

[Link to to the AspenTech Summary of Strategy & Plans](#)

| Suite   |   |  |  |                                  |                           |                          |                                      |   |  |                         |                                       |
|---|---|--|--|----------------------------------|---------------------------|--------------------------|--------------------------------------|---|--|-------------------------|---------------------------------------|
| Manufacturing & Supply Chain Suite                        |   |  |  |                                  |                           |                          |                                      |   |  |                         |                                       |
| V11.1 Platform Specifications that are supported          | Manufacturing Execution Systems (MES)                     |  |  |                                  |                           |                          |                                      |   |  |                         |                                       |
|   | Manufacturing Execution Systems (MES) Desktop Apps 32-bit | Manufacturing Execution Systems (MES) Admin Tools 32-bit | aspenONE Process Explorer Server 64bit | aspenONE Process Explorer Client | InfoPlus.21 (P.21) Server | Interfaces <sup>11</sup> | Plant Operations 32-bit (ATOMS/AORA) | Aspen Production Record Manager (APRM) Server | Aspen Production Execution Manager (APEM) Server | Weigh & Dispense 32-bit | Aspen Role Based Visualization 64-bit |
| <b>Operating Systems (64-bit only)</b>                    |   |  |  |                                  |                           |                          |                                      |   |  |                         |                                       |
| 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 <sup>22</sup>                         |   |  | ✓                                      |                                  | ✓                         |                          |                                      |   |  |                         |                                       |
| Windows Server 2016                                       | ✓   | ✓  | ✓                                      | ✓                                | ✓                         | ✓                        | ✓                                    | ✓   | ✓  | ✓                       | ✓                                     |
| Windows Server 2012 R2                                    | ✓   | ✓  | ✓                                      | ✓                                | ✓                         | ✓                        | ✓                                    | ✓   | ✓  | ✓                       | ✓                                     |
| 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                        |   |  |  |                                  |                           |                          |                                      |   |  |                         |                                       |
| <b>Microsoft Office</b>                                   |   |  |  |                                  |                           |                          |                                      |   |  |                         |                                       |
| Office 365 (Desktop/Click-to-run)                         | ✓   | ✓  |  |                                  |                           |                          | ✓ <sup>21</sup>                      |   |  | ✓                       |                                       |
| <b>Office 2019 (64-bit)</b>                               | ✓   | ✓  |  |                                  |                           |                          |                                      |   |  | ✓                       |                                       |
| <b>Office 2019 (32-bit)</b>                               | ✓   | ✓  |  |                                  |                           |                          | ✓                                    |   |  | ✓                       |                                       |
| Office 2016 (64-bit)                                      | ✓   | ✓  |  |                                  |                           |                          |                                      |   |  | ✓                       |                                       |
| Office 2016 (32-bit)                                      | ✓   | ✓  |  |                                  |                           |                          | ✓                                    |   |  | ✓                       |                                       |
| Office 2013 SP1 (32-bit)                                  | ✓   | ✓  |  |                                  |                           |                          | ✓                                    |   |  | ✓                       |                                       |
| Office 2010 SP2 (32-bit)                                  | ✓   | ✓  |  |                                  |                           |                          | ✓                                    |   |  | ✓                       |                                       |
| <b>Database Servers</b>                                   |   |  |  |                                  |                           |                          |                                      |   |  |                         |                                       |
| Microsoft SQL Server 2017 (Enterprise/Standard Edition)   |   |  |  |                                  | ✓                         | ✓                        | ✓                                    | ✓   | ✓  | ✓                       |                                       |



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| .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      | ✓   | ✓  |  | ✓                                |                            |                          |                                      |   |  |                         |                                       |
| <b>Virtualization</b>                            |   |  |  |                                  |                            |                          |                                      |   |  |                         |                                       |
| Microsoft App-V 5.1                              | ✓ <sup>29</sup>   |  |  |                                  |                            |                          |                                      |   |  |                         |                                       |
| Microsoft Hyper-V (Server)                       | ✓   | ✓  | ✓                                      |                                  | ✓                          | ✓                        | ✓                                    | ✓   | ✓  | ✓                       | ✓                                     |
| VMware vSphere 6.x (Server)                      | ✓   | ✓  | ✓                                      |                                  | ✓                          | ✓                        | ✓                                    | ✓   | ✓  | ✓                       | ✓                                     |
| Microsoft Terminal Services (Desktop)            | ✓   | ✓  |  |                                  | ✓                          | ✓                        |                                      | ✓   | ✓  | ✓                       |                                       |
| Citrix XenApp 7.14 (Desktop)                     | ✓   | ✓  | ✓                                      | ✓                                | ✓                          | ✓                        |                                      | ✓   | ✓  | ✓                       |                                       |
| <b>Web Browsers</b>                              |   |  |  |                                  |                            |                          |                                      |   |  |                         |                                       |
| Internet Explorer 11                             |   |  |  | ✓                                |                            |                          | ✓                                    | ✓   | ✓  | ✓                       | ✓                                     |
| Microsoft Edge                                   |   |  |  |                                  |                            |                          |                                      |   |  |                         |                                       |
| Google Chrome Evergreen Version 75+              |   |  |  | ✓                                |                            |                          |                                      |   | ✓  | ✓                       |                                       |
| Safari on iOS 11+ for iPad Support               |   |  |  |                                  |                            |                          |                                      |   |  |                         |                                       |
| <b>Security Components/Services</b>              |   |  |  |                                  |                            |                          |                                      |   |  |                         |                                       |

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| Aspen Framework (AFW) 5   | ✓   | ✓  | ✓                                      |                                  | ✓                          | ✓                        | ✓                                    | ✓   | ✓  | ✓                       |                                       |
| Non-Domain Security Group   |   |  | ✓                                      |                                  |                            |                          |                                      |   |  |                         | ✓                                     |
| Microsoft Active Directory / Active Directory Domain Services       |   |  | ✓                                      |                                  |                            |                          |                                      |   |  |                         | ✓                                     |
| <b>Java App (Servers)</b>   |   |  |  |                                  |                            |                          |                                      |   |  |                         |                                       |
| Apache Tomcat 8.5+  |   |  | ✓                                      |                                  |                            |                          |                                      |   | ✓  | ✓                       |                                       |
| <b>Web Servers</b>  |   |  |  |                                  |                            |                          |                                      |   |  |                         |                                       |
| IIS 10  |   |  | ✓                                      |                                  |                            |                          | ✓                                    |   | ✓  | ✓                       | ✓                                     |
| IIS 8.5   |   |  | ✓                                      |                                  |                            |                          | ✓                                    |   | ✓  | ✓                       | ✓                                     |
| IIS 7.5   |   |  | ✓                                      |                                  |                            |                          | ✓                                    |   | ✓  | ✓                       | ✓                                     |
| <b>Reporting Services</b>   |   |  |  |                                  |                            |                          |                                      |   |  |                         |                                       |
| Microsoft Report Viewer 2010 SP1                                    |   |  |  |                                  |                            |                          |                                      |   |  |                         |                                       |
| Microsoft SQL Server 2008 R2/2012/2014/2016/2017 Reporting Services |   |  |  |                                  |                            |                          |                                      |   |  |                         |                                       |
| Crystal Reports 8.5   |   |  |  |                                  |                            |                          | ✓                                    |   |  |                         |                                       |
| Crystal Reports 11  |   |  |  |                                  |                            |                          |                                      |   |  |                         |                                       |
| <b>Malware Blocking Features</b>                                    |   |  |  |                                  |                            |                          |                                      |   |  |                         |                                       |
| DEP-Data Execution Prevention                                       | ✓   | ✓  | ✓                                      | ✓                                | ✓                          | ✓                        | ✓                                    | ✓   | ✓  | ✓                       | ✓                                     |
| <b>Integration Components</b>                                       |   |  |  |                                  |                            |                          |                                      |   |  |                         |                                       |
| Aspen Supply Chain Connect  |   |  |  |                                  |                            |                          |                                      |   |  |                         |                                       |
| Informatica Powercenter 10.2 HF1                                    |   |  |  |                                  |                            |                          |                                      |   |  |                         |                                       |
| <b>Cloud Support *</b>  |   |  |  |                                  |                            |                          |                                      |   |  |                         |                                       |
| Azure VM - Microsoft  |   |  | ✓                                      |                                  | ✓                          |                          |                                      |   |  |                         |                                       |
| Amazon VM (AWS)   |   |  |  |                                  |                            |                          |                                      |   |  |                         |                                       |
| Azure VM - Linux  |   |  |  |                                  |                            |                          |                                      |   |  |                         |                                       |
| Windows Virtual Desktop (WVD Fall 2019 Release) <sup>27</sup>       |   |  |  |                                  |                            |                          |                                      |   |  |                         |                                       |

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| 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   |   |  |  |                                  |                            |                          |                                      |   |  |                         |                                       |
| <b>Type I:</b><br>Computer & processor: Intel Core-i5 family or faster<br>Memory (RAM): <b>16</b> gigabytes (GB) RAM<br>Hard Disk: <b>120</b> gigabytes (GB) available<br>Monitor: Graphics hardware acceleration requires a DirectX10 graphics card and a 1280 x 1024 or higher resolution monitor<br>Network: 100MB/Sec   | ✓   | ✓  |  | ✓                                |                            |                          | ✓                                    |   |  | ✓                       |                                       |
| <b>Type II:</b><br>Computer & processor: Intel Core-i5 family or faster<br>Memory (RAM): <b>16</b> gigabytes (GB) RAM<br>Hard Disk: <b>250</b> gigabytes (GB) available<br>Monitor: Graphics hardware acceleration requires a DirectX10 graphics card and a 1280 x 1024 or higher resolution monitor<br>Network: 100MB/Sec  |   |  |  |                                  |                            |                          |                                      |   |  |                         |                                       |
| Server Types - Minimum Recommended  |   |  |  |                                  |                            |                          |                                      |   |  |                         |                                       |
| <b>Type I:</b><br>Computer & processor: Intel Core-i7 family or faster for standalone deployment<br>Intel Xeon Gold series, <b>4</b> cores or more for multi-user environment<br>Memory (RAM): <b>16</b> or above gigabytes (GB) RAM for standalone deployment, 16 or above gigabytes (GB) RAM for multi-user environment<br>Hard Disk: <b>150</b> gigabytes (GB) available for standalone deployment, 300 gigabytes (GB) for multi-user environment<br>Monitor: Graphics hardware acceleration requires a DirectX10 graphics card and a 1280 x 1024 or higher resolution monitor<br>Network: 100MB/Sec |   |  |  |                                  |                            |                          | ✓                                    | ✓   | ✓  | ✓                       |                                       |

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| <b>Type II.</b><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 1280 x 1024 or higher resolution monitor<br>Network: 100MB/Sec (Gigabyte network recommended)  |   |  |  |                                  |                            |                          |                                      |   |  |                         |                                       |
| <b>Type III.</b><br>Computer & processor: 4 x Intel (8 cores) or faster<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 1280 x 1024 or higher resolution monitor<br>Network: 100MB/Sec (Gigabyte network recommended)  |   |  | ✓                                      |                                  | ✓                          |                          |                                      |   |  |                         | ✓                                     |
| <b>Type IV: (IIoT Gateways)</b><br>Computer & processor: ARM or Intel based CPU or more<br>Memory (RAM): 256Mb or more<br>Hard Disk: 128Mb or more  |   |  |  |                                  |                            |                          |                                      |   |  |                         |                                       |
| 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  |   |  |  |                                  |                            |                          |                                      |   |  |                         |                                       |
| <b>Notes</b><br><br>* 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.<br><br>When running software on a virtual machine, the machine should meet the same requirements. | Manufacturing Execution Systems (MES) suite consists of the following products: InfoPlus.21 (IP.21), Process Explorer, aspenONE Process Explorer, Aspen Production Record Manager (APRM), Aspen Production Execution Manager (APEM), Role-Based Visualization (RBV), Aspen Operations Reconciliation and Accounting (AORA), and Aspen Tank and Operations Manager (ATOM). |  |  |                                  |                            |                          |                                      |   |  |                         |                                       |

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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 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)  |   |  |  |                                  |                            |                          |                                      |   |  |                         |                                       |
| <sup>1</sup> This configuration is only practical for small scale models and deployments. For most applications, best  |   |  |  |                                  |                            |                          |                                      |   |  |                         |                                       |
| <sup>2</sup> EDR does not use any database servers. Deploys its own LocalDB database files.  |   |  |  |                                  |                            |                          |                                      |   |  |                         |                                       |
| <sup>3</sup> 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 <u>Word and Excel are fully supported by ABPD</u> . |   |  |  |                                  |                            |                          |                                      |   |  |                         |                                       |
| <sup>4</sup> When Aspen Utility model is driven by Aspen Online using Local System Account, then SQL Express 2014 is required.   |   |  |  |                                  |                            |                          |                                      |   |  |                         |                                       |
| <sup>5</sup> When Exchanger Design and Rating is driven by Aspen Online using Local System Account, then SQL Express 2014 is required  |   |  |  |                                  |                            |                          |                                      |   |  |                         |                                       |
| <sup>6</sup> Aspen Modeler family supports FORTRAN compiler version 2017 or 2019   |   |  |  |                                  |                            |                          |                                      |   |  |                         |                                       |
| <sup>7</sup> Oracle Java is needed if the 3rd party scheduling application Primavera is used with Economic Evaluation (EE). <u>Primavera is owned by Oracle and its API uses Java.</u>   |   |  |  |                                  |                            |                          |                                      |   |  |                         |                                       |
| <sup>8</sup> Must be in compatibility mode for Aspen Process Sequencer   |   |  |  |                                  |                            |                          |                                      |   |  |                         |                                       |
| <sup>9</sup> See "Basic Deployment Recommendations" in Appendix C of the Aspen Manufacturing Suite Advanced Process Control Installation Guide.  |   |  |  |                                  |                            |                          |                                      |   |  |                         |                                       |
| <sup>10</sup> For new installations of APC Web Server, install IIS and JRE before installing APC Web Server  |   |  |  |                                  |                            |                          |                                      |   |  |                         |                                       |
| <sup>11</sup> CIM-IO Interfaces can be installed on 32-bit desktops  |   |  |  |                                  |                            |                          |                                      |   |  |                         |                                       |
| <sup>12</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   |   |  |  |                                  |                            |                          |                                      |   |  |                         |                                       |

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| <b>13</b> Refer to KB 47648 For more information on configuring SCM products using Azure:  |   |  |  |                                  |                            |                          |                                      |   |  |                         |                                       |
| <b>14</b> Oracle Database 12.1.0.2 is supported for Collaborative Forecasting, not 12.2.x.   |   |  |  |                                  |                            |                          |                                      |   |  |                         |                                       |
| <b>15</b> ASCC web applications and the Informatica client will work only with MS Office 32-bit. Informatica Server uses 64-bit Office only.   |   |  |  |                                  |                            |                          |                                      |   |  |                         |                                       |
| <b>16</b> Non-English OS's are not supported   |   |  |  |                                  |                            |                          |                                      |   |  |                         |                                       |
| <b>17</b> If using IBM Maximo Adapter  |   |  |  |                                  |                            |                          |                                      |   |  |                         |                                       |
| <b>18</b> <sup>1</sup> If using aspenONE Exchange on Windows Server 2012 R2, you must select the Desktop Experience option during Windows installation to enable Flash training videos.  |   |  |  |                                  |                            |                          |                                      |   |  |                         |                                       |
| <b>19</b> SLM supported in cloud (Azure VM/Amazon VM) for ENG products that are supported in the cloud   |   |  |  |                                  |                            |                          |                                      |   |  |                         |                                       |
| <b>20</b> If FIPS is enabled, aspenONE Exchange users must have the latest Windows Update patches installed on their machine.  |   |  |  |                                  |                            |                          |                                      |   |  |                         |                                       |
| <b>21</b> Office 365 - 32-bit support only   |   |  |  |                                  |                            |                          |                                      |   |  |                         |                                       |
| <b>22</b> Requires the latest patches of the corresponding AspenTech software  |   |  |  |                                  |                            |                          |                                      |   |  |                         |                                       |
| <b>27</b> WVD Certification Notes –<br>1. Publishing WVD apps to users local machine start menu not supported<br>2. Interoperability with 3rd party products only supported with Office 365<br>3. Aspen Properties Enterprise Database (APED) via SQL Server not supported<br><del>4. The following products have not been certified for WVD: ABE, ABPD, AQL, AVCA</del> |   |  |  |                                  |                            |                          |                                      |   |  |                         |                                       |
| <b>28</b> APEM does not support CDB-PDB database in Oracle 12.2.<br>Weigh & Dispense Client 32-bit does not support Oracle   |   |  |  |                                  |                            |                          |                                      |   |  |                         |                                       |
| <b>29</b> APP-V is only supported with Process Explorer  |   |  |  |                                  |                            |                          |                                      |   |  |                         |                                       |
| <b>30</b> 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.   |   |  |  |                                  |                            |                          |                                      |   |  |                         |                                       |