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Suite	Manufacturing & Supply Chain Suite										
V14 Platform Specifications that are supported	Manufacturing Execution Systems (MES)										
	Aspen Tank Operations Manager (ATOMS Server)	Tank Operations Manager (ATOMS Client)	Aspen Unified Reconciliation and Accounting Plant	Operations Reconciliation and Accounting (AORA)	Plant Operations Reconciliation and Accounting (AORA Client)	Aspen Production Execution Manager (APEM) Server	APEM Mobile	Weigh & Dispense Client	Batch Release Management	Aspen Reporting Framework	
<b>Operating Systems (64-bit only)</b>											
<b>Windows 11</b>		✓	✓		✓						
Windows 10 Enterprise & Professional (64-bit)		✓	✓		✓						
<b>Windows Server 2022</b> <sup>33, 45</sup>	✓	✓	✓	✓	✓	✓	✓	✓		✓	
Windows Server 2019 <sup>33, 45</sup>	✓	✓	✓	✓	✓	✓	✓	✓		✓	
Windows Server 2016 <sup>33, 45</sup>	✓	✓	✓	✓	✓	✓	✓	✓		✓	
Ubuntu Server Edition 20.04 LTS											
Ubuntu Server Edition 18.04 LTS											
Ubuntu Server Edition 16.04 LTS											
<b>Microsoft Office</b>											
Office 365 (Desktop/Click-to-run) (32-bit/64-bit)			✓		✓ <sup>21</sup>						
<b>Office 2021 (64-bit)</b>			✓								
<b>Office 2021 (32-bit)</b>			✓		✓						
Office 2019 (64-bit)			✓								
Office 2019 (32-bit)			✓		✓						
Office 2016 (64-bit)			✓								
Office 2016 (32-bit)			✓		✓						
Office 2013 (32-bit)					✓						
<b>Database Servers</b>											
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)			✓								
<b>SQL Server 2019 Local DB</b>			✓ <sup>12</sup>								
SQL Server 2014 -2019 Analysis Services										✓	
PostgreSQL 13.2											
Oracle Database 19.x.x 64-bit	✓			✓		✓ <sup>28</sup>					
MongoDB Database 5.0.x 64-bit											
<b>Database Clients</b>											
Oracle Client 19.x 32-bit	✓ <sup>24</sup>	✓ <sup>24</sup>		✓	✓						





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<b>Type II:</b> Computer & processor: Intel Core-i5 family or faster Memory (RAM in GB): <b>16</b> Hard Disk (GB): <b>250</b> Monitor: Graphics hardware acceleration requires a DirectX10 graphics card and a <b>1440 x 900</b> or higher resolution monitor Network (MB/s): <b>100Mbps</b>	✓	✓	✓	✓	✓					
<b>Type III:</b> Computer & processor: 4CPU >= 2.8GHz (turbo max 3.2 preferred) Memory (RAM in GB): <b>16</b> Hard Disk (GB): <b>100</b> Monitor: Graphics hardware acceleration requires a DirectX10 graphics card and a <b>1440 x 900</b> or higher resolution monitor Network (MB/s): <b>100Mbps</b>										
<b>Server Types - Minimum Recommended</b>										
<b>Type I:</b> Computer & processor: Intel Core-i7 family or faster for standalone deployment Intel Xeon Gold series, <b>4</b> cores or more for multi-user environment Memory (RAM in GB): <b>16 +</b> for standalone deployment, <b>32+</b> for multi-user environment Hard Disk (GB): <b>150</b> for standalone deployment, <b>300</b> for multi-user environment Monitor: Graphics hardware acceleration requires a DirectX10 graphics card and a <b>1440 x 900</b> or higher resolution monitor Network: <b>100 Mbps</b>			✓	✓	✓	✓		✓		✓
<b>Type II:</b> Computer & processor: Intel Xeon Gold series type system (4 cores) or faster Memory (RAM in GB): <b>16 +</b> Hard Disk (GB): <b>300 +</b> Monitor: Graphics hardware acceleration requires a DirectX10 graphics card and a <b>1440 x 900</b> or higher resolution monitor Network: <b>100 Mbps</b>	✓	✓							✓	
<b>Type III:</b> Computer & 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 Disk (GB): 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: <b>100Mbps</b> (Gigabyte network recommended)										
<b>Type IV: (IIoT Gateways)</b> Computer & processor: ARM or Intel based CPU or more Memory (RAM in GB): <b>256Mb</b> or more Hard Disk (GB): 100 GB or more										
<b>Type V</b> Windows Server 2019 v1809+ Memory (RAM in GB): Minimum: <b>16</b> Recommended: <b>32</b> Cores: Minimum: <b>4</b> , Recommended: <b>8</b> Disk space (GB): Minimum: 64, Recommended: <b>100</b> Network: Minimum: 50, Recommended: <b>100 Mbps</b>										
<b>Type VI</b> Computer & processor: Intel Xeon E class processor or equivalent with dual core min. Memory (RAM in GB): Minimum: <b>4</b> Hard Disk (GB): Minimum <b>50</b> . High IOPS drive, SSD preferred Network: <b>100 Mbps</b>										
<b>Type VII</b> Computer & processor: Intel Xeon E class processor or equivalent with dual core min. Memory (RAM in GB): <b>8 +</b> Hard Disk (GB): 100 GB min. High IOPS drive, SSD preferred Network: <b>100Mbps</b>										
<b>Type VIII</b> Computer & processor: Intel Xeon E class processor or equivalent with 8 cores or higher Memory (RAM in GB): 12 or above gigabytes (GB) RAM Hard Disk (GB): <b>2000</b> min. High IOPS drive, SSD preferred Network: <b>200Mbps</b>										
<b>Type IX</b> Single model environment: Computer & processor: 4 vCPU >+ 2.8 GHz Memory (RAM in GB): <b>8+</b> Hard Disk (GB): <b>100</b> Network: <b>100Mbps</b>										

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<b>Type X</b> Single model environment: Computer & processor: 8 vCPU > + 3.2 GHz Memory (RAM in GB): <b>16+</b> Hard Disk (GB): <b>100</b> Network: <b>100Mbps</b>										
<b>Type XI</b> Multiple models within single environment (max models <= 10): Computer & processor: 4 vCPU > + 2.8 GHz (add 1.5vCPU per concurrent user) Memory (RAM in GB): <b>8+</b> (add 3GB per concurrent user) Hard Disk (GB): <b>100</b> (add .5GB per concurrent user) Network: <b>100Mbps</b>										
<b>Type XII</b> Multiple models within single environment (max models <= 10): 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: <b>100Mbps</b>										
<b>Type XIII</b> Supports 20 concurrent users: Computer & processor: 16 vCPU > + 2.2 GHz Memory (RAM in GB): <b>64</b> Hard Disk: <b>100</b> Network: <b>10 Mbps</b>										
<b>Type XIV</b> Supports 100 concurrent users: Computer & processor: 16 vCPU > + 2.2 GHz Memory (RAM in GB): <b>32</b> Hard Disk (GB): <b>100</b> Network: <b>5 Mbps</b>										
<b>Type XV</b> Computer & processor: 16 vCPU > + 2.2 GHz Memory (RAM in GB): <b>32</b> Hard Disk (GB): <b>100Mbps</b>										
<b>Notes</b>										
<p>* 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.</p> <p>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.</p> <p>Cloud deployment does not change any license restrictions, including the restrictions on which regions can access the software.</p>	Manufacturing Execution Systems (MES) suite consists of the following products: Aspen Unified Reconciliation and Accounting (AURA), Plant Operations 32-bit (ATOMS Server), Plant Operations 32-bit (ATOMS Client), Plant Operations 32-bit (AORA Server), Plant Operations 32-bit (AORA Client), Aspen Production Execution Manager (APEM) Server, APEM Mobile, Weigh & Dispense Client, Aspen Reporting Framework									
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 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 on the C drive.										
<sup>1</sup> 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										
<sup>2</sup> EDR does not use any database servers. Deploys its own LocalDB database files.										



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31 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											
32 OptiPlant requires a graphic card which supports OpenGL 4.1											
33 Includes support for Windows Server Datacenter											
34 Browser support for AFO Connect											
35 Type II is the minimum recommended when IP.21 is used with Aspen Enterprise IP.21											
36 Small SLM Server											
37 Medium SLM Server											
38 Large SLM Server											
39 These applications can run on a desktop, but it is recommended to run models on a server											
40 This Application Should be installed on a dedicated Web Server.											
41 Require db needs to be created in MS SQL using Mtell and then migrated to the target platform											
42 "Desktop Experience" installation of Windows Server. Windows Server installers present the option to install with or without "Desktop Experience". For GDOT, "Desktop Experience" is required.											
43 SQL is needed for S3D Layout, SQL versions 2014 and 2016 are supported by Hexagon											
44 Resolution no higher than 1920x1080											
45 Refer to the AspenTech Lifecycle Knowledge Base article to see a reference to the supported Windows Server upgrade path: <a href="https://esupport.aspentech.com/S_ProductLifecyclePolicy">https://esupport.aspentech.com/S_ProductLifecyclePolicy</a>											
46 The selected product uses Java 11 JRE as Oracle do not have an option to download JRE, please use Oracle JDK download											
47 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.											
48 Only Excel Document template does require Excel											
49 Only Core service requires MongoDB											