Suite	Manufacturing & Supply Chain Suite									
	Petroleum Supply Chain (PSC)									
V12.1 Platform Specifications that are supported	Aspen Unified 64-bit	Petroleum Supply Chain Planner (PSCP/DPO) 32-bit	Aspen Petroleum Scheduler (APS) 32-bit	Multi-Blend Optimizer (MBO) 32-bit	PIMS 32-bit	Aspen Verify	Aspen Fleet Optimizer (AFO) Web Server	Aspen Fleet Optimizer (AFO) Map Monitor Client	AFO Web 64-bit	Aspen Fleet Optimizer (AFO) (Retail) 32-bit
Operating Systems (64-bit only)										
Windows 10 Anniversary Enterprise & Professional (64-bit)	✓	✓	✓	✓	✓	✓		✓	✓	✓
Windows 8.1 Update 1 Enterprise & Professional (64-bit)	✓	✓	✓	✓	✓	✓		✓	✓	✓
Windows Server 2019	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
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)	✓	✓	✓	✓	✓	✓	✓			✓

V12.1 Platform Specifications that are supported	Manufacturing & Supply Chain Suite									
Suite	**Petroleum Supply Chain (PSC)**									
	Aspen Unified 64-bit	Petroleum Supply Chain Planner (PSCP/DPO) 32-bit	Aspen Petroleum Scheduler (APS) 32-bit	Multi-Blend Optimizer (MBO) 32-bit	PIMS 32-bit	Aspen Verify	Aspen Fleet Optimizer (AFO) Web Server	Aspen Fleet Optimizer (AFO) Map Monitor Client	AFO Web 64-bit	Aspen Fleet Optimizer (AFO) (Retail) 32-bit
Microsoft SQL Server 2012 (Express Edition)	✓		✓	✓	✓	✓				
SQL Server 2014 Local DB	✓[12]	✓[12]	✓[12]	✓[12]	✓[12]	✓[12]				
SQL Server 2016 Local DB										
SQL Server 2012 -2019 Analysis Services										
ProgresSQL 13.2										
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 Framework 3.5										
.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										
64-bit AdoptOpenJDK Java 8 LTS										

Suite	Manufacturing & Supply Chain Suite									
	Petroleum Supply Chain (PSC)									
V12.1 Platform Specifications that are supported	Aspen Unified 64-bit	Petroleum Supply Chain Planner (PSCP/DPO) 32-bit	Aspen Petroleum Scheduler (APS) 32-bit	Multi-Blend Optimizer (MBO) 32-bit	PIMS 32-bit	Aspen Verify	Aspen Fleet Optimizer (AFO) Web Server	Aspen Fleet Optimizer (AFO) Map Monitor Client	AFO Web 64-bit	Aspen Fleet Optimizer (AFO) (Retail) 32-bit
MSXML 6	✓			✓	✓		✓	✓	✓	✓
Visual Studio 2019										
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]									✓	
Google Chrome Evergreen Version 75+	✓					✓			✓	
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+										

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Native Web Servers										
IIS 10										
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	✓		✓[35]							
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										

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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										
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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	Petroleum Supply Chain (PSC)										
V12.1 Platform Specifications that are supported	Aspen Unified 64-bit	Petroleum Supply Chain Planner (PSCP/DPO) 32-bit	Aspen Petroleum Scheduler (APS) 32-bit	Multi-Blend Optimizer (MBO) 32-bit	PIMS 32-bit	Aspen Verify	Aspen Fleet Optimizer (AFO) Web Server	Aspen Fleet Optimizer (AFO) Map Monitor Client	AFO Web 64-bit	Aspen Fleet Optimizer (AFO) (Retail) 32-bit
* In general, AspenTech aspenONE® software license agreements with customers permit use of the licensed software on Supported Computers at customer Sites. "Supported Computers" include computers with a manufacture, model and operating system for which AspenTech offers a supported version of the software, and that are controlled by the customer. "Sites" are customer facilities or locations specified in the license agreement. AspenTech permits customer use of licensed aspenONE software in the cloud where: (i) the Platform Support specifications published by AspenTech for the relevant version of the software product include cloud support; (ii) only the customer has access to the licensed software hosted by the cloud service provider; and (iii) the user is accessing the software only from a Site specified in the applicable license agreement. Cloud deployment does not change any license restrictions, including the restrictions on which regions can access the software.	Petroleum Supply Chain (PSC) suite consists of the following products: Petroleum Supply Chain Planner (PSCP), Aspen Petroleum Scheduler (APS), PIMS									

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.
[12] This configuration is only practical for small scale models and deployments. For most applications, best deployment practice dictates the use of a separate and dedicated database server for acceptable
[25] Only the version of MS Edge that uses the Google Chrome engine is supported
[27] WVD Certification Notes – 1. Publishing WVD apps to users local machine start menu not supported 2. Interoperability with 3rd party products only supported with Office 365 3. Aspen Properties Enterprise Database (APED) via SQL Server not supported 4. The following products have not been certified for WVD: ABE, ABPD, AOL, AVCA
[35] Azure support is available with V12 CP1