Suite	Manufacturing & Supply Chain Suite			
	Dynamic Optimization (GDOT)			
V12 Platform Specifications that are supported	aspenONE Unified GDOT Builder 64-bit	Aspen GDOT Online 32-bit	Aspen GDOT Offline 32-bit	
Operating Systems (64-bit only)		1		
Windows 10 Anniversary Enterprise & Professional (64-bit)	✓		√	
Windows 8.1 Update 1 Enterprise & Professional (64-bit)	✓			
Windows Server 2019	✓	✓	✓	
Windows Server 2016	✓	✓	✓	
Windows Server 2012 R2	✓			
Ubuntu Server Edition 20.04 LTS				
Ubuntu Server Edition 18.04 LTS				
Ubuntu Server Edition 16.04 LTS				
Microsoft Office				
Office 365 (Desktop/Click-to-run) (32-bit/64-bit)	✓			
Office 2019 (64-bit)	✓			
Office 2019 (32-bit)	✓	✓	✓	
Office 2016 (64-bit)	✓			
Office 2016 (32-bit)	✓	✓	✓	
Office 2013 (32-bit)	✓	✓	✓	
Database Servers				
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)	✓	✓	✓	
Wilclosoft 3QE 3erver 2014 (Express Edition)				

Suite	Manufacturing & Supply Chain Suite				
		Dynamic Optimization (GDOT)			
V12 Platform Specifications that are supported	aspenONE Unified GDOT Builder 64-bit	Aspen GDOT Online 32-bit	Aspen GDOT Offline 32-bit		
Microsoft SQL Server 2012 (Express Edition)	✓	✓	✓		
SQL Server 2014 Local DB	√ ¹²				
SQL Server 2012 -2019 Analysis Services					
Oracle Database 19.x.x 64-bit					
Oracle Database 18.xx 64-bit					
Oracle Database 12.2 64-bit					
Database Clients					
Oracle Client 19.x 32-bit					
Oracle Client 19.x 64-bit					
Oracle Client 18.x 32-bit					
Oracle Client 12.2 64-bit	_				
Oracle Client 12.2 32-bit					
Runtimes					
.NET Framework 4.8	✓	✓	✓		
.NET Core 3.1.x		✓	✓		
ASP.NET Core 3.1.x					
64-bit Oracle Java 11 JRE LTS					
64-bit Oracle Java 11 JDK LTS					
64-bit Oracle Java 8 JRE LTS					
64-bit Oracle Java 8 JDK LTS					
32-bit AdoptOpenJDK Java 11 LTS					
64-bit AdoptOpenJDK Java 11 LTS					
64-bit AdoptOpenJDK Java 8 LTS					
MSXML 6	✓				
Visual Studio 2019					
Visual Studio 2017		✓	✓		

Fisual Studio 2015 Fisual Studio 2013 Fisual Studio 2010 Tools for Office Runtime ### ### ### ### ### ### ### ### ### #	Suite	Manufacturing & Supply Chain Suite				
Issual Studio 2015 Issual Studio 2013 Issual Studio 2010 Tools for Office Runtime Ilicrosoft Visual C++ Redistributable 2019 Ilicrosoft Visual C++ Redistributable 2017 Ilicrosoft Visual C++ Redistributable 2015 Ilicrosoft Visual C++ Redistributable 2013 Ilicrosoft Visual C++ Red						
isual Studio 2013 isual Studio 2010 Tools for Office Runtime ilicrosoft Visual C++ Redistributable 2019 ilicrosoft Visual C++ Redistributable 2017 ✓ ✓ ✓ ilicrosoft Visual C++ Redistributable 2015 ilicrosoft Visual C++ Redistributable 2015 ilicrosoft Visual C++ Redistributable 2013 ilicrosoft App-V 5.1 ilicrosoft Teminal Services (Server) ilicrosoft Teminal Services (Gestop) ilitris XenApp-V.18 (Desktop) ilitris Xen	V12 Platform Specifications that are supported		aspenONE Unified GDOT Builder 64-bit	Aspen GDOT Online 32-bit	Aspen GDOT Offline 32-bit	
fiscal Studio 2010 Tools for Office Runtime Alicrosoft Visual C++ Redistributable 2019 Alicrosoft Visual C++ Redistributable 2017 Alicrosoft Visual C++ Redistributable 2015 Alicrosoft Visual C++ Redistributable 2015 Alicrosoft Visual C++ Redistributable 2013 Alicrosoft Visual C++ Redistributable 2013 Alicrosoft App-V 5.1 Alicrosoft App-V 5.1 Alicrosoft App-V 5.1 Alicrosoft App-V (Server) Alicrosoft Hyper-V (Server) Alicrosoft Hyper-V (Server) Alicrosoft Terminal Services (Desktop) Alicrosoft Terminal Services (Desktop) Alicrosoft Terminal Services (Desktop) Alicrosoft Edge 25 Alicro	Visual Studio 2015			✓	✓	
flicrosoft Visual C++ Redistributable 2017 **Control Visual C++ Redistributable 2017 **Control Visual C++ Redistributable 2015 **Control Visual C++ Redistributable 2013 **Introl Visual C++ Redistributable 2015 **Introl Visual C++ Redistributable 2013 **Introl Visual C++ Redis	Visual Studio 2013					
flicrosoft Visual C++ Redistributable 2017 ### Additionsoft Visual C++ Redistributable 2013 ### Additionsoft Visual C++ Redistributable 2013 ### Additionsoft App-V 5.1 ### Additionsoft App-V 6.1	Visual Studio 2010 Tools for Office Runtime					
Alicrosoft Visual C++ Redistributable 2015 Alicrosoft Visual C++ Redistributable 2013 Alicrosoft Visual C++ Redistributable 2013 Alicrosoft App-V 5.1 Alicrosoft App-V 5.1 Alicrosoft Hyper-V (Server) Alicrosoft Hyper-V (Server) Alicrosoft Hyper-V (Server) Alicrosoft Teminal Services (Desktop) Alicrosoft Teminal Services (Desktop) Alicrosoft Teminal Services (Desktop) Alicrosoft Edge 25 Alicro	Microsoft Visual C++ Redistributable 2019					
Alicrosoft Visual C++ Redistributable 2013 Alicrosoft App-V 5.1 Alicrosoft App-V 5.1 Alicrosoft Hyper-V (Server) Alicrosoft Hyper-V (Server) Alicrosoft Enterprise Plus Alicrosoft Terminal Services (Desktop) Alicrosoft Terminal Services (Desktop) Alicrosoft Terminal Services (Desktop) Alicrosoft Edge 25 Alicrosoft E	Microsoft Visual C++ Redistributable 2017		✓	✓	✓	
Firtualization ficrosoft App-V 5.1 ficrosoft App-V 5.1 ficrosoft Hyper-V (Server) fire SXi Hypervisor Server 6x (Server) fire SXi Hypervisor Server 6x (Server) fire Sxi Hypervisor Server 6x (Server) ficrosoft Terminal Services (Desktop) fitrix XenApp 7.18 (Desktop) Veb Browsers fitteret Explorer 11 ficrosoft Edge ²⁵ foogle Chrome Evergreen Version 75+ fire fox fire f	Microsoft Visual C++ Redistributable 2015			✓	✓	
Alicrosoft App-V 5.1 Alicrosoft Hyper-V (Server) Alicrosoft Hyper-V (Server) Alicrosoft Hyper-V (Server) Alicrosoft Terminal Services (Desktop) Alicrosoft Terminal Services (Desktop) Alicrosoft Terminal Services (Desktop) Alicrosoft Edge 25 Alicrosoft Edge 2	Microsoft Visual C++ Redistributable 2013					
Alicrosoft Hyper-V (Server) Alicrosoft Hyper-V (Server) Alicrosoft Hyper-V (Server) Alicrosoft Terminal Services (Desktop) Alicrosoft Terminal Services (Desktop) Alicrosoft Edge 25 Alicrosoft Edge 25 Alicrosoft Edge 25 Alicrosoft Edge 26 Alicrosoft Edge 30 Alicrosoft Edge 40	Virtualization					
Mware ESXi Hypervisor Server 6x (Server) **MWare vSphere Enterprise Plus **Interconft Terminal Services (Desktop) **Interconft Terminal Services (Desktop) **Interconft Edge 25 **Interconft Edge 26 **Interconft Edge 27 **Interconft Edge 28 **Interconft Edge 29 **Interconft Edge	Microsoft App-V 5.1					
MWare vSphere Enterprise Plus Alcrosoft Terminal Services (Desktop) Alcrosoft Terminal Services (Desktop) Alcrosoft Edpe 25 Alcrosoft Edge 25	Microsoft Hyper-V (Server)		✓	✓	✓	
Alicrosoft Terminal Services (Desktop) Veb Browsers Internet Explorer 11 Alicrosoft Edge 25 Internet Explorer 19 Alicrosoft Edge 25 Alicrosoft E	VMware ESXi Hypervisor Server 6.x (Server)		✓			
Web Browsers Internet Explorer 11 Idicrosoft Edge 25 Idicrosoft	VMWare vSphere Enterprise Plus					
Web Browsers Internet Explorer 11 If I V V V V Idicrosoft Edge 25 If I V V V V Idicrosoft Edge 25 If I V V V V Idicrosoft Edge 25 If I V V V V Idicrosoft Edge 25 If I V V V V Idicrosoft Edge 25	Microsoft Terminal Services (Desktop)					
Alicrosoft Edge 25 Alicro	Citrix XenApp 7.18 (Desktop)					
Alicrosoft Edge 25 Alicro	Web Browsers					
infoogle Chrome Evergreen Version 75+	Internet Explorer 11		✓	✓	✓	
isogle Chrome Evergreen Version 75+ irefox irefox irefox throme on iOS 12+ for iPad Support afari on iOS 13+ for iPad Support+A86 isocurity Components/Services sspen Framework (AFW) 5 ava App (Servers) apache Tomcat 9.0+ Native Web Servers S 10	Microsoft Edge ²⁵		✓	✓	✓	
chrome on iOS 12+ for iPad Support afari on iOS 13+ for iPad Support+A86 security Components/Services spen Framework (AFW) 5 ava App (Servers) speache Tomcat 9.0+ Native Web Servers S 10	Google Chrome Evergreen Version 75+		✓	✓	✓	
afari on iOS 13+ for iPad Support+A86 security Components/Services spen Framework (AFW) 5 ava App (Servers) upache Tomcat 9.0+ Native Web Servers S 10	Firefox					
Security Components/Services sspen Framework (AFW) 5 ava App (Servers) speache Tomcat 9.0+ Vative Web Servers 5 10	Chrome on iOS 12+ for iPad Support					
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ava App (Servers) Apache Tomcat 9.0+ Native Web Servers S 10	Security Components/Services					
Native Web Servers S 10	Aspen Framework (AFW) 5					
Native Web Servers S 10	Java App (Servers)					
\$ 10	Apache Tomcat 9.0+					
	Native Web Servers					
\$ 8.5	IIS 10					
	IIS 8.5					

Suite	Manufacturing & Supply Chain Suite		
	Dynamic Optimization (GDOT)		
V12 Platform Specifications that are supported	aspenONE Unified GDOT Builder 64-bit	Aspen GDOT Online 32-bit	Aspen GDOT Offline 32-bit
Reporting Services			
Microsoft Report Viewer 2015			
Microsoft SQL Server 2012/2014/2016/2017/ 2019 Reporting Services			
Load Balancing			
F5 Load Balancing			
Integration Components			
Aspen Supply Chain Connect			
Informatica Powercenter 10.4 Cloud Support *			
Azure VM - Microsoft			
Amazon VM (AWS)			
Azure VM - Linux			
Nutanix XiFrame			
Virtual Apps Essentials			
Windows Virtual Desktop (WVD Fall 2019 Release) 27			
Deployment Tools			
SCCM			
Supported Versions of Fortran			
FORTRAN 2019			
Container Support			
Docker Engine-Enterprise 19.03.x			
Docker Compose 1.26.x			
Desktop Types - Minimum Recommended			
Type I: Computer & processor: Intel Core-i5 family or faster Memory (RAM): 16 gigabytes (GB) RAM Hard Disk: 120 gigabytes (GB) available Monitor: Graphics hardware acceleration requires a DirectX10 graphics card and a 1440 x 900 or higher resolution monitor Network: 100MB/Sec			✓

Suite	Manufacturing & Supply Chain Suite		
	Dynamic Optimization (GDOT)		
V12 Platform Specifications that are supported	aspenONE Unified GDOT Builder 64-bit	Aspen GDOT Online 32-bit	Aspen GDOT Offline 32-bit
Type II: Computer & processor: Intel Core-i5 family or faster Memory (RAM): 16 gigabytes (GB) RAM Hard Disk: 250 gigabytes (GB) available Monitor: Graphics hardware acceleration requires a DirectX10 graphics card and a 1440 x 900 or higher resolution monitor Network: 100MB/Sec	✓		
Server Types - Minimum Recommended			
Type I: Computer & processor. Intel Core-i7 family or faster for standalone deployment Intel Xeon Gold series, 4 cores or more for multi-user environment Memory (RAM): 16 or above gigabytes (GB) RAM for standalone deployment, 32 or above gigabytes (GB) RAM for multi-user environment Hard Disk: 150 gigabytes (GB) available for standalone deployment, 300 gigabytes (GB) for multi-user environment Monitor: Graphics hardware acceleration requires a DirectX10 graphics card and a 1440 x 900 or higher resolution monitor Network: 100MB/Sec	√	√	
Type II: Computer & processor: Intel Xeon Gold series type system (4 cores) or faster Memory (RAM): 16 or above gigabytes (GB) RAM Hard Disk: 300 gigabytes (GB) or more available Monitor: Graphics hardware acceleration requires a DirectX10 graphics card and a 1440 x 900 or higher resolution monitor Network: 100MB/Sec (Gigabyte network recommended)			
Type III: Computer & processor. Intel Cascade Lake-based Xeon processor with 8 cores or more per processor Memory (RAM): 32 or above gigabytes (GB) RAM Hard Disk: 500 gigabytes (GB) or more available Monitor: Graphics hardware acceleration requires a DirectX10 graphics card and a 1440 x 900 or higher resolution monitor Network: 100MB/Sec (Gigabyte network recommended)			
Type IV: (IloT Gateways) Computer & processor: ARM or Intel based CPU or more Memory (RAM): 256Mb or more Hard Disk: 128Mb or more			
Type V Windows Server 2019 v1809+ Memory (RAM in GB): Minimum: 16 Recommended: 32 Cores: Minimum: 4, Recommended: 8 Disk space (GB): Minimum: 64, Recommended: 100 Network (MB/s): Minimum: 50, Recommended: 100 Notes			

Suite	Manufacturing & Supply Chain Suite		_
	Dynamic Optimization (GDOT)		
V12 Platform Specifications that are supported	aspenONE Unified GDOT Builder 64-bit	Aspen GDOT Online 32-bit	Aspen GDOT Offline 32-bit
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When running software on a virtual machine, the machine should meet the same requirements.			
AspenTech does not support the in-place upgrade of the Operating System (for example: upgrade Windows 7 to Windows 10) with AspenTech software already installed. Our recommendation is to uninstall Aspen Software before upgrading the OS and reinstall it after the upgrade.			
Your Aspen SLM Server must be installed and running prior to installing any V12 product.			
If running standalone, 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.	1		
Microsoft Active Directory/Domain Services (Required for aspenONE Web Server)	1		
A minimum of 10GB of free space is needed to install/upgrade products.	1		
Only the version of MS Edge that uses the Google Chrome engine is supported			