Suite	Manufacturing & Supply Chain Suite
	Camo
V12 Platform Specifications that are supported	Unscramler
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)	

Suite	Manufacturing & Supply Chain Suite
	Camo
V12 Platform Specifications that are supported	Unscramler
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	
64-bit AdoptOpenJDK Java 8 LTS	
MSXML 6	
Visual Studio 2019	

Suite	Manufacturing & Supply Chain Suite
	Camo
V12 Platform Specifications that are supported	Unscramler
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+	
Native Web Servers	
IIS 10	

Suite	Manufacturing & Supply Chain Suite
	Camo
V12 Platform Specifications that are supported	Unscramler
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	

Suite	Manufacturing & Supply Chain Suite
	Camo
V12 Platform Specifications that are supported	Unscramler
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

Suite	Manufacturing & Supply Chain Suite
	Camo
V12 Platform Specifications that are supported	Unscramler
* 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.	**Need a list of the products included**
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.	