

# System Requirements for Microsoft Dynamics GP 2018

LAST MODIFIED THURSDAY, APRIL 18, 2019

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

## 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
<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	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	Ultimate Edition Microsoft Windows 8 & 8.1 Enterprise Edition Microsoft Windows 7 Professional Edition Microsoft Windows 7 Ultimate Edition Microsoft Windows 7 Enterprise Edition
<b>Processor</b>	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>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>	<p>NOTES:</p> <ol style="list-style-type: none"> <li>1. If using Office x64, the server type in System Preferences (Microsoft Dynamics GP   Tools   System   Setup   System Preferences) must be set to Exchange.</li> <li>2. The Exchange server type only supports XPS and DOCX.</li> <li>3. If using Office 32bit, the server type in System Preferences can either be MAPI or Exchange</li> </ol>	

<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  <b>**NOTE:</b> A 32bit ODBC DSN is required for Microsoft Dynamics GP 2018**
<b>Adobe</b>	Adobe X
<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

## 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.

# Server Recommendations: Customer Profile 1

<p>Item</p> <p><b>Customer Profile 1 Usage</b></p>	<p><b>Requirements</b></p> <p>Use only Financial Series modules</p> <p>Have between 0-5 concurrent users for Microsoft SQL Server or for Microsoft SQL Server Express</p> <p>Process fewer than 250 transactions per day</p> <p>No web applications in use</p> <p>Peer to Peer Environment</p>	
	<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>2. Binary - Sort Order 50</b></p> <p>In the SQL Server Management Studio, right</p>	<p><b>x64</b></p> <p>Microsoft SQL Server 2017 -Enterprise, Standard or Express 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>2. Binary - Sort Order 50</b></p> <p>In the SQL Server Management Studio, right</p>
<p><b>Database Requirements</b></p>		

**Operating System**

-click the SQL Server Name  
and click Properties:  
Server Collation = Latin1\_General\_BIN

-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  
2012 Essentials Edition or  
Standard Edition  
Microsoft Windows Server  
2012 R2 Essentials Edition or  
Standard Edition

**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  
  
Software Virtualization  
Microsoft Application Virtualization (App-V) 5.0

## 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.
4. If you are going to deploy Intelligent Cloud Insights for Microsoft Dynamics GP, you need to be on Microsoft SQL Server 2016 or later to meet the Compatibility Level 130 required with the April release.

## Server Recommendations: Customer Profile 2

Item	Requirements	
	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	
<b>Customer Profile 2</b>	Report Writer, Crystal Reports, or Management Reporter	
<b>Usage</b>	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	
	<b>32-bit</b>	<b>x64</b>
<b>Database Requirements</b>	Microsoft SQL Server 2017 -Enterprise, Standard or Express	Microsoft SQL Server 2017 -Enterprise, Standard or Express

**Operating  
System**

Microsoft SQL Server 2016  
-Enterprise, Standard or Express

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

Microsoft SQL Server 2014  
-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  
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	

## 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.

5. If you are going to deploy Intelligent Cloud Insights for Microsoft Dynamics GP, you need to be on Microsoft SQL Server 2016 or later to meet the Compatibility Level 130 required with the April release.

## 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	
<b>Database Requirements</b>	-Originating in Sales (SOP and/or RM), Payables or General Ledger	
	Dedicated Microsoft SQL Server	
	<b>32-bit</b>	<b>x64</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
	-Enterprise or Standard	-Enterprise or Standard
	Microsoft SQL Server 2014	Microsoft SQL Server 2014
	Enterprise or Standard	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 the SQL Server Name and click Properties: Server Collation = Latin1\_General\_BIN

**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 Standard or Datacenter Edition

Microsoft Windows Server 2012 Standard or Datacenter Edition

Microsoft Windows Server 2012 R2 Standard or Datacenter Edition

**Operating System**

**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 1 for operating system and applications (2 disks)  
RAID 1 for SQL database log files

RAID 1 for SQL database log files (2 disks)	(2 disks)
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**

4 GB or more

4 GB or more

**RAM**

**Network**

**Card**

1GB Ethernet

Hardware Virtualization

**Virtual**

**Environments**

**Supported**

**(Optional)**

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

**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.

5. If you are going to deploy Intelligent Cloud Insights for Microsoft Dynamics GP, you need to be on Microsoft SQL Server 2016 or later to meet the Compatibility Level 130 required with the April release.

## 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	
<b>Database Requirements</b>	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	
	<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 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	
<b>Supported Microsoft SQL</b>	<b>Supported Microsoft SQL</b>	

## 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

## 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

## Operating System

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

## 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 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 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	

## 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.
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.

5. If you are going to deploy Intelligent Cloud Insights for Microsoft Dynamics GP, you need to be on Microsoft SQL Server 2016 or later to meet the Compatibility Level 130 required with the April release.

## Remote Desktop Services Requirements

Item	Requirements	
	32-bit	x64
<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	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

<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

## 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.

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