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Suite	Engineering Suite								
V14.5 Platform Specifications that are supported	Aspen Al Model Builder	AES Property System	Process Modeling (Aspen Plus)	Process Modeling (Aspen HYSYS)	Aspen OptiPlant <sup>32</sup>	Aspen Online (AOL)			
Operating Systems (64-bit only)				Γ	-	I			
Windows 11 Enterprise & Professional (64-bit)	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$			
Windows 10 Enterprise & Professional (64-bit)	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$			
Windows Server 2022 <sup>33, 45</sup>		$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$			
Windows Server 2019 33, 45		$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$			
Windows Server 2016 <sup>33, 45</sup>		$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$			
Ubuntu Server Edition 20.04 LTS									
Ubuntu Server Edition 18.04 LTS									
Ubuntu Server Edition 16.04 LTS									
RedHat Enterprise Linux 8.8+									
RedHat Enterprise Linux 7.6+									
Microsoft Office						-			
Office 365 (Desktop/Click-to-run) (32-bit/64-bit)		$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$			
Office 2021 (64-bit)		$\checkmark$	√3	$\checkmark$	$\checkmark$	$\checkmark$			
Office 2021 (32-bit)		$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$			
Office 2019 (64-bit)		$\checkmark$	√ <sup>3</sup>	$\checkmark$	$\checkmark$	$\checkmark$			
Office 2019 (32-bit)		$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$			
Office 2016 (64-bit)		$\checkmark$	√3	$\checkmark$	$\checkmark$	$\checkmark$			
Office 2016 (32-bit)		$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$			
Database Servers						I			
Microsoft SQL Server 2022 (Enterprise/Standard Edition)		$\checkmark$	$\checkmark$	$\checkmark$					
Microsoft SQL Server 2022 (Express Edition)		$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$			
Microsoft SQL Server 2019 (Enterprise/Standard Edition)		$\checkmark$	$\checkmark$	$\checkmark$					
Microsoft SQL Server 2019 (Express Edition)		$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$			
Microsoft SQL Server 2017 (Enterprise/Standard Edition)		$\checkmark$	$\checkmark$	$\checkmark$					

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Microsoft SQL Server 2017 (Express Edition)		$\checkmark$	$\checkmark$	$\checkmark$					
Microsoft SQL Server 2016 (Enterprise/Standard Edition)		$\checkmark$	$\checkmark$	$\checkmark$					
Microsoft SQL Server 2016 (Express Edition)		$\checkmark$	$\checkmark$	$\checkmark$					
SQL Server 2019 Local DB		$\checkmark$	$\checkmark$	$\checkmark$					
SQL Server 2014 -2019 Analysis Services									
PostgreSQL 13.2									
Oracle Database 19.x.x 64-bit									
MongoDB Database 5.0.x 64-bit									
MongoDB Database 6.0.x 64-bit									
Database Clients									
Oracle Client 19.x 32-bit									
Oracle Client 19.x 64-bit									
Runtimes									
.NET Framework 4.8		$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$			
.NET Framework 4.6									
.NET 8.x									
Aspen AloT Cloud libraries									
ASP.NET Core 8.x									
32-bit Oracle Java 17 JDK LTS									
64-bit Oracle Java 17 JDK LTS									
64-bit Oracle Java 11 JDK LTS									
32-bit Oracle Java 8 JDK LTS									
64-bit Oracle Java 8 JDK LTS									
32-bit Eclipse Temurin OpenJDK Java 17 JRE LTS									
64-bit Eclipse Temurin OpenJDK Java 17 JRE LTS									
32-bit Eclipse Temurin OpenJDK Java 11 JRE LTS									
64-bit Eclipse Temurin OpenJDK Java 11 JRE LTS									
64-bit Eclipse Temurin OpenJDK Java 8 JRE LTS									

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V14.5 Platform Specifications that are supported	Aspen Al Model Builder	AES Property System	Process Modeling (Aspen Plus)	Process Modeling (Aspen HYSYS)	Aspen OptiPlant <sup>32</sup>	Aspen Online (AOL)				
Python 3.12										
Python 3.11										
Python 3.10										
Python 3.9										
Visual Studio 2022										
Visual Studio 2019										
Visual Studio 2017										
Visual Studio 2015										
Visual Studio 2010 Tools for Office Runtime										
Microsoft Visual C++ Redistributable 2022										
Microsoft Visual C++ Redistributable 2019			$\checkmark$	$\checkmark$						
Microsoft Visual C++ Redistributable 2017			$\checkmark$	$\checkmark$						
Microsoft Visual C++ Redistributable 2015										
Microsoft Visual C++ Redistributable 2013										
Microsoft MPI 8.1										
IBM Platform MPI 9.0.1										
Virtualization										
Microsoft Hyper-V (Server)		$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$				
VMware ESXi Hypervisor Server 8.x (Server)		$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$				
VMWare vSphere Enterprise Plus										
Microsoft Terminal Services (Desktop)		$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$				
Citrix Virtual Apps and Desktops 7.1912 (Desktop)		$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$				
Web Browsers										
Microsoft Edge <sup>25</sup>	$\checkmark$	$\checkmark$	√23	√23						
Google Chrome Evergreen Version 75+	$\checkmark$	$\checkmark$	√ <sup>23</sup>	√ <sup>23</sup>						
Firefox	$\checkmark$									
Chrome on iOS 14+ for iPad Support										
Safari on iOS 14+ for iPad Support										
Android 10+										

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Security Components/Services									
AZURE AD	$\checkmark$								
Aspen Framework (AFW) 5									
TLS 1.2									
TLS 1.3									
Java App (Servers)									
Apache Tomcat 9.x									
Native Web Servers									
IIS 10									
Reporting Services									
Microsoft Report Viewer 2015									
Microsoft SQL Server 2014/2016/2017/2019/2020/2022 Reporting Services									
Integration Components									
Aspen Supply Chain Connect									
Informatica Powercenter 10.5.2									
Cloud Support *									
Azure VM (Microsoft)		✓	✓	<ul> <li>✓</li> </ul>	✓	✓			
AWS VM (Amazon)		$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$			
Azure VM - Linux									
Azure Virtual Desktop (AVD) 27		$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$			
AWS RDS (SQL)									
Azure SQL									
Deployment Tools									
SCCM	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$			
Supported Versions of Fortran			-6						
FORTRAN 2021			√6						
Container Support Docker Engine-Enterprise 19.03.x									
Docker Compose 1.26.x Desktop Types - Minimum Required									

Suite	Engineering Suite								
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Type I:         Computer & processor: Intel Core-i5 family or faster         Memory (RAM in GB): 16         Hard Disk (GB): 120 Free Space - SSD recommended         Monitor: Graphics hardware acceleration requires a DirectX10 graphics card and a 1440 x         900 or higher resolution monitor         Network (MB/s): 100Mbps	$\checkmark$	√ <sup>22</sup>	√ <sup>22</sup>	√ <sup>22</sup>	√ <sup>32</sup>	√ <sup>22</sup>			
Type II: Computer & processor: Intel Core-i5 family or faster Memory (RAM in GB): <b>16</b> Hard Disk (GB): <b>250</b> Monitor: Graphics hardware acceleration requires a DirectX10 graphics card and a <b>1440 x</b> <b>900</b> or higher resolution monitor Network (MB/s): <b>100Mbps</b>									
Type III: Computer & processor: 4CPU >= 2.8GHz (turbo max 3.2 preferred) Memory (RAM in GB): <b>16</b> Hard Disk (GB): <b>500</b> Monitor: Graphics hardware acceleration requires a DirectX10 graphics card and a <b>1440 x</b> <b>900</b> or higher resolution monitor Network (MB/s): <b>100Mbps</b>									
Yope IV:           2 x Intel Xeon 3.9GHz 8-core           Memory (RAM in GB):           4GB           Hard Disk (GB):           35 GB SSD           Graphics Card:           VIDIA RTX A6000 GPU           Monitor:           Network (MB/s):           100Mps									
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 in GB): 16 + for standalone deployment, 32+ for multi-user environment Hard Disk (GB): 150 for standalone deployment, 300 for multi-user environment Monitor. Graphics hardware acceleration requires a DirectX10 graphics card and a 1440 x 900 or higher resolution monitor Network: 100 Mbps		√ <sup>31</sup>	√ <sup>31</sup>	√ <sup>31</sup>	√ 32, 31				
Type II: Computer & processor: Intel Xeon Gold series type system (4 cores) or faster Memory (RAM in GB): <b>16</b> + Hard Disk (GB): <b>300</b> + Monitor: Graphics hardware acceleration requires a DirectX10 graphics card and a <b>1440 x</b> <b>900</b> or higher resolution monitor Network: <b>100 Mbps</b>									
Type III: Computer & processor: Intel Cascade Lake-based Xeon processor with 8 cores or more per processor Memory (RAM in GB): 32 or above gigabytes (GB) RAM Hard Disk (GB): 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: <b>100Mpbs</b> (Gigabyte network recommended)		√1				√1			

Suite	Engineering Suite							
V14.5 Platform Specifications that are supported	Aspen Al Model Builder	AES Property System	Process Modeling (Aspen Plus)	Process Modeling (Aspen HYSYS)	Aspen OptiPlant <sup>32</sup>	Aspen Online (AOL)		
Type IV: (IIoT Gateways) Computer & processor: ARM or Intel based CPU or more Memory (RAM in GB): 256Mb or more Hard Disk (GB): 100 GB 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: Minimum: 50, Recommended: 100 Mbps								
Type VI Computer & processor: Intel Xeon E class processor or equivalent with dual core min. Memory (RAM in GB): Minimum: 4 Hard Disk (GB): Minimum 50. High IOPS drive, SSD preferred Network: 100 Mbps								
Type VII Computer & processor: Intel Xeon E class processor or equivalent with dual core min. Memory (RAM in GB): 8 + Hard Disk (GB): 100 GB min. High IOPS drive, SSD preferred Network: 100Mpbs								
Type VIII Computer & processor: Intel Xeon E class processor or equivalent with 8 cores or higher Memory (RAM in GB): 12 or above gigabytes (GB) RAM Hard Disk (GB): 2000 min. High IOPS drive, SSD preferred Network: 200Mbps								
Type IX Single model environment: Computer & processor: 4 vCPU >+ 2.8 GHz Memory (RAM in GB): 8+ Hard Disk (GB): 100 Network: 100Mbps								
Type X Single model environment: Computer & processor. 8 vCPU >+ 3.2 GHz Memory (RAM in GB): 16+ Hard Disk (GB): 100 Network: 100Mbps								
Type XI Multiple models within single environment (max models <= 10): Computer & processor. 4 vCPU >+ 2.8 GHz (add 1.5vCPU per concurrent user) Memory (RAM in GB): 8+ (add 3GB per concurrent user) Hard Disk (GB): 100 (add .5GB per concurrent user) Network: 100Mbps								
Type XII Multiple models within single environment (max models <= 10): Computer & processor: 8 vCPU >+ 3.2 GHz (add 1.5vCPU per concurrent user) Memory (RAM in GB): 16 or above gigabytes (GB) RAM (add 4GB RAM per concurrent user) Hard Disk (GB): 100 GB min. (add .5GB per concurrent user)								
Network: 100Mpbs Type XIII Supports 20 concurrent users: Computer & processor: 16 vCPU >+ 2.2 GHz) Memory (RAM in GB): 64 Hard Disk: C Drive: 100, Drive D / E: 50 GB Network: 100 Mbps								

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Type X1V Supports 100 concurrent users: Computer & processor: 16 vCPU >+ 2.2 GHz) Memory (RAM in GB): 32 Hard Disk (GB): 100 Network: 5 Mbps								
Type XV Computer & processor: 16 vCPU >+ 2.2 GHz) Memory (RAM in GB): 32 Hard Disk (GB): 100Mbps								
Type XVI Computer & processor: 16 CPU Memory (RAM in GB): 64 or above gigabytes (GB) RAM Hard Disk (GB): 2000 gigabytes (GB) or more available Monitor: Graphics hardware acceleration requires a DirectX10 graphics card and a 1440 x 900 or higher resolution monitor Network: 100Mpbs (Gigabyte network recommended)								
Type XVII Computer & processor: 32 CPU Memory (RAM in GB): 256 or above gigabytes (GB) RAM Hard Disk (GB): 2000 gigabytes (GB) or more available Monitor: Graphics hardware acceleration requires a DirectX10 graphics card and a 1440 x 900 or higher resolution monitor Network: 100Mpbs (Gigabyte network recommended)								
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 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.	Model Build Exchanger Aspen Mult aspenONE	der, Aspen F Design & Ra ti-Case, Aspe	Plus family, A ating (EDR), A an OptiPlant,	spen HYSYS Aspen Econo	owing product family, Aspen mic Evaluatior Engineering ( e.	n (EE),		
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 V14 product								

product.

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f 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 on the C drive.							
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.							
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.							
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							
<sup>6</sup> Aspen Modeler family supports FORTRAN compiler version 2020							
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							
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 performance.							
13 Refer to KB 50134 For more information on configuring SCM products using Azure and AWS: https://esupport.aspentech.com/S_Article?id=000050134							
14 Only Web Download Excel Add-in requires Excel.							
15							

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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								
24 ATOMS Web does not support Oracle								
<sup>25</sup> 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 –								

(AOL)

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, AVCA

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28 APEM does not support CDB-PDB database in Oracle 19. Weigh & Dispense Client 32-bit does not support Oracle								
<ul> <li><sup>29</sup> SCCM support for APEx only</li> <li><sup>30</sup> APM Insights must be installed on the same server as AEI.</li> <li><sup>31</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.</li> </ul>								
<ul> <li><sup>32</sup> OptiPlant requires a graphic card which supports OpenGL 4.1</li> <li><sup>33</sup> Includes support for Windows Server Datacenter</li> <li><sup>34</sup> Browser support for AFO Connect</li> <li><sup>35</sup> Type II is the minimum recommended when IP.21 is used with Aspen Enterprise</li> </ul>								
IP.21 Historian 36 Small SLM Server 37 Medium SLM Server								
<ul> <li>38 Large SLM Server</li> <li>39 These applications can run on a desktop, but it is recommended to run models on a server and have users connect via Citrix or Terminal Services.</li> </ul>								
<ul> <li><sup>40</sup> This Application Should be installed on a dedicated Web Server.</li> <li><sup>41</sup> Azure Managed Instance is the recommended option for Azure SQL infrastructure. For assistance with database creation scripts, please contact the AspenTech Support team.</li> </ul>								
<ul> <li><sup>42</sup> "Desktop Experience" installation of Windows Server. Windows Server installers present the option to install with or without "Desktop Experience". For GDOT, "Desktop Experience" is required.</li> <li><sup>43</sup> control with the control without control without the sector without the sector</li></ul>								
SQL is needed for S3D Layout, SQL versions 2014 and 2016 are supported by Hexagon 44 Resolution no higher than 1920x1080								
<sup>45</sup> Refer to the AspenTech Lifecycle Knowledge Base article to see a reference to the supported Windows Server upgrade path: https://esupport.aspentech.com/S_ProductLifecyclePolicy								
<sup>46</sup> The selected product uses Java 11 JRE as Oracle do not have an option to download JRE, please use Oracle JDK download								

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47 SQL Server 2014 does not support AT TIME ZONE functionality Due to this, Daylight Saving time will not be accounted for in the database views defined in Unified Scheduling Results database.		I			L			
48 Only Excel Document template does require Excel	1							
49 Only Core service requires MongoDB								
50 Applicable only for OpenviewNET client applications that connect to the Operational Insights server.								
51 Applicable only for Aspen Mtell Client applications like Aspen Mtell Agent								
Builder and Aspen Mtell System Manager. Aspen Mtell Server is recommended to								
be hosted on a Server class operating system.								
52 Applicable only for users who write custom Loglan code when using V14.5 and								

above versions.