

Great Plains 9.0 Minimum, Midpoint, High End Hardware Recommendations

Overview:

This document contains the minimum client hardware requirements, server recommendations and Terminal Server minimum hardware requirements supported by Microsoft Business Solutions. The following are for the client/server installations of Microsoft Dynamics GP 9.0 Professional/Standard on Microsoft SQL Server or MSDE/Express. 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.

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Client Requirements:

Item	Requirements	Notes
Operating System	Microsoft Windows XP Professional SP 2, Microsoft Windows XP Tablet PC Edition, Microsoft Windows 2000 Professional SP 4	The Microsoft Windows XP Tablet PC Edition is only supported on a client connected to the Local Area Network. The wireless components of Microsoft Windows XP Tablet PC Edition are not supported or recommended.
Processor Available	Pentium III 1.2 GHz (or equivalent)	
Hard Disk Space	600 MB or more on the system root	
RAM	256 MB (512 Recommended)	
Network Card	100 Base T or 1000 Base T Ethernet	

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Server Recommendations:

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.

Customer Profile 1

Use the following guidelines if you:

- Use only Financial Series modules

- Have between 0-15 concurrent users for Microsoft SQL Server or 0-10 concurrent users for MSDE 2000

- Use Report Writer, Crystal Reports or FRx

- Process fewer than 500 transactions per day

- Import very little data

- Dedicated server with Microsoft SQL Server only

- Recommend a dedicated server with MSDE 2000/Express only

Database Requirements

Microsoft SQL Server 2000 Standard Edition SP 4

Microsoft SQL Server 2000 Workgroup Edition SP 4

MSDE 2000 SP 4

Microsoft SQL Server 2005 Standard Edition 32-bit

Microsoft SQL Server 2005 Workgroup Edition

Microsoft SQL Server 2005 Express Edition

Item	Requirements	Notes
Operating System	Microsoft Windows 2000 Server SP 4, Microsoft Windows Server 2003 Standard Edition SP 1, Microsoft Windows 2000 Small Business Server SP 4, Microsoft Windows Small Business Server 2003 Premium Edition	MSDE 2000/Express can be installed on a non-server operating system, however it is recommended to install on a server operating system. The only non-server operating systems supported are Microsoft Windows XP Professional SP 2 and Microsoft Windows 2000 Professional SP 4. Refer to # 5 in the Additional Notes section below.

	SP 1, Microsoft Windows Small Business Server 2003 Standard Edition SP 1 (MSDE ONLY)	
Processors	Dual Pentium IV 2.4 GHz (or equivalent)	Make sure processors can be upgraded
Disk Configuration	Minimum: RAID 5 for operating system, applications and SQL database log and data files	Having more disks available will improve Microsoft SQL Server performance
Microsoft SQL Server only	Recommended: RAID 1 for operating system and applications RAID 5 for SQL database log and data files	Recommend using a dual-channel fast and wide SCSI-2 controller. RAID configurations are not required for an MSDE 2000/Express installation, however it can be implemented.
RAM	1GB or greater	
Network Card	32-bit, 10/100 MB Ethernet Full Duplex	

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Customer Profile 2

Use these guidelines if you:

- Use Financials Series modules
- Use Distribution Series modules moderately
- Use Field Service Series modules
- Use Manufacturing Series modules moderately
- Have between 10 and 30 concurrent users
- Use Terminal Server
- Use Report Writer, Crystal Reports or FRx
- Perform some online analytical processing (OLAP) cube generation
- Using an import routine/eConnect/Integration Manager
- Process between 500 and 2000 transactions per day
- Originating in Sales (SOP and/or RM), Payables or General Ledger
- Dedicated server with Microsoft SQL Server only

Database Requirements

Microsoft SQL Server 2000 Enterprise Edition SP 4
 Microsoft SQL Server 2000 Standard Edition SP 4
 Microsoft SQL Server 2000 Workgroup Edition SP 4
 Microsoft SQL Server 2000 (64-bit) SP 4
 Microsoft SQL Server 2005 Enterprise Edition 32-bit and 64-bit
 Microsoft SQL Server 2005 Standard Edition 32-bit and 64-bit
 Microsoft SQL Server 2005 Workgroup Edition

Item	Requirements	Notes
Operating System	Microsoft Windows 2000 Server SP 4, Microsoft Windows 2000 Advanced Server SP 4, Microsoft Windows Server 2003 Standard Edition SP 1, or Microsoft Windows Server 2003 Enterprise Edition SP 1	
Processors	Dual Xeon 2.4 GHz (or equivalent)	Make sure processors can upgrade to Quad processors
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 10 (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)	Having more disks available will improve Microsoft SQL Server performance To attain 2000 transactions a day, you may need to increase the number of disks in your RAID 5 disk volume Recommend separate disks for database backups and transaction log dumps Recommend use of Ultra SCSI 3 or Fiber Controller
RAM	2 GB or more	If more than 2 GB of RAM is available, enable the 3GB and/or PAE switch in the boot.ini if Windows 2000 Advanced Server, Windows Server 2003 Standard Edition or Windows Server 2003 Enterprise Edition and SQL

		Server Enterprise Edition are installed. Refer to Article Q283037 for more information. Be sure to expand to 4GB if necessary.
Network Card	Dual 100-bit 10/100 MB Ethernet or Fiber PCI NIC	Ensure switch is capable of handling network traffic

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Customer Profile 3

Use these guidelines if you:

- Use Financials Series and Distribution Series modules extensively
- Use Field Service Series and Manufacturing Series modules extensively
- Have 25 or more concurrent users
- Use Terminal Server/Metaframe
- Use Report Writer, Crystal Reports or FRx extensively
- Use an import routine extensively - eConnect
- Process 2000/5000 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 server with Microsoft SQL Server only

Database Requirements

Microsoft SQL Server 2000 Enterprise Edition SP 4

Microsoft SQL Server 2000 (64-bit) SP 4

Microsoft SQL Server 2005 Enterprise Edition 32-bit and 64-bit

Item	Requirements	Notes
Operating System	Microsoft Windows 2000 Advanced Server SP 4, Microsoft Windows Server 2003 Standard Edition SP 1, or Microsoft Windows Server 2003 Enterprise Edition SP 1	
Processors	Quad Xeon 2.4 GHz (or equivalent)	Make sure processors can be upgraded to 8 processors or higher
Disk Configuration	RAID 1 for operating system and applications	Having more disks available will improve Microsoft SQL

	(2 disks) RAID 1 for SQL database log files (4 disks) RAID 1 for TempDB (4 disks) RAID 0 for SQL backups (full and log) (2 disks) RAID 10 for data files (8 disks or more)	Server performance To attain 5000 transactions a day, you may need to increase the number of disks in your RAID 5 or RAID 10 disk volume Recommend separate disks for database backups and transaction log dumps Recommend use of Ultra SCSI 3 or Fiber Controller
RAM	4 GB or more	Enable the 3GB and/or PAE switch in the boot.ini if Windows 2000 Advanced Server, Windows Server 2003 Standard Edition or Windows Server 2003 Enterprise Edition and SQL Server Enterprise Edition are installed. Refer to Article Q283037 for more information. Be sure expand to 8G if necessary.
Network Card	Single 1000 Base T Ethernet or Fiber PCI NIC	Ensure switch is capable of handling network traffic

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Terminal Server Requirements

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.

Database Requirements

Microsoft SQL Server 2000 Enterprise Edition SP 4

Microsoft SQL Server 2000 Standard Edition SP 4

Microsoft SQL Server 2000 Workgroup Edition SP 4

Microsoft SQL Server 2000 (64-bit) SP 4

MSDE 2000 SP 4

Microsoft SQL Server 2005 Enterprise Edition 32-bit and 64-bit

Microsoft SQL Server 2005 Standard Edition 32-bit and 64-bit

Microsoft SQL Server 2005 Workgroup Edition

Microsoft SQL Server 2005 Express Edition

Item	Requirements	Notes
Operating System	Microsoft Windows 2000 Server SP 4, Microsoft Windows 2000 Advanced Server SP 4, Microsoft Windows Server 2003 Standard Edition SP 1, or Microsoft Windows Server 2003 Enterprise Edition SP 1	
Citrix (Optional)	Citrix Metaframe XP SP 2, Citrix Presentation Server 3.0, Citrix Presentation Server 4.0	If accessing Citrix, the hardware and software must be supported according to the Citrix configuration requirements.
Processors	Dual Pentium IV 2.4 GHz (or equivalent)	Make sure processors can be upgraded to 8 processors or higher
Disk Configuration	RAID 1 for operating system and applications (2 disks)	
RAM	1 GB or more	The amount of RAM needed depends on the number of concurrent users per Terminal Server.
Network Card	Single/Dual 100 Base T or 1000 Base T Ethernet or Single Fiber PCI NIC	Recommend no more than 25 users per 100 Base T network card, unless a Fiber NIC is installed. If a Fiber NIC is installed, the SQL Server should also have a Fiber NIC installed for optimal network performance. Ensure switch is capable of handling network traffic
Users	Based on 15-20 users per Terminal Server	Increased user count may require greater RAM and Processor speed Users utilizing FRx or Crystal reporting via Terminal Services may require increased hardware to boost performance.

Additional Notes:

1. This document represents configurations tested by Microsoft Business Solutions and supported by 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, they will be added to this document.
2. Office 2000, Office XP and Office 2003 have been tested and are supported with Microsoft

Dynamics GP 9.0.

3. Microsoft Dynamics GP client application install is not compiled for a 64-bit operating system, therefore the application install is not supported on any Windows 64-bit operating system. This includes the new x64 Windows 2003 and Windows XP operating systems. The Microsoft SQL Server databases can be housed on a 64-bit operating system.

4. Microsoft Dynamics GP 9.0 has not been tested with VMWare, Virtual Server or any virtual machine technology; therefore, Microsoft Business Solutions-Great Plains is not supported in any virtual machine environment.

5. Intel Pentium processors are used in platform testing, however, the compatibility is based on the speed of the processor not the type of processor.

6. If running MSDE 2000 on Windows XP that has Service Pack 2 or SQL Server on Windows Server 2003 Service Pack 1, refer to the following KB article. You may need to enable port 1433 for TCP/IP in the Windows Firewall to ensure the incoming ODBC requests are accepted.

<http://support.microsoft.com/default.aspx?scid=kb;en-us;842242&Product=winxp>