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|       | Office 2019 (64-bit)              |
|       | Office 2016 (64-bit)              |
|       | Office 2013 (32-bit)              |

|       | Microsoft SQL Server              |
|       | Microsoft SQL Server 2019        |
|       | Microsoft SQL Server 2017        |

|       | Office 365 (Desktop/Click-to-run) (32-bit/64-bit) |
|       | Office 2021 (64-bit)               |
|       | Office 2019 (64-bit)               |
|       | Office 2016 (64-bit)               |
|       | Office 2013 (32-bit)               |
|       | Microsoft SQL Server 2019         |
|       | Microsoft SQL Server 2017         |

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### Suite

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### Security Components/Services

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# Suite

**Manufacturing & Supply Chain Suite**

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## Supported Versions of Fortran

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## Container Support

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## Desktop Types - Minimum Recommended

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<th>Type</th>
<th>Desktop Types - Minimum Recommended</th>
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</table>
| Type I | Computer & processor: Intel Core-i5 family or faster  
|       | Memory (RAM in GB): 16               
|       | Hard Disk (GB): 120                 
|       | Monitor: Graphics hardware acceleration requires a DirectX10 graphics card and a 1440 x 900 or higher resolution monitor 
|       | Network (MB/s): 100Mbps             |

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<thead>
<tr>
<th>Type II</th>
<th>Desktop Types - Minimum Recommended</th>
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</table>
|         | Computer & processor: Intel Core-i5 family or faster  
|         | Memory (RAM in GB): 16               
|         | Hard Disk (GB): 250                 
|         | Monitor: Graphics hardware acceleration requires a DirectX10 graphics card and a 1440 x 900 or higher resolution monitor 
|         | Network (MB/s): 100Mbps             |

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<th>Type III</th>
<th>Desktop Types - Minimum Recommended</th>
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|          | Computer & processor: 4 CPU >= 2.8GHz (turbo max 3.2 preferred)  
|          | Memory (RAM in GB): 16              
|          | Hard Disk (GB): 500                 
|          | Monitor: Graphics hardware acceleration requires a DirectX10 graphics card and a 1440 x 900 or higher resolution monitor 
|          | Network (MB/s): 100Mbps             |

## Server Types - Minimum Recommended

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<th>Server Types - Minimum Recommended</th>
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</table>
| Type I | Computer & processor: Intel Core-i7 family or faster for standalone deployment  
|        | Memory (RAM in GB): 16 for standalone deployment, 32 for multi-reuse environment  
|        | Hard Disk (GB): 150 for standalone deployment, 300 for multi-reuse environment  
|        | Monitor: Graphics hardware acceleration requires a DirectX10 graphics card and a 1440 x 900 or higher resolution monitor 
|        | Network (MB/s): 100Mbps             |

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<th>Server Types - Minimum Recommended</th>
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</table>
| Type II | Computer & processor: Intel Xeon Gold type system (4 cores) or faster  
|        | Memory (RAM in GB): 16              
|        | Hard Disk (GB): 300                 
|        | Monitor: Graphics hardware acceleration requires a DirectX10 graphics card and a 1440 x 900 or higher resolution monitor 
|        | Network (MB/s): 100Mbps             |

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<th>Server Types - Minimum Recommended</th>
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</table>
| Type III | Computer & processor: Intel Xeon Gold server type system (8 cores) or faster  
|         | Memory (RAM in GB): 16 for standalone deployment, 32 for multi-reuse environment  
|         | Hard Disk (GB): 500 for standalone deployment, 1000 for multi-reuse environment  
|         | Monitor: Graphics hardware acceleration requires a DirectX10 graphics card and a 1440 x 900 or higher resolution monitor 
|         | Network (MB/s): 100Mbps             |
# V14.2 Platform Specifications that are supported

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<thead>
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<th>Manufacturing Execution Systems (MES)</th>
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<td>Type I</td>
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<td>Aspen Tank Operations Manager (ATOMS Server)</td>
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<td>Aspen Plant Operations Reconciliation and Accounting (APOD)</td>
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<td>Type XI</td>
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</tbody>
</table>

## Type I Operating Systems (OS) Server
- Processor: Intel Cascade Lake-based Xeon processor with 8 cores or more per processor
- Memory (RAM in GB): 32 or above gigabytes (GB) RAM
- Hard Drive (GB): 100 gigabytes (GB) or more available
- Network: 100Mpbs (Gigabyte network recommended)

## Type II Aspen Tank Operations Manager (ATOMS Server)
- Processor: Intel Cascade Lake-based Xeon processor with 8 cores or more per processor
- Memory (RAM in GB): 32 or above gigabytes (GB) RAM
- Hard Drive (GB): 100 gigabytes (GB) or more available
- Network: 100Mpbs (Gigabyte network recommended)

## Type III Aspen Plant Operations Reconciliation and Accounting (APOD)
- Processor: Intel Cascade Lake-based Xeon processor with 8 cores or more per processor
- Memory (RAM in GB): 32 or above gigabytes (GB) RAM
- Hard Drive (GB): 100 gigabytes (GB) or more available
- Network: 100Mpbs (Gigabyte network recommended)

## Type IV Aspen Production Execution Manager (APEM) Server
- Processor: Intel Cascade Lake-based Xeon processor with 8 cores or more per processor
- Memory (RAM in GB): 32 or above gigabytes (GB) RAM
- Hard Drive (GB): 100 gigabytes (GB) or more available
- Network: 100Mpbs (Gigabyte network recommended)

## Type V Aspen Tank Operations Manager (ATOMS Client)
- Processor: Intel Cascade Lake-based Xeon processor with 8 cores or more per processor
- Memory (RAM in GB): 32 or above gigabytes (GB) RAM
- Hard Drive (GB): 100 gigabytes (GB) or more available
- Network: 100Mpbs (Gigabyte network recommended)

## Type VI Aspen Plant Operations Reconciliation and Accounting (APOD)
- Processor: Intel Cascade Lake-based Xeon processor with 8 cores or more per processor
- Memory (RAM in GB): 32 or above gigabytes (GB) RAM
- Hard Drive (GB): 100 gigabytes (GB) or more available
- Network: 100Mpbs (Gigabyte network recommended)

## Type VII Aspen Production Execution Manager (APEM)
- Processor: Intel Cascade Lake-based Xeon processor with 8 cores or more per processor
- Memory (RAM in GB): 32 or above gigabytes (GB) RAM
- Hard Drive (GB): 100 gigabytes (GB) or more available
- Network: 100Mpbs (Gigabyte network recommended)

## Type VIII Aspen Tank Operations Manager (ATOMS Server)
- Processor: Intel Cascade Lake-based Xeon processor with 8 cores or more per processor
- Memory (RAM in GB): 32 or above gigabytes (GB) RAM
- Hard Drive (GB): 100 gigabytes (GB) or more available
- Network: 100Mpbs (Gigabyte network recommended)

## Type IX Single model environment:
- Processor: Intel Cascade Lake-based Xeon processor with 8 cores or more per processor
- Memory (RAM in GB): 32 or above gigabytes (GB) RAM
- Hard Drive (GB): 100 gigabytes (GB) or more available
- Network: 100Mpbs (Gigabyte network recommended)

## Type X Single model environment:
- Processor: Intel Cascade Lake-based Xeon processor with 8 cores or more per processor
- Memory (RAM in GB): 32 or above gigabytes (GB) RAM
- Hard Drive (GB): 100 gigabytes (GB) or more available
- Network: 100Mpbs (Gigabyte network recommended)

## Type XI Multiple models within single environment (max models<=10):
- Processor: Intel Cascade Lake-based Xeon processor with 8 cores or more per processor
- Memory (RAM in GB): 32 or above gigabytes (GB) RAM
- Hard Drive (GB): 100 gigabytes (GB) or more available
- Network: 100Mpbs (Gigabyte network recommended)
## Suite

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
<th>V14.2 Platform Specifications that are supported</th>
<th>Manufacturing Execution Systems (MES)</th>
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</thead>
</table>
| Type XII | Supports 25 concurrent users | Computer & processor: 8 vCPU >+ 3.2 GHz (add 1.5vCPU per concurrent user)  
Memory (RAM in GB): 16 or above gigabytes (GB) RAM (add 4GB RAM per concurrent user)  
Hard Disk (GB): 100 GB min. (add .5GB per concurrent user)  
Network: 100Mbps |  

| Type XIII | Supports 50 concurrent users | Computer & processor: 16 vCPU >+ 2.2 GHz  
Memory (RAM in GB): 64  
Hard Disk: 100  
Network: 10 Mbps |  

| Type X1V | Supports 100 concurrent users | Computer & processor: 16 vCPU >+ 2.2 GHz  
Memory (RAM in GB): 32  
Hard Disk (GB): 100  
Network: 5 Mbps |  

| Type XV | Supports 150 concurrent users | Computer & processor: 16  
Memory (RAM in GB): 32  
Hard Disk (GB): 100Mbps  
Network: 100 Mbps (Gigabyte network recommended) |  

| Type XVI | Supports 200 concurrent users | Computer & processor: 16  
Memory (RAM in GB): 64 or above gigabytes (GB) RAM  
Hard Disk (GB): 2000 gigabytes (GB) or more available  
Monitor: Graphics hardware acceleration requires a DirectX10 graphics card and a 1440 x 900 or higher resolution monitor  
Network: 100Mpbs (Gigabyte network recommended) |  

| Notes |  |  |  |

---
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 manufacturer, model, and operating system for which AspenTech offers a supported version of the software, and that are owned by the customer. "Sites" are customer facilities or locations specified in the applicable 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.

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 V14 product.

If running standalone, 1280 x 800 is the minimum recommended resolution 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 on the C drive.

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.

11 & 14 & 21 -22 & 24-25 & 29

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 V14 product.

If running standalone, 1280 x 800 is the minimum recommended resolution 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)

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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.

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Your Aspen SLM Server must be installed and running prior to installing any V14 product.

If running standalone, 1280 x 800 is the minimum recommended resolution 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 on the C drive.

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.

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Your Aspen SLM Server must be installed and running prior to installing any V14 product.

If running standalone, 1280 x 800 is the minimum recommended resolution 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 on the C drive.

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.

11 & 14 & 21 -22 & 24-25 & 29

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 V14 product.

If running standalone, 1280 x 800 is the minimum recommended resolution 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 on the C drive.

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.

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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 V14 product.

If running standalone, 1280 x 800 is the minimum recommended resolution 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 on the C drive.

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.

11 & 14 & 21 -22 & 24-25 & 29

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 V14 product.

If running standalone, 1280 x 800 is the minimum recommended resolution 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 on the C drive.

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.

11 & 14 & 21 -22 & 24-25 & 29

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 V14 product.

If running standalone, 1280 x 800 is the minimum recommended resolution 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 on the C drive.

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.

11 & 14 & 21 -22 & 24-25 & 29

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 V14 product.

If running standalone, 1280 x 800 is the minimum recommended resolution 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 on the C drive.

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.
## Suite of Manufacturing & Supply Chain Suite

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<th>Platform Specifications that are supported</th>
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<tr>
<td><strong>Manufacturing &amp; Supply Chain Suite</strong></td>
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</table>

2. Oracle or AdoptOpenJDK Java is needed if the 3rd party scheduling application Primavera is used with AspenONE Exchange (EE). Primavera is owned by Oracle and its API does not support AdoptOpenJDK Java.
3. Must be in compatibility mode for Aspen Process Sequencer.
5. For new installations of APEM Web Server, install 32-bit and 64-bit before installing APEM Web Server.
6. CML-2 interfaces can be installed on 32-bit desktops.
7. 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.
9. Users need to install both the 32-bit and 64-bit Oracle Clients 19.x for building and running reports.
10. Non-English DEXs are not supported.
11. SLM supported in-cloud (Oracle VMs/Amazon AMIs for IaaS products that are supported in the cloud).
12. If FIPS is enabled, sourceONE Exchange users must have the latest Windows Update patches installed on their machines.
13. Office 365 - 32-bit support only
14. Server-grade systems are not required but still supported.
15. Browser Support indicates Knowledge Delivery only.
16. AMD64 Web does not support Oracle.
17. Only the version of MS Edge that uses the Google Chrome engine is supported.
V14.2 Platform Specifications that are supported

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</table>

1. **WVD Certification Notes –**
   - Publishing WVD apps to users local machine start menu not supported
   - Interoperability with third-party products only supported with Office 365
   - Aspen Properties Enterprise Database (APED) via SQL Server not supported
   - The following products have not been certified for WVD: ABE, ABPD, AVCA

2. **APEM does not support CDB-PDB database in Oracle 19.**

3. **SCCM support for APEx only**

4. **APM Insights must be installed on the same server as APEM**

5. **When you have more than 6 simultaneous users, the recommendation is 2 (204) and 4GB RAM per user**

6. **Performance will vary based on product and usage profiles. This can be considered a starting point for the following applications.**

7. **OptiPlant requires a graphic card which supports OpenGL 4.1**

8. **Includes support for 3D Layout, SQL is needed for S3D Layout, SQL versions 2014 and 2016 are supported by Hexagon**

9. **Resolution no higher than 1920x1080**

10. **Refer to the AspenTech Lifecycle Knowledge Base article to see a reference to the supported Windows Server upgrade path:** https://esupport.aspentech.com/S_ProductLifecyclePolicy
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V14.2 Platform Specifications that are supported

- **Selected Product uses Java 11 JRE as Oracle do not have an option to download JRE, please use Oracle JDK download.**
- **SQL Server 2014 does not support AT TIME ZONE functionality. Due to this, Daylight Saving time will not be accounted for in the database views defined in Unified Scheduling Results database.**
- **Only Core service requires MongoDB.**

2/27/2023

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**Notes:**
- The selected product uses Java 11 JRE as Oracle do not have an option to download JRE, please use Oracle JDK download.
- SQL Server 2014 does not support AT TIME ZONE functionality. Due to this, Daylight Saving time will not be accounted for in the database views defined in Unified Scheduling Results database.
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