Microsoft Dynamics GP

System Requirements for Microsoft Dynamics GP Web Components

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

Overview

This section contains the server recommendations and client workstation requirements for Microsoft Dynamics GP Web client and Microsoft Dynamics GP Service Based Architecture supported by the Microsoft Dynamics GP Technical Support Team.

Web Client

The Microsoft Dynamics GP Web Client provides access to Microsoft Dynamics GP through a web browser. The user experience and functionality provided by the Microsoft Dynamics GP Web Client closely matches the experience of using the Microsoft Dynamics GP desktop client.

No client application software is installed on the user's local system. The Microsoft Dynamics GP application process for the user is running on a separate server.   The web browser on the user's computer presents the application.

Service Based Architecture (SBA)

The Microsoft Dynamics GP Service Based Architecture enables REST based integrations to Microsoft Dynamics GP. The functionality existing in dictionaries is exposed as a service call.

The web components software is installed on one or more servers using one of three deployment configurations outlined below and documented in the Web Components Installation and Administration Guide.

SQL Server Reporting Services (SSRS)

The SQL Server Reporting Services (SSRS) reports that rely on SQL Views as a data source are only

supported with English installs of Microsoft Dynamics GP. However, Customers have the option of translating the reports themselves or creating new reports.

The report deployment with SQL Reporting Services is supported with the following:

SQL Server 2014 Standard or Enterprise Edition

SQL Server 2016 Standard or Enterprise Edition

The SQL Reporting Services Reports may be deployed on the SQL Server depending on security and performance concerns.

Power BI with Microsoft Dynamics GP

This is only tested/supported with Power BI Pro.

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

Deployment Configurations

Single Machine	Scale Out	Multi-tenant
In this configuration, all of the web components are installed on a single server.	In this configuration the Web Server and Session Server (Session Host) components are installed on different servers. There can be any number of web and session servers deployed depending on the number or web component users and redundancy needs.	This configuration is similar to the scale out configuration but is set up for access by multiple customer organizations. The server recommendations remain the same as the scale out configuration for the Web Server and Session Server.

Single Machine Recommendations

Item	Requirements
Operating System	Microsoft Windows Server 2019 - Datacenter Edition (18.2.1013 GP version or later) Microsoft Windows Server 2016 - Datacenter Edition Microsoft Windows Server 2012 and 2012 R2 - Datacenter Edition Enterprise Edition or Standard Edition
Processor	1 Quad Core or 2 Dual Core Processors or higher (see note 7)
Minimum Available RAM	4 GB – Up to 25 concurrent web client users 8 GB – Up to 60 concurrent web client users 16 GB – Up to 120 concurrent web client users

	(for SBA sizing see note 9)
Network Card	1GB Ethernet or Fiber
Bandwidth Consideration	Planning Average: 25 Mbps(Megabytes/sec) per active Web Client user with spikes up to 250 Mbps per active Web Client user (see note 5)
Internet Information Services (IIS) (Web Client only)	IIS 10.0 IIS 8.0 IIS 7.5 IIS 8.5
Other Applications	.Net Framework 4.5.1+, 4.6 ASP.Net 4.0+ SQL Native Client 10.0 or 11.0 Adobe Reader (Required to read or print manuals)
Back Office Server	All deployments require a dedicated Microsoft SQL Server. Refer to the Microsoft Dynamics GP System Requirements
Windows License Guidance	Microsoft Dynamics GP Web Components requires both Microsoft Windows Server and Microsoft SQL Server. Microsoft Windows Server and Microsoft SQL Server – and their corresponding Client Access Licenses (CALs) are not included with Microsoft Dynamics GP. They must be acquired separately in accordance with the applicable licensing requirements for these products. These licenses may be purchased through traditional Microsoft Volume Licensing channels.

NOTES

1. The web server computer name cannot contain an underscore (_).

2. English language operating system required.

3. Hyper threading can be enabled for the processors.

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 to view the Support policy for Microsoft software running in non-Microsoft hardware virtualization software Microsoft Knowledge Base: 897615.

5. Sustained bandwidth utilization will increase with SmartList data exports and printing large Word Template documents (Web Client only).

6. Microsoft Dynamics GP Web Components must be installed in a domain environment

7. Processor requirements are minimums and will need to increase as number of concurrent web client users increase per machine.

8. It is recommended you avoid executing consecutive Service Based Architecture (SBA) Get List requests of 1,000 or more records. This could impact the performance of other SBA requests as well as the

performance of the Web Client product if both products are on the same session host machine.

9. Refer to the following KB article 3035914 for service based architecture sizing.

Scale Out Recommendations

Web Server(s)

Item	Requirements
Operating System	Microsoft Windows Server 2019 - Datacenter Edition
	(18.2.1013 GP version or later)
	Microsoft Windows Server 2016 - Datacenter Edition
	Microsoft Windows Server 2012 and 2012 R2 - Datacenter Edition
	Enterprise Edition or Standard Edition
Processor	1 Dual Core Processor or higher
Minimum Available RAM	4 GB or more
Network Card	1 GB Ethernet or Fiber
Internet Information Services (IIS) (Web Client only)	IIS 10.0 IIS 8.0 IIS 7.5 IIS 8.5
Other Applications	.Net Framework 4.5.1+, 4.6 ASP.Net 4.0+ SQL Native Client 10.0 or 11.0
Back Office Server	All deployments require a dedicated Microsoft SQL Server. Refer to the Microsoft Dynamics GP System Requirements
Windows License Guidance	Microsoft Dynamics GP Web Components requires both Microsoft Windows Server and Microsoft SQL Server. Microsoft Windows Server and Microsoft SQL Server – and their corresponding Client Access Licenses (CALs) are not included with Microsoft Dynamics GP. They must be acquired separately in accordance with the applicable licensing requirements for these products. These licenses may be purchased through traditional Microsoft Volume Licensing channels.

Session Server(s)

Item	Requirements
Operation System	Microsoft Windows Server 2019 - Datacenter Edition
	(18.2.1013 GP version or later)
	Microsoft Windows Server 2016 - Datacenter Edition
	Microsoft Windows Server 2012 and 2012 R2 - Datacenter Edition

	Enterprise Edition or Standard Edition
Processor	1 Quad Core or 2 Dual Core Processors or higher (see note 8)
Minimum Available RAM	4 GB – Up to 25 concurrent web client users 8 GB – Up to 60 concurrent web client users 16 GB – Up to 120 concurrent web client users (for SBA sizing see note 10)
Network Card	1 GB Ethernet or Fiber
Bandwidth Consideration	Planning Average: 25 Mbps (Megabytes/sec) per active Web Client user with spikes up to 250 Mbps per active Web Client user (see note 5)
Other Applications	.NET Framework 4.5.1+, 4.6 SQL Native Client 10.0 or 11.0 Adobe Reader (Required to read or print manuals)
Back Office Server	All deployments require a dedicated Microsoft SQL Server. Refer to the Microsoft Dynamics GP System Requirements
Windows License Guidance	Microsoft Dynamics GP Web Components requires both Microsoft Windows Server and Microsoft SQL Server. Microsoft Windows Server and Microsoft SQL Server – and their corresponding Client Access Licenses (CALs) are not included with Microsoft Dynamics GP. They must be acquired separately in accordance with the applicable licensing requirements for these products. These licenses may be purchased through traditional Microsoft Volume Licensing channels.

NOTES

1. The web server computer name cannot contain an underscore (_).

2. English language operating system required.

3. Hyper threading can be enabled for the processors.

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. Sustained bandwidth utilization will increase with SmartList data exports and printing large Word Template documents (Web Client only).

6. Microsoft Dynamics GP Web Components must be installed in a domain environment

7. The Web Site, Web Client Management Console, Session Central Service, and GP Service are typically installed on the Web Server.

8. Processor requirements are minimums and will need to increase as number of concurrent web client users increase per machine.

9. It is recommended you avoid executing consecutive Service Based Architecture (SBA) Get List requests of 1,000 or more records. This could impact the performance of other SBA requests as well as the performance of the Web Client product if both products are on the same session host machine.

10. Refer to the following KB article 3035914 for service based architecture sizing.

Client Requirements

Item	Requirements	
	32-bit	X64
Operation System	Microsoft Windows 10 Professional Edition	Microsoft Windows 10 Professional 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
Minimum Available RAM	2 GB or more	2 GB or more
Microsoft SharePoint	Microsoft SharePoint Foundation 2013 Microsoft SharePoint Server 2013 Microsoft SharePoint Server 2016	
Bandwidth Consideration	Planning Average: 50 Kilobytes (KB)/sec (see note 5)	Planning Average: 50 Kilobytes (KB)/sec (see note 5)
Web Browsers	Internet Explorer 11.0 – Desktop Mode Only Edge Chrome 48.0.2564.116 and higher Firefox Safari and iPad Safari	
Microsoft Office	Microsoft Office 2013 32bit or x64 Microsoft Office 2016 32bit or x64Microsoft Office 2019 32bit or x64 (18.2.1013 GP version or later)	
Other Applications	.Net Framework 4.0 or later	

Additional Information

1. This document represents configurations tested by Microsoft Business Solutions and supported by Microsoft Dynamics 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. If you use antivirus software, consider its requirements when you're calculating processor and RAM requirements for your business.

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

4. To review an article regarding support in a virtual environment.
The following virtual products have been tested: Microsoft Windows Server 2019 Hyper-V, Microsoft Windows Server 2016 Hyper-V, Microsoft Windows Server 2012 Hyper-V, Microsoft Application Virtualization 4.6. For additional Virtual Technology Support, click the link below to review the Virtualization Support Policy Wizard.
Choose Dynamics GP as the product.

5. The bandwidth consideration is the minimum recommended average bandwidth available from the client computer to the Session Server. Bandwidth utilization will increase with SmartList data exports and printing large Word Template documents.

Support Information

For technical support questions, contact your partner or, if enrolled in a support plan directly with Microsoft, you can enter a new support request to Microsoft Dynamics® Technical Support from Customer Source or Partner Source under Support >> **New Support Request**.

You can also contact Microsoft Dynamics® Technical Support by phone using these links for country specific phone numbers.
Partners - Global Support Contacts (requires Partner Source login)
Customers - Global Support Contacts (requires Customer Source login)