

Suite	Engineering Suite								
V9.1 Platform Specification	AES Property System 32-bit	Process Modeling (Aspen Plus) 32-bit	Exchanger Design & Rating (EDR) 32-bit <sup>2</sup>	Process Modeling (Aspen HYSYS) 32-bit	Economic Evaluation (EE) 32-bit	Basic Engineering Client	Basic Engineering Server	Aspen OnLine (AOL)	
	<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							✓		
Oracle Client 11.2.0.4 64-bit							✓		

Suite	Engineering Suite								
V9.1 Platform Specification	AES Property System 32-bit	Process Modeling (Aspen Plus) 32-bit	Exchanger Design & Rating (EDR) 32-bit <sup>2</sup>	Process Modeling (Aspen HYSYS) 32-bit	Economic Evaluation (EE) 32-bit	Basic Engineering Client	Basic Engineering Server	Aspen OnLine (AOL)	
	<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					✓				
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>									
IIS 8.5								✓	
IIS 7.5								✓	
Apache HTTP Server 2.2.xx									

Suite	Engineering Suite								
V9.1 Platform Specification	AES Property System 32-bit	Process Modeling (Aspen Plus) 32-bit	Exchanger Design & Rating (EDR) 32-bit <sup>2</sup>	Process Modeling (Aspen HYSYS) 32-bit	Economic Evaluation (EE) 32-bit	Basic Engineering Client	Basic Engineering Server	Aspen OnLine (AOL)	
	<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									

Suite	Engineering Suite								
<p align="center"><b>V9.1 Platform Specification</b></p>	AES Property System 32-bit	Process Modeling (Aspen Plus) 32-bit	Exchanger Design & Rating (EDR) 32-bit <sup>2</sup>	Process Modeling (Aspen HYSYS) 32-bit	Economic Evaluation (EE) 32-bit	Basic Engineering Client	Basic Engineering Server	Aspen OnLine (AOL)	
	<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							✓	
	<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	✓ <sup>1</sup>							✓ <sup>1</sup>

Suite	Engineering Suite								
V9.1 Platform Specification	AES Property System 32-bit	Process Modeling (Aspen Plus) 32-bit	Exchanger Design & Rating (EDR) 32-bit <sup>2</sup>	Process Modeling (Aspen HYSYS) 32-bit	Economic Evaluation (EE) 32-bit	Basic Engineering Client	Basic Engineering Server	Aspen OnLine (AOL)	
	Localization								
	Chinese		✓		✓				
	French								
	German								
	Italian								
	Japanese		✓		✓				
	Portuguese								
Russian		✓		✓					
Spanish									

**Notes:**

aspenONE Engineering suite consists of the following products: Aspen Plus family, Aspen HYSYS family, Aspen Exchanger Design & Rating (EDR), Aspen Economic Evaluation (EE), Aspen Basic Engineering (ABE), aspenONE Web Server, and aspenONE Exchange.

<sup>1</sup> For standalone deployments of Engineering products, server type I is sufficient

<sup>2</sup> EDR does not use any database servers. Deploys its own Access DB files.

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 product.