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Suite	Manufacturing & Supply Chain Suite																				
V15 Platform Specifications that are supported	Manufacturing Execution Systems (MES)																				
	Aspen Cloud Connect	Manufacturing Execution Systems (MES) Desktop Apps	Manufacturing Execution Systems (MES) Admin Tools	aspenONE Web Server	aspenONE Process Explorer Client (A1PE)	InfoPlus.21 (IP.21) Server	Cim-IO Interfaces 11	Aspen Infrastructure(ADSA)	aspenONE Integration Foundation: EIF	aspenONE Integration Foundation:mMDM	Aspen Production Record Manager (APRM) Server	Aspen Tank Operations Manager (ATOMS Server)	Tank Operations Manager (ATOMS Client)	Aspen Unified Reconciliation and Accounting (AURA)	Aspen Unified Movements (AUM)	Plant Operations Reconciliation and Accounting (AORA Server)	Plant Operations Reconciliation and Accounting (AORA Client)	Aspen Production Execution Manager (APEM) Server	APEM Mobile	APEM Weigh & Dispense	Batch Release Management
Operating Systems (64-bit only)																					
Windows 11 Enterprise & Professional (64-bit)	✓	✓	✓		✓		✓	✓	✓	✓			✓	✓	✓		✓				
Windows 10 Enterprise & Professional (64-bit)	✓	✓	✓		✓		✓	✓	✓	✓			✓	✓	✓		✓				
Windows Server 2025	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Windows Server 2022 [33, 45]	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Windows Server 2019 [33, 45]	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Ubuntu Server Edition 20.04 LTS																					
Ubuntu Server Edition 18.04 LTS																					
Ubuntu Server Edition 16.04 LTS																					
RedHat Enterprise Linux 9.4																					
RedHat Enterprise Linux 8.8																					
Microsoft Office																					
Office 365 (Desktop/Click-to-run) (32-bit/64-bit)		✓	✓		✓[14]					✓[21]				✓[54]	✓[55]		✓[21]				
Office 2024 (64-bit)		✓	✓		✓[14]									✓	✓						
Office 2024 (32-bit)		✓	✓		✓[14]					✓							✓				
Office 2021 (64-bit)		✓	✓		✓[14]									✓	✓						
Office 2021 (32-bit)		✓	✓		✓[14]					✓							✓				
Office 2019 (64-bit)		✓	✓		✓[14]									✓	✓						
Office 2019 (32-bit)		✓	✓		✓[14]					✓							✓				
Office 2016 (64-bit)		✓	✓		✓[14]									✓	✓						
Office 2016 (32-bit)		✓	✓		✓[14]					✓							✓				
Database Servers																					
Microsoft SQL Server 2022 (Enterprise/Standard Edition)	✓					✓				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Microsoft SQL Server 2022 (Express Edition)	✓													✓	✓						
Microsoft SQL Server 2019 (Enterprise/Standard Edition)	✓					✓				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

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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)														✓	✓						
SQL Server 2019 Local DB														✓[12]	✓[12]						
SQL Server 2014 -2019 Analysis Services																					
PostgreSQL 16.8																					
PostgreSQL 13.2	✓																				
Oracle Database 19.x.x 64-bit						✓				✓	✓	✓				✓					
MongoDB Database 5.0.x 64-bit																					
MongoDB Database 6.0.x 64-bit																					
MongoDB Database 7.0.x 64-bit																					
Database Clients																					
Oracle Client 19.x 32-bit		✓	✓			✓				✓	✓	✓[24]	✓[24]			✓	✓				
Oracle Client 19.x 64-bit		✓	✓			✓				✓	✓										
Runtimes																					
.NET Framework 4.8		✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
.NET 8.0.15																					
.NET 8.0.10										✓				✓	✓						
Aspen AIoT Cloud libraries																					
ASP.NET Core 8.0.10										✓											
32-bit Oracle Java 21 JDK LTS																					
64-bit Oracle Java 21 JDK LTS				✓																	
32-bit Oracle Java 17 JDK LTS																					
64-bit Oracle Java 17 JDK LTS																					
64-bit Oracle Java 11 JDK LTS																					
32-bit Oracle Java 8 JDK LTS																					
64-bit Oracle Java 8 JDK LTS																					

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32-bit Eclipse Temurin OpenJDK Java 21 JRE LTS																					
64-bit Eclipse Temurin OpenJDK Java 21 JRE LTS				✓														✓	✓	✓	
32-bit Eclipse Temurin OpenJDK Java 17 JRE LTS																					
64-bit Eclipse Temurin OpenJDK Java 17 JRE LTS																					
32-bit Eclipse Temurin OpenJDK Java 11 JRE LTS																					
64-bit Eclipse Temurin OpenJDK Java 11 JRE LTS																					
64-bit Eclipse Temurin OpenJDK Java 8 JRE LTS																					
Python 3.12																					
Python 3.11																					
Python 3.10																					
Python 3.9																					
Visual Studio 2022																					
Visual Studio 2019		✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	
Visual Studio 2017																					
Visual Studio 2015																					
Visual Studio 2010 Tools for Office Runtime		✓	✓																		✓
Microsoft Visual C++ Redistributable 2022																					
Microsoft Visual C++ Redistributable 2019		✓	✓	✓		✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Microsoft Visual C++ Redistributable 2017												✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Microsoft Visual C++ Redistributable 2015																					
Microsoft Visual C++ Redistributable 2013		✓																			
Microsoft MPI 8.1																					
IBM Platform MPI 9.0.1																					
Virtualization																					
Microsoft Hyper-V (Server)		✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
VMware ESXi Hypervisor Server 8.x (Server)		✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
VMWare vSphere Enterprise Plus																					
Microsoft Terminal Services (Desktop)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	

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Citrix Virtual Apps and Desktops 7.1912 (Desktop)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓							✓	✓	✓	
Web Browsers																					
Microsoft Edge [25]	✓				✓							✓	✓	✓	✓	✓	✓		✓	✓	✓
Google Chrome Evergreen Version 75+	✓				✓							✓	✓	✓	✓	✓	✓		✓	✓	✓
Firefox																					✓
Chrome on iOS 14+ for iPad Support					✓																✓
Safari on iOS 14+ for iPad Support																					✓
Android 10+																			✓		
Security Components/Services																					
AZURE AD																					
Aspen Framework (AFW) 5		✓	✓	✓	✓	✓				✓	✓	✓	✓			✓	✓	✓	✓	✓	
TLS 1.2	✓			✓		✓					✓	✓	✓	✓	✓			✓	✓	✓	✓
TLS 1.3				✓		✓					✓	✓	✓	✓	✓			✓	✓	✓	
Java App (Servers)																					
Apache Tomcat 11.x				✓														✓	✓	✓	
Apache Tomcat 10.x																					
Native Web Servers																					
IIS 10				✓						✓		✓	✓			✓	✓	✓	✓	✓	
Reporting Services																					
Microsoft Report Viewer 2015																					
Microsoft SQL Server 2014/2016/2017/2019/2020/2022 Reporting Services																					
Integration Components																					
Aspen Supply Chain Connect																					
Informatica Powercenter 10.5.4																					
Cloud Support *																					
Azure VM (Microsoft)	✓		✓	✓		✓								✓	✓						✓
AWS VM (Amazon)	✓													✓	✓						✓
Azure VM - Linux	✓																				
Azure SQL Managed Instance (SQL MI) 2022																					
Azure Virtual Desktop (AVD) [27]																					

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AWS RDS (SQL)																					✓
Azure SQL																					✓
Deployment Tools																					
SCCM		✓																			
Supported Versions of Fortran																					
Intel Visual FORTRAN 2024.2 FX																					
FORTRAN 2021																✓	✓				
Container Support																					
Docker Engine-Enterprise 23.x																					
Docker Compose 2.10.x																					
Desktop Types - Minimum Required																					
Type I: Computer & processor: Intel Core-i5 family or faster Memory (RAM in GB): **16** Hard Disk (GB): **120** Free Space - SSD recommended Monitor: Graphics hardware acceleration requires a DirectX10 graphics card and a **1440 x 900** or higher resolution monitor Network (MB/s): **100Mbps**	✓	✓	✓		✓		✓	✓	✓	✓											
Type II: 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**												✓	✓	✓	✓	✓	✓				
Type III: Computer & processor: 4CPU >= 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**																		✓	✓	✓	
Type IV: 2 x Intel Xeon 3.9GHz 8-core Memory (RAM in GB): **64GB** Hard Disk (GB): 356 GB SSD Graphics Card: NVIDIA RTX A4000 GPU Monitor: **2 x 27" UHD monitors** Network (MB/s): **100Mbps**																					
Server Types - Minimum Recommended																					
Type I: Computer & processor: Intel Core-i7 family or faster for standalone deployment Intel Xeon Gold series, **4** cores or more for multi-user environment Memory (RAM in GB): **16** + for standalone deployment, **32**+ for multi-user environment Hard Disk (GB): **150** for standalone deployment, **300** for multi-user environment Monitor: Graphics hardware acceleration requires a DirectX10 graphics card and a **1440 x 900** or higher resolution monitor Network: **100 Mbps**	✓						✓				✓			✓	✓	✓	✓			✓	

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Type II: Computer & processor: Intel Xeon Gold series 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: **100 Mbps**						✓[35]						✓	✓						✓		✓
Type III: 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: **100Mpbs** (Gigabyte network recommended)				✓		✓												✓			
Type IV: (IIoT Gateways) Computer & processor: ARM or Intel based CPU or more Memory (RAM in GB): **256Mb** or more Hard Disk (GB): 100 GB 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: Minimum: 50, Recommended: **100 Mbps**																					
Type VI Computer & processor: Intel Xeon E class processor or equivalent with dual core min. Memory (RAM in GB): Minimum**: 4** Hard Disk (GB): Minimum **50.** High IOPS drive, SSD preferred Network: **100 Mbps**																					
Type VII Computer & processor: Intel Xeon E class processor or equivalent with dual core min. Memory (RAM in GB): **8 +** Hard Disk (GB): 100 GB min. High IOPS drive, SSD preferred Network: **100Mpbs**																					
Type VIII 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):: **2000** min. High IOPS drive, SSD preferred Network: **200**Mbps																		✓	✓	✓	
Type IX Single model environment: Computer & processor: 4 vCPU >+ 2.8 GHz Memory (RAM in GB): **8+** Hard Disk (GB): **100** Network: **100Mbps**																					
Type X Single model environment: Computer & processor: 8 vCPU >+ 3.2 GHz Memory (RAM in GB): **16+** Hard Disk (GB): **100** Network: **100Mbps**																					

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Type XI 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): **8+** (add 3GB per concurrent user) Hard Disk (GB): **100** (add .5GB per concurrent user) Network: **100Mbps**																					
Type XII 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: **100Mbps**																					
Type XIII Supports 20 concurrent users: Computer & processor: 16 vCPU >+ 2.2 GHz Memory (RAM in GB): **64** Hard Disk: C Drive: **100,** Drive D / E: **50 GB** Network: **100 Mbps**																					
Type XIV Supports 100 concurrent users: Computer & processor: 16 vCPU >+ 2.2 GHz Memory (RAM in GB): **32** Hard Disk (GB): **100** Network: 100 **Mbps**																					
Type XV Computer & processor: 16 vCPU >+ 2.2 GHz Memory (RAM in GB): **32** Hard Disk (GB): **100Mbps**																					
Type XVI Computer & processor: 16 CPU 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)																					
Type XVII Computer & processor: 32 CPU Memory (RAM in GB): 256 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

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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: (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.	Manufacturing Execution Systems (MES) suite consists of the following products: Aspen InfoPlus.21 (IP21), Aspen Production Record Manager (APRM), 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.																					
[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 performance.

[13] Refer to KB 50134 For more information on configuring SCM products using Azure and AWS: https://esupport.aspentech.com/S_Article?id=000050134

[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

[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

[24] ATOMS Web does not support Oracle

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

Suite	Manufacturing & Supply Chain Suite																				
	Manufacturing Execution Systems (MES)																				
V15 Platform Specifications that are supported	Aspen Cloud Connect	Manufacturing Execution Systems (MES) Desktop Apps	Manufacturing Execution Systems (MES) Admin Tools	aspenONE Web Server	aspenONE Process Explorer Client (A1PE)	InfoPlus.21 (IP.21) Server	Cim-IO Interfaces [11]	Aspen Infrastructure(ADSA)	aspenONE Integration Foundation: EIF	aspenONE Integration Foundation:mMDM	Aspen Production Record Manager (APRM) Server	Aspen Tank Operations Manager (ATOMS Server)	Tank Operations Manager (ATOMS Client)	Aspen Unified Reconciliation and Accounting (AURA)	Aspen Unified Movements (AUM)	Plant Operations Reconciliation and Accounting (AORA Server)	Plant Operations Reconciliation and Accounting (AORA Client)	Aspen Production Execution Manager (APEM) Server	APEM Mobile	APEM Weigh & Dispense	Batch Release Management

[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, AVCA

[28] APEM does not support CDB-PDB database in Oracle 19.
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.

[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 considered a starting point for large multi-user machines.

[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 Historian

[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 and have users connect via Citrix or Terminal Services.

[40] This Application Should be installed on a dedicated Web Server.

41 The recommended Azure SQL infrastructure option is Azure Managed Instance. For assistance with database creation scripts, please contact AspenTech Support. The Aspen Properties component, required in Mtell, is not supported in Azure SQL. SQL Express can be used for these databases as an alternative

[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

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45 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

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

50 Applicable only for OpenviewNET client applications that connect to the Operational Insights server.

51 Applicable only for Aspen Mtell Client applications like Aspen Mtell Agent Builder and Aspen Mtell System Manager. Aspen Mtell Server is recommended to be hosted on a Server class operating system**.**

52 Applicable only for users who write custom Loglan code when using V14.5 and above versions.

53. Only SQL security is supported for AWS RDS (SQL) databases. AspenProperties databases must be installed locally. Contact support for assistance with Mtell AWS RDS setup

54. Office 365 - 64-bit support only

55. Office 365 - 64-bit support only

5/12/2025