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<td>Oracle Client 10.x 32-bit</td>
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<td>Oracle Client 10.x 64-bit</td>
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<td>Oracle Client 11.x 64-bit</td>
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<td>64-bit Oracle Java 11 JRE LTS</td>
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## 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

**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
- Memory (RAM): 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 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**

- Desktop Types - Minimum Recommended
- Server Types - Minimum Recommended
- Type I: Computer & processor: Intel Core-i5 family or faster
- Memory (RAM): 16 gigabytes (GB) RAM
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- 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

- Type III: Computer & processor: Intel Core-i7 family or faster for standalone deployment
- Memory (RAM): 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 1440 x 900 or higher resolution monitor
- Network: 100MB/Sec

- Type IV: (IIoT Gateways)
- Computer & processor: ARM or Intel based CPU or more
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**Manufacturing & Supply Chain Suite**

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**Manufacturing Execution Systems (MES)** consists of the following products:
- MES Desktop Apps
- MES Admin Tools
- aspenONE Web Server
- InfoPlus.21 Server
- aspenONE Process Explorer Client
- InfoPlus.21 (IP.21) Server
- Batch Interfaces
- Cim-IO Interfaces
- Plant Operations (ATOMS) Server
- Plant Operations (ATOMS) Client
- Plant Operations (AORA) Server
- Plant Operations (AORA) Client
- Aspen Production Manager (APRM) Server
- Aspen Production Execution Manager (APEM) Server
- Aspen Infrastructure
- aspenONE Integration Foundation (EIF)
- aspenONE Integration Foundation (MMDM)
- Aspen Role-Based Visualization (RBV)

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* 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:
1. The Platform Support specifications published by AspenTech for the relevant version of the software product include cloud support; and
2. The only customer has access to the licensed software hosted by the cloud service provider; and
3. 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.

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, 1024 x 600 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.


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.
# Suite

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</table>

| 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 performance. |
| 13. | Refer to KB 47648 For more information on configuring SCM products using Azure: https://support.aspentech.com/S_Article?id=000047648 |
| 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. |
| 27. | WVD Certification Notes: |
| 1. | Publishing WVD apps to users local machine start menu not supported. |
| 2. | Interoperability with third 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: ABI, ABE, APL, ACL, AVCA. |
| 28. | APEM does not support CDB-PDB database in Oracle 12.2. |
| 29. | Weigh & Dispense Client 32-bit does not support Oracle. |
| 30. | SCCM support for APEX only. |
| 31. | APM Insights must be installed on the same server as AEI. |
**Suite**

**Manufacturing & Supply Chain Suite**

**Manufacturing Execution Systems (MES)**

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<td>31 OptiPlant requires a graphic card which supports OpenGL 2.1. Resolution 1920 x 1080 is recommended.</td>
<td><strong>Manufacturing Execution Systems (MES)</strong></td>
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<tr>
<td>32 Type II is the minimum recommended when IP.21 is used with Enterprise InfoPlus.21 Historian.</td>
<td>Aspen Infrastructure (ADSA)</td>
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<tr>
<td>33 Aspen OptiRouter is dependent on Hexagon S3D platform which supports Windows Server 2012 R2.</td>
<td>Plant Operations 32-bit (ATOMS Client)</td>
</tr>
<tr>
<td>34 Required for web terminal, which is optional.</td>
<td>aspenONE Process Explorer Client (APE)</td>
</tr>
<tr>
<td>35 Acure support is available with V12 CP1.</td>
<td>InfoPlus.21 (IP.21) Server</td>
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<tr>
<td>36 APM Insights Quantification must be installed on the same server as Fidelis.</td>
<td>aspenONE Web Server (Apache Tomcat)</td>
</tr>
<tr>
<td>37 APP-V is only supported with Process Explorer.</td>
<td>#OpenONE Web Service (API)</td>
</tr>
<tr>
<td>38 When you have more than 8 simultaneous users, the recommendation is 2CPU’s and 6GB RAM per user. Performance will vary based on product and usage profiles. This can be considered a starting point for large multi-user machines.</td>
<td>#OpenONE Web Service (API)</td>
</tr>
</tbody>
</table>

4/7/2022