

# System Requirements for Microsoft Dynamics GP 2018

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This page lists the system requirements for Microsoft Dynamics GP 2018.

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## Overview

This document contains the minimum client hardware requirements, server recommendations and Terminal Server minimum hardware requirements supported by the Microsoft Dynamics GP Technical Support Team. The following server recommendations are not minimum server requirements. The requirements and recommendations are based on experience with many different installations. Users may need to increase these requirements due to environmental factors to achieve individual performance expectations.

Review each Customer Profile below to determine what profile best fits the user count, modules used and transaction volume for your environment. Use that Customer Profile as a recommendation for your server hardware implementation.

\*\*\*Information around PCI Compliance and [Microsoft Dynamics GP with TLS 1.0](#)\*\*\*

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# Client Requirements

Item	Requirements	
	<b>32-bit</b>	<b>x64</b>
<b>Operating System</b>	Microsoft Windows 10 Professional Edition	Microsoft Windows 10 Professional Edition
	Microsoft Windows 10 Enterprise Edition	Microsoft Windows 10 Enterprise Edition
	Microsoft Windows 8 & 8.1 Professional Edition	Microsoft Windows 8 & 8.1 Professional Edition
	Microsoft Windows 8 & 8.1 Ultimate Edition	Microsoft Windows 8 & 8.1 Ultimate Edition
	Microsoft Windows 8 & 8.1 Enterprise Edition	Microsoft Windows 8 & 8.1 Enterprise Edition
	Microsoft Windows 7 Professional Edition	Microsoft Windows 7 Professional Edition
	Microsoft Windows 7 Ultimate Edition	Microsoft Windows 7 Ultimate Edition
	Microsoft Windows 7 Enterprise Edition	Microsoft Windows 7 Enterprise Edition
	1 Dual Core or 1 Single Core Processor 2.6 GHz or higher	1 Dual Core or 1 Single Core Processor 2.6 GHz or higher
	<b>Processor</b>	
<b>Available Hard Disk Space</b>	2GB or more on the system root	2GB or more on the system root
<b>Minimum Available RAM</b>	2GB or more	2GB or more
<b>Network Card</b>	1GB Ethernet	
	Microsoft Office 2013 32bit & x64 Microsoft Office 2016 32bit & x64	
<b>Microsoft Office</b>	NOTES: 1. If using Office x64, the server type in System Preferences (Microsoft Dynamics GP   Tools   System   Setup   System Preferences) must be set to Exchange. 2. The Exchange server type only supports XPS and DOCX. 3. If using Office 32bit, the server type in System Preferences can either be MAPI or Exchange	
<b>Internet Explorer</b>	Internet Explorer 11.0 - Desktop Mode Only Edge	
<b>ODBC Driver</b>	SQL Native Client 11.0 SQL Native Client 10.0	

**\*\*NOTE:** A 32bit ODBC DSN is required for Microsoft Dynamics GP 2018\*\*

**Adobe**

Adobe X  
Hardware Virtualization  
Windows Server 2016 Hyper-V  
Windows Server 2012 Hyper-V  
Windows Server 2012 R2 Hyper-V

**Virtual  
Environments  
Supported  
(Optional)**

Software Virtualization  
Microsoft Application Virtualization (App-V) 5.0

For additional Virtual Technology Support, click the link below to review the Virtualization Support Policy Wizard. Choose Products to see if your Virtual Technology is listed.

<http://www.windowsservercatalog.com/svvp.aspx?svvppage=svvpwizard.htm>

**NOTES**

1. A 32-bit ODBC DSN is required for Microsoft Dynamics GP 2018 on a 32-bit and x64 machine. Refer to [KnowledgeBase Article 870416](#) for the steps to setup a 32-bit ODBC DSN on an x64 machine.

2. When you deploy a system in a virtual environment, make sure that you have sufficient hard disk space to avoid performance problems. Each computer that you deploy in a virtual environment should meet or exceed the random access memory (RAM) requirements and the hard disk space requirements. For more information, click the following article number to view the article in the Microsoft Knowledge Base: [897615](#) Support policy for Microsoft software running in non-Microsoft hardware virtualization software.

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## Server Recommendations: Customer Profile 1

Item	Requirements
<b>Customer Profile 1 Usage</b>	Use only Financial Series modules
	Have between 0-5 concurrent users for Microsoft SQL Server or for Microsoft SQL Server Express
	Process fewer than 250 transactions per day
	No web applications in use
	Peer to Peer Environment

<b>Database Requirements</b>	<p><b>32-bit</b></p> <p>Microsoft SQL Server 2017 -Enterprise, Standard or Express</p> <p>Microsoft SQL Server 2016 -Enterprise, Standard or Express</p> <p>Microsoft SQL Server 2014 -Enterprise, Standard or Express</p> <p><b>Supported Microsoft SQL Server Collation</b></p> <p><b>1. Dictionary Order Case Insensitive - Sort Order 52</b></p> <p>In the SQL Server Management Studio, right-click the SQL Server Name and click Properties: Server Collation = SQL_Latin1_General_CP1_CI_AS</p>	<p><b>x64</b></p> <p>Microsoft SQL Server 2017 -Enterprise, Standard or Express</p> <p>Microsoft SQL Server 2016 -Enterprise, Standard or Express</p> <p>Microsoft SQL Server 2014 -Enterprise, Standard or Express</p> <p><b>Supported Microsoft SQL Server Collation</b></p> <p><b>1. Dictionary Order Case Insensitive - Sort Order 52</b></p> <p>In the SQL Server Management Studio, right-click the SQL Server Name and click Properties: Server Collation = SQL_Latin1_General_CP1_CI_AS</p>
<b>Operating System</b>	<p><b>2. Binary - Sort Order 50</b></p> <p>In the SQL Server Management Studio, right-click the SQL Server Name and click Properties: Server Collation = Latin1_General_BIN</p>	<p><b>2. Binary - Sort Order 50</b></p> <p>In the SQL Server Management Studio, right-click the SQL Server Name and click Properties: Server Collation = Latin1_General_BIN</p> <p>Microsoft Windows Server 2016 Essentials Edition or Standard Edition</p> <p>Microsoft Windows Server 2012 Essentials Edition or Standard Edition</p> <p>Microsoft Windows Server 2012 R2 Essentials Edition or Standard Edition</p>
<b>Processor</b>	1 Dual Core or 2 Single Core Processors	1 Dual Core or 2 Single Core Processors
<b>Minimum Available RAM</b>	2 GB or more	2 GB or more
<b>Network Card</b>	1GB Ethernet	
<b>Virtual Environments Supported (Optional)</b>	Hardware Virtualization Windows Server 2016 Hyper-V Windows Server 2012 Hyper-V Windows Server 2012 R2 Hyper-V	

Software Virtualization  
Microsoft Application Virtualization (App-V) 5.0

For additional Virtual Technology Support, click the link below to review the Virtualization Support Policy Wizard. Choose Products to see if your Virtual Technology is listed.

<http://www.windowservercatalog.com/svvp.aspx?svvppage=svvpwizard.htm>

**NOTES**

1. When you deploy a system in a virtual environment, make sure that you have sufficient hard disk space to avoid performance problems. Each computer that you deploy in a virtual environment should meet or exceed the random access memory (RAM) requirements and the hard disk space requirements. For more information, click the following article number to view the article in the Microsoft Knowledge Base: [897615](#) Support policy for Microsoft software running in non-Microsoft hardware virtualization software.
2. Microsoft SQL Server 2014 Express or Microsoft SQL Server 2016 Express can be installed on a non-server operating system, however it is recommended to install on a server operating system.
3. Verify processors can be upgraded.

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## Server Recommendations: Customer Profile 2

Item	Requirements	
<b>Customer Profile 2 Usage</b>	Use only Financial Series modules	
	Have between 0-20 concurrent users for Microsoft SQL Server or 0-10 concurrent users for Microsoft SQL Server Express Use Report Writer, Crystal Reports, or Management Reporter	
	Process fewer than 1000 transactions per day	
	Import very little data	
<b>Database Requirements</b>	Dedicated server with Microsoft SQL Server only	
	Recommend a dedicated server with Microsoft SQL Server Express only	
	<b>32-bit</b>	<b>x64</b>
	Microsoft SQL Server 2017 -Enterprise, Standard or Express	Microsoft SQL Server 2017 -Enterprise, Standard or Express
Microsoft SQL Server 2016 -Enterprise, Standard or Express	Microsoft SQL Server 2016 -Enterprise, Standard or Express	
Microsoft SQL Server 2014	Microsoft SQL Server 2014	

	-Enterprise, Standard or Express <b>Supported Microsoft SQL Server Collation</b> <b>1. Dictionary Order Case Insensitive - Sort Order 52</b> In the SQL Server Management Studio, right-click the SQL Server Name and click Properties: Server Collation = SQL_Latin1_General_CP1_CI_AS	-Enterprise, Standard or Express <b>Supported Microsoft SQL Server Collation</b> <b>1. Dictionary Order Case Insensitive - Sort Order 52</b> In the SQL Server Management Studio, right-click the SQL Server Name and click Properties: Server Collation = SQL_Latin1_General_CP1_CI_AS
	<b>2. Binary - Sort Order 50</b> In the SQL Server Management Studio, right-click the SQL Server Name and click Properties: Server Collation = Latin1_General_BIN	<b>2. Binary - Sort Order 50</b> In the SQL Server Management Studio, right-click the SQL Server Name and click Properties: Server Collation = Latin1_General_BIN
<b>Operating System</b>		Microsoft Windows Server 2016 Essentials Edition or Standard Edition Microsoft Windows Server 2012 Essentials Edition or Standard Edition Microsoft Windows Server 2012 R2 Essentials Edition or Standard Edition
<b>Processor</b>	1 Dual Core or 2 Single Core Processors	1 Dual Core or 2 Single Core Processors
<b>Disk Configuration</b>	RAID 1 for operating system and applications (2 disks) RAID 5 for SQL database log and data files (4 disks)	RAID 1 for operating system and applications (2 disks) RAID 5 for SQL database log and data files (4 disks)
<b>Minimum Available RAM</b>	2 GB or more	2 GB or more
<b>Network Card</b>	1GB Ethernet	
<b>Virtual Environments Supported (Optional)</b>	Hardware Virtualization Windows Server 2016 Hyper-V Windows Server 2012 Hyper-V Windows Server 2012 R2 Hyper-V  Software Virtualization	

## Microsoft Application Virtualization (App-V) 5.0

For additional Virtual Technology Support, click the link below to review the Virtualization Support Policy Wizard. Choose Products to see if your Virtual Technology is listed.

<http://www.windowservercatalog.com/svvp.aspx?svvppage=svvpwizard.htm>

### NOTES

1. Additional disks will improve Microsoft SQL Server performance.
2. Microsoft SQL Server 2014 Express or Microsoft SQL Server 2016 Express can be installed on a non-server operating system, however it is recommended to install on a server operating system.
3. Verify processors can be upgraded.
4. When you deploy a system in a virtual environment, make sure that you have sufficient hard disk space to avoid performance problems. Each computer that you deploy in a virtual environment should meet or exceed the random access memory (RAM) requirements and the hard disk space requirements. For more information, click the following article number to view the article in the Microsoft Knowledge Base: [897615](#) Support policy for Microsoft software running in non-Microsoft hardware virtualization software.

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## Server Recommendations: Customer Profile 3

Item	Requirements	
<b>Customer Profile 3 Usage</b>	Use Financials Series modules	
	Use Distribution Series modules moderately	
	Use Field Service Series modules	
	Use Manufacturing Series or Project Series modules moderately	
	Have between 20 and 60 concurrent users	
	Use Terminal Server	
	Use Report Writer, Crystal Reports or Management Reporter	
	Perform some online analytical processing (OLAP) cube generation Using an import routine/eConnect/Integration Manager	
	Process between 1000 and 4000 transactions per day	
	-Originating in Sales (SOP and/or RM), Payables or General Ledger	
Dedicated Microsoft SQL Server		
	<b>32-bit</b>	<b>x64</b>
<b>Database Requirements</b>	Microsoft SQL Server 2017	Microsoft SQL Server 2017
	-Enterprise, Standard or Express	-Enterprise, Standard or Express
	Microsoft SQL Server 2016	Microsoft SQL Server 2016

	<p>-Enterprise or Standard Microsoft SQL Server 2014 Enterprise or Standard</p> <p><b>Supported Microsoft SQL Server Collation</b></p> <p><b>1. Dictionary Order Case Insensitive - Sort Order 52</b></p> <p>In the SQL Server Management Studio, right-click the SQL Server Name and click Properties: Server Collation = SQL_Latin1_General_CP1_CI_AS</p> <p><b>2. Binary - Sort Order 50</b></p> <p>In the SQL Server Management Studio, right-click the SQL Server Name and click Properties: Server Collation = Latin1_General_BIN</p>	<p>-Enterprise or Standard Microsoft SQL Server 2014 Enterprise or Standard</p> <p><b>Supported Microsoft SQL Server Collation</b></p> <p><b>1. Dictionary Order Case Insensitive - Sort Order 52</b></p> <p>In the SQL Server Management Studio, right-click the SQL Server Name and click Properties: Server Collation = SQL_Latin1_General_CP1_CI_AS</p> <p><b>2. Binary - Sort Order 50</b></p> <p>In the SQL Server Management Studio, right-click the SQL Server Name and click Properties: Server Collation = Latin1_General_BIN</p>
<b>Operating System</b>		<p>Microsoft Windows Server 2016 Standard or Datacenter Edition</p> <p>Microsoft Windows Server 2012 Standard or Datacenter Edition</p> <p>Microsoft Windows Server 2012 R2 Standard or Datacenter Edition</p>
<b>Processor</b>	<p>1 Dual Core or 2 Single Core Processors</p> <p>RAID 1 for operating system and applications (2 disks)</p> <p>RAID 1 for SQL database log files (2 disks)</p>	<p>1 Dual Core or 2 Single Core Processors</p> <p>RAID 1 for operating system and applications (2 disks)</p> <p>RAID 1 for SQL database log files (2 disks)</p>
<b>Disk Configuration</b>	<p>RAID 5 (4 disk minimum) or RAID 0+1 (8 disk minimum) for SQL data files</p> <p>RAID 1 for TempDB (2 disks) - optional, but recommended</p>	<p>RAID 5 (4 disk minimum) or RAID 0+1 (8 disk minimum) for SQL data files</p> <p>RAID 1 for TempDB (2 disks) - optional, but recommended</p> <p>RAID 0 for SQL backups (full and log) (2 disks)</p>



	RAID 0 for SQL backups (full and log) (2 disks)	
<b>Minimum Available RAM</b>	4 GB or more	4 GB or more
<b>Network Card</b>	1GB Ethernet	
	Hardware Virtualization	
<b>Virtual Environments Supported (Optional)</b>	Windows Server 2016 Hyper-V Windows Server 2012 Hyper-V Windows Server 2012 R2 Hyper-V	
	Software Virtualization	
	Microsoft Application Virtualization (App-V) 5.0	
	For additional Virtual Technology Support, click the link below to review the Virtualization Support Policy Wizard. Choose Products to see if your Virtual Technology is listed. <a href="http://www.windowsservercatalog.com/svvp.aspx?svppage=svvpwizard.htm">http://www.windowsservercatalog.com/svvp.aspx?svppage=svvpwizard.htm</a>	

#### NOTES

1. Additional disks will improve Microsoft SQL Server performance.
2. Verify switch is capable of handling network traffic.
3. Verify processors can be upgraded.
4. When you deploy a system in a virtual environment, make sure that you have sufficient hard disk space to avoid performance problems. Each computer that you deploy in a virtual environment should meet or exceed the random access memory (RAM) requirements and the hard disk space requirements. For more information, click the following article number to view the article in the Microsoft Knowledge Base: [897615](#) Support policy for Microsoft software running in non-Microsoft hardware virtualization software.

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## Server Recommendations: Customer Profile 4

Item	Requirements
<b>Customer Profile 4 Usage</b>	Use Financials Series and Distribution Series modules extensively Use Field Service Series, Manufacturing Series, and Project Series modules extensively Have between 60 and 100 concurrent users Use Terminal Server Use Report Writer, Crystal Reports or Management Reporter

extensively  
 Use an import routine extensively - eConnect  
 Process more than 4000 transactions per day-Originating in  
 Sales (SOP and/or RM), Payables or General Ledger Perform  
 online analytical processing (OLAP) cube generation (to different  
 machine)  
 Dedicated Microsoft SQL Server

**32-bit**

Microsoft SQL Server 2017  
 -Enterprise, Standard or Express  
 Microsoft SQL Server 2016  
 -Enterprise or Standard  
 Microsoft SQL Server 2014  
 Enterprise or Standard Edition

**Supported Microsoft SQL Server Collation**

**1. Dictionary Order Case Insensitive - Sort Order 52**

In the SQL Server Management Studio, right-click the SQL Server Name and click Properties: Server Collation = SQL\_Latin1\_General\_CP1\_CI\_AS

**2. Binary - Sort Order 50**

In the SQL Server Management Studio, right-click the SQL Server Name and click Properties: Server Collation = Latin1\_General\_BIN

**x64**

Microsoft SQL Server 2017  
 -Enterprise, Standard or Express  
 Microsoft SQL Server 2016  
 -Enterprise or Standard  
 Microsoft SQL Server 2014  
 Enterprise or Standard Edition

**Supported Microsoft SQL Server Collation**

**1. Dictionary Order Case Insensitive - Sort Order 52**

In the SQL Server Management Studio, right-click the SQL Server Name and click Properties: Server Collation = SQL\_Latin1\_General\_CP1\_CI\_AS

**2. Binary - Sort Order 50**

In the SQL Server Management Studio, right-click the SQL Server Name and click Properties: Server Collation = Latin1\_General\_BIN

Microsoft Windows Server 2016 Datacenter Edition  
 Microsoft Windows Server 2012 Datacenter Edition  
 Microsoft Windows Server 2012 R2 Datacenter Edition

**Database Requirements**

**Operating System**

**Processor**

**Disk Configuration**

2 Dual Core or 4 Single Core Processors  
 RAID 1 for operating system and applications (2 disks)  
 RAID 1 for SQL database log files (2 disks)

2 Dual Core or 4 Single Core Processors  
 RAID 1 for operating system and applications (2 disks)  
 RAID 1 for SQL database log files (2 disks)

	RAID 1 for TempDB (2 disks) RAID 0 for SQL backups (full and log) (2 disks) RAID 0+1 for data files (8 disks or more)	RAID 1 for TempDB (2 disks) RAID 0 for SQL backups (full and log) (2 disks) RAID 0+1 for data files (8 disks or more)
<b>Minimum Available RAM</b>	8 GB or more	8 GB or more
<b>Network Card</b>	1GB Ethernet	
<b>Virtual Environments Supported (Optional)</b>	Hardware Virtualization Windows Server 2016 Hyper-V Windows Server 2012 Hyper-V Windows Server 2012 R2 Hyper-V  Software Virtualization Microsoft Application Virtualization (App-V) 5.0	
	For additional Virtual Technology Support, click the link below to review the Virtualization Support Policy Wizard. Choose Products to see if your Virtual Technology is listed. <a href="http://www.windowsservercatalog.com/svvp.aspx?svppage=svvpwizard.htm">http://www.windowsservercatalog.com/svvp.aspx?svppage=svvpwizard.htm</a>	

**NOTES**

1. Verify processors can be upgraded to 8 processors.
2. Additional disks will improve Microsoft SQL Server performance.
3. Verify switch is capable of handling network traffic.
5. When you deploy a system in a virtual environment, make sure that you have sufficient hard disk space to avoid performance problems. Each computer that you deploy in a virtual environment should meet or exceed the random access memory (RAM) requirements and the hard disk space requirements. For more information, click the following article number to view the article in the Microsoft Knowledge Base: [897615](#) Support policy for Microsoft software running in non-Microsoft hardware virtualization software.

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## Remote Desktop Services Requirements

Item	Requirements
	<b>32-bit</b>
	<b>x64</b>
<b>Operating System</b>	Microsoft Windows Server 2016 Datacenter Edition Microsoft Windows Server 2012 Datacenter Edition

Microsoft Windows Server  
2012 R2 Datacenter Edition

<b>Citrix (Optional)</b>	Citrix XenApp	Citrix XenApp
<b>Processor</b>	1 Quad Core or 2 Dual Core Processors or higher	1 Quad Core or 2 Dual Core Processors or higher
<b>Disk Configuration</b>	RAID 1 for operating system and applications (2 disks)	RAID 1 for operating system and applications (2 disks)
<b>Minimum Available RAM</b>	4 GB – Up to 15 concurrent users 8 GB – Up to 30 concurrent users 16 GB – Up to 60 concurrent users	4 GB – Up to 15 concurrent users 8 GB – Up to 30 concurrent users 16 GB – Up to 60 concurrent users
<b>Network Card</b>	1GB Ethernet	

Hardware Virtualization  
Windows Server 2016 Hyper-V  
Windows Server 2012 Hyper-V  
Windows Server 2012 R2 Hyper-V

<b>Virtual Environments Supported (Optional)</b>	Software Virtualization Microsoft Application Virtualization (App-V) 5.0
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For additional Virtual Technology Support, click the link below to review the Virtualization Support Policy Wizard. Choose Products to see if your Virtual Technology is listed.

<http://www.windowsservercatalog.com/svvp.aspx?svvppage=svvpwizard.htm>

## NOTES

1. It is recommended to have a dedicated Terminal Server/Citrix Server. There may be performance losses if Microsoft SQL Server is running on the Terminal Server/Citrix Server. Therefore, it is highly recommended to have two separate servers. One server with Terminal Server and/or Citrix and one server with Microsoft SQL Server.
2. If using Adobe, Adobe must be installed at the Terminal Server.
3. If using Lync for Unified Communications, a remote app for Lync must also be configured and copied to the client along with the Microsoft Dynamics GP remote app. The Lync remote app must be launched first and then the Microsoft Dynamics GP remote app.
4. If accessing Citrix, the hardware and software must be supported according to the Citrix configuration requirements.
5. Verify processors can be upgraded.
6. The amount of RAM needed depends on the number of concurrent users per Terminal Server.

7. Verify switch is capable of handling network traffic.
8. Increased user count may require greater RAM and Processor speed.
9. Users utilizing Management Reporter or Crystal reporting via Terminal Services may require increased hardware to increase performance.
10. When you deploy a system in a virtual environment, make sure that you have sufficient hard disk space to avoid performance problems. Each computer that you deploy in a virtual environment should meet or exceed the random access memory (RAM) requirements and the hard disk space requirements. For more information, click the following article number to view the article in the Microsoft Knowledge Base: [897615](#) Support policy for Microsoft software running in non-Microsoft hardware virtualization software.

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## **Additional Information**

1. This document represents configurations tested by Microsoft Business Solutions and supported by Microsoft Dynamics GP Technical Support. Use of technologies not specified in this document is not recommended and will not be supported. Testing is ongoing, and as newer technologies become supported this list will be updated.
2. The following are no longer supported with Microsoft Dynamics GP 2018:
  - a. Windows Server 2008 all editions.
  - b. Microsoft SQL Server 2012 all editions.
3. Click [HERE](#) to view a KnowledgeBase article regarding support in a virtual environment. The following virtual products have been tested: Microsoft Windows Server 2016 Hyper-V, Microsoft Window Server 2012 R2 Hyper-V, Microsoft Windows Server 2012 Hyper-V, Windows Server 2008 R2 Hyper-V, Microsoft Windows For additional Virtual Technology Support, click the link below to review the Virtualization Support Policy Wizard. Choose Dynamics GP as the product.  
<http://www.windowservercatalog.com/svvp.aspx?svvppage=svvpwizard.htm>
4. The Microsoft Dynamics GP 2018 core application is supported in a peer to peer (workgroup) environment. This environment excludes all web applications such as Web Services, eConnect, and Management Reporter. This also excludes Workflow 2.0 as a domain is required. If web applications are used, a domain is required.
5. Click [HERE](#) for more information regarding SQL Server 2012 supported features with Microsoft Dynamics GP 2018.
6. If you have questions regarding licensing SQL Server for use with Microsoft Dynamics GP. Please contact a Licensing Specialist at 1-800-426-9400.

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