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 11 Enterprise & Professional (64-bit)	✓	✓	✓	✓	✓	✓	✓	✓
Windows 10 Anniversary Enterprise & Professional (64-bit)	✓	✓	✓	✓	✓	✓	✓	✓
Windows 8.1 Update 1 Enterprise & Professional (64-bit)	✓	✓	✓	✓	✓	✓	✓	✓
Windows 7 Enterprise & Professional SP1 (64-bit)	✓	✓	✓	✓	✓	✓	✓	✓
Windows Server 2019 [22]								
Windows Server 2016	✓	✓	✓	✓	✓	✓	✓	✓
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)	✓	✓[3]	✓	✓	✓	✓		✓
Office 2019 (64-bit)	✓	✓	✓	✓	✓	✓		✓
Office 2019 (32-bit)	✓	✓	✓	✓	✓	✓		✓
Office 2016 (64-bit)	✓	✓[3]	✓	✓	✓	✓		✓

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Office 2016 (32-bit)	✓	✓	✓	✓	✓	✓		✓
Office 2013 SP1 (32-bit)	✓	✓	✓	✓	✓	✓		✓
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)								

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Microsoft SQL Server 2014 SP2 (Express Edition)								
Microsoft SQL Server 2012 SP2 (Express Edition)								
Microsoft SQL Server 2008 R2 SP3 (Express Edition)								
Oracle Client 18.3 32-bit								
Oracle Client 18.3 64-bit								
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					✓			
64-bit AdoptOpenJDK Java 8 u181								
32-bit AdoptOpenJDK Java 8 u181								
MSXML 6	✓	✓	✓	✓	✓	✓	✓	✓
Visual Studio 2013, 2015, 2017								
Microsoft Visual C++ Redistributable 2017			✓	✓				

V11 Platform Specifications that are supported	Engineering Suite							
	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
Microsoft Visual C++ Redistributable 2015			✓	✓				
Microsoft Visual C++ Redistributable 2013			✓	✓				
Visual Studio 2010 Tools for Office Runtime						✓		
Virtualization								
Microsoft App-V 5.1								
Microsoft Hyper-V (Server)	✓	✓	✓	✓	✓	✓	✓	✓
VMware ESX Server 6.x (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)								

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
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)	✓	✓	✓	✓	✓			
Azure VM - Linux								

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
Windows Virtual Desktop (WVD Fall 2019 Release) [27]	✓	✓	✓	✓	✓			
Nutanix XiFrame	✓	✓	✓	✓	✓			
Azure Virtual Apps Essentials	✓	✓	✓	✓	✓			
Deployment Tools								
SCCM 2016 (version 1606)	✓	✓	✓	✓	✓	✓		✓
SCCM 2012 R2 SP1	✓	✓	✓	✓	✓	✓		✓
Built With								
FORTRAN 2017		✓[6]						
Desktop Types - Minimum Recommended								
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								

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
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	✓30	✓30	✓30	✓30	✓30		✓	
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)								
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								

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
* 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.	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.							
When running software on a virtual machine, the machine should meet the same requirements.								
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 applications, best deployment practice dictates the use of a separate and dedicated database server for								
[2] EDR does not use any database servers. Deploys its own LocalDB database files.								

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

[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.

[8] Must be in compatibility mode for Aspen Process Sequencer

[9] See "Basic Deployment Recommendations" in Appendix C of the Aspen Manufacturing Suite Advanced Process Control Installation Guide.

[10] For new installations of APC Web Server, install IIS and JRE before installing APC Web Server

[11] CIM-IO Interfaces can be installed on 32-bit desktops

[12] This configuration is only practical for small scale models and deployments. For most applications, best deployment practice dictates the use of a separate and dedicated database server for acceptable

[13] Refer to KB 47648 For more information on configuring SCM products using Azure:

[14] Oracle Database 12.1.0.2 is supported for Collaborative Forecasting, not 12.2.x.

[15] ASCC web applications and the Informatica client will work only with MS Office 32-bit. Informatica Server uses 64-bit Office only.

[16] Non-English OS's are not supported

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17 If using IBM Maximo Adapter
18 1 If using aspenONE Exchange on Windows Server 2012 R2, you must select the Desktop Experience option during Windows installation to enable Flash training videos.
19 SLM supported in cloud (Azure VM/Amazon VM) for ENG products that are supported in the cloud
20 If FIPS is enabled, aspenONE Exchange users must have the latest Windows Update patches installed on their machine.
21 Office 365 - 32-bit support only
22 Requires the latest patches of the corresponding AspenTech software
27 WVD Certification Notes –   1. Publishing WVD apps to users local machine start menu not supported   2. Interoperability with 3rd party products only supported with Office 365   3. Aspen Properties Enterprise Database (APED) via SQL Server not supported   4. The following products have not been certified for WVD: ABE, ABPD, AOL, AVCA
28 APEM does not support CDB-PDB database in Oracle 12.2.   Weigh & Dispense Client 32-bit does not support Oracle
29 APP-V is only supported with Process Explorer
30 When you have more than 8 simultaneous users, the recommendation is 2CPU's and 4GB RAM per user. Performance will vary based on product and usage profiles. This can be considered a starting point for large multi-user machines.

12/3/2021