

## Purpose

The requirements listed here are the recommended minimum system requirements for Microsoft Dynamics® SL version 7.0. These recommendations are provided for initial planning purposes only and cannot be substituted for a thorough system evaluation by your Microsoft Certified Partner. The optimal system configuration requires consideration of your organization's specific business data requirements and growth plans. Typically, hardware requirements increase as the number of users accessing the application and the amount of data stored in the database increase. Better hardware (for example, more megabytes of RAM or faster processors) can result in better performance and productivity. Conversely, insufficient hardware may result in substandard performance.

## Outline

This document contains the following sections:

- A. Microsoft Dynamics SL Requirements – File Server, Database Server, Client, and Single-user Environments
- B. Business Portal for Microsoft Dynamics SL
- C. Microsoft Dynamics SL Remote Connectivity Requirements
- D. Microsoft Dynamics SL Software Development Kit (SDK) (formerly known as Microsoft Dynamics SL Tools for Visual Basic) Requirements
- E. FRx® Report Designer Requirements
- F. Order Management Process Manager Configuration and Seat Requirements
- G. Requirements for All Installations
- H. Application Server (96.010.00) Requirements
- I. Application Server E-mail Requirements
- J. Microsoft Office Project Connector for Microsoft Dynamics SL Requirements
- K. BIO™ and BIO™ Vue for Microsoft Dynamics SL

## Items Not Covered in the Guide

This document does not include requirements or recommendations, explicitly or implied, unless otherwise stated, for the following products. This list is not inclusive of all products that integrate, share data, or in any other way work with Microsoft Dynamics SL. The requirements and recommendations listed in this guide are specific to Microsoft Dynamics SL as needed to install on top of Windows operating systems. Refer to the specific operating system requirements and recommendations for further details on the respective configuration information.

Refer to the configuration guides specific to these or other software applications for additional configuration information.

- Microsoft® Retail Management Systems
- Microsoft® Customer Relationship Management
- Microsoft® Office
- Microsoft® MapPoint®
- Microsoft® Project 2003
- Microsoft® Project 2007

## A. Microsoft Dynamics SL Requirements – File Server, Database Server, Client, and Single-user Environments

You may experience improved server performance by having separate application and database servers. The file server requirements pertain to a server that hosts only the Microsoft Dynamics SL application files and does not serve as a Web server. If you plan to run Business Portal, refer to the Business Portal for Microsoft Dynamics SL requirements for the Web server.

The different servers in your Microsoft Dynamics SL environment do not need to be configured identically. For example, the database server could be running Microsoft Windows Server® 2008<sup>1</sup> Enterprise Edition and Microsoft SQL Server® 2005 SP1, while the file server could be running Windows Server 2003 Standard Edition SP2 and SQL Server 2005 client component management tools.

Microsoft Dynamics SL 7.0 FP1 and Microsoft Dynamics SL 7.0 SP2 or later support Microsoft Windows Server 2008 Hyper-V. Performance in this virtual server environment will vary based on and not limited to processor, amount of RAM, number of virtual machines you set up, or other software you are running.

### File Server

Component	Requirement
Processor	<ul style="list-style-type: none"> <li>1 GHz (x86 processor) or 1.4 GHz (x64 processor) or faster</li> </ul>
RAM	<ul style="list-style-type: none"> <li>1 GB or greater</li> </ul>
Disk space	<ul style="list-style-type: none"> <li>2 GB of available<sup>2</sup> hard disk space (assumes that all application modules and client will be installed)</li> </ul>
Operating system	<p>One of the following:</p> <ul style="list-style-type: none"> <li>Microsoft Windows Server 2008 Standard and Enterprise Edition, 32-bit and 64-bit <b>Note:</b> The 64-bit option supports installing Microsoft Dynamics SL 7.0 FP1 in the WOW folder.</li> <li>Microsoft Windows Server 2003 Standard Edition R2 or Microsoft Windows Server 2003 Standard Edition SP2, 32-bit and 64-bit <b>Note:</b> The 64-bit option supports installing Microsoft Dynamics SL 7.0 FP1 in the WOW folder.</li> <li>Microsoft Small Business Server 2003 Premium Edition<sup>3</sup> SP2 or Small Business Server 2003 Premium Edition R2 (SQL Server Workgroup Edition is supported only in this scenario.)</li> <li>Microsoft Windows Vista® SP1 Business, Ultimate, or Enterprise Editions (32-bit only)</li> <li>Microsoft Windows XP<sup>4</sup> Professional SP3 (32-bit only)</li> </ul>
Drive	<ul style="list-style-type: none"> <li>DVD-ROM</li> </ul>
Display	<ul style="list-style-type: none"> <li>Monitor with a resolution of 1024 x 768 or higher</li> </ul>

<sup>1</sup> Refer to KB article 848157 for additional information regarding optimizing the operating system you choose.

<sup>2</sup> In addition to what is required for the operating system and other programs on the server

<sup>3</sup> Application Server and the Report Scheduler functionality within Business Portal will not run (and are not supported) on Small Business Server 2003 Premium Edition because they do not support a domain controller, which Small Business Server 2003 Premium Edition is.

<sup>4</sup> Web Order is not supported on Windows XP or Windows Vista.

## Database Server(s)<sup>5</sup>

Component	Requirement
Processor	<ul style="list-style-type: none"> <li>1 GHz (x86 processor) or 1.4 GHz (x64 processor) or faster</li> </ul>
RAM	<ul style="list-style-type: none"> <li>1 GB or greater</li> </ul>
Disk space	<ul style="list-style-type: none"> <li>600 MB of available<sup>6</sup> hard disk space plus database size (the amount of space to allocate for data varies, depending on the number of databases, amount of retention, and transaction volume)</li> </ul>
Operating system	One of the following: <ul style="list-style-type: none"> <li>Windows Server 2008 Standard and Enterprise Edition (32-bit and 64-bit)</li> <li>Windows Server 2003 Standard Edition R2 or Windows Server 2003 Standard Edition SP2 (32-bit or 64-bit)</li> <li>Small Business Server 2003 Premium Edition<sup>7</sup> SP2 or Small Business Server 2003 Premium Edition R2 (SQL Server Workgroup Edition is supported only in this scenario.)</li> </ul>
Drive	<ul style="list-style-type: none"> <li>CD-ROM or DVD-ROM</li> </ul>
Display	<ul style="list-style-type: none"> <li>Monitor with a resolution of 1024 x 768 or higher</li> </ul>
Database	One of the following: <ul style="list-style-type: none"> <li>SQL Server 2005 SP2 Standard or Enterprise Edition (32-bit and 64-bit)</li> <li>SQL Server 2008 Standard or Enterprise Edition (32-bit and 64-bit)<sup>8,9</sup></li> </ul>
Other	<ul style="list-style-type: none"> <li>For Reporting Services, you need Microsoft<sup>®</sup> Internet Information Services (IIS) 6.0 or later, and ASP.NET 2.0 or later</li> </ul>

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<sup>5</sup> If utilizing separate database servers for multiple application databases, each database server must have the appropriate Microsoft software licenses and a Microsoft Dynamics SL system database. The use of this configuration must conform to Microsoft Dynamics SL licensing requirements and some multi-company restrictions will apply. Note that Application Server in Microsoft Dynamics SL does not support Small Business Server 2003.

<sup>6</sup> In addition to what is required for the operating system, database, and other programs on the server

<sup>7</sup> Application Server and the Report Scheduler functionality within Business Portal will not run (and are not supported) on Small Business Server 2003 Premium Edition because they do not support a domain controller, which Small Business Server 2003 Premium Edition is.

<sup>8</sup> If using Business Portal, Dynamics SL 7.0 FP1 is required to support SQL Server 2008.

<sup>9</sup> Dynamics SL 7.0 FP1 supports SQL compatibility mode 80 and 90. The product defaults to 80. SQL compatibility mode 100 is unsupported.

## Client Workstations

Component	Requirement
Processor	<ul style="list-style-type: none"><li>• 1GHz 32-bit processor or faster</li></ul>
RAM	<ul style="list-style-type: none"><li>• 1 GB or greater</li></ul>
Disk space	<ul style="list-style-type: none"><li>• 300 MB of available hard disk space in addition to what is required for the operating system and other programs on the workstation</li></ul>
Operating system	One of the following: <ul style="list-style-type: none"><li>• Windows Server 2008 Standard and Enterprise Edition (32-bit and 64-bit) (Note: 64-bit option supports Dynamics SL 7.0 FP1 being installed in the WOW folder)</li><li>• Windows Server 2003 Standard Edition R2 (32-bit and 64-bit) or Microsoft Windows Server 2003 Standard Edition SP2 (32-bit and 64-bit) (Note: 64-bit option supports Dynamics SL 7.0 FP1 being installed in the WOW folder)</li><li>• Windows Vista™ SP1 Business, Ultimate or Enterprise (32-bit only)</li><li>• Windows XP Professional SP3 (32-bit only)</li></ul>
Display	<ul style="list-style-type: none"><li>• Monitor with a resolution of 1024 x 768 or higher</li></ul>
Applications	<ul style="list-style-type: none"><li>• Optional installation of Microsoft SQL Server 2005 Client Component Management Tools</li><li>• Optional installation of Microsoft Office 2007<sup>10</sup></li></ul>

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<sup>10</sup> Microsoft Dynamics SL 7.0 and 7.0 SP1 Project Connector requires Microsoft Project Server 2003 and Microsoft Dynamics SL 7.0 FP1 Project Connector requires Microsoft Project Server 2007.

## Single-user Installation (without Business Portal<sup>11</sup>)

Component	Requirement
Processor	<ul style="list-style-type: none"> <li>1 GHz (x86 processor) or 1.4 GHz (x64 processor) or faster</li> </ul>
RAM	<ul style="list-style-type: none"> <li>1 GB minimum (2 GB recommended)</li> </ul>
Disk space	<ul style="list-style-type: none"> <li>1 GB of available<sup>12</sup> hard disk space (assuming all application modules and client will be installed)</li> </ul>
Operating system <sup>13</sup>	<p>One of the following:</p> <ul style="list-style-type: none"> <li>Windows Server 2008 Standard and Enterprise Edition (32-bit and 64-bit) (Note: 64-bit option supports Dynamics SL 7.0 FP1 being installed in the WOW folder)</li> <li>Windows Server 2003 Standard Edition R2 or Windows Server 2003 Standard Edition SP2 (32-bit and 64-bit) (Note: 64-bit option supports Dynamics SL 7.0 FP1 being installed in the WOW folder)</li> <li>Small Business Server 2003 Premium Edition R2 or Small Business Server 2003 Premium Edition SP2 (SQL Server Workgroup Edition is supported only in this scenario.)</li> <li>Windows Vista SP1 Business, Ultimate or Enterprise Editions (32-bit only)</li> <li>Windows XP Professional SP3 (32-bit only)</li> </ul>
Drive	<ul style="list-style-type: none"> <li>DVD-ROM</li> </ul>
Display	<ul style="list-style-type: none"> <li>Monitor with a resolution of 1024 x 768 or higher</li> </ul>
Database	<p>One of the following:</p> <ul style="list-style-type: none"> <li>Microsoft SQL Server 2008 Standard or Enterprise Edition (32-bit and 64-bit)<sup>14</sup></li> <li>Microsoft SQL Server 2005<sup>15</sup> Standard or Enterprise Edition SP1 (32-bit and 64-bit)</li> </ul> <p><b>Note:</b> If running Small Business Server 2003 Premium Edition SP2 or Small Business Server 2003 Premium Edition R2, SQL Server Workgroup Edition will run with some exceptions<sup>16</sup>.</p>
Applications	<ul style="list-style-type: none"> <li>Optional<sup>17</sup> installation of Microsoft Office 2003 with Service Pack 2 OR</li> <li>Optional installation of Microsoft Office 2007<sup>18</sup></li> </ul>

<sup>11</sup> Business Portal can be installed in this configuration. However, deploying an extranet-capable application such as Business Portal on the same computer as the databases that store your company's financial data can pose a security risk. Install Business Portal on the same computer as SQL Server only in an intranet or demonstration environment.

<sup>12</sup> In addition to what is required for the operating system, database, and other programs on the computer.

<sup>13</sup> Windows XP or Windows Server 2003 is required if you will install all Microsoft Project Connector for Microsoft Dynamics SL components (Microsoft Project Server, Microsoft Project Professional, Microsoft Project Web Access, and Microsoft Dynamics SL, including the Project Controller module) and Internet Information Services (IIS) version 5.0 or later.

<sup>14</sup> Dynamics SL 7.0 FP1 supports SQL compatibility mode 80 and 90. The product defaults to 80. SQL compatibility mode 100 is unsupported.

<sup>15</sup> Microsoft SQL Server 2005 Standard Edition is the only SQL Server 2005 edition that supports Windows XP.

<sup>16</sup> Application Server and the Report Scheduler functionality within Business Portal will not run on Microsoft Small Business Server 2003 because it does not support the domain controller.

<sup>17</sup> Microsoft Office is required for importing and exporting budgets from/to Excel<sup>®</sup>, using Word boilerplate documents, and Outlook e-mail. Microsoft Project 2003 is required for using the Project Connector in Dynamics SL 7.0 SP2 or earlier. Microsoft Outlook 2003 is required for using FRx.

<sup>18</sup> Microsoft Project 2007 is required for using the Project Connector with Dynamics SL 7.0 FP1 or later.

## B. Business Portal for Microsoft Dynamics SL

The Web server where you install Business Portal must not have an underscore (\_) in its name and must meet the following requirements.

Component	Requirement
Processor	<ul style="list-style-type: none"><li>• 2.5 GHz processor<sup>19</sup></li></ul>
RAM	<ul style="list-style-type: none"><li>• 1 GB minimum (2 GB recommended)</li></ul>
Disk space	<ul style="list-style-type: none"><li>• 550 MB of available hard disk space in addition to what is required for the operating system and other programs on the computer</li></ul>
Operating system	One of the following: <ul style="list-style-type: none"><li>• Windows Server 2003 Standard, Enterprise or Web Edition SP2 (32-bit only)</li><li>• Windows Server 2003 Standard, Enterprise or Web Edition R2 (32-bit only)</li><li>• Windows Server 2008 Standard or Enterprise Edition (32-bit only)<sup>20</sup></li></ul>
Drive	<ul style="list-style-type: none"><li>• DVD-ROM</li></ul>
Display	<ul style="list-style-type: none"><li>• Monitor with a resolution of 1024 x 768 or higher</li></ul>
Other <sup>21</sup>	One or more of the following: <ul style="list-style-type: none"><li>• Microsoft® Internet Information Services (IIS) 6.0 or 7.0</li><li>• Microsoft® Internet Explorer 6 SP1 or 7</li><li>• Microsoft® Windows SharePoint® Services 3.0</li><li>• Optional – Microsoft® Office SharePoint Server 2007 Enterprise Edition</li></ul>

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<sup>19</sup> Refer to the Windows SharePoint Server 3.0 recommendations for further information.

<sup>20</sup> Business Portal for Dynamics SL 7.0 FP1 supports Windows Server 2008 (32-bit only), however, the reporting functionality is not supported on Microsoft Windows Server 2008. If you would like to use reporting in Business Portal, the web server must be a Microsoft Windows Server 2003 operating system. Earlier versions of Business Portal for Dynamics SL 7.0 will not install on Windows Server 2008.

<sup>21</sup> If you use Report Scheduler, Microsoft Dynamics SL client and Application Server must be installed and running. Note that the Application Server and Report Scheduler do not support Microsoft Small Business Server 2003 Premium Edition R2 nor Microsoft Small Business Server 2003 Premium Edition SP2.

## C. Microsoft Dynamics SL Remote Connectivity Requirements

### Windows Terminal Server

Component	Requirement
Processor	<ul style="list-style-type: none"><li>• 1 GHz (x86 processor) or 1.4 GHz (x64 processor) or faster</li></ul>
RAM	Use one of the following formulas for calculating total RAM (the amount of RAM required depends on the number of applications open at one time on the desktop and the number of users <sup>22</sup> ): <ul style="list-style-type: none"><li>• 256 MB of RAM plus 16 MB of RAM per user connecting to the Terminal Server OR</li><li>• 128 MB of RAM plus 48 MB of RAM per Order Management user connecting to the Terminal Server</li></ul>
Disk space	<ul style="list-style-type: none"><li>• 600 MB of available hard disk space in addition to what is required for the operating system, Terminal Services, database utilities, and other programs on the server</li></ul>
Operating system	One of the following: <ul style="list-style-type: none"><li>• Windows Server 2008 Standard and Enterprise Edition (32-bit and 64-bit) with Terminal Server installed and running</li><li>• Windows Server 2003 Standard, Enterprise or Web Edition R2 (32-bit and 64-bit) with Terminal Server installed and running</li><li>• Windows Server 2003 Standard, Enterprise or Web Edition SP2 (32-bit and 64-bit) with Terminal Server installed and running</li></ul>
Applications	<ul style="list-style-type: none"><li>• Optional installation of SQL Server 2008 Client Tools Connectivity</li><li>• Optional installation of SQL Server 2005 Client Component Management Tools</li></ul>

### Remote Access Workstation

If your users will access Microsoft Dynamics SL using Terminal Services, the Terminal Services Client must be installed on each workstation connected to the Terminal Server.

## D. Microsoft Dynamics SL Software Development Kit (SDK) (formerly known as Microsoft Dynamics SL Tools for Visual Basic) Requirements

- Database Server, Client Workstation, and Single-user requirements are identical to Section A above
- Microsoft Visual Studio® 2005 or Microsoft Visual Studio® 2008 SP1 with Visual Basic components installed.

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<sup>22</sup> We recommend not exceeding 15 concurrent users per processor.

## E. FRx<sup>®</sup> Report Designer Requirements<sup>23</sup>

Component	Requirement
Computer and processor	<ul style="list-style-type: none"> <li>Personal computer with Intel Pentium 500 MHz or faster processor recommended</li> </ul>
Memory	<ul style="list-style-type: none"> <li>256 MB of RAM required for client – 512 MB for server</li> </ul>
Disk space	<ul style="list-style-type: none"> <li>2 GB+ of available hard disk space in addition to what is required for the operating system and other programs on the server<sup>24</sup> (local OLAP cubes) for client – for the server recommend 10+ GB</li> </ul>
Operating system	One of the following: <ul style="list-style-type: none"> <li>Windows Vista Business, Ultimate, or Enterprise Editions</li> <li>Windows Server 2003 Standard Edition R2 (Recommended) or Windows Server 2003 Standard Edition SP2</li> <li>Windows XP Professional SP3</li> <li>Windows 2000 Professional SP4 acceptable</li> </ul>
Drive	<ul style="list-style-type: none"> <li>CD-ROM</li> </ul>
Applications	<ul style="list-style-type: none"> <li>Microsoft<sup>®</sup> Office Outlook<sup>®</sup> 2003 or Microsoft<sup>®</sup> Outlook XP OR</li> <li>Microsoft<sup>®</sup> MAPI-compliant e-mail client</li> <li>Microsoft<sup>®</sup> Office Professional Edition 2003 or Office Professional XP (recommended) or Microsoft<sup>®</sup> Office Professional Edition 2007</li> </ul>
Data access	<ul style="list-style-type: none"> <li>Microsoft<sup>®</sup> Data Access Components (MDAC) 2.8 SP1 OR</li> <li>Microsoft Data Access Components (MDAC) 2.8 SP2</li> </ul>

## F. Order Management Process Manager Configuration and Seat Requirements

The *Process Manager* screen (in the Order Management module) can run on a database server with minimum requirements or on a dedicated workstation. It continually reviews orders, inventory availability, and credit status, and can automatically process the order steps according to the Order Type setup (such as create a shipper, print packing lists, and print invoices).

This automated process monitors and manages the order fulfillment process and reduces the need to dedicate staff for processes such as producing pick tickets, packing slips, filling back orders, and reviewing customers' changing credit status. Because *Process Manager* evaluates all of these factors continually, you must consider the following when planning an implementation:

- A *Process Manager* session must run for each company that has a separate database.
- A single server can only run one instance of *Process Manager*<sup>25</sup>. If you have multiple databases, each additional *Process Manager* must run on a separate server or dedicated workstation.

<sup>23</sup> Detailed requirements for all Microsoft FRx products are available at [www.FRxSoftware.com](http://www.FRxSoftware.com).

<sup>24</sup> Hard drive space requirements vary based on the analysis performed and the number and size of the reports being stored for viewing in the Drilldown Viewer or local OLAP cubes)

<sup>25</sup> *Process Manager* does not consume a Microsoft Dynamics SL seat license.

Configuration of a dedicated stand-alone computer that runs only *Process Manager* is as follows:

Component	Requirement
Processor	<ul style="list-style-type: none"> <li>• 1 GHz (x86 processor) or 1.4 GHz (x64 processor) or faster</li> </ul>
RAM	<ul style="list-style-type: none"> <li>• 1 GB recommended</li> </ul>
Operating system	One of the following: <ul style="list-style-type: none"> <li>• Windows Server 2008 Standard and Enterprise Edition (32-bit and 64-bit)</li> <li>• Windows Server 2003 Standard Edition R2 or Windows Server 2003</li> <li>• Small Business Server 2003 Premium Edition R2 or Microsoft Small Business Server 2003 Premium Edition SP2</li> <li>• Windows Vista SP1 Business, Ultimate or Enterprise Edition (32-bit only)</li> <li>• Windows XP Professional SP3 (32-bit only)</li> </ul>
Applications	<ul style="list-style-type: none"> <li>• Microsoft Dynamics SL client installation</li> </ul>

## G. Requirements for All Installations

### Printer

The recommended printer type for use with Microsoft Dynamics SL is a laser printer. Most reports print in landscape mode on 8.5 x 11" paper. Although Windows can map printed output to non-laser printers, the printing might be quite slow. Special forms work acceptably on either a laser printer or a contact-type printer. Your contact-type printer must have Windows driver support. Additional memory on the printer can enhance printing performance for long-running print jobs.

### Internet / E-mail

- Internet access for communication with Support and to obtain software updates (often available only by download)
- Internet access for automatic submission of Watson errors
- Microsoft Internet Explorer 7 or Microsoft Internet Explorer 6 with Service Pack 1 for internet access
- MAPI e-mail system

Computers that will run the e-mail interfaces in Application Server, Requisition Information Agent or Communicator to Mail must have Collaborative Data Objects (CDO) installed on them." Although Collaborative Data Objects (CDO) is included in Microsoft Office 2003, it is not installed by default. You must select the Custom installation option and manually select CDO or perform a complete installation of Microsoft Office 2003 in order to install CDO. Starting with Exchange 2007 and Outlook 2007, Microsoft distributes CDO 1.2.1 as a Web download, separate from the two products. To download CDO, connect to the Microsoft Downloads site (<http://www.microsoft.com/downloads>) and search for CDO or the file ExchangeCdo.MSI.

- Messages can be sent via e-mail or over the network. The Documentation Feedback tool requires access to e-mail.

## H. Application Server (96.010.00) Requirements

The Microsoft Dynamics SL *Application Server* screen can run on any computer that has a Microsoft Dynamics SL client installed on it and a compatible operating system. The computer can be either a client workstation or the database server. However, if the server is running Microsoft Small Business Server then the *Application Server* will not work on that computer. *Application Server* runs as an exclusive process and should not run simultaneously with other Microsoft Dynamics SL applications (including Order Management's *Process Manager*). Requirements for *Application Server* are the same as for any Microsoft Dynamics SL workstation<sup>26</sup> with the exception: Application Server does not run on Microsoft Small Business Server 2003.

Component	Requirement
Processor	<ul style="list-style-type: none"><li>• 1 GHz (x86 processor) or 1.4 GHz (x64 processor) or faster</li></ul>
RAM	<ul style="list-style-type: none"><li>• 1 GB or greater (the amount of workstation RAM required depends on the number of applications open at one time on the desktop)</li></ul>
Operating system	One of the following: <ul style="list-style-type: none"><li>• Windows Server 2008 Standard and Enterprise Edition (32-bit and 64-bit)</li><li>• Windows Server 2003 Standard Edition R2 or Windows Server 2003 SP2 (32-bit and 64-bit)</li><li>• Windows Vista SP1 Business, Ultimate, or Enterprise Edition (32-bit only)</li><li>• Windows XP Professional SP3 (32-bit only)</li></ul>
Applications	<ul style="list-style-type: none"><li>• Optional installation of SQL Server 2008 Client Tools Connectivity</li><li>• Optional installation of SQL Server 2005 Client Component Management Tools</li><li>• Microsoft Dynamics™ SL client installation</li><li>• Microsoft Outlook 2007 with Collaborative Data Objects (CDO)<sup>27</sup> or Microsoft Outlook 2003 with Collaborative Data Objects (CDO)</li></ul>

## I. Application Server E-mail Requirements

An e-mail configuration is not required in order to use the scheduling capabilities of *Application Server*. However, in order to use e-mail report routing, as well as submit requests via e-mail, an e-mail system must be present and the computer where *Application Server* will run must have an installation of Microsoft Outlook 2007 or Microsoft Outlook 2003 with a profile configured to access e-mail. Note that the Microsoft Outlook client must support the e-mail system in order to configure a profile. In addition, the Microsoft Outlook installation must include Microsoft Collaboration Data Objects (CDO). You must select the Custom Outlook installation option and then manually select Collaboration Data Objects during installation. You can also install CDO by performing a complete installation of Microsoft Office 2003 or Microsoft Outlook 2003. Starting with Exchange 2007 and Outlook 2007, Microsoft will distribute CDO 1.2.1 as a Web download, separated from the two products. To download CDO, connect to the Microsoft Downloads site (<http://www.microsoft.com/downloads>) and search for CDO or the file ExchangeCdo.MSI.

Note that the person submitting an e-mail message to *Application Server* can use any e-mail client provided the user sends the request from the same e-mail address stored for the user in the Microsoft Dynamics SL user settings.

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<sup>26</sup> A full installation of the Microsoft Dynamics SL application files is not required on the workstation. *Application Server*, when running, does not consume a Microsoft Dynamics SL seat license.

<sup>27</sup> Starting with Exchange 2007 and Outlook 2007, Microsoft will distribute CDO 1.2.1 as a Web download, separated from the two products. To download CDO, connect to the Microsoft Downloads site (<http://www.microsoft.com/downloads>) and search for CDO or the file ExchangeCdo.MSI.

## J. Microsoft Office Project Connector for Microsoft Dynamics SL Requirements

- Dynamics SL 7.0 SP2 and earlier require Microsoft Project Server 2003. Microsoft Project Server 2003 requires a server-class computer that meets the [requirements](#) for the product.
- Dynamics SL 7.0 FP1 or later require Microsoft Project Server 2007 SP1 (SP1 is applied by the Office Server 2007 SP1 update and is required when installing on Windows Server 2008) with the Office Server Infrastructure updates and the Windows SharePoint 3.0 Infrastructure updates packages.
- Microsoft Project Web Access requires a Web server that meets the [requirements](#) for the product.
- Client workstations must have Microsoft Project Professional 2003 or Microsoft Project Professional 2007 (depending on the version of Dynamics SL in use) installed on them and must meet the [requirements](#) for the product.<sup>28</sup>

For sites planning to integrate projects with Microsoft Project Connector using the Project Maintenance pages in Business Portal for Dynamics SL 7.0 SP2 and earlier, the following requirements also apply:

- Windows Authentication can be used only if Business Portal and Microsoft Project Server 2003 are running on the same server.
- When running both Business Portal and Microsoft Project Server on the same server, the Project Server user will be able to post documents to SharePoint but will not be able to use the auto-creation of sub-webs for project plans because Business Portal requires WSS 3.0, which is not supported by auto-create processes in Microsoft Project Server 2003.
- If Business Portal and Microsoft Project Server 2003 are installed on different servers, Project Server Authentication must be used.
- When running Business Portal and Microsoft Project Server 2003 on different servers, a named user must be set up in the Business Portal application pool. For more information about account setup, please see the section “Create a Web application and site collection” in Chapter 6 (if using only Windows SharePoint Services) or 7 (if using Office SharePoint Server) in the *Business Portal for Microsoft Dynamics™ SL Installation Guide for Release 7.0*.

## K. BIO™ and BIO™ Vue for Microsoft Dynamics SL

You must install BIO for Microsoft Dynamics SL and BIO Vue on the same server.

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<sup>28</sup> Microsoft Project Professional 2003 is not supported when running on Windows Vista.

## Server<sup>29 30</sup>

Component	Requirement
Computer and processor	Server with Pentium 4 1.2 GHz or faster processor (server with dual Xeon 1.8 GHz or faster processors recommended)
Memory	1 GB of RAM (2 GB recommended – more server memory may be required depending on the number and frequency of end user queries)
Disk space	100 MB hard drive space plus size of BIO database, Analysis Services database, and space required for the operating system, SQL Server and other programs on the server <sup>31</sup>
Operating system <sup>32</sup>	<ul style="list-style-type: none"> <li>• Microsoft Windows Server 2003 (32-bit only) with Service Pack 1 or later OR</li> <li>• Microsoft Windows Server 2003 R2 (32-bit only) OR</li> <li>• Microsoft Windows 2000 Server with Service Pack 4 OR</li> <li>• Microsoft Windows XP Professional with Service Pack 2</li> </ul>
Drive	CD-ROM drive
Display	Monitor with a resolution of 1024 x 768 or higher
Database	<ul style="list-style-type: none"> <li>• Microsoft SQL Server 2005 (32-bit Standard or Enterprise Edition<sup>33</sup>) with Service Pack 2 (mixed mode authentication) AND</li> <li>• Microsoft SQL Server 2005 Analysis Services (32-bit Standard or Enterprise Edition) with Service Pack 2 AND</li> </ul> Microsoft SQL Server 2005 Analysis Management Objects (AMO)
Data access	Microsoft Data Access Components (MDAC) 2.8 or higher
Applications and other	<ul style="list-style-type: none"> <li>• Microsoft Internet Information Services (IIS) 5.0 or higher (IIS 6.0 recommended)</li> <li>• .NET Framework 1.1 with Service Pack 1<sup>34</sup></li> <li>• The server where you plan to install BIO must have both SQL Server and Analysis Services client utilities installed on it.</li> <li>• Microsoft XML Parser 3.0 with Service Pack 7 or higher<sup>35</sup></li> <li>• For map support, Internet Explorer version 6 or higher must be installed on the BIO Vue server</li> </ul>

<sup>29</sup> You must run the same version of SQL Server and Analysis Services 2005, on all servers in your Microsoft Dynamics and BIO application environment. For example, if your Microsoft Dynamics SL databases are on SQL Server 2005 with Service Pack 2, you must create your BIO databases on SQL Server 2005 with Service Pack 2, even if you create them on a separate server. Furthermore, you must create your OLAP repositories and reporting cubes in Analysis Services 2005 with Service Pack 2. We recommend running a single instance of SQL Server on the database server and a single instance of Analysis Services on the OLAP server.

<sup>30</sup> The person performing the installation of BIO and BIO Vue for Microsoft Dynamics SL on the server must be a local administrator (*ComputerName\UserID*) on the OLAP server and must be a member of the local OLAP administrators group.

<sup>31</sup> The amount of space for data can vary dramatically depending on the number of databases, amount of retention, and transaction volume.

<sup>32</sup> BIO for Microsoft Dynamics SL is not supported on Microsoft Small Business Server because it does not support installation on a domain controller. Microsoft Small Business Server is based on a domain controller.

<sup>33</sup> For Analysis Services 2005, full writeback support is available only in Enterprise Edition. Writeback capabilities are necessary whenever data such as budgets or goals will be entered into a BIO Vue report and analysis cube.

<sup>34</sup> The computer where you run Setup must have .NET Framework 1.1 with Service Pack 1 installed on it, even if .NET Framework 2.0 is installed.

<sup>35</sup> Must be installed on the computer where you run Setup, regardless of where you install BIO Vue server.

## BIO Vue Explorer

Component	Requirement
Internet browser	<ul style="list-style-type: none"><li>• Internet Explorer 7 OR</li><li>• Internet Explorer 6.0 with Service Pack 3</li></ul>
Applications and other	<ul style="list-style-type: none"><li>• Internet Information Services (IIS) 6.0 or higher OR</li><li>• Internet Information Services (IIS) 5.0</li><li>• .NET Framework 1.1 Service Pack 1<sup>36</sup></li><li>• Microsoft® XML Parser (MSXML) 3.0 with Service Pack 7 must be installed on the computer where you run Setup.</li></ul>

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<sup>36</sup> The computer where you run Setup must have .NET Framework 1.1 with Service Pack 1 installed on it, even if .NET Framework 2.0 is installed.