

Microsoft Dynamics GP 2016 System Requirements

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.

Client Requirements

Item	Requirements	
	32-bit	x64
Operating System	Microsoft Windows 10 Professional Edition Microsoft Windows 10 Enterprise Edition Microsoft Windows 8 & 8.1 Professional Edition Microsoft Windows 8 & 8.1 Ultimate Edition Microsoft Windows 8 & 8.1 Enterprise Edition Microsoft Windows 7 Professional Edition Microsoft Windows 7 Ultimate Edition Microsoft Windows 7 Enterprise Edition	Microsoft Windows 10 Professional Edition Microsoft Windows 10 Enterprise Edition Microsoft Windows 8 & 8.1 Professional Edition Microsoft Windows 8 & 8.1 Ultimate Edition Microsoft Windows 8 & 8.1 Enterprise Edition Microsoft Windows 7 Professional Edition Microsoft Windows 7 Ultimate Edition Microsoft Windows 7 Enterprise Edition
Processor	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
Available Hard Disk Space	2GB or more on the system root	2GB or more on the system root

Minimum Available RAM	2GB or more	2GB or more
Network Card	1GB Ethernet	
Microsoft Office	Microsoft Office 2013 32bit & x64 Microsoft Office 2016 32bit & x64 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	
Internet Explorer	Internet Explorer 11.0 - Desktop Mode Only Edge	
ODBC Driver	SQL Native Client 11.0 SQL Native Client 10.0 **NOTE: A 32bit ODBC DSN is required for Microsoft Dynamics GP 2016**	
Adobe	Adobe X	
Virtual Environments Supported (Optional)	Hardware Virtualization Windows Server 2016 Hyper-V Windows Server 2012 Hyper-V Windows Server 2012 R2 Hyper-V Windows Server 2008 R2 Hyper-V Windows Server 2008 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.windowsservercatalog.com/svp.aspx?svppage=svppwizard.htm	

NOTES



1. The following are no longer supported with Microsoft Dynamics GP 2016:
 - a. Microsoft Office 2010 32bit & x64
2. A 32-bit ODBC DSN is required for Microsoft Dynamics GP 2016 on a 32-bit and x64 machine. Refer to Knowledge Base Article [870416](#) for the steps to setup a 32-bit ODBC DSN on an x64 machine.

3. 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.

Server Recommendations: Customer Profile 1

Description:

- 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

Item	Requirements	
	32-bit	x64
Database	<p>Microsoft SQL Server 2016—Enterprise, Standard or Express Microsoft SQL Server 2014—Enterprise, Standard or Express Microsoft SQL Server 2012—Enterprise, Standard or Express</p> <p>Supported Microsoft SQL Server Collation 1. Dictionary Order Case Insensitive - Sort Order 52</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>2. Binary - Sort Order 50 In the SQL Server Management Studio, right-click the SQL Server Name and click</p>	<p>Microsoft SQL Server 2016—Enterprise, Standard or Express Microsoft SQL Server 2014—Enterprise, Standard or Express Microsoft SQL Server 2012—Enterprise, Standard or Express</p> <p>Supported Microsoft SQL Server Collation 1. Dictionary Order Case Insensitive - Sort Order 52</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>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</p>

	Properties: Server Collation = Latin1_General_BIN	
Processor	1 Dual Core or 2 Single Core Processors	1 Dual Core or 2 Single Core Processors
Operating System	Microsoft Windows Server 2008 Standard Edition SP2 or later	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 Microsoft Windows Server 2008 R2 Standard Edition SP1 or later Microsoft Windows Server 2008 Standard Edition SP2 or later
Minimum Available RAM	2GB or more	2GB or more
Network Card	1GB Ethernet	
Virtual Environments Supported (Optional)	<p>Hardware Virtualization</p> <p>Windows Server 2016 Hyper-V</p> <p>Windows Server 2012 Hyper-V</p> <p>Windows Server 2012 R2 Hyper-V</p> <p>Windows Server 2008 R2 Hyper-V</p> <p>Windows Server 2008 Hyper-V</p> <p>Software Virtualization</p> <p>Microsoft Application Virtualization (App-V) 5.0</p> <p>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?svppage=svvpwizard.htm</p>	

NOTES



1. The following are no longer supported with Microsoft Dynamics GP 2016:
 - a. Microsoft Office 2010 32bit & x64
2. Microsoft SQL Server 2008 Express or Microsoft SQL Server 2012 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.

Server Recommendations: Customer Profile 2

Description:

- 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
- Dedicated server with Microsoft SQL Server only
- Recommend a dedicated server with Microsoft SQL Server Express only

Item	Requirements	
	32-bit	x64
Database	<p>Microsoft SQL Server 2016—Enterprise, Standard or Express</p> <p>Microsoft SQL Server 2014—Enterprise, Standard or Express</p> <p>Microsoft SQL Server 2012—Enterprise, Standard or Express</p> <p>Supported Microsoft SQL Server Collation</p> <p>1. Dictionary Order Case Insensitive - Sort Order 52</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>2. Binary - Sort Order 50</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 SQL Server 2016—Enterprise, Standard or Express</p> <p>Microsoft SQL Server 2014—Enterprise, Standard or Express</p> <p>Microsoft SQL Server 2012—Enterprise, Standard or Express</p> <p>Supported Microsoft SQL Server Collation</p> <p>1. Dictionary Order Case Insensitive - Sort Order 52</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>2. Binary - Sort Order 50</p> <p>In the SQL Server Management Studio, right-click the SQL Server Name and click Properties: Server Collation = Latin1_General_BIN</p>

Processor	1 Dual Core or 2 Single Core Processors	1 Dual Core or 2 Single Core Processors
Operating System	Microsoft Windows Server 2008 Standard Edition SP2 or later Microsoft Windows Small Business Server 2008 Premium Edition SP2 or later	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 Microsoft Windows Server 2008 R2 Standard Edition SP1 or later Microsoft Windows Server 2008 Standard Edition SP2 or later
Minimum Available RAM	2GB or more	2GB or more
Disk Configuration	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)
Network Card	1GB Ethernet	
Virtual Environments Supported (Optional)	<p>Hardware Virtualization</p> <p>Windows Server 2016 Hyper-V</p> <p>Windows Server 2012 Hyper-V</p> <p>Windows Server 2012 R2 Hyper-V</p> <p>Windows Server 2008 R2 Hyper-V</p> <p>Windows Server 2008 Hyper-V</p> <p>Software Virtualization</p> <p>Microsoft Application Virtualization (App-V) 5.0</p> <p>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</p>	

NOTES



1. The following are no longer supported with Microsoft Dynamics GP 2016:
 - a. Microsoft Office 2010 32bit & x64
2. Microsoft SQL Server 2008 Express or Microsoft SQL Server 2012 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. Additional disks will improve Microsoft SQL performance.

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.

Server Recommendations: Customer Profile 3

Description:

- 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

Item	Requirements	
	32-bit	x64
Database	Microsoft SQL Server 2016—Enterprise or Standard Microsoft SQL Server 2014—Enterprise or Standard Microsoft SQL Server 2012—Enterprise or Standard 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	Microsoft SQL Server 2016—Enterprise or Standard Microsoft SQL Server 2014—Enterprise or Standard Microsoft SQL Server 2012—Enterprise or Standard 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

	<p>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</p>	the SQL Server Name and click Properties: Server Collation = Latin1_General_BIN
Processor	1 Dual Core or 2 Single Core Processors	1 Dual Core or 2 Single Core Processors
Operating System	Microsoft Windows Server 2008 Enterprise Edition or Standard Edition SP2 or later	Microsoft Windows Server 2016—Datacenter Edition or Standard Edition Microsoft Windows Server 2012—Datacenter Edition or Standard Edition Microsoft Windows Server—2012 R2 Datacenter Edition or Standard Edition Microsoft Windows Server 2008 R2 Enterprise Edition or Standard Edition SP1 or later Microsoft Windows Server 2008 Enterprise Edition or Standard Edition SP2 or later
Minimum Available RAM	4GB or more	4GB or more
Disk Configuration	RAID 1 for operating system and applications (2 disks) RAID 1 for SQL database log files (2 disks) RAID 5 (4 disk minimum) or RAID 0+1 (8 disk minimum) for SQL data files RAID 1 for TempDB (2 disks) - optional, but recommended RAID 0 for SQL backups (full and log) (2 disks)	RAID 1 for operating system and applications (2 disks) RAID 1 for SQL database log files (2 disks) RAID 5 (4 disk minimum) or RAID 0+1 (8 disk minimum) for SQL data files RAID 1 for TempDB (2 disks) - optional, but recommended RAID 0 for SQL backups (full and log) (2 disks)
Network Card	1GB Ethernet	
Virtual Environments Supported (Optional)	Hardware Virtualization Windows Server 2016 Hyper-V Windows Server 2012 Hyper-V Windows Server 2012 R2 Hyper-V Windows Server 2008 R2 Hyper-V Windows Server 2008 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.windowsservercatalog.com/svp.aspx?svppage=svpwizard.htm>

NOTES

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 - a. Microsoft Office 2010 32bit & x64
2. Microsoft SQL Server 2008 Express or Microsoft SQL Server 2012 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. Additional disks will improve Microsoft SQL performance.
5. Verify switch is capable of handling network traffic.
6. 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.

Server Recommendations: Customer Profile 4

Description:

- 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

Item	Requirements
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	32-bit	x64
Database	<p>Microsoft SQL Server 2016—Enterprise or Standard Microsoft SQL Server 2014—Enterprise or Standard Microsoft SQL Server 2012—Enterprise or Standard</p> <p>Supported Microsoft SQL Server Collation 1. Dictionary Order Case Insensitive - Sort Order 52</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>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</p>	<p>Microsoft SQL Server 2016—Enterprise or Standard Microsoft SQL Server 2014—Enterprise or Standard Microsoft SQL Server 2012—Enterprise or Standard</p> <p>Supported Microsoft SQL Server Collation 1. Dictionary Order Case Insensitive - Sort Order 52</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>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</p>
Processor	2 Dual Core or 4 Single Core Processors	2 Dual Core or 4 Single Core Processors
Operating System	Microsoft Windows Server 2008 Enterprise Edition SP2 or later	Microsoft Windows Server 2016—Datacenter Edition Microsoft Windows Server 2012—Datacenter Edition or Standard Edition Microsoft Windows Server—2012 R2 Datacenter Edition Microsoft Windows Server 2008 R2 Enterprise Edition SP1 or later Microsoft Windows Server 2008 Enterprise Edition SP2 or later
Minimum Available RAM	8GB or more	8GB or more
Disk Configuration	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 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 (8 disks or more) for data files

	RAID 0+1 (8 disks or more) for data files
Network Card	1GB Ethernet
Virtual Environments Supported (Optional)	<p>Hardware Virtualization</p> <p>Windows Server 2016 Hyper-V</p> <p>Windows Server 2012 Hyper-V</p> <p>Windows Server 2012 R2 Hyper-V</p> <p>Windows Server 2008 R2 Hyper-V</p> <p>Windows Server 2008 Hyper-V</p> <p>Software Virtualization</p> <p>Microsoft Application Virtualization (App-V) 5.0</p> <p>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</p>

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1. The following are no longer supported with Microsoft Dynamics GP 2016:
 - a. Microsoft Office 2010 32bit & x64
2. Microsoft SQL Server 2008 Express or Microsoft SQL Server 2012 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. Additional disks will improve Microsoft SQL performance.
5. Verify switch is capable of handling network traffic.
6. 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.

Remote Desktop Services Requirements

Item	Requirements
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	32-bit	x64
Citrix (Optional)	Citrix XenApp	Citrix XenApp
Processor	1 Quad Core or 2 Dual Core Processors or higher	1 Quad Core or 2 Dual Core Processors or higher
Operating System	Microsoft Windows Server 2008 Enterprise Edition or Standard Edition SP2 or later	Microsoft Windows Server 2016—Datacenter Edition Microsoft Windows Server 2012—Datacenter Edition Microsoft Windows Server—2012 R2 Datacenter Edition Microsoft Windows Server 2008 R2 Enterprise or Standard Edition SP1 or later Microsoft Windows Server 2008 SP2 or later—Enterprise Edition or Standard Edition
Minimum Available RAM	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
Disk Configuration	RAID 1 for operating system and applications (2 disks)	RAID 1 for operating system and applications (2 disks)
Network Card	1GB Ethernet	
Virtual Environments Supported (Optional)	<p>Hardware Virtualization</p> <p>Windows Server 2016 Hyper-V Windows Server 2012 Hyper-V Windows Server 2012 R2 Hyper-V Windows Server 2008 R2 Hyper-V Windows Server 2008 Hyper-V</p> <p>Software Virtualization</p> <p>Microsoft Application Virtualization (App-V) 5.0</p> <p>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?svvpvpage=svvpwizard.htm</p>	

NOTES



1. The following are no longer supported with Microsoft Dynamics GP 2016:
 - a. Microsoft Office 2010 32bit & x64

2. *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.*
3. *If using Adobe, Adobe must be installed at the Terminal Server.*
4. *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.*
5. *If accessing Citrix, the hardware and software must be supported according to the Citrix configuration requirements.*
6. *Verify processors can be upgraded.*
7. *The amount of RAM needed depends on the number of concurrent users per Terminal Server.*
8. *Verify switch is capable of handling network traffic.*
9. *Increased user count may require greater RAM and Processor speed.*
10. *Users utilizing Management Reporter or Crystal reporting via Terminal Services may require increased hardware to increase performance.*
11. *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.*

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 2016:
 - a) Windows XP all editions
 - b) Windows Server 2003 all editions
 - c) Windows Vista all editions
 - d) Microsoft Office 2007
 - e) Microsoft SQL Server 2008 all editions
 - f) Microsoft SQL Server 2008 R2 all editions
 - g) Office Communicator 2007
 - h) Microsoft Office 2010 32bit & x64
 - i) Internet Explorer 10.0