V11.1 Platform Specifications that are supported	Exchange [18]	Aspen Infrastructure - Product Installation	Software License Manager (SLM) [19]	aspenONE Update Center Windows	aspenONE Integration Foundation	Aspen Reporting Framework 64-bit	Aspen Framework Server (AFW)
Operating Systems (64-bit only)							
Windows 10 Anniversary Enterprise & Professional (64-bit)	✓	✓	✓	✓	✓		
Windows 8.1 Update 1 Enterprise & Professional (64-bit)	✓	✓	✓	✓	✓		
Windows 7 Enterprise & Professional SP1 (64-bit)	✓	✓	✓	✓	✓		
Windows Server 2019 [22]							
Windows Server 2016	✓	✓	✓	✓	✓	✓	✓
Windows Server 2012 R2	✓[20]	✓	✓	✓	✓	✓	✓
Windows Server 2008 R2 SP1	✓	✓	✓	✓	✓	✓	✓
Ubuntu Server Edition 16.04 LTS							
Advantech Smart Swarm 2.2.2							
Advantech Smart Router Series coLinux							
Safari on iOS 11+ for iPad Support							
Microsoft Office							
Office 365 (Desktop/Click-to-run)		✓			✓[21]		
Office 2019 (64-bit)		✓					
Office 2019 (32-bit)		✓			✓		
Office 2016 (64-bit)		✓					
Office 2016 (32-bit)		✓			✓		
Office 2013 SP1 (32-bit)		✓			✓		
Office 2010 SP2 (32-bit)		✓			✓		
Database Servers							
Microsoft SQL Server 2017 (Enterprise/Standard Edition)	✓	✓			✓	✓	✓

Suite

Additional Products & Utilities

Suite	Additional Products & Utilities						
V11.1 Platform Specifications that are supported	Exchange [18]	Aspen Infrastructure - Product Installation	Software License Manager (SLM) [19]	aspenONE Update Center Windows	aspenONE Integration Foundation	Aspen Reporting Framework 64-bit	Aspen Framework Server (AFW)
Microsoft SQL Server 2017 (Express Edition)		✓					
Microsoft SQL Server 2016 SP1 (Enterprise/Standard Edition)	✓	✓			✓	✓	✓
Microsoft SQL Server 2016 SP1 (Express Edition)		✓					
Microsoft SQL Server 2014 SP2 (Enterprise/Standard Edition)	✓	✓			✓	✓	✓
Microsoft SQL Server 2014 SP2 (Express Edition)		✓					
Microsoft SQL Server 2012 SP3 (Enterprise/Standard Edition)	✓	✓			✓	✓	✓
Microsoft SQL Server 2012 SP3 (Express Edition)		✓					
SQL Server Local DB		✓					
SQL Server 2012 Analysis Services						✓	✓
Oracle Database 12.2.x 64-bit					✓		✓
Oracle Database 11.2.x 64-bit					✓		✓
Database Clients							
Microsoft SQL Server 2017 (Express Edition)					✓		
Microsoft SQL Server 2016 SP1 (Express Edition)					✓		
Microsoft SQL Server 2014 SP2 (Express Edition)					✓		
Microsoft SQL Server 2012 SP2 (Express Edition)					✓		
Microsoft SQL Server 2008 R2 SP3 (Express Edition)					✓		
Oracle Client 18.3 32-bit					✓		
Oracle Client 18.3 64-bit					✓		
Oracle Client 12.1.0.2 32-bit					✓		
Oracle Client 11.2.0.4 32-bit					✓		
Oracle Client 12.2.x 64-bit					✓		
Oracle Client 11.2.x 64-bit					✓		
Runtimes							
.NET Framework 4.7.1	✓	✓	✓	✓	✓	✓	✓
.NET Framework 4.0							

Suite	Additional Products & Utilities						
V11.1 Platform Specifications that are supported	Exchange [18]	Aspen Infrastructure – Product Installation	Software License Manager (SLM) [19]	aspenONE Update Center Windows	aspenONE Integration Foundation	Aspen Reporting Framework 64-bit	Aspen Framework Server (AFW)
.NET Framework 3.5							
32-bit Oracle Java 8 JRE update 151		✓					
32-bit Oracle Java 8 JDK update 151		✓					
64-bit Oracle Java 8 JRE update 151		✓					
64-bit Oracle Java 8 JDK update 151		✓					
32-bit AdoptOpenJDK Java 8 u181							
64-bit AdoptOpenJDK Java 8 u181							
MSXML 6		✓	✓		✓	✓	✓
Visual Studio 2013, 2015, 2017							
Microsoft Visual C++ Redistributable 2017							
Microsoft Visual C++ Redistributable 2015							
Microsoft Visual C++ Redistributable 2013							
Visual Studio 2010 Tools for Office Runtime		✓					
Virtualization							
Microsoft App-V 5.1							
Microsoft Hyper-V (Server)	✓	✓	✓		✓	✓	✓
VMware vSphere 6.x (Server)	✓	✓	✓		✓	✓	✓
Microsoft Terminal Services (Desktop)	✓	✓	✓				
Citrix XenApp 7.14 (Desktop)	✓	✓					
Web Browsers							
Internet Explorer 11	✓			✓			✓
Microsoft Edge							
Google Chrome Evergreen Version 75+	✓						
Safari on iOS 11+ for iPad Support							
Security Components/Services							

V11.1 Platform Specifications that are supported	Exchange [18]	Aspen Infrastructure - Product Installation	Software License Manager (SLM) [19]	aspenONE Update Center Windows	aspenONE Integration Foundation	Aspen Reporting Framework 64-bit	Aspen Framework Server (AFW)
Suite	**Additional Products & Utilities**						
Aspen Framework (AFW) 5					✓		
Non-Domain Security Group		✓					
Microsoft Active Directory / Active Directory Domain Services		✓					
Java App (Servers)							
Apache Tomcat 8.5+	✓						
Web Servers							
IIS 10	✓	✓			✓		
IIS 8.5	✓	✓			✓		
IIS 7.5	✓	✓			✓		
Reporting Services							
Microsoft Report Viewer 2010 SP1		✓					
Microsoft SQL Server 2008 R2/2012/2014/2016/2017 Reporting Services							
Crystal Reports 8.5							
Crystal Reports 11							
Malware Blocking Features							
DEP-Data Execution Prevention	✓	✓	✓	✓	✓	✓	✓
Integration Components							
Aspen Supply Chain Connect							
Informatica Powercenter 10.2 HF1							
Cloud Support *							
Azure VM - Microsoft	✓	✓	✓				
Amazon VM (AWS)	✓	✓	✓				
Azure VM - Linux							
Windows Virtual Desktop (WVD Fall 2019 Release) [27]							

Suite	Additional Products & Utilities						
V11.1 Platform Specifications that are supported	Exchange [18]	Aspen Infrastructure - Product Installation	Software License Manager (SLM) [19]	aspenONE Update Center Windows	aspenONE Integration Foundation	Aspen Reporting Framework 64-bit	Aspen Framework Server (AFW)
Nutanix XiFrame							
Azure Virtual Apps Essentials	✓	✓	✓				
Docker Engine-Enterprise 18.09.x							
Docker Compose 1.23.x							
Deployment Tools							
SCCM 2016 (version 1606)							
SCCM 2012 R2 SP1							
Built With							
FORTRAN 2017							
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 1280 x 1024 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 1280 x 1024 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, 16 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 1280 x 1024 or higher resolution monitor Network: 100MB/Sec			✓			✓	✓

Suite	Additional Products & Utilities						
V11.1 Platform Specifications that are supported	Exchange [18]	Aspen Infrastructure - Product Installation	Software License Manager (SLM) [19]	aspenONE Update Center Windows	aspenONE Integration Foundation	Aspen Reporting Framework 64-bit	Aspen Framework Server (AFW)
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 1280 x 1024 or higher resolution monitor Network: 100MB/Sec (Gigabyte network recommended)							
Type III: Computer & processor:4 x Intel (**8** cores) or faster 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 1280 x 1024 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							
Windows Server 2019 v1809+ Memory (RAM in GB): Minimum: 16 Recommended: 32 Cores: Minimum: 4, Recommended: 8 Disk space (GB): Minimum: 64, Recommended: 100							

Suite	Additional Products & Utilities						
V11.1 Platform Specifications that are supported	Exchange [18]	Aspen Infrastructure - Product Installation	Software License Manager (SLM) [19]	aspenONE Update Center Windows	aspenONE Integration Foundation	Aspen Reporting Framework 64-bit	Aspen Framework Server (AFW)
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 V11 product.							
If running standalone, 1280 x 800 is the minimum recommended resolution monitor for servers.							
For SLM server using the Type 1 Desktop configuration, the minimum memory is 4GB with 20GB hard drive.							
Microsoft Active Directory/Domain Services (Required for aspenONE Web Server)							
18 1 If using aspenONE Exchange on Windows Server 2012 R2, you must select the Desktop Experience option during Windows installation to enable Flash training videos.							
19 SLM supported in cloud (Azure VM/Amazon VM) for ENG products that are supported in the cloud							
20 If FIPS is enabled, aspenONE Exchange users must have the latest Windows Update patches installed on their machine.							
21 Office 365 - 32-bit support only							
22 Requires the latest patches of the corresponding AspenTech software							