

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	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
<b>Operating Systems (64-bit only)</b>																	
Windows 10 Anniversary Enterprise & Professional (64-bit)	✓	✓		✓		✓	✓		✓		✓			✓	✓	✓	
Windows 8.1 Update 1 Enterprise & Professional (64-bit)	✓	✓		✓		✓	✓		✓		✓			✓	✓	✓	
<b>Windows Server 2019</b>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Windows Server 2016	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Windows Server 2012 R2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<b>Ubuntu Server Edition 20.04 LTS</b>																	
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>	
<b>Office 2019 (64-bit)</b>	✓	✓		✓ <sup>14</sup>													
<b>Office 2019 (32-bit)</b>	✓	✓		✓ <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>																	
<b>Microsoft SQL Server 2019 (Enterprise/Standard Edition)</b>					✓	✓		✓	✓	✓	✓	✓	✓			✓	
<b>Microsoft SQL Server 2019 (Express Edition)</b>																	
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 2017	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Visual Studio 2015																	
Visual Studio 2013	✓																
Visual Studio 2010 Tools for Office Runtime	✓	✓															
<b>Microsoft Visual C++ Redistributable 2019</b>																	
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+			✓										✓				
<b>Native Web Servers</b>																	
IIS 10			✓					✓	✓	✓	✓		✓			✓	✓

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ILS 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>																
<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	✓	✓		✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	

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<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, 32 or above gigabytes (GB) RAM for multi-user environment Hard Disk: <b>150</b> 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						✓	✓	✓	✓	✓	✓	✓	✓				
<b>Type II:</b> Computer & processor: Intel Xeon Gold series type system (4 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 8 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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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.																
11 CIM-IO Interfaces can be installed on 32-bit desktops																
14 Only Web Download Excel Add-in requires Excel.																
21 Office 365 - 32-bit support only																
24 ATOMS Web does not support Oracle																
25 Only the version of MS Edge that uses the Google Chrome engine is supported																
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																
32 Type II is the minimum recommended when IP.21 is used with MES Collaboration.																