools are associated	with worker processes,	contain one or more applications, and provide isolation among different applications.	Set Applicatio
Filten - 🍸 👷 - 🚽 Show All Group by	No Grou	ping				er Help
Neme	Status	NET CLR V.,	Managed Pipel	Identity	Applications	^
.NET v4.5	Stated	v4.0	Integrated	ApplicationPoolid	0	
NET v4.5 Classic	Started	v4.0	Classic	ApplicationPoolid	0	
217 Altium Infrastructure Server	Stated	v4.0	Integrated	NetworkService	<b>1</b>	
Altium Infrastructure Server - Applications Registry Service	Stated	v4.0	Integrated	NetworkService		
Attium Infrastructure Server - Comments Service	Stated	v4.0	Integrated	NetworkService		
Altium Infrastructure Server - Configurations Management	Stated	v4.0	Interruted	NetworkService		
Altium Infractigations Server - Data Annuisition Service	Stated	v40	Interruted	NetworkService		
Altium Infeatructure Server - Data Storage Service	Queted	v4.0	Internated	NetworkSenice		
Altium Infrastructure Server - Discovery Service	Started	v4.0	Integrated	NetworkService		
Altium Infrastructure Server - Event Dispatching Service	Started	v4.0	Integrated	NetworkService		
Attium Infrastructure Server - Home	Started	v4.0	Integrated	NetworkService		
Altium Infrastructure Server - Identity Service	Stated	v4.0	Integrated	NetworkService		
Attium Infrastructure Server - LicenseManager Service	Stated	v4.0	Integrated	NetworkService		
Altium Infrastructure Server - LicenseManager III	Stated	v4.0	Integrated	NetworkService		
Attium Infrastructure Server - MCAD Collaboration Service	Stated	40	Intervated	NetworkService		
Altium Infrastructure Server - Network Installation Manage-	Queted	v4.0	Interruted	NetworkService		
Altium Infrastructure Server - Network Installation Service	Started	v4.0	Integrated	NetworkService		
Altium Infrastructure Server - Notifications Service	Stated	v4.0	Integrated	NetworkService		
Altium Infrastructure Server - NTLM Authentication	Started	v4.0	Integrated	NetworkService		
Altium Infrastructure Server - Part Catalog Management	Stated	v4.0	Integrated	NetworkService		
Altium Infrastructure Server - Part Catalog Service	Started	v4.0	Integrated	NetworkService		
Altium Infrastructure Server - Part Catalon? Service	Stated	v4.0	Integrated	NetworkService		
Altium Infrastructure Server - Part Results Menanement	Stated	v4.0	Internated	NetworkService		
Attium Infrastructure Server - Plan Sunc Service	Stated	v4.0	Interruted	NetworkService		
Altium Infrastructure Server - Projects Management	Started	v4.0	Integrated	NetworkService		
Altium Infrastructure Server - Projects Service	Stated	¥4.0	Integrated	NetworkService		
Altium Infrastructure Server - Reports Management	Started	v4.0	Integrated	NetworkService		
Altium Infrastructure Server - Search Service	Stated	v4.0	Integrated	NetworkService		
Altium Infrastructure Server - Search Templates Service	Started	v4.0	Integrated	NetworkService		
Altium Infrastructure Server - Security Service	Stated	v4.0	Integrated	NetworkService		
Altium Infrastructure Server - Settings Service	Started	-4.0	Integrated	NetworkService		
Altium Infrastructure Server - Simple Lock Service	Stated	v4.0	Integrated	NetworkService		
Altium Infrastructure Server - Tasks Service	Started	+4.0	Integrated	NetworkService		
Altium Infrastructure Server - Team Configuration Service	Stated	v4.0	Integrated	NetworkService		
Altium Infrastructure Server - User Management	Started	+4.0	Interreted	NetworkService		
Altium Infrastructure Server - Vault Euplorer	Stated	v4.0	Integrated	NetworkService		
Altium Infrastructure Server - Vault Service	Stated	+4.0	Integrated	NetworkService		
Altium infractructure Server - VCS Management	Stated	v4.0	Integrated	NetworkService		
Altium Infrastructure Server - WebSociet Service	Stated	-4.0	Interruted	NetworkService		

之后我们可以看到桌面多了一个 Altium Infrastructure Server Health Monitor 的图标如下;





双击即可得到以下界面;

Infrastructure Server Health	Monitor - DESKTOP-IJ45U8C (this machine)		-		×
Altium Infrastructure Server	1.0.1.61			÷	G
Dashboard Log Brow	ser Status Report				
LOGS STATE	SERVICES	INFRASTRUCTURE SERVER CONFIGURATION ENVIRONMENT			
Errors: 0 🖌 Warnings: 0 🖌	Server API: Error 🔺 Web UI: OK 🛩	System user credentials:     OK     ✓     ASP_JNET registration:     OK       Admin password:     Naming     ▲     DB provider:     v4.62.0       Log level:     OK     ✓     Backups:     Error       Licenses:     Warning     ▲     Internet connection:     OK       Search Index:     OK     ✓     ✓	<ul><li>✓</li><li>▲</li><li>✓</li></ul>		
DATABASE		FILE STORAGE			
Connection: OK Firebird logs: OK Transaction count: OK		Data folder permissions: OK SVN folder permissions: OK Revisions folder permissions: OK Log folder size: 0.0 MB			
SYSTEM RESOURCES		ABOUT			
App Server Drive: (C Data Storage Drive: (C Database Storage Drive: (C System Drive: (C Physical memory: 52 Virtual memory: 84	1) 62% free     ✓       1) 62% free     ✓       2) 62% free     ✓       3) 62% free     ✓       % free     ✓       % free     ✓	Version: Altium Infrastructure Server 1.0.1.61 D8 Type: Firebird D8 User: SYSDBA File Storage Type: FileSystem File Storage Path: CAProgramData/Altium/InfrastructureServerData Application Server Path: CAProgram Files (x88)/Altium/Altium Infrastructure Server			

双击蓝色框选 Admin password,即可直接到浏览器里登录 AIS 的服务器: http://localhost:9780/shell/Account/Login?ReturnUrl=%2fusermanagement; 此处浏览器可使用 Google,火狐,IE 11 等浏览器;



输入相应的账号及密码(一般默认的账号及密码为 admin),即可登录到以下页面:

en 🛠 and drag to the Favorites Bar folder. O	)r in	nport from anothe	er browser. Im	port favori	tes					
.67	_									
				(!)	This copy of Altium Infra	structure Server is unlicensed . Add	d License			
	_		10000000							
USERS	s								A	omin -
	Ure	Rolar	DAR Supr	Services				+	Add u	ser
		is notes t	com sync	563510113						
		User Na	ame		First Name	Last Name	Email			
	[									
	2	System		System		System		1	•	×
8	2	admin		admin		admin		1	•	×



() This copy of Altium Infrastructure Server is unlicense								
JSERS	100000		_			A	DMIN	
Us	sers Roles LDAP Sync	Sessions			+ 4	Add u	ser	
	User Name	First Name	Last Name	Email				
2	System	System	System		1	•	×	
&	admin	admin	admin		1	•	×	





添加两种 license 到服务器,一种是 AIS 自身的 license【红色框选】,该 license 存在 AIS 的安装包中,另一种是客户所购的 AD license【蓝色框选】,该 license 需要客户去 Altium 官网去下载,下载地址:

https://dashboard.live.altium.com/;

are with 🔻 New folder								
Name	^		Da	te modified	Туре	Size		
- Altium Infrastructure Serv	er 1.0.1.61		7/3	24/2017 3:48 PM	Application	179,72	28 KB	
Altium Infrastructure Serv	er CAL License 3JMB-QTM	8 R10 Primary.a	lt 5/1	17/2017 4:59 PM	ALF File		2 KB	
Altium Infrastructure Serv	er License LHLU-C4SD R10	Primary.alf	5/1	17/2017 4:59 PM	ALF File		2 KB	
ERS							A	OMIN
Licenses Roles Reports			_			+ Add I	Al License	) MIN
Licenses Roles Reports Product Name	Activation Code	User Count	Start Date	Expiry Date	Subscription Status	+ Add I	Al	) MIN
Licenses Roles Reports Froduct Name Altium Infrastructure Server CAL	Activation Code 3JMB-QTM8	User Count 0 / 5	Start Date 26-Sep-2017	Expiry Date Never	Subscription Status Velid to 11-Jan-2099	+ Add I	Al License	omin •
Licenses Roles Reports  Froduct Name  Altium Infrastructure Server CAL  Altium Infrastructure Server	Activation Code 3JMB-QTM8 LHLU-C45D	User Count 0 / 5 1 / 1	Start Date 26-Sep-2017 26-Sep-2017	Expiry Date Never Never	Subscription Status Valid to 11-Jan-2099 Velid to 11-Jan-2099	+ Add I C C	At License	DMIN X

待 license 加载无误后,服务器按章完毕。

### 四、AD 软件激活

打开客户端电脑的 AD 软件,在 license 管理界面,点击 Setup private license server 去链接服务器,如下:

have standalone license file	A Extensions au	Primary server Servers list:	ſ	
Add standalone license file	How to use a	Server name:	SHAPC153	Use name
setup private license server	How to use a	Server address:	9790	Use address
Source from private license server	How to use :	2000 C	5100	Clear
		Secondary server Servers list:	' 	•
		Server name:	<u> Viji</u>	Use name
		Server address:		🔘 Use address
		Server port:		Clear
		Search	(	OK Cancel

其中,蓝色框中的 Server name 和 Server address 二选一即可,端口号为 9780; 注意:此处如果您输入的是第一行 Server name(服务器电脑的计算机名),则您需 要在弹框右边选择 Use name;如果您输入的是 Server address(服务器电脑的 IP), 则您需要在弹框右边选择 Use address;

设置输入完毕后,即可点击 OK,软件中会出现贵司所购 license 信息,鼠标 右键点击该 license,选择 Use 如下:

License Mar	nagement							
License Management Ext	tensions & Updates							
Altium Account -	not signed in							
🕹 Sign in								
👼 Forgotten password	? 🕎 SUPPORTcenter							
Account preferences								
Available License	s - Unlicensed using a valid license. Click Sign in to retrie	ve the list of available						
Private Server - Connect	ed to desktop-ij45u8c							
Product Name		Activation Code	Used	Assigned Seat Count		Expiry 20- Im	0.2020	Status
Piloutin Designer					Use	30-70	1-2020	
A Use	Save standalone license file				Roam			
Roam	Add standalone license file	How to use an on-			Refresh			
🔏 Release	5 Setup private license server	🥥 How to use a stan						
Refresh		How to use a priva						
Connected to primary priva	ate license server. You are not using any license.							

当软件中显示 Available License 字样,则证明软件激活成功。

Available Licenses	Licensed to My Organization. Lic	ense subscription v	valid to 30-Jun-2	2020.
Private Server - Connected	to desktop-ij45u8c			
Product Name		<ul> <li>Activation Code</li> </ul>	Used	Assigned Seat Co
<ul> <li>Altium Designer</li> </ul>			Used by r	ne
🔏 Use	😼 Save standalone license file		updates	
🔑 Roam	🗟 Add standalone license file	O How to use an o	on-demand license	
🖧 Release	🀱 Setup private license server	🕜 How to use a st	andalone license	
C Refresh	and the server the ser	How to use a pr	rivate server license	
Connected to primary private	license server. You are using one license.			

END!

Xiaoxiao.Ma 2019.12.25