Suite	Asset Performance Management							
V12 Platform Specifications that are supported	Aspen Fidelis 64-bit	Aspen ProMV 64-bit [16]	Aspen ProMV Online Server 64-bit [16]	Aspen ProMV Online Client 64-bit	Aspen Event Analytics	Aspen Mtell 64-bit [16]	Aspen Mtell Maestro Containers	Asset Performance Management Insights [30]
Operating Systems (64-bit only)								
Windows 10 Anniversary Enterprise & Professional (64-bit)	✓	✓		✓		✓		
Windows 8.1 Update 1 Enterprise & Professional (64-bit)	✓	✓		✓		✓		
Windows Server 2019	✓	✓	✓	✓		✓	✓[26]	✓
Windows Server 2016	✓	✓	✓	✓		✓		
Windows Server 2012 R2	✓	✓	✓	✓		✓		
Ubuntu Server Edition 20.04 LTS								
Ubuntu Server Edition 18.04 LTS								
Ubuntu Server Edition 16.04 LTS								
Microsoft Office								
Office 365 (Desktop/Click-to-run) (32-bit/64-bit)	✓	✓						
Office 2019 (64-bit)	✓	✓						
Office 2019 (32-bit)	✓	✓						
Office 2016 (64-bit)	✓	✓						
Office 2016 (32-bit)	✓	✓						
Office 2013 (32-bit)	✓	✓						
Database Servers								
Microsoft SQL Server 2019 (Enterprise/Standard Edition)			✓			✓		✓
Microsoft SQL Server 2019 (Express Edition)			✓			✓		
Microsoft SQL Server 2017 (Enterprise/Standard Edition)			✓			✓		✓
Microsoft SQL Server 2017 (Express Edition)			✓			✓		
Microsoft SQL Server 2016 (Enterprise/Standard Edition)						✓		
Microsoft SQL Server 2016 (Express Edition)						✓		
Microsoft SQL Server 2014 (Enterprise/Standard Edition)						✓		
Microsoft SQL Server 2014 (Express Edition)						✓		
Microsoft SQL Server 2012 (Enterprise/Standard Edition)						✓		

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Microsoft SQL Server 2012 (Express Edition)						✓		
SQL Server 2014 Local DB	✓							
SQL Server 2016 Local DB	✓		✓					
SQL Server 2012 -2019 Analysis Services								
Oracle Database 19.x.x 64-bit								
Oracle Database 18.x.x 64-bit								
Oracle Database 12.2 64-bit								
Database Clients								
Oracle Client 19.x 32-bit								
Oracle Client 19.x 64-bit								
Oracle Client 18.x 32-bit								
Oracle Client 12.2 64-bit								
Oracle Client 12.2 32-bit								
Runtimes								
.NET Framework 4.8	✓	✓	✓			✓		✓
.NET Core 3.1.x			✓					
ASP.NET Core 3.1.x								✓
64-bit Oracle Java 11 JRE LTS			✓					
64-bit Oracle Java 11 JDK LTS			✓					
64-bit Oracle Java 8 JRE LTS								
64-bit Oracle Java 8 JDK LTS								
32-bit AdoptOpenJDK Java 11 LTS								
64-bit AdoptOpenJDK Java 11 LTS			✓			✓[17]		
64-bit AdoptOpenJDK Java 8 LTS								
MSXML 6						✓		
Visual Studio 2019								

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Visual Studio 2017	✓							
Visual Studio 2015	✓							
Visual Studio 2013								
Visual Studio 2010 Tools for Office Runtime								✓
Microsoft Visual C++ Redistributable 2019								✓
Microsoft Visual C++ Redistributable 2017	✓	✓	✓			✓		✓
Microsoft Visual C++ Redistributable 2015	✓	✓	✓			✓		✓
Microsoft Visual C++ Redistributable 2013		✓	✓					
Virtualization								
Microsoft App-V 5.1								
Microsoft Hyper-V (Server)	✓	✓	✓			✓	✓	
VMware ESXi Hypervisor Server 6.x (Server)	✓	✓	✓			✓		
VMWare vSphere Enterprise Plus							✓	
Microsoft Terminal Services (Desktop)	✓					✓		
Citrix XenApp 7.18 (Desktop)	✓	✓				✓		
Web Browsers								
Internet Explorer 11				✓				
Microsoft Edge [25]	✓[23]			✓		✓		✓
Google Chrome Evergreen Version 75+	✓[23]			✓	✓	✓		✓
Firefox					✓			
Chrome on iOS 12+ for iPad Support								
Safari on iOS 13+ for iPad Support+A86								
Security Components/Services								
Aspen Framework (AFW) 5			✓					
Java App (Servers)								
Apache Tomcat 9.0+			✓					
Native Web Servers								
IIS 10								

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IIS 8.5								
Reporting Services								
Microsoft Report Viewer 2015								
Microsoft SQL Server 2012/2014/2016/2017/**2019** Reporting Services								
Load Balancing								
F5 Load Balancing								
Integration Components								
Aspen Supply Chain Connect								
Informatica Powercenter 10.4								
Cloud Support *								
Azure VM - Microsoft	✓	✓	✓	✓		✓		
Amazon VM (AWS)	✓	✓	✓	✓	✓	✓		
Azure VM - Linux					✓			
Nutanix XiFrame								
Virtual Apps Essentials								
Windows Virtual Desktop (WVD Fall 2019 Release) [27]								
Deployment Tools								
SCCM								
Supported Versions of Fortran								
FORTRAN 2019		✓	✓					
Container Support								
Docker Engine-Enterprise 19.03.x							✓	
Docker Compose 1.26.x							✓	
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 1440 x 900 or higher resolution monitor Network: 100MB/Sec	✓	✓		✓				

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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 1440 x 900 or higher resolution monitor Network: 100MB/Sec						✓		
Server Types - Minimum Recommended								
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, 32 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 1440 x 900 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 1440 x 900 or higher resolution monitor Network: 100MB/Sec (Gigabyte network recommended)								✓
Type III: Computer & processor: Intel Cascade Lake-based Xeon processor with 8 cores or more per processor 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 1440 x 900 or higher resolution monitor Network: 100MB/Sec (Gigabyte network recommended)			✓			✓		
Type IV: (IIoT Gateways) Computer & processor: ARM or Intel based CPU or more Memory (RAM): **256Mb** or more Hard Disk: **128Mb** or more								
Type V Windows Server 2019 v1809+ Memory (RAM in GB): Minimum: 16 Recommended: 32 Cores: Minimum: 4, Recommended: 8 Disk space (GB): Minimum: 64, Recommended: 100 Network (MB/s): Minimum: 50, Recommended: 100							✓	
Notes								

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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 V12 product.								
If running standalone, 1280 x 800 is the minimum recommended resolution monitor for servers.								
For SLM server using Type 1 Desktop configuration, the minimum memory is 4GB with 20GB hard drive.								
Microsoft Active Directory/Domain Services (Required for aspenONE Web Server)								
A minimum of 10GB of free space is needed to install/upgrade products.								
[16] Non-English OS's are not supported								
[17] If using IBM Maximo Adapter								
[25] Only the version of MS Edge that uses the Google Chrome engine is supported								
[30] APM Insights must be installed on the same server as AEI.								