

Suite	Engineering Suite											
V12.1 Platform Specifications that are supported	Aspen AI Model Builder	AES Property System 64-bit	Process Modeling (Aspen Plus) 64-bit	Exchanger Design & Rating (EDR) 64-bit <sup>2</sup>	Process Modeling (Aspen HYSYS) 64-bit	Economic Evaluation (EE) 64-bit <sup>7</sup>	Aspen Multi-Case	Aspen OptiPlant <sup>31</sup> 32-bit	Basic Engineering - Desktop Client 32-bit	Basic Engineering - Server 64-bit	Aspen Online (AOI) 64-bit	
	<b>Operating Systems (64-bit only)</b>											
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		✓	✓	✓	✓	✓	✓	✓ <sup>33</sup>	✓	✓	✓	
Ubuntu Server Edition 20.04 LTS												
Ubuntu Server Edition 18.04 LTS												
Ubuntu Server Edition 16.04 LTS												
<b>Microsoft Office</b>												
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)		✓	✓ <sup>3</sup>	✓	✓	✓	✓		✓	✓	✓	
Office 2016 (32-bit)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Office 2013 (32-bit)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
<b>Database Servers</b>												
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)		✓	✓ <sup>4</sup>	✓	✓	✓	✓			✓	✓
Microsoft SQL Server 2012 (Enterprise/Standard Edition)		✓	✓		✓	✓	✓			✓	
Microsoft SQL Server 2012 (Express Edition)		✓	✓		✓	✓	✓			✓	
SQL Server 2014 Local DB		✓	✓	✓ <sup>5</sup>	✓	✓	✓			✓	
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											
<b>Database Clients</b>											
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											
<b>Runtimes</b>											
.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						✓ <sup>7</sup>					



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<b>Security Components/Services</b>											
Aspen Framework (AFW) 5											
<b>Java App (Servers)</b>											
Apache Tomcat 9.0+											
<b>Native Web Servers</b>											
IIS 10										✓	
IIS 8.5										✓	
<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>											
FORTRAN 2019			✓ <sup>6</sup>								
<b>Container Support</b>											
Docker Engine-Enterprise 19.03.x											
Docker Compose 1.26.x											

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<b>Desktop Types - Minimum Recommended</b>											
<b>Type I:</b> 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	✓	✓ <sup>22</sup>	✓ <sup>22</sup>	✓ <sup>22</sup>	✓ <sup>22</sup>	✓ <sup>22</sup>	✓	✓ <sup>31</sup>	✓	✓	✓ <sup>22</sup>
<b>Type II:</b> 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											
<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, 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		✓ <sup>38</sup>	✓ <sup>38</sup>	✓ <sup>38</sup>	✓ <sup>38</sup>	✓ <sup>38</sup>		✓ <sup>38</sup>			
<b>Type II:</b> 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)											
<b>Type III:</b> 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)		✓ <sup>1</sup>								✓	✓ <sup>1</sup>
<b>Type IV: (IIoT Gateways)</b> Computer & processor: ARM or Intel based CPU or more Memory (RAM): 256Mb or more Hard Disk: 128Mb 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>aspenONE Engineering suite consists of the following products: Aspen Model Builder, Aspen Property System, Aspen Plus family, Aspen HYSYS family, Aspen Exchanger Design &amp; Rating (EDR), Aspen Economic Evaluation (EE), Aspen Multi-Case, Aspen OptiPlant, Aspen Basic Engineering (ABE), aspenONE Web Server, and aspenONE Exchange.</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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<p><sup>9</sup> See "Basic Deployment Recommendations" in Appendix C of the Aspen Manufacturing Suite Advanced Process Control Installation Guide.</p>											
<p><sup>10</sup> For new installations of APC Web Server, install IIS and JRE before installing APC Web Server</p>											
<p><sup>11</sup> CIM-IO Interfaces can be installed on 32-bit desktops</p>											
<p><sup>12</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</p>											
<p><sup>13</sup> Refer to KB 47648 For more information on configuring SCM products using Azure: <a href="https://esupport.aspentech.com/S_Article?id=000047648">https://esupport.aspentech.com/S_Article?id=000047648</a></p>											
<p><sup>14</sup> Only Web Download Excel Add-in requires Excel.</p>											
<p><sup>15</sup> Users need to install both the 32-bit and 64-bit Oracle Clients 19.x for building and running reports</p>											
<p><sup>16</sup> Non-English OS's are not supported</p>											
<p><sup>17</sup> If using IBM Maximo Adapter</p>											
<p><sup>18</sup> If using aspenONE Exchange on Windows Server 2012 R2, you must select the Desktop Experience option during Windows installation to enable Flash training videos.</p>											
<p><sup>19</sup> SLM supported in cloud (Azure VM/Amazon VM) for ENG products that are supported in the cloud</p>											
<p><sup>20</sup> If FIPS is enabled, aspenONE Exchange users must have the latest Windows Update patches installed on their machine.</p>											
<p><sup>21</sup> Office 365 - 32-bit support only</p>											
<p><sup>22</sup> Server-grade systems are not required but still supported.</p>											
<p><sup>23</sup> Browser Support as it relates to Knowledge Delivery only (for +A)</p>											
<p><sup>24</sup> ATOMS Web does not support Oracle</p>											
<p><sup>25</sup> Only the version of MS Edge that uses the Google Chrome engine is supported</p>											
<p><sup>26</sup> Maestro supports Windows Server 2019 version 1809+</p>											
<p><sup>27</sup> 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</p>											
<p><sup>28</sup> APEM does not support CDB-PDB database in Oracle 12.2.  Weigh &amp; Dispense Client 32-bit does not support Oracle</p>											
<p><sup>29</sup> SCCM support for APEX only</p>											
<p><sup>30</sup> APM Insights must be installed on the same server as AEI.</p>											

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<sup>31</sup> OptiPlant requires a graphic card which supports OpenGL 2.1. Resolution 1920 x 1080 is recommended.											
<sup>32</sup> Type II is the minimum recommended when IP.21 is used with Enterprise InfoPlus.21 Historian.											
<sup>33</sup> Aspen OptiRouter is dependent on Hexagon S3D platform which supports Windows Server 2012 R2.											
<sup>34</sup> Required for web terminal, which is optional											
<sup>35</sup> Azure support is available with V12 CP1											
<sup>36</sup> APM Insights Quantification must be installed on the same server as Fidelis											
<sup>37</sup> APP-V is only supported with Process Explorer											
<sup>38</sup> 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.											