

Suite	Manufacturing & Supply Chain Suite					
V11 Platform Specifications that are supported	Advanced Process Control (APC)					
	Advanced Process Control (APC) Desktop 32-bit	Advanced Process Control (APC) Online 32-bit	Advanced Process Control (APC) Performance	Advanced Process Control (APC) Web Server 32-bit	Aspen Process Recipe (client) 32-bit	Aspen Process Recipe & Aspen Process Sequencer
Operating Systems (64-bit only)						
Windows 10 Anniversary Enterprise & Professional (64-bit)	✓				✓	
Windows 8.1 Update 1 Enterprise & Professional (64-bit)	✓				✓	
Windows 7 Enterprise & Professional SP1 (64-bit)	✓				✓	
Windows Server 2019 ²²						
Windows Server 2016	✓	✓	✓	✓		✓
Windows Server 2012 R2	✓	✓	✓	✓		✓
Windows Server 2008 R2 SP1	✓	✓	✓	✓		✓
Ubuntu Server Edition 16.04 LTS						
Advantech Smart Swarm 2.2.2						
Advantech Smart Router Series coLinux						
Safari on iOS 11+ for iPad Support						
Microsoft Office						
Office 365 (Desktop/Click-to-run)						
Office 2019 (64-bit)						
Office 2019 (32-bit)						
Office 2016 (64-bit)						
Office 2016 (32-bit)						

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Office 2013 SP1 (32-bit)						
Office 2010 SP2 (32-bit)						
Database Servers						
Microsoft SQL Server 2017 (Enterprise/Standard Edition)						✓
Microsoft SQL Server 2017 (Express Edition)					✓	
Microsoft SQL Server 2016 SP1 (Enterprise/Standard Edition)						✓
Microsoft SQL Server 2016 SP1 (Express Edition)					✓	
Microsoft SQL Server 2014 SP2 (Enterprise/Standard Edition)						✓
Microsoft SQL Server 2014 SP2 (Express Edition)					✓	
Microsoft SQL Server 2012 SP3 (Enterprise/Standard Edition)						✓
Microsoft SQL Server 2012 SP3 (Express Edition)					✓	
SQL Server Local DB						✓
SQL Server 2012 Analysis Services						
Oracle Database 12.2.x 64-bit						
Oracle Database 11.2.x 64-bit						
Database Clients						
Microsoft SQL Server 2017 (Express Edition)						
Microsoft SQL Server 2016 SP1 (Express Edition)						
Microsoft SQL Server 2014 SP2 (Express Edition)						

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Microsoft SQL Server 2012 SP2 (Express Edition)						
Microsoft SQL Server 2008 R2 SP3 (Express Edition)						
Oracle Client 18.3 32-bit						
Oracle Client 18.3 64-bit						
Oracle Client 12.1.0.2 32-bit						
Oracle Client 11.2.0.4 32-bit						
Oracle Client 12.2.x 64-bit						
Oracle Client 11.2.x 64-bit						
Runtimes						
.NET Framework 4.7.1	✓	✓	✓	✓	✓	✓
.NET Framework 4.0						
.NET Framework 3.5						
32-bit Java 8 JRE update 151				✓ ¹⁰		
32-bit Java 8 JDK update 151						
64-bit Java 8 JRE update 151						
64-bit Java 8 JDK update 151						
64-bit AdoptOpenJDK Java 8 u181						
32-bit AdoptOpenJDK Java 8 u181				✓ ¹⁰		
MSXML 6	✓	✓	✓	✓	✓	✓
Visual Studio 2013, 2015, 2017						
Microsoft Visual C++ Redistributable 2017	✓	✓	✓	✓	✓	✓
Microsoft Visual C++ Redistributable 2015	✓	✓	✓	✓	✓	✓

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Microsoft Visual C++ Redistributable 2013	✓	✓	✓	✓	✓	✓
Visual Studio 2010 Tools for Office Runtime						
Virtualization						
Microsoft App-V 5.1						
Microsoft Hyper-V (Server)	✓	✓	✓	✓	✓	✓
VMware ESX Server 6.x (Server)	✓	✓	✓	✓	✓	✓
Microsoft Terminal Services (Desktop)	✓				✓	
Citrix XenApp 7.14 (Desktop)						
Web Browsers						
Internet Explorer 11	✓	✓	✓	✓	✓ ⁸	✓ ⁸
Microsoft Edge	✓	✓	✓	✓		✓
Google Chrome Evergreen Version 104+	✓	✓	✓	✓	✓	✓
Safari on iOS 11+ for iPad Support						
Security Components/Services						
Aspen Framework (AFW) 5	✓			✓	✓	✓
Non-Domain Security Group	✓			✓	✓	✓
Microsoft Active Directory / Active Directory Domain Services	✓			✓		
Java App (Servers)						
Apache Tomcat 8.5+						
Web Servers						

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IIS 10				✓ ⁹		
IIS 8.5				✓ ⁹		
IIS 7.5				✓ ⁹		
Reporting Services						
Microsoft Report Viewer 2010 SP1						
Microsoft SQL Server 2008 R2/2012/2014/2016/2017 Reporting Services						
Crystal Reports 8.5						
Crystal Reports 11						
Malware Blocking Features						
DEP-Data Execution Prevention	✓	✓	✓	✓	✓	
Integration Components						
Aspen Supply Chain Connect						
Informatica Powercenter 10.2 HF1						
Cloud Support *						
Azure VM - Microsoft						
Amazon VM (AWS)						
Azure VM - Linux						
Windows Virtual Desktop (WVD Fall 2019 Release) ²⁷						

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Nutanix XiFrame						
Azure Virtual Apps Essentials						
Deployment Tools						
SCCM 2016 (version 1606)						
SCCM 2012 R2 SP1						
Built With						
FORTRAN 2017						
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 1280 x 1024 or higher resolution monitor Network: 100MB/Sec	✓				✓	
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 1280 x 1024 or higher resolution monitor Network: 100MB/Sec						
Server Types - Minimum Recommended						

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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, 16 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 1280 x 1024 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 1280 x 1024 or higher resolution monitor Network: 100MB/Sec (Gigabyte network recommended)		✓ ⁹		✓ ⁹		✓	
Type III: Computer & processor: 4 x Intel (8 cores) or faster 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 1280 x 1024 or higher resolution monitor Network: 100MB/Sec (Gigabyte network recommended)			✓ ⁹				
Type IV: (IIoT Gateways) Computer & processor: ARM or Intel based CPU or more Memory (RAM): 256Mb or more Hard Disk: 128Mb or more							
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>Advanced Process Control (APC) suite consists of the following products: Aspen DMCplus, Aspen DMC3, Aspen Watch Performance Monitor, Aspen PID Watch Performance Monitor, Aspen RTO Watch Performance Monitor, Aspen Inferential Qualities, and Aspen Process Recipe & Aspen Process Sequencer.</p>						
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 V11 product.							
If running standalone, 1280 x 800 is the minimum recommended resolution monitor for servers.							
For SLM server using the Type 1 Desktop configuration, the minimum memory is 4GB with 20GB hard drive.							
Microsoft Active Directory/Domain Services (Required for aspenONE Web Server)							
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							
² EDR does not use any database servers. Deploys its own LocalDB database files.							

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<p>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.</p>							
<p>4 When Aspen Utility model is driven by Aspen Online using Local System Account, then SQL Express 2014 is required.</p>							
<p>5 When Exchanger Design and Rating is driven by Aspen Online using Local System Account, then SQL Express 2014 is required</p>							
<p>6 Aspen Modeler family supports FORTRAN compiler version 2017 or 2019</p>							
<p>7 Oracle 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.</p>							
<p>8 Must be in compatibility mode for Aspen Process Sequencer</p>							
<p>9 See "Basic Deployment Recommendations" in Appendix C of the Aspen Manufacturing Suite Advanced Process Control Installation Guide.</p>							
<p>10 For new installations of APC Web Server, install IIS and JRE before installing APC Web Server</p>							
<p>11 CIM-IO Interfaces can be installed on 32-bit desktops</p>							
<p>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</p>							
<p>13 Refer to KB 47648 For more information on configuring SCM products using Azure:</p>							
<p>14 Oracle Database 12.1.0.2 is supported for Collaborative Forecasting, not 12.2.x.</p>							
<p>15 ASCC web applications and the Informatica client will work only with MS Office 32-bit. Informatica Server uses 64-bit Office only.</p>							
<p>16 Non-English OS's are not supported</p>							

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17 If using IBM Maximo Adapter							
18 1 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							
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 Requires the latest patches of the corresponding AspenTech software							
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 APP-V is only supported with Process Explorer							
30 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.							