

Suite	Manufacturing & Supply Chain Suite																
V12 Platform Specifications that are supported	Manufacturing Execution Systems (MES)																
	Manufacturing Execution Systems (MES) Desktop Apps	Manufacturing Execution Systems (MES) Admin Tools 32-bit	aspenONE Web Server 64-bit	aspenONE Process Explorer Client (A1PE)	InfoPlus.21 (IP.21) Server	Batch Interfaces	11 C/m-IO Interfaces	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 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 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)					✓	✓		✓	✓	✓	✓	✓	✓			✓	

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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				✓				✓	✓			✓	✓				✓
Microsoft Edge 25																	
Google Chrome Evergreen Version 75+				✓				✓	✓	✓	✓		✓				
Firefox																	
Chrome on iOS 12+ for iPad Support				✓													
Safari on iOS 13+ for iPad Support+A86																	
Security Components/Services																	
Aspen Framework (AFW) 5	✓	✓	✓		✓			✓	✓	✓	✓	✓	✓			✓	
Java App (Servers)																	
Apache Tomcat 9.0+			✓									✓					
Native Web Servers																	
IIS 10			✓					✓	✓	✓	✓		✓			✓	✓
IIS 8.5			✓					✓	✓	✓	✓		✓			✓	✓

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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		✓ ²⁹															
Supported Versions of Fortran																	
FORTRAN 2019																	
Container Support																	
Docker Engine-Enterprise 19.03.x																	
Docker Compose 1.26.x																	
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	✓	✓		✓		✓	✓	✓	✓	✓	✓			✓	✓	✓	

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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)																	
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)			✓	✓													✓
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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<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>Manufacturing Execution Systems (MES) suite consists of the following products: InfoPlus.21 (IP.21), Process Explorer, aspenONE Process Explorer, Aspen Production Record Manager (APRM), Aspen Production Execution Manager (APEM), Role-Based Visualization (RBV), Aspen Operations Reconciliation and Accounting (AORA), and Aspen Tank and Operations Manager (ATOM).</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>11 CIM-IO Interfaces can be installed on 32-bit desktops</p>																
<p>14 Only Web Download Excel Add-in requires Excel.</p>																
<p>21 Office 365 - 32-bit support only</p>																
<p>22 Server-grade systems are not required but still supported.</p>																
<p>23 Browser Support as it relates to Knowledge Delivery only (for +A)</p>																
<p>24 ATOMS Web does not support Oracle</p>																
<p>25 Only the version of MS Edge that uses the Google Chrome engine is supported</p>																
<p>28 APEM does not support CDB-PDB database in Oracle 12.2. Weigh & Dispense Client 32-bit does not support Oracle</p>																
<p>29 SCCM support for APEX only</p>																