





Suite	Manufacturing & Supply Chain Suite							
V12.1 Platform Specifications that are supported	Advanced Process Control (APC)							
	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	
	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								
<b>Virtualization</b>								
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)								
<b>Web Browsers</b>								
Internet Explorer 11	✓	✓	✓	✓	✓	✓ <sup>8</sup>	✓ <sup>8</sup>	
Microsoft Edge <sup>25</sup>	✓	✓	✓	✓	✓	✓	✓	
Google Chrome Evergreen Version 75+	✓	✓	✓	✓	✓	✓	✓	
Firefox								
Chrome on iOS 13+ for iPad Support								
Safari on iOS 13+ for iPad Support								
<b>Security Components/Services</b>								
Aspen Framework (AFW) 5	✓		✓		✓	✓	✓	
<b>Java App (Servers)</b>								
Apache Tomcat 9.0+								

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	<b>Native Web Servers</b>								
	IIS 10					✓ <sup>9</sup>			
	IIS 8.5					✓ <sup>9</sup>			
	<b>Reporting Services</b>								
	Microsoft Report Viewer 2015								
	Microsoft SQL Server 2012/2014/2016/2017/2019 Reporting Services								
	<b>Load Balancing</b>								
	F5 Load Balancing								
<b>Integration Components</b>									
Aspen Supply Chain Connect									
Informatica Powercenter 10.4									
<b>Cloud Support *</b>									
Azure VM - Microsoft	✓								
Amazon VM (AWS)									
Azure VM - Linux									
Nutanix XiFrame									
Virtual Apps Essentials									
Windows Virtual Desktop (WVD Fall 2019 Release) <sup>27</sup>	✓								
<b>Deployment Tools</b>									
SCCM									
<b>Supported Versions of Fortran</b>									
FORTTRAN 2019	✓	✓		✓	✓				
<b>Container Support</b>									
Docker Engine-Enterprise 19.03.x									
Docker Compose 1.26.x									
<b>Desktop Types - Minimum Recommended</b>									

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<b>Type I:</b> Computer & processor: Intel Core-i5 family or faster Memory (RAM): <b>16</b> gigabytes (GB) RAM Hard Disk: <b>120</b> gigabytes (GB) available Monitor: Graphics hardware acceleration requires a DirectX10 graphics card and a 1440 x 900 or higher resolution monitor Network: 100MB/Sec	✓					✓	
<b>Type II:</b> Computer & processor: Intel Core-i5 family or faster Memory (RAM): <b>16</b> gigabytes (GB) RAM Hard Disk: <b>250</b> gigabytes (GB) available Monitor: Graphics hardware acceleration requires a DirectX10 graphics card and a 1440 x 900 or higher resolution monitor Network: 100MB/Sec							
<b>Server Types - Minimum Recommended</b>							
<b>Type I:</b> Computer & processor: Intel Core-i7 family or faster for standalone deployment Intel Xeon Gold series, <b>4</b> cores or more for multi-user environment Memory (RAM): <b>16</b> or above gigabytes (GB) RAM for standalone deployment, <b>32</b> or above gigabytes (GB) RAM for multi-user environment Hard Disk: <b>150</b> gigabytes (GB) available for standalone deployment, <b>300</b> 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			✓				
<b>Type II:</b> Computer & processor: Intel Xeon Gold series type system ( <b>4</b> cores) or faster Memory (RAM): <b>16</b> or above gigabytes (GB) RAM Hard Disk: <b>300</b> 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)		✓ <sup>9</sup>			✓ <sup>9</sup>		✓
<b>Type III:</b> Computer & processor: Intel Cascade Lake-based Xeon processor with <b>8</b> cores or more per processor Memory (RAM): <b>32</b> or above gigabytes (GB) RAM Hard Disk: <b>500</b> 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)				✓ <sup>9</sup>			
<b>Type IV: (IIoT Gateways)</b> Computer & processor: ARM or Intel based CPU or more Memory (RAM): <b>256Mb</b> or more Hard Disk: <b>128Mb</b> or more							
<b>Type V</b> 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							
<b>Notes</b>							

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<p>* 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.</p> <p>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.</p> <p>Cloud deployment does not change any license restrictions, including the restrictions on which regions can access the software.</p>	<p>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 &amp; Aspen Process Sequencer.</p>							
<p>When running software on a virtual machine, the machine should meet the same requirements.</p>								
<p>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.</p>								
<p>Your Aspen SLM Server must be installed and running prior to installing any V12 product.</p>								
<p>If running standalone, 1280 x 800 is the minimum recommended resolution monitor for servers.</p>								
<p>For SLM server using Type 1 Desktop configuration, the minimum memory is 4GB with 20GB hard drive.</p>								
<p>Microsoft Active Directory/Domain Services (Required for aspenONE Web Server)</p>								
<p>A minimum of 10GB of free space is needed to install/upgrade products.</p>								
<p><sup>1</sup> 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</p>								
<p><sup>2</sup> EDR does not use any database servers. Deploys its own LocalDB database files.</p>								
<p><sup>3</sup> 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.</p>								
<p><sup>4</sup> When Aspen Utility model is driven by Aspen Online using Local System Account, then SQL Express 2014 is required.</p>								
<p><sup>5</sup> When Exchanger Design and Rating is driven by Aspen Online using Local System Account, then SQL Express 2014 is required</p>								
<p><sup>6</sup> Aspen Modeler family supports FORTRAN compiler version 2020</p>								
<p><sup>7</sup> 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.</p>								
<p><sup>8</sup> Must be in compatibility mode for Aspen Process Sequencer</p>								



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31 OptiPlant requires a graphic card which supports OpenGL 2.1. Resolution 1920 x 1080 is recommended.								
32 Type II is the minimum recommended when IP.21 is used with MES Collaboration.								
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.								