

Suite	Engineering Suite								
V11 Platform Specifications that are supported	AES Property System 64-bit	Process Modeling (Aspen Plus) 64-bit	Exchanger Design & Rating (EDR) 64-bit ²	Process Modeling (Aspen HYSYS) 64-bit	Economic Evaluation (EE) 32-bit ⁷	Basic Engineering Desktop Client 32-bit	Basic Engineering Server 64-bit	Aspen Online (AOL) 64-bit	
	Operating Systems (64-bit only)								
	Windows 10 Anniversary (1709 LTSC) Enterprise & Professional (64-bit)	✓	✓	✓	✓	✓	✓	✓	✓
	Windows 10 Enterprise & Professional (64-bit)	✓	✓	✓	✓	✓	✓	✓	✓
	Windows 8.1 Update 1 Enterprise & Professional (64-bit)	✓	✓	✓	✓	✓	✓	✓	✓
	Windows 7 Enterprise & Professional SP1 (64-bit)	✓	✓	✓	✓	✓	✓	✓	✓
	Windows Server 2016 (build#1709)	✓	✓	✓	✓	✓	✓	✓	✓
	Windows Server 2012 R2	✓	✓	✓	✓	✓	✓	✓	✓
	Windows Server 2008 R2 SP1	✓	✓	✓	✓	✓	✓	✓	✓
Ubuntu Server Edition 16.04 LTS									
Advantech Smart Swarm 2.2.2									
Advantech Smart Router Series coLinux									
Safari on iOS 11+ for iPad Support									
Microsoft Office									
Office 365 (Desktop/Click-to-run)	✓	✓	✓	✓	✓	✓		✓	
Office 2016 (64-bit) Products to transition to 64-bit Office	✓	✓ ³	✓	✓	✓	✓		✓	
Office 2016 (32-bit)	✓	✓	✓	✓	✓	✓		✓	
Office 2013 SP1 (32-bit)	✓	✓	✓	✓	✓	✓		✓	

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	Office 2010 SP2 (32-bit)	✓	✓	✓	✓	✓	✓	
Database Servers								
Microsoft SQL Server 2017 (Enterprise/Standard Edition)	✓	✓		✓	✓		✓	
Microsoft SQL Server 2017 (Express Edition)	✓	✓		✓	✓		✓	
Microsoft SQL Server 2016 SP1 (Enterprise/Standard Edition)	✓	✓		✓	✓		✓	
Microsoft SQL Server 2016 SP1 (Express Edition)	✓	✓		✓	✓		✓	
Microsoft SQL Server 2014 SP2 (Enterprise/Standard Edition)	✓	✓		✓	✓		✓	
Microsoft SQL Server 2014 SP2 (Express Edition)	✓	✓ ⁴	✓	✓	✓		✓	✓
Microsoft SQL Server 2012 SP3 (Enterprise/Standard Edition)	✓	✓		✓	✓		✓	
Microsoft SQL Server 2012 SP3 (Express Edition)	✓	✓		✓	✓		✓	
SQL Server Local DB	✓	✓	✓ ⁵	✓	✓		✓	
SQL Server 2012 Analysis Services								
Oracle Database 12.2.x 64-bit							✓	
Oracle Database 11.2.x 64-bit							✓	
Database Clients								
Microsoft SQL Server 2017 (Express Edition)								
Microsoft SQL Server 2016 SP1 (Express Edition)								
Microsoft SQL Server 2014 SP2 (Express Edition)								
Microsoft SQL Server 2012 SP2 (Express Edition)								

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Microsoft SQL Server 2008 R2 SP3 (Express Edition)								
Oracle Client 12.1.0.2 32-bit								
Oracle Client 11.2.0.4 32-bit								
Oracle Client 12.2.x 64-bit							✓	
Oracle Client 11.2.x 64-bit							✓	
Runtimes								
.NET Framework 4.7.1	✓	✓	✓	✓	✓	✓	✓	✓
.NET Framework 4.0								
.NET Framework 3.5								
32-bit Java 8 JRE update 151					✓			
32-bit Java 8 JDK update 151					✓			
64-bit Java 8 JRE update 151					✓			
64-bit Java 8 JDK update 151					✓			
32-bit AdoptOpenJDK Java 8 u181								
64-bit AdoptOpenJDK Java 8 u181								
MSXML 6	✓	✓	✓	✓	✓	✓	✓	✓
Visual Studio 2013, 2015, 2017								
Microsoft Visual C++ Redistributable 2017			✓	✓				
Microsoft Visual C++ Redistributable 2015			✓	✓				
Microsoft Visual C++ Redistributable 2013			✓	✓				

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	Visual Studio 2017 Tools for Office Runtime						✓		
	Visual Studio 2010 Tools for Office Runtime						✓		
	Virtualization								
	Microsoft App-V 5.1								
	Microsoft Hyper-V (Server)	✓	✓	✓	✓	✓	✓	✓	✓
	VMware ESX Server 6.0 (Server)	✓	✓	✓	✓	✓	✓	✓	✓
	Microsoft Terminal Services (Desktop)	✓	✓	✓	✓	✓	✓		✓
	Citrix XenApp 7.14 (Desktop)	✓	✓	✓	✓	✓	✓		✓
Web Browsers									
Internet Explorer 11	✓	✓	✓	✓	✓			✓	
Microsoft Edge									
Google Chrome Evergreen Version 104+									
Safari on iOS 11+ for iPad Support									
Security Components/Services									
Aspen Framework (AFW) 5									
Non-Domain Security Group									
Microsoft Active Directory / Active Directory Domain Services									
Java App (Servers)									

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Apache Tomcat 8.5+								
Web Servers								
IIS 10							✓	
IIS 8.5							✓	
IIS 7.5							✓	
Reporting Services								
Microsoft Report Viewer 2010 SP1					✓			
Microsoft SQL Server 2008 R2/2012/2014/2016/2017 Reporting Services								
Crystal Reports 8.5								
Crystal Reports 11					✓			
Malware Blocking Features								
DEP-Data Execution Prevention	✓	✓	✓	✓	✓	✓	✓	✓
Integration Components								
Aspen Supply Chain Connect								
Informatica Powercenter 10.2 HF1								
Cloud Support *								
Azure VM - Microsoft	✓	✓	✓	✓	✓			
Amazon VM (AWS)	✓	✓	✓	✓	✓			

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Azure VM - Linux								
Azure SQL								
Azure Cloud Service (Worker Role)								
Azure App Service (Web App)								
Azure CosmosDB								
Azure Redis Cache								
Azure IoT Hub								
Storage Account								
Nutanix Frame	✓	✓	✓	✓	✓			
Azure Virtual Apps Essentials	✓	✓	✓	✓	✓			
Deployment Tools								
SCCM 2016 (version 1606)	✓	✓	✓	✓	✓	✓		✓
SCCM 2012 R2 SP1	✓	✓	✓	✓	✓	✓		✓
Built With								
FORTRAN 2017		✓ ⁶						
Desktop Types - Minimum Recommended								

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Type I: Computer & processor: Intel Core-i5 family or faster Memory (RAM): 16 gigabytes (GB) RAM Hard Disk: 120 gigabytes (GB) available Monitor: Graphics hardware acceleration requires a DirectX10 graphics card and a 1280 x 1024 or higher resolution monitor Network: 100MB/Sec	✓		✓	✓	✓	✓	✓	✓
Type II: Computer & processor: Intel Core-i5 family or faster Memory (RAM): 16 gigabytes (GB) RAM Hard Disk: 250 gigabytes (GB) available Monitor: Graphics hardware acceleration requires a DirectX10 graphics card and a 1280 x 1024 or higher resolution monitor Network: 100MB/Sec		✓						
Server Types - Minimum Recommended								
Type I: Computer & processor: Intel Core-i7 family or faster for standalone deployment Intel Xeon Gold series, 4 cores or more for multi-user environment Memory (RAM): 16 or above gigabytes (GB) RAM for standalone deployment, 16 or above gigabytes (GB) RAM for multi-user environment Hard Disk: 150 gigabytes (GB) available for standalone deployment, 300 gigabytes (GB) for multi-user environment Monitor: Graphics hardware acceleration requires a DirectX10 graphics card and a 1280 x 1024 or higher resolution monitor Network: 100MB/Sec							✓	
Type II: Computer & processor: Intel Xeon Gold series type system (4 cores) or faster Memory (RAM): 16 or above gigabytes (GB) RAM Hard Disk: 300 gigabytes (GB) or more available Monitor: Graphics hardware acceleration requires a DirectX10 graphics card and a 1280 x 1024 or higher resolution monitor Network: 100MB/Sec (Gigabyte network recommended)								

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Type III: Computer & processor: 4 x Intel (8 cores) or faster Memory (RAM): 32 or above gigabytes (GB) RAM Hard Disk: 500 gigabytes (GB) or more available Monitor: Graphics hardware acceleration requires a DirectX10 graphics card and a 1280 x 1024 or higher resolution monitor Network: 100MB/Sec (Gigabyte network recommended)	✓ ¹							✓ ¹
Type IV: (IIoT Gateways) Computer & processor: ARM or Intel based CPU or more Memory (RAM): 256Mb or more Hard Disk: 128Mb or more								
Notes * In general, AspenTech aspenONE® software license agreements with customers permit use of the licensed software on Supported Computers at customer Sites. "Supported Computers" include computers with a manufacture, model and operating system for which AspenTech offers a supported version of the software, and that are controlled by the customer. "Sites" are customer facilities or locations specified in the license agreement. AspenTech permits customer use of licensed aspenONE software in the cloud where: (i) the Platform Support specifications published by AspenTech for the relevant version of the software product include cloud support; (ii) only the customer has access to the licensed software hosted by the cloud service provider; and (iii) the user is accessing the software only from a Site specified in the applicable license agreement. Cloud deployment does not change any license restrictions, including the restrictions on which regions can access the software. When running software on a virtual machine, the machine should meet the same requirements.	aspenONE Engineering suite consists of the following products: Aspen Plus family, Aspen HYSYS family, Aspen Exchanger Design & Rating (EDR), Aspen Economic Evaluation (EE), Aspen Basic Engineering (ABE), aspenONE Web Server, and aspenONE Exchange.							

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AspenTech does not support the in-place upgrade of the Operating System (for example: upgrade Windows 7 to Windows 10) with AspenTech software already installed. Our recommendation is to uninstall Aspen Software before upgrading the OS and reinstall it after the upgrade.

Your Aspen SLM Server must be installed and running prior to installing any V11 product.

If running standalone, 1280 x 800 is the minimum recommended resolution monitor for servers.

For SLM server using the Type 1 Desktop configuration, the minimum memory is 4GB with 20GB hard drive.

Microsoft Active Directory/Domain Services (Required for aspenONE Web Server)

¹ This configuration is only practical for small scale models and deployments. For most

² EDR does not use any database servers. Deploys its own LocalDB database files.

³ Aspen Batch Process Developer does not support the 64-bit version of Visio. Visio is used in ABPD to generate the block diagram and process flow diagram reports; it is an optional feature. The 64-bit versions of Word and Excel are fully supported by ABPD.

⁴ When Aspen Utility model is driven by Aspen Online using Local System Account, then SQL Express 2014 is required.

⁵ When Exchanger Design and Rating is driven by Aspen Online using Local System Account, then SQL Express 2014 is required

⁶ Aspen Modeler family supports FORTRAN compiler version 2017 or 2019

⁷ Oracle Java is needed if the 3rd party scheduling application Primavera is used with Economic Evaluation (EE). Primavera is owned by Oracle and its API uses Java.