| Suite | Manufacturing & Supply Chain Suite | | |
|---|---|---|---|
| | Dynamic Optimization (GDOT) | | |
| V12 Platform Specifications that are supported | aspenONE Unified GDOT Builder 64-bit | Aspen GDOT Online 32-bit | Aspen GDOT Offline 32-bit |
| **Operating Systems (64-bit only)** | | | |
| **Windows 11  Enterprise & Professional (64-bit)** | ✓ | | ✓ |
| 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 2021 (64-bit)** | ✓ | | |
| **Office 2021 (32-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) | ✓ | ✓ | ✓ |

| V12 Platform Specifications that are supported | Manufacturing & Supply Chain Suite | | |
| --- | --- | --- | --- |
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| Microsoft SQL Server 2014  (Enterprise/Standard Edition) | ✔ | ✔ | ✔ |
| Microsoft SQL Server 2014  (Express Edition) | ✔ | ✔ | ✔ |
| Microsoft SQL Server 2012  (Enterprise/Standard Edition) | ✔ | ✔ | ✔ |
| Microsoft SQL Server 2012  (Express Edition) | ✔ | ✔ | ✔ |
| SQL Server 2014  Local DB | ✔[12] | | |
| 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 | | | |

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| 64-bit AdoptOpenJDK Java 8 LTS | | | |
| 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)** | | | |

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|---|---|---|---|
| **V12 Platform Specifications that are supported** | **Dynamic Optimization (GDOT)** | | |
| | aspenONE Unified GDOT Builder 64-bit | Aspen GDOT Online 32-bit | Aspen GDOT Offline 32-bit |
| **Apache Tomcat 9.0+** | | | |
| **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 | | | |
| 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:**<br>Computer & processor: Intel Core-i5 family or faster<br>Memory (RAM): **16** gigabytes (GB) RAM<br>Hard Disk: **120** gigabytes (GB) available<br>Monitor: Graphics hardware acceleration requires a DirectX10 graphics card and a 1440 x 900 or higher resolution monitor<br>Network: 100MB/Sec | | | ✓ |
| **Type II:**<br>Computer & processor: Intel Core-i5 family or faster<br>Memory (RAM): **16** gigabytes (GB) RAM<br>Hard Disk: **250** gigabytes (GB) available<br>Monitor: Graphics hardware acceleration requires a DirectX10 graphics card and a 1440 x 900 or higher resolution monitor<br>Network: 100MB/Sec | ✓ | | |
| **Server Types - Minimum Recommended** | | | |
| **Type I:**<br>Computer & processor: Intel Core-i7 family or faster for standalone deployment<br>Intel Xeon Gold series, **4** cores or more for multi-user environment<br>Memory (RAM): **16** or above gigabytes (GB) RAM for standalone deployment, 32 or above gigabytes (GB) RAM for multi-user environment<br>Hard Disk: **150** gigabytes (GB) available for standalone deployment,<br>300 gigabytes (GB) for multi-user environment<br>Monitor: Graphics hardware acceleration requires a DirectX10 graphics card and a 1440 x 900 or higher resolution monitor<br>Network: 100MB/Sec | ✓ | ✓ | |
| **Type II:**<br>Computer & processor: Intel Xeon Gold series type system (**4** cores) or faster<br>Memory (RAM): **16** or above gigabytes (GB) RAM<br>Hard Disk: **300** gigabytes (GB) or more available<br>Monitor: Graphics hardware acceleration requires a DirectX10 graphics card and a 1440 x 900 or higher resolution monitor<br>Network: 100MB/Sec (Gigabyte network recommended) | | | |
| **Type III:**<br>Computer & processor: Intel Cascade Lake-based Xeon processor with 8 cores or more per processor<br>Memory (RAM): **32** or above gigabytes (GB) RAM<br>Hard Disk: **500** gigabytes (GB) or more available<br>Monitor: Graphics hardware acceleration requires a DirectX10 graphics card and a 1440 x 900 or higher resolution monitor<br>Network: 100MB/Sec (Gigabyte network recommended) | | | |
| **Type IV: (IIoT Gateways)**<br>Computer & processor: ARM or Intel based CPU or more<br>Memory (RAM): **256Mb** or more<br>Hard Disk: **128Mb** or more | | | |
| **Type V**<br>Windows Server 2019 v1809+<br>Memory (RAM in GB): Minimum: 16 Recommended: 32<br>Cores: Minimum: 4, Recommended: 8<br>Disk space (GB): Minimum: 64, Recommended: 100<br>Network (MB/s): Minimum: 50, Recommended: 100 | | | |

**Notes**

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|---|---|---|---|
| | **Dynamic Optimization (GDOT)** | | |
| **V12 Platform Specifications that are supported** | aspenONE Unified GDOT Builder 64-bit | Aspen GDOT Online 32-bit | Aspen GDOT Offline 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. <br><br> 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. <br><br> Cloud deployment does not change any license restrictions, including the restrictions on which regions can access the software. | GDOT or Aspen Dynamic Optimization consists of the following products: Includes Aspen GDOT and Aspen GDOT Web Viewer, Aspen GDOT Configuration Tool, Aspen GDOT Simulation and Aspen GDOT Simulation Web VieaspenONE Unified GDOT Builder, Aspen GDOT Projects, Aspen GDOT Online, Aspen GDOT Offline wer | | |
| 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. | | | |
| [1] 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 performance | | | |
| [2] EDR does not use any database servers. Deploys its own LocalDB database files. | | | |
| [3] Aspen Batch Process Developer does not support the 64-bit version of Visio. Visio is used in ABPD to generate the block diagram and process flow diagram reports; it is an optional feature. The 64-bit versions of Word and Excel are fully supported by ABPD. | | | |
| [4] When Aspen Utility model is driven by Aspen Online using Local System Account, then SQL Express 2014 is required. | | | |
| [5] When Exchanger Design and Rating is driven by Aspen Online using Local System Account, then SQL Express 2014 is required | | | |
| [6] Aspen Modeler family supports FORTRAN compiler version 2020 | | | |
| [7] Oracle or AdoptOpenJDK Java is needed if the 3rd party scheduling application Primavera is used with Economic Evaluation (EE). Primavera is owned by Oracle and its API uses Java. | | | |
| [8] Must be in compatibility mode for Aspen Process Sequencer | | | |

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[9] See "Basic Deployment Recommendations" in Appendix C of the Aspen Manufacturing Suite Advanced Process Control Installation Guide.

[10] For new installations of APC Web Server, install IIS and JRE before installing APC Web Server

[11] CIM-IO Interfaces can be installed on 32-bit desktops

[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

[13] Refer to KB 47648 For more information on configuring SCM products using Azure: https://esupport.aspentech.com/S_Article?id=000047648

[14] Only Web Download Excel Add-in requires Excel.

[15] Users need to install both the 32-bit and 64-bit Oracle Clients 19.x for building and running reports

[16] Non-English OS's are not supported

[17] If using IBM Maximo Adapter

[18] 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] Server-grade systems are not required but still supported.

[23] Browser Support as it relates to Knowledge Delivery only (for +A)

[24] ATOMS Web does not support Oracle

[25] Only the version of MS Edge that uses the Google Chrome engine is supported

[26] Maestro supports Windows Server 2019 version 1809+

[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

[28] APEM does not support CDB-PDB database in Oracle 12.2.
Weigh & Dispense Client 32-bit does not support Oracle

[29] SCCM support for APEx only

[30] APM Insights must be installed on the same server as AEI.

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| | |
|---|---|
| **31** Express version not recommended for production due to 10GB limitation | |
| **32** Type II is the minimum recommended when IP.21 is used with MES Collaboration. | |
| **33** Azure support is available with V12 CP1 | |
| **34** APP-V is only supported with Process Explorer | |
| **35** When you have more than 8 simultaneous users, the recommendation is 2CPU's and 4GB RAM per user. Performance will vary based on product and usage profiles. This can be considered a starting point for large multi-user machines. | |