

System Requirements for Microsoft Dynamics GP 2016

LAST MODIFIED TUESDAY, JUNE 12, 2018

This page lists the system requirements for Microsoft Dynamics GP 2016.

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

This table lists client requirements

Item	Requirements	
	32-bit	x64
Operating System	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
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 2013 32bit & x64 Microsoft Office 2016 32bit & x64	
Microsoft Office	<p>NOTES:</p> <ol style="list-style-type: none"> 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	

	SQL Native Client 11.0
	SQL Native Client 10.0
ODBC Driver	**NOTE: A 32bit ODBC DSN is required for Microsoft Dynamics GP 2016**
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)	Windows Server 2008 R2 Hyper-V
	Windows Server 2008 Hyper-V
	Software Virtualization
	Microsoft Application Virtualization (App-V) 5.0

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 [KnowledgeBase 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

This table lists server recommendations

Item	Requirements	
Customer Profile 1 Usage	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	
Database Requirements	32-bit	x64
	Microsoft SQL Server 2016	Microsoft SQL Server 2016
	-Enterprise, Standard or Express	-Enterprise, Standard or Express
	Microsoft SQL Server 2014	Microsoft SQL Server 2014
	-Enterprise, Standard or Express	-Enterprise, Standard or Express
	Microsoft SQL Server 2012	Microsoft SQL Server 2012
- Enterprise, Standard or Express	- Enterprise, Standard or Express	
Supported Microsoft SQL Server Collation	Supported Microsoft SQL Server Collation	
1. Dictionary Order Case Insensitive - Sort Order 52	1. Dictionary Order Case Insensitive - Sort Order 52	
In the SQL Server	In the SQL Server	
Management Studio, right-	Management Studio, right	
click the SQL Server Name	-click the SQL Server Name	
and click Properties: Server	and click Properties: Server	
Collation =	Collation =	
SQL_Latin1_General_CP1_CI_AS	SQL_Latin1_General_CP1_CI_AS	
2. Binary - Sort Order 50	2. Binary - Sort Order 50	
In the SQL Server	In the SQL Server	
Management Studio, right	Management Studio, right	
-click the SQL Server Name	-click the SQL Server Name	

	and click Properties: Server Collation = Latin1_General_BIN	and click Properties: Server Collation = Latin1_General_BIN
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
Processor	1 Dual Core or 2 Single Core Processors	1 Dual Core or 2 Single Core Processors
Minimum Available RAM	2 GB or more	2 GB or more
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

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

This table lists server recommendations for customer profile 2

Item	Requirements
Customer Profile 2 Usage	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

32-bit

Microsoft SQL Server 2016
-Enterprise, Standard or Express
Microsoft SQL Server 2014
-Enterprise, Standard or Express
Microsoft SQL Server 2012 -
Enterprise, Standard or Express

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 2008 Standard Edition SP2 or later
Microsoft Windows Small

x64

Microsoft SQL Server 2016
-Enterprise, Standard or Express
Microsoft SQL Server 2014
-Enterprise, Standard or Express
Microsoft SQL Server 2012 -
Enterprise, Standard or Express

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 Essentials Edition or Standard Edition
Microsoft Windows Server

Database Requirements

Operating System

	Business Server 2008 Premium Edition SP2 or later	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
Processor	1 Dual Core or 2 Single Core Processors	1 Dual Core or 2 Single Core Processors
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)
Minimum Available RAM	2 GB or more	2 GB or more
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

NOTES

1. The following are no longer supported with Microsoft Dynamics GP 2016:

a. Microsoft Office 2010 32bit & x64

2. Microsoft SQL 2008 Express and 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 Server 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

This table lists server recommendations for customer profile 3

Item	Requirements
Customer Profile 3 Usage	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

32-bit

x64

Microsoft SQL Server 2016

-Enterprise or Standard

Microsoft SQL Server 2014

Enterprise or Standard

Microsoft SQL Server 2012 -

Enterprise or Standard

Microsoft SQL Server 2016

-Enterprise or Standard

Microsoft SQL Server 2014

Enterprise or Standard

Microsoft SQL Server 2012 -

Enterprise or Standard

Supported Microsoft SQL

Supported Microsoft SQL

Server Collation

Server Collation

1. Dictionary Order Case

1. Dictionary Order Case

Insensitive - Sort Order

Insensitive - Sort Order 52

52

In the SQL Server

In the SQL Server Management

Management Studio,

Studio, right-click the SQL

right-click the SQL Server

Server Name and click

Name and click Properties:

Properties: Server Collation =

Server Collation =

SQL_Latin1_General_CP1_CI_AS

SQL_Latin1_General_CP1_CI_AS

2. Binary - Sort Order 50

2. Binary - Sort Order 50

In the SQL Server Management

In the SQL Server

Studio, right-click the SQL

Management Studio,

Server Name and click

right-click the SQL Server

Properties: Server Collation =

Name and click Properties:

Latin1_General_BIN

Server Collation = Latin1_General_BIN

Microsoft Windows Server

Microsoft Windows Server

2008 SP2 or later -

2016 Standard or Datacenter

Enterprise Edition or

Edition

Standard Edition

Microsoft Windows Server

**Database
Requirements**

**Operating
System**

		2012 Standard or Datacenter Edition
		Microsoft Windows Server 2012 R2 Standard or Datacenter Edition
		Microsoft Windows Server 2008 R2 Enterprise Edition or Standard Edition SP1 or later
		Microsoft Windows Server 2008 SP2 or later - Enterprise Edition or Standard Edition
Processor	1 Dual Core or 2 Single Core Processors	1 Dual Core or 2 Single Core Processors
	RAID 1 for operating system and applications (2 disks)	RAID 1 for operating system and applications (2 disks)
	RAID 1 for SQL database log files (2 disks)	RAID 1 for SQL database log files (2 disks)
Disk Configuration	RAID 5 (4 disk minimum) or RAID 0+1 (8 disk minimum) for SQL data files	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 1 for TempDB (2 disks) - optional, but recommended
	RAID 0 for SQL backups (full and log) (2 disks)	RAID 0 for SQL backups (full and log) (2 disks)
Minimum Available RAM	4 GB or more	4 GB 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>

NOTES

1. The following are no longer supported with Microsoft Dynamics GP 2016:
 - a. Microsoft Office 2010 32bit & x64
2. Verify processors can be upgraded.
3. Additional disks will improve Microsoft SQL Server performance.
4. 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.

Server Recommendations: Customer Profile 4

This table lists server recommendations for customer profile 4

Item

Requirements

**Customer
Profile 4
Usage**

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

x64

Microsoft SQL Server 2016
-Enterprise or Standard

Microsoft SQL Server 2016
-Enterprise or Standard

Microsoft SQL Server 2014
Enterprise or Standard Edition

Microsoft SQL Server 2014
Enterprise or Standard Edition

Microsoft SQL Server 2012 Enterprise or
Standard Edition

Microsoft SQL Server 2012 Enterprise or
Standard Edition

**Database
Requirements**

**Supported Microsoft SQL
Server Collation**

**Supported Microsoft SQL
Server Collation**

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

**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

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

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

Operating System

Microsoft Windows Server
2008 Enterprise 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 Edition
SP1 or later
Microsoft Windows Server
2008 Enterprise Edition
SP2 or later

Processor

2 Dual Core or 4 Single Core
Processors

2 Dual Core or 4 Single Core
Processors

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 0+1 for data files (8
disks or more)

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)

Minimum Available RAM	8 GB or more	8 GB or more
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	

NOTES

1. The following are no longer supported with Microsoft Dynamics GP 2016:
 - a. Microsoft Office 2010 32bit & x64
2. Verify processors can be upgraded to 8 processors.
3. Additional disks will improve Microsoft SQL Server performance.
4. 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](https://support.microsoft.com/kb/897615) Support policy for Microsoft software running in non-Microsoft hardware virtualization software.

Remote Desktop Services Requirements

Item	Requirements	
	32-bit	x64
Operating System	<p>Microsoft Windows Server 2008 SP2 or later - Enterprise Edition or Standard Edition</p>	<p>Microsoft Windows Server 2016 Datacenter Edition</p> <p>Microsoft Windows Server 2012 Datacenter Edition</p> <p>Microsoft Windows Server 2012 R2 Datacenter Edition</p> <p>Microsoft Windows Server 2008 R2 SP1 or later - Enterprise Edition or Standard Edition</p> <p>Microsoft Windows Server 2008 SP2 or later - Enterprise Edition or Standard Edition</p>
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
Disk Configuration	RAID 1 for operating system and applications (2 disks)	RAID 1 for operating system and applications (2 disks)
Minimum Available RAM	4 GB – Up to 15 concurrent users	4 GB – Up to 15 concurrent users
	8 GB – Up to 30 concurrent users	8 GB – Up to 30 concurrent users

16 GB – Up to 60 concurrent users	16 GB – Up to 60 concurrent users
--------------------------------------	--------------------------------------

**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 Hyper-V

Windows Server 2008 R2 Hyper-V

Software Virtualization

Microsoft Application Virtualization (App-V) 5.0

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
3. [View 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 Server 2008 Hyper-V, Microsoft Application Virtualization (App-V) 5.0.

4. The Microsoft Dynamics GP 2016 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. If you have questions regarding licensing SQL Server for use with Microsoft Dynamics GP. Please contact a Licensing Specialist at 1-800-426-9400.