

Suite	Manufacturing & Supply Chain Suite						
V10.1 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 Monitor 32-bit	Advanced Process Control (APC) Web Server 32-bit	Aspen Process Recipe (client) 32-bit	Aspen Process Recipe & Aspen Process Sequencer (server) 32-bit	
	Operating Systems (64-bit only)						
	Windows 10 Anniversary (2nd LTSB) Enterprise & Professional (64-bit)	✓				✓	
	Windows 8.1 Update 1 Enterprise & Professional (64-bit)	✓				✓	
	Windows 7 Enterprise & Professional SP1 (64-bit)	✓				✓	
	Windows Server 2016	✓	✓	✓	✓		✓
Windows Server 2012 R2	✓	✓	✓	✓		✓	
Windows Server 2008 R2 SP1	✓	✓	✓	✓		✓	
Ubuntu Server Edition 16.04 LTS							
Advantech Smart Router Series coLinux							
Safari on iOS 10+ for iPad Support							
Microsoft Office							
Office 365 (Desktop/Click-to-run)							
<b>Office 2019 (64-bit)</b>							
<b>Office 2019 (32-bit)</b>							
Office 2016 (64-bit)							
Office 2016 (32-bit)							
Office 2013 SP1 (32-bit)							
Office 2010 SP2 (32-bit)							
Database Servers							
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 SP2 (Enterprise/Standard Edition)						✓	
Microsoft SQL Server 2012 SP2 (Express Edition)					✓		
Microsoft SQL Server 2008 R2 SP3 (Enterprise/Standard Edition)						✓	
Microsoft SQL Server 2008 R2 SP3 (Express Edition)					✓		
SQL Server Local DB						✓	
SQL Server 2012 Analysis Services							
SQL Server 2008 R2 Analysis Services							
Oracle Database 12.1.0.2							

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Oracle Database 11.2.0.4						
Database Clients						
Microsoft SQL Server 2016 SP1 (Express Edition)						
Microsoft SQL Server 2014 SP2 (Express Edition)						
Microsoft SQL Server 2012 SP2 (Express Edition)						
Microsoft SQL Server 2008 R2 SP3 (Express Edition)						
Oracle Client 12.1.0.2 32-bit						
Oracle Client 11.2.0.4 32-bit						
Oracle Client 12.1.0.2 64-bit						
Oracle Client 11.2.0.4 64-bit						
Runtimes						
.NET Framework 4.7.1						
.NET Framework 4.6.2	✓	✓	✓	✓	✓	✓
.NET Framework 3.5	✓		✓	✓		
32-bit Java 8 JRE update 91				✓ <sup>3</sup>		
32-bit Java 8 JDK update 91						
64-bit Java 8 JRE update 91						
64-bit Java 8 JDK update 91						
32-bit AdoptOpenJDK Java 8 u181				✓ <sup>3</sup>		
64-bit AdoptOpenJDK Java 8 u181						
MSXML 6	✓	✓	✓	✓	✓	✓
Silverlight 5						
Flash 10 and higher						
Visual Studio 2010 Tools for Office Runtime						

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	<b>Virtualization</b>						
	Microsoft App-V 5.1						
	Microsoft Hyper-V (Server)	✓	✓	✓	✓	✓	✓
	VMware ESX Server 6.0 (Server)	✓	✓	✓	✓	✓	✓
	Microsoft Terminal Services (Desktop)	✓				✓	
Citrix XenApp 7.9 (Desktop)							
<b>Web Browsers</b>							
Internet Explorer 11	✓	✓	✓	✓	√ <sup>2</sup>	√ <sup>2</sup>	
Google Chrome Evergreen Version 55+	✓	✓	✓	✓	✓	✓	
Safari on iOS 10+ for iPad Support							
<b>Security Frameworks</b>							
Aspen Framework (AFW) 5	✓			✓	✓	✓	
Non-Domain Security Group	✓			✓	✓	✓	
Microsoft Active Directory / Active Directory Domain Services	✓			✓			
<b>Java App (Servers)</b>							
Apache Tomcat 8.0.35							
WebLogic 12c							
<b>Web Servers</b>							
IIS 10				✓ <sup>1</sup>			
IIS 8.5				✓ <sup>1</sup>			
IIS 7.5				✓ <sup>1</sup>			
Apache HTTP Server 2.2.xx							
<b>Reporting Services</b>							
Microsoft Report Viewer 2010 SP1							
Microsoft SQL Server 2012/2014/2016 Reporting Services							
Microsoft SQL Server 2008 R2 Reporting Services							
Crystal Reports 8.5							
Crystal Reports 11							
<b>Malware Blocking Features</b>							
EMET 5.5	✓	✓	✓	✓			
DEP	✓	✓	✓	✓			
<b>Integration Components</b>							
Aspen Supply Chain Connect							

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	Informatica Powercenter 10						
	Cloud Support *						
	Azure VM - Microsoft						
	Amazon VM						
	Azure Virtual Apps Essentials						
Nutanix Frame							
Deployment Tools							
SCCM 2016 (version 1606)							
SCCM 2012 R2 SP1							
Desktop Types - Minimum Recommended							
<b>Type I:</b> Computer & processor: Intel Core-i5 family or faster Memory (RAM): <b>8</b> gigabytes (GB) RAM Hard Disk: <b>80</b> gigabytes (GB) available Monitor: Graphics hardware acceleration requires a DirectX10 graphics card and a 1280 x 1024 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 1280 x 1024 or higher resolution monitor Network: 100MB/Sec							

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	Server Types - Minimum Recommended						
	<b>Type I:</b> Computer & processor: Intel Core-i5 family or faster for standalone deployment Intel Xeon E5 series, 4 cores or more for multi-user environment Memory (RAM): 8 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						
	<b>Type II:</b> Computer & processor: Intel Xeon E5 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)		√ <sup>1</sup>		√ <sup>1</sup>		✓
	<b>Type III:</b> 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)			√ <sup>1</sup>			
	<b>Type IV: (IIoT Gateways)</b> Computer & processor: ARM or Intel based CPU or more Memory (RAM): 256Mb or more Hard Disk: 128Mb or more			√ <sup>1</sup>			

**Notes:**

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.

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	<sup>1</sup> See "Basic Deployment Recommendations" in Appendix C of the Aspen Manufacturing Suite Advanced Process Control Installation Guide.						
	<sup>2</sup> Must be in compatibility mode for Aspen Process Sequencer						
	<sup>3</sup> For new installations of APC Web Server, install IIS and JRE before installing APC Web Server						
	When running software on a virtual machine, the machine should meet the same requirements.						