

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 10 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)					✓	
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						

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SQL Server 2008 R2 Analysis Services						
Oracle Database 12.1.0.2						
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				✓ ³		
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				✓ ³		
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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	Virtualization					
Microsoft App-V 5.1						
Microsoft Hyper-V (Server)	✓	✓	✓	✓	✓	✓
VMware ESX Server 6.0 (Server)	✓	✓	✓	✓	✓	✓
Microsoft Terminal Services (Desktop)	✓				✓	
Citrix XenApp 7.9 (Desktop)						
Web Browsers						
Internet Explorer 11	✓	✓	✓	✓	✓ ²	✓ ²
Google Chrome Evergreen Version 55+	✓	✓	✓	✓	✓	✓
Safari on iOS 10+ for iPad Support						
Security Frameworks						
Aspen Framework (AFW) 5	✓			✓	✓	✓
Non-Domain Security Group	✓			✓	✓	✓
Microsoft Active Directory / Active Directory Domain Services	✓			✓		
Java App (Servers)						
Apache Tomcat 8.0.35						
WebLogic 12c						
Web Servers						
IIS 10				✓ ¹		
IIS 8.5				✓ ¹		
IIS 7.5				✓ ¹		
Apache HTTP Server 2.2.xx						
Reporting Services						
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						
Malware Blocking Features						
EMET 5.5	✓	✓	✓	✓		

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DEP	✓	✓	✓	✓		
Integration Components						
Aspen Supply Chain Connect						
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						
Type I: Computer & processor: Intel Core-i5 family or faster Memory (RAM): 8 gigabytes (GB) RAM Hard Disk: 80 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						

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Server Types - Minimum Recommended						
Type I: 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						
Type II: 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)		√ ¹		√ ¹		✓
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)			√ ¹			
Type IV: (IIoT Gateways) Computer & processor: ARM or Intel based CPU or more Memory (RAM): 256Mb or more Hard Disk: 128Mb or more			√ ¹			

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