

Suite	Manufacturing & Supply Chain Suite											
V9.1 Platform Specification	Manufacturing Execution Systems (MES)											
	Manufacturing Execution Systems (MES) Desktop Apps	Manufacturing Execution Systems (MES) Admin Tools	aspenONE Process Explorer Server	aspenONE Process Explorer Client	InfoPlus.21 (IP.21) Server	Process Browser	Interfaces	Plant Operations	Aspen Production Record Manager (APRM) Server	Aspen Production Execution Manager (APEM) Server	Weigh & Dispense	Aspen Role Based Visualization 64-bit
<b>Operating Systems (64-bit only)</b>												
Windows 10 Enterprise & Professional (64-bit)	✓	✓		✓			✓	✓			✓	
Windows 8.1 Update 1 Enterprise & Professional (64-bit)	✓	✓		✓			✓	✓			✓	
Windows 7 Enterprise & Professional SP1 (64-bit)	✓	✓		✓			✓	✓			✓	
Windows Server 2012 R2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Windows Server 2008 R2 SP1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
iOS 9.3+ for iPad Support				✓								
<b>Microsoft Office</b>												
Office 365 (Desktop/Click-to-run)	✓	✓				✓					✓	
Office 2016 (64-bit)												
Office 2016 (32-bit)	✓	✓				✓					✓	
Office 2013 SP1 (32-bit)	✓	✓				✓					✓	
Office 2010 SP2 (32-bit)	✓	✓				✓					✓	
<b>Database Servers</b>												
Microsoft SQL Server 2014 SP1 (Enterprise/Standard Edition)				✓		✓	✓	✓	✓	✓	✓	✓
Microsoft SQL Server 2014 SP1 (Express Edition)												
Microsoft SQL Server 2012 SP2 (Enterprise/Standard Edition)				✓		✓	✓	✓	✓	✓	✓	✓
Microsoft SQL Server 2012 SP2 (Express Edition)												
Microsoft SQL Server 2008 R2 SP2 (Enterprise/Standard Edition)				✓		✓	✓	✓	✓	✓	✓	✓
Microsoft SQL Server 2008 R2 SP2 (Express Edition)												
SQL Server Local DB												
SQL Server 2012 Analysis Services												
SQL Server 2008 R2 Analysis Services												
Oracle Database 12.1.0.2				✓		✓	✓	✓	✓	✓	✓	
Oracle Database 11.2.0.4				✓		✓	✓	✓	✓	✓	✓	
<b>Database Clients</b>												
Oracle Client 12.1.0.2 32-bit	✓	✓		✓		✓	✓	✓	✓	✓	✓	
Oracle Client 11.2.0.4 32-bit	✓	✓		✓		✓	✓	✓	✓	✓	✓	
Oracle Client 12.1.0.2 64-bit	✓	✓		✓		✓	✓	✓	✓	✓	✓	

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Oracle Client 11.2.0.4 64-bit	✓	✓			✓		✓	✓	✓	✓	✓	
<b>Web Browsers</b>												
Internet Explorer 11				✓		✓	✓	✓	✓	✓	✓	✓
Internet Explorer 10				✓		✓	✓	✓	✓	✓	✓	✓
Google Chrome Evergreen Version 49+				✓								
Safari on iOS 9.3 for iPad Support				✓								
<b>Runtimes</b>												
.NET Framework 4.6	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓
.NET Framework 4.5.2	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓
.NET Framework 3.5			✓		✓		✓					
Java 8 JRE update 40	✓		✓			✓				✓	✓	✓
Java 8 JDK update 40	✓		✓			✓						
AdoptOpenJDK Java 8 u181	✓		✓							✓	✓	✓
MSXML 6	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Silverlight 5						✓						
Flash 10 and higher												
Visual Studio 2010 Tools for Office Runtime	✓											
<b>Virtualization</b>												
Microsoft App-V 5.1	✓											
Microsoft Hyper-V (Server)	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓
VMware ESX Server 5.5.3 (Server)	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓
Microsoft Terminal Services (Desktop)	✓	✓			✓		✓		✓	✓	✓	
Citrix XenApp 7.6 (Desktop)	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	
<b>Security Frameworks</b>												
Aspen Framework (AFW) 5	✓	✓	✓		✓	✓	✓		✓	✓	✓	
Microsoft Active Directory / Active Directory Domain Services			✓									✓
<b>Java App (Servers)</b>												
Apache Tomcat 8.0.21			✓							✓	✓	
WebLogic 12c												
<b>Web Servers</b>												

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IIS 8.5			✓			✓				✓	✓	✓
IIS 7.5			✓			✓				✓	✓	✓
Apache HTTP Server 2.2.xx												
<b>Reporting Services</b>												
Microsoft Report Viewer 2010 SP1												
Crystal Reports 8.5								✓				
Crystal Reports 11												
<b>Integration/Messaging Components</b>												
Informatica Powercenter 9.6.1												
<b>Deployment Tools</b>												
SCCM 2016												
SCCM 2012 R2 SP1												
<b>Desktop Types</b>												
<b>Type I:</b> Computer & processor: Intel Core-i5 family 2.8 gigahertz (GHz) 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 2.8 gigahertz (GHz) 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												
<b>Server Types</b>												
<b>Type I:</b> Computer & processor: Intel Core-i5 family 2.8 gigahertz (GHz) or faster for standalone deployment Intel Xeon E5 series, 4 cores or more and 2.8GHz or higher for multi-user environment Memory (RAM): <b>8</b> or above gigabytes (GB) RAM for standalone deployment, 16 or above gigabytes (GB) RAM for multi-user environment Hard Disk: <b>150</b> gigabytes (GB) available 300 gigabytes (GB) available 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							✓	✓	✓	✓	✓	

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<b>Type II:</b> Computer & processor: Intel Xeon E5 series, 2.8 gigahertz (GHz) (4 cores) or faster Memory (RAM): <b>16</b> or above gigabytes (GB) RAM Hard Disk: <b>300</b> gigabytes (GB) or more available 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 III:</b> Computer & processor: 4 x Intel 2.66 gigahertz (GHz) (8 cores) or faster 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 1280 x 1024 or higher resolution monitor Network: 100MB/Sec			✓		✓						✓

**Notes:**  
 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).

When running software on a virtual machine, the machine should meet the same requirements.

If running standalone, 1280 x 800 is the minimum recommended resolution monitor for servers.

Your Aspen SLM Server must be installed and running prior to installing any V9/V9.1 product.