Suite	Manufacturing & Supply Chain Suite						
	Advanced Process Control (APC)						
V12.1 Platform Specifications that are supported	Advanced Process Control (APC) Desktop 32-bit	Advanced Process Control (APC) Online 32-bit	Batch Advanced Process Control (APC) Online 64-bit	Advanced Process Control (APC) Performance Monitor 32-bit	Advanced Process Control (APC) Web Server	Aspen Process Recipe (client) 32-bit	Aspen Process Recipe & Aspen Process Sequencer (server) 32-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 Server 2019	✓	✓	✓	✓	✓	✓	✓
Windows Server 2016	✓	✓	✓	✓	✓	✓	✓
Windows Server 2012 R2	✓	✓	✓	✓	✓	✓	✓
Ubuntu Server Edition 20.04 LTS							
Ubuntu Server Edition 18.04 LTS							
Ubuntu Server Edition 16.04 LTS							
Microsoft Office							
Office 365 (Desktop/Click-to-run) (32-bit/64-bit)							
Office 2021 (64-bit)							
Office 2021 (32-bit)							
Office 2019 (64-bit)							
Office 2019 (32-bit)							
Office 2016 (64-bit)							
Office 2016 (32-bit)							
Office 2013 (32-bit)							
Database Servers							
Microsoft SQL Server 2019 (Enterprise/Standard Edition)							✓
Microsoft SQL Server 2019 (Express Edition)						✓	
Microsoft SQL Server 2017 (Enterprise/Standard Edition)							✓
Microsoft SQL Server 2017 (Express Edition)						✓	
Microsoft SQL Server 2016 (Enterprise/Standard Edition)							✓
Microsoft SQL Server 2016 (Express Edition)						✓	

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Microsoft SQL Server 2014 (Enterprise/Standard Edition)							✓
Microsoft SQL Server 2014 (Express Edition)						✓	
Microsoft SQL Server 2012 (Enterprise/Standard Edition)							✓
Microsoft SQL Server 2012 (Express Edition)						✓	
SQL Server 2014 Local DB							✓
SQL Server 2016 Local DB							
SQL Server 2012 -2019 Analysis Services							
ProgresSQL 13.2							
Oracle Database 19.x.x 64-bit							
Oracle Database 18.x.x 64-bit							
Oracle Database 12.2 64-bit							
Database Clients							
Oracle Client 19.x 32-bit							
Oracle Client 19.x 64-bit							
Oracle Client 18.x 32-bit							
Oracle Client 12.2 64-bit							
Oracle Client 12.2 32-bit							
Runtimes							
.NET Framework 4.8	✓	✓	✓	✓	✓	✓	✓
.NET Framework 3.5							
.NET Core 3.1.x							
ASP.NET Core 3.1.x							
64-bit Oracle Java 11 JRE LTS							
64-bit Oracle Java 11 JDK LTS							
64-bit Oracle Java 8 JRE LTS							
64-bit Oracle Java 8 JDK LTS							

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32-bit AdoptOpenJDK Java 11 LTS							
64-bit AdoptOpenJDK Java 11 LTS			✓		✓[10]		
64-bit AdoptOpenJDK Java 8 LTS							
MSXML 6	✓	✓	✓	✓	✓	✓	✓
Visual Studio 2019							
Visual Studio 2017							
Visual Studio 2015							
Visual Studio 2013							
Visual Studio 2010 Tools for Office Runtime							
Microsoft Visual C++ Redistributable 2019							
Microsoft Visual C++ Redistributable 2017	✓	✓	✓	✓	✓	✓	✓
Microsoft Visual C++ Redistributable 2015	✓	✓	✓	✓	✓	✓	✓
Microsoft Visual C++ Redistributable 2013							
Virtualization							
Microsoft App-V 5.1							
Microsoft Hyper-V (Server)	✓	✓	✓	✓	✓	✓	✓
VMware ESXi Hypervisor Server 6.x (Server)	✓	✓	✓	✓	✓	✓	✓
VMWare vSphere Enterprise Plus							
Microsoft Terminal Services (Desktop)	✓					✓	
Citrix XenApp 7.18 (Desktop)							
Web Browsers							
Internet Explorer 11	✓	✓	✓	✓	✓	✓[8]	✓[8]
Microsoft Edge [25]	✓	✓	✓	✓	✓	✓	✓
Google Chrome Evergreen Version 75+	✓	✓	✓	✓	✓	✓	✓
Firefox							
Chrome on iOS 13+ for iPad Support							
Safari on iOS 13+ for iPad Support							

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Security Components/Services							
Aspen Framework (AFW) 5	✓		✓		✓	✓	✓
Java App (Servers)							
Apache Tomcat 9.0+							
Native Web Servers							
IIS 10					✓[9]		
IIS 8.5					✓[9]		
Reporting Services							
Microsoft Report Viewer 2015							
Microsoft SQL Server 2012/2014/2016/2017/2019 Reporting Services							
Load Balancing							
F5 Load Balancing							
Integration Components							
Aspen Supply Chain Connect							
Informatica Powercenter 10.4							
Cloud Support *							
Azure VM - Microsoft	✓						
Amazon VM (AWS)							
Azure VM - Linux							
Nutanix XiFrame							
Virtual Apps Essentials							
Windows Virtual Desktop (WVD Fall 2019 Release) [27]	✓						
Deployment Tools							
SCCM							
Supported Versions of Fortran							
FORTRAN 2019	✓	✓		✓	✓		
Container Support							
Docker Engine-Enterprise 19.03.x							
Docker Compose 1.26.x							

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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 1440 x 900 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 1440 x 900 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, 32 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 1440 x 900 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 1440 x 900 or higher resolution monitor Network: 100MB/Sec (Gigabyte network recommended)		✓[9]			✓[9]		✓
Type III: Computer & processor: Intel Cascade Lake-based Xeon processor with 8 cores or more per processor 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 1440 x 900 or higher resolution monitor Network: 100MB/Sec (Gigabyte network recommended)				✓[9]			
Type IV: (IIoT Gateways) Computer & processor: ARM or Intel based CPU or more Memory (RAM): **256Mb** or more Hard Disk: **128Mb** or more							
Type V Windows Server 2019 v1809+ Memory (RAM in GB): Minimum: 16 Recommended: 32 Cores: Minimum: 4, Recommended: 8 Disk space (GB): Minimum: 64, Recommended: 100 Network (MB/s): Minimum: 50, Recommended: 100							

Notes

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* 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.	Advanced Process Control (APC) suite consists of the following products: Aspen DMCplus, Aspen DMC3, Aspen Watch Performance Monitor, Aspen PID Watch Performance Monitor, Aspen RTO Watch Performance Monitor, Aspen Inferential Qualities, and Aspen Process Recipe & Aspen Process Sequencer.						

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 V12 product.

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

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

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

A minimum of 10GB of free space is needed to install/upgrade products.

[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 acceptable performance

[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 2020

[7] Oracle or AdoptOpenJDK 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

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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: https://esupport.aspentech.com/S_Article?id=000047648

14 Only Web Download Excel Add-in requires Excel.

15 Users need to install both the 32-bit and 64-bit Oracle Clients 19.x for building and running reports

16 Non-English OS's are not supported

17 If using IBM Maximo Adapter

18 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 Server-grade systems are not required but still supported.

23 Browser Support as it relates to Knowledge Delivery only (for +A)

24 ATOMS Web does not support Oracle

25 Only the version of MS Edge that uses the Google Chrome engine is supported

26 Maestro supports Windows Server 2019 version 1809+

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 SCCM support for APEx only

30 APM Insights must be installed on the same server as AEI.

31 OptiPlant requires a graphic card which supports OpenGL 2.1. Resolution 1920 x 1080 is recommended.

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32 Type II is the minimum recommended when IP.21 is used with Enterprise InfoPlus.21 Historian.

33 Aspen OptiRouter is dependent on Hexagon S3D platform which supports Windows Server 2012 R2.

34 Required for web terminal, which is optional

35 Azure support is available with V12 CP1

36 APM Insights Quantification must be installed on the same server as Fidelis

37 APP-V is only supported with Process Explorer

38 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.

1/5/2022