

Suite	Manufacturing & Supply Chain Suite																
V12.1 Platform Specifications that are supported	Manufacturing Execution Systems (MES)																
	Manufacturing Execution Systems (MES) Desktop Apps	Manufacturing Execution Systems (MES) Admin Tools	aspenONE Web Server 64bit	aspenONE Process Explorer Client (A1PE)	InfoPlus.21 (IP21) Server	Batch Interfaces	Cim-IO Interfaces ¹¹	Plant Operations 32-bit (ATOMS Server)	Plant Operations 32-bit (ATOMS Client)	Plant Operations 32-bit (AORA Server)	Plant Operations 32-bit (AORA Client)	Aspen Production Record Manager (APRM) Server	Aspen Production Execution Manager (APEM) Server	Aspen Infrastructure(ADSA)	aspenONE Integration Foundation: EIF	aspenONE Integration Foundation: MDM	Aspen Role Based Visualization 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 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)	✓	✓		✓ ¹⁴							✓ ²¹					✓ ²¹	
Office 2021 (64-bit)	✓	✓		✓ ¹⁴													
Office 2021 (32-bit)	✓	✓		✓ ¹⁴							✓					✓	
Office 2019 (64-bit)	✓	✓		✓ ¹⁴													
Office 2019 (32-bit)	✓	✓		✓ ¹⁴							✓					✓	
Office 2016 (64-bit)	✓	✓		✓ ¹⁴													
Office 2016 (32-bit)	✓	✓		✓ ¹⁴							✓					✓	
Office 2013 (32-bit)	✓	✓		✓ ¹⁴							✓					✓	
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)																	
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													✓ ²⁸				
Database Clients																	
Oracle Client 19.x 32-bit	✓	✓			✓	✓		✓ ²⁴	✓ ²⁴	✓	✓	✓				✓	
Oracle Client 19.x 64-bit	✓	✓			✓	✓					✓					✓	
Oracle Client 18.x 32-bit																	
Oracle Client 12.2 64-bit												✓					

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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																		
32-bit AdoptOpenJDK Java 11 LTS																		
64-bit AdoptOpenJDK Java 11 LTS			✓															✓
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	✓ ³⁷																	
Microsoft Hyper-V (Server)	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
VMware ESXi Hypervisor Server 6.x (Server)	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
VMware ESXi Hypervisor Server 7.x (Server)	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
VMWare vSphere Enterprise Plus																		
Microsoft Terminal Services (Desktop)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Citrix XenApp 7.18 (Desktop)	✓	✓	✓	✓	✓	✓	✓					✓	✓	✓	✓	✓		
Web Browsers																		
Internet Explorer 11				✓				✓	✓			✓	✓					✓
Microsoft Edge ²⁵				✓				✓	✓	✓	✓		✓					
Google Chrome Evergreen Version 75+				✓				✓	✓	✓	✓		✓					
Firefox																		
Chrome on iOS 13+ for iPad Support				✓														
Safari on iOS 13+ for iPad Support																		
Security Components/Services																		
Aspen Framework (AFW) 5	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓				✓	
Java App (Servers)																		
Apache Tomcat 9.0+			✓										✓					
Native Web Servers																		
IIS 10			✓					✓	✓	✓	✓		✓				✓	✓

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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 <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>	Manufacturing Execution Systems (MES) suite consists of the following products: MES Desktop Apps, MES Admin Tools, aspenONE Web Server, InfoPlus.21 Server, aspenONE Process Explorer Client, InfoPlus.21 (IP.21) Server, Batch Interfaces, Cim-IO Interfaces, Plant Operations (ATOMS) Server, Plant Operations (ATOMS) Client, Plant Operations (AORA) Server, Plant Operations (AORA) Client, Aspen Production Manager (APRM) Server, Aspen Production Execution Manager (APEM) Server, Aspen Infrastructure, aspenONE Integration Foundation (EIF), aspenONE Integration Foundation (MMDM), Aspen Role-Based Visualization (RBV)																
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 on the C drive																	
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																	
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																	

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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.																
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.																