

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 64-bit	aspenONE Process Explorer Client (A1PE)	InfoPlus.21 (IP.21) Server	Batch Interfaces	Cim-IO Interfaces <sup>11</sup>	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
<b>Operating Systems (64-bit only)</b>																	
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																	
<b>Microsoft Office</b>																	
Office 365 (Desktop/Click-to-run) (32-bit/64-bit)	✓	✓		✓ <sup>14</sup>							✓ <sup>21</sup>					✓ <sup>21</sup>	
Office 2019 (64-bit)	✓	✓		✓ <sup>14</sup>													
Office 2019 (32-bit)	✓	✓		✓ <sup>14</sup>							✓					✓	
Office 2016 (64-bit)	✓	✓		✓ <sup>14</sup>													
Office 2016 (32-bit)	✓	✓		✓ <sup>14</sup>							✓					✓	
Office 2013 (32-bit)	✓	✓		✓ <sup>14</sup>							✓					✓	
<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)																	
Microsoft SQL Server 2014 (Enterprise/Standard Edition)					✓	✓		✓	✓	✓	✓	✓	✓			✓	
Microsoft SQL Server 2014 (Express Edition)																	
Microsoft SQL Server 2012 (Enterprise/Standard Edition)					✓	✓		✓	✓	✓	✓	✓	✓			✓	



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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				✓				✓	✓			✓	✓				✓
Microsoft Edge 25				✓				✓	✓	✓	✓		✓				
Google Chrome Evergreen Version 75+				✓				✓	✓	✓	✓		✓				
Firefox																	
Chrome on iOS 12+ for iPad Support				✓													
Safari on iOS 13+ for iPad Support+A86																	
<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			✓					✓	✓	✓	✓		✓			✓	✓
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	✓ <sup>29</sup>																
<b>Supported Versions of Fortran</b>																	
FORTRAN 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>32</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)			✓	✓													✓
<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>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>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>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</p>																
<p>28 APEM does not support CDB-PDB database in Oracle 12.2.  Weigh &amp; Dispense Client 32-bit does not support Oracle</p>																
<p>29 SCCM support for APEX only</p>																
<p>32 Type II is the minimum recommended when IP.21 is used with MES Collaboration.</p>																

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