



System Requirements

For .NET 4.0

AgilePoint BPMS v5.0 R2 for .NET 4.0

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Preface

Disclaimer of Warranty

AgilePoint, Inc. makes no representations or warranties, either express or implied, by or with respect to anything in this document, and shall not be liable for any implied warranties of merchantability or fitness for a particular purpose or for any indirect, special or consequential damages.

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Use, duplication or disclosure by the U.S. Government is subject to restrictions set forth in the applicable license agreement and as provided in DFARS 227.7202-1(a) and 227.7202-3(a) (1995), DFARS 252.227-7013(c)(1)(ii) (Oct 1988), FAR 12.212(a) (1995), FAR 52.227-19, or FAR 52.227-14, as applicable.

Virus-free software policy

AgilePoint recognizes that viruses are a significant security consideration for our customers. To date, we have had no report of AgilePoint BPMS carries any virus. AgilePoint takes the following measures to ensure our software is free of viruses upon delivery:

- AgilePoint is built on top of Microsoft .NET framework. The pre-compiled executable is a .NET Common Language Runtime (CLR) application, not a native machine binary. As far as is known at this time, there are no viruses that infect .NET CLR executables.
- The virtual environment for the product packaging process is fully isolated and protected, and anti-virus software is installed and running during packaging.
- The deliverable package is scanned by anti-virus software before upload to our customer download site.

Document Revision Numbers

AgilePoint documentation uses the revision number format **rX.Y.Z**. The letters and numbers in this revision number can be interpreted as follows:

- **r** - Indicates "revision." This helps to differentiate the document *version* numbers, which start with **v**.
- **X** - The major version number for AgilePoint BPMS to which this document refers. For example, AgilePoint releases 5.0, 5.0 SP1, and 5.5 would all have an **X** value of **5**.
- **Y** - The major document revision number. This number typically changes only when either there is a new AgilePoint release, or there are major changes to the document.
- **Z** - The minor document revision number. This number is incremented each time the document is republished.

AgilePoint Documentation in PDF and HTML

AgilePoint documentation is provided in both print-friendly (PDF) and web-based (HTML) formats.

Advantages of HTML Documentation

- HTML is the **primary delivery format** for AgilePoint documentation.
- Unified, global **search** across all documentation. PDF documents allow you to search only within the context of a given PDF file.
- **All hyperlinks supported**. Links in PDFs are only supported in certain contexts.
- "One-stop shopping" for all information related to AgilePoint BPMS.
- The HTML documentation is updated more frequently than the PDF documentation. Web-based documentation is updated periodically between AgilePoint releases to address errors and omissions, but the PDF documentation is updated only at the time of a software release.

Advantages of PDF Documentation

PDFs can be more easily **printed**, **archived**, and **transferred** (such as by FTP or email) than HTML documentation.

For more information, see [Downloading Files and Sharing Links from the Documentation Library](#) in the [Documentation Library](#).

Opening the Documentation Library

To open the AgilePoint Documentation Library, do the following.

Prerequisites

You must have a valid account on the AgilePoint Support Portal.

Instructions

1. Log on to the AgilePoint Support Portal.
2. Click **Documentation**.
3. On the **Documentation** page, click the documentation library for your AgilePoint release.
 - For AgilePoint BPMS v5.0 SP1 and higher, the web-based documentation library opens in a new tab or window in your web browser.

- For releases prior to v5.0 SP1, a download starts for a Zip file with the PDF documentation for your release.

Finding Information in the Documentation Library

The information in this topic will help you to locate information in the AgilePoint Documentation Library.

Using the Table of Contents

The table of contents in the AgilePoint Documentation Library is divided by content areas. For example, the Installation section includes all the information you need to install AgilePoint BPMS. The AgilePoint API section includes information about the AgilePoint APIs.

You can use the Table of Contents to explore the AgilePoint documentation content and find the information you want.

Searching

The web-based documentation includes a centralized search for all documentation content. To search for information:

1. In the AgilePoint Documentation Library, click the **Search** tab. In the Search box, enter **1 search term**, and click **Search**.

The search results display in alphabetical order by topic title.

It is important to understand that the third-party software AgilePoint uses to generate web-based documentation allows only 1 search term. More than 1 search term will cause the search to fail.

AgilePoint recommends using a relatively unique search term to find the information you need. For example, entering a common term, such as "process," will return a high percentage of the total documentation topics in the search results.

2. Browse the list of topic titles to find the information you want.

Printing

The PDF documentation is provided mainly for the purpose of printing and archiving. To print a set of information:

1. Navigate to the main page of the Documentation Library from which you want to print.
2. In the list of documents, click the document name in the **PDF** column.
3. From your PDF reader software, print the portion of the document you want.

Downloading Files and Sharing Links from the Documentation Library

You can download and share files AgilePoint's documentation library as you would in any other web page. Note that if you send links to recipients, they must have a Support Portal login to view the file.

These procedures are common examples based on Internet Explorer with the Adobe Reader plug-in. Exact procedures may vary depending on your web browser, PDF viewer, and email client configuration.

Share a Link to an HTML Topic

1. Navigate to the topic you want to share.
2. Copy the URL in the Location box in your web browser.
3. Paste the URL in an email, IM client, etc.

Share a Link to a PDF Document

1. In Internet Explorer, navigate to the Documentation Library home page.
2. In the **PDF** column, right-click the name of the PDF file you want to share.
3. In the quick menu, click **Copy shortcut**.
4. Paste the URL in an email, IM client, etc.

Save a Copy of a PDF Document

1. In Internet Explorer, [open the Documentation Library home page](#).
2. In the **PDF** column, click the name of the PDF file you want to share.
3. In the Adobe Reader plug-in, click **Save** button.

Contacting AgilePoint Sales

AgilePoint is a leading Business Process Management System (BPMS) provider created by a team of driven people who strive to incorporate the principles of relentless innovation for the benefit of our customers. Our mission is to help companies of any size attain and sustain operational success through process excellence.

Headquarters: AgilePoint Corporation 1916C Old Middlefield Way Mountain View, CA 94043, USA

Tel: (650) 968 - 6789

Fax: (650) 968 - 6785

Email: info@agilepoint.com

Web site: www.agilepoint.com

International: For AgilePoint EMEA and AgilePoint Asia Pacific, please call the AgilePoint Corporate Office for contact information.

Contacting Customer Support

To contact AgilePoint Support, please submit a ticket on the AgilePoint Support Portal: <http://support.agilepoint.com/SupportPortal/>

If you do not have a Support Portal account, you can send an email to request one: support@agilepoint.com

System Requirements for .NET 4.0

This document describes the supported system requirements for installing each of the components of the AgilePoint BPMS product suite in a .NET 4.0 environment.

Before installing any AgilePoint products, please ensure that your system meets the following **minimum** hardware and software requirements.

Components in AgilePoint Product Suites

AgilePoint offers a variety of product suites, serving a range of customer needs. The following table shows the AgilePoint components that are included in various AgilePoint product versions.




Note: AgilePoint BPMS components are not cross-compatible with multiple versions of the .NET Framework. For the supported versions of .NET for a particular component, see the system requirements.


AgilePoint Component	AgilePoint Genesis Edition	AgilePoint BPMS Universal Edition	AgilePoint BPMS for .NET 3.5	AgilePoint BPMS for .NET 4.0	AgilePoint BPMS for Azure
AgilePoint Server	Yes	Yes	Yes	Yes	In Cloud
Clustering Server Manager		Yes	Yes	Yes	In Cloud
Enterprise Manager	Yes	Yes	Yes	Yes	In Cloud
Envision	Yes	Yes	Yes	Yes	On-Premises
Developer		Yes	Yes	Yes	On-Premises
SharePoint Integration	Yes	Yes	Yes	Yes	On-Premises
AgileForms		Yes	Yes	Yes	
AgileReports	Yes	Yes	Yes	Yes	
AgileXRM AgilePoint Server Component		Yes			
AgileXRM Process Manager		Yes			
AgileDialogs		Yes			
Dynamics CRM 2011 Integration		Yes			

AgilePoint Component	AgilePoint Genesis Edition	AgilePoint BPMS Universal Edition	AgilePoint BPMS for .NET 3.5	AgilePoint BPMS for .NET 4.0	AgilePoint BPMS for Azure
AgileXRM Envision Component		Yes			
AgileXRM Form Server (ALF)		Yes			
AgileMonitor		Yes			
AgileXRM SharePoint Integration		Yes			
AgileXRM Developer SDK		Yes			

AgilePoint Server Requirements

This section provides detailed information about the specific supported system requirements for the AgilePoint Server component of the AgilePoint BPMS Suite. The recommended requirements for this component can vary based on the intended usage of the product. The general recommendation for all types of production servers is that they should have as much processing power and memory as possible.

Processor (CPU)	Dual-processor server
Memory (RAM)	4 GB
Available Hard Disk Space	<ul style="list-style-type: none"> 150 MB
Other Hardware or Devices	<ul style="list-style-type: none"> A network connection NIC 1 GB or higher
Operating System	<p>One of the following:</p> <ul style="list-style-type: none"> Microsoft Windows 2008 Server R2 64 bit Microsoft Windows Server 2012
Locally Installed Software	<p>All of the following:</p> <ul style="list-style-type: none"> Microsoft IIS 6.0 or higher Microsoft Internet Explorer 6 - 10 Microsoft .NET Framework 4.0 Windows Identity Foundation (WIF). <p>For more information, see Windows Identity Foundation on the Microsoft Download Center.</p> <p> Note: There is no Microsoft installer for WIF on Windows XP. Therefore, AgilePoint installs this DLL automatically for Windows XP users only. For all other supported Windows versions, use the official Microsoft installers.</p> <ul style="list-style-type: none"> Microsoft Windows PowerShell <p>This is used to restart on premises Windows services for AgilePoint — for example, AgilePoint Server running in Windows Service mode on premises, or the AgilePoint Service Bus for AgilePoint BPMS for Azure. It is possible to use the Windows command line, but PowerShell is recommended because it provides more sophisticated functionality. For example, it waits for one command to complete before executing the next command.</p>

Other Software in the Environment	<p>These components can be installed either locally, or on a remote server that belongs to the same network domain as the computer you are installing on.</p> <ul style="list-style-type: none">● AgilePoint Deployment Service (Optional)● AgilePoint Data Services (Optional)
Database	<p>This component requires a database installed on a machine with the following minimum requirements. For stability and performance, AgilePoint recommends installing the database on a remote server within the same network domain. However, the database can be installed on the same machine as this component. Other database requirements beyond those listed here are at the discretion of your database administrator.</p> <ul style="list-style-type: none">● One of the following:<ul style="list-style-type: none">● Microsoft SQL Server 2008 R2● Microsoft SQL Server 2012● Oracle 9i, 10g, 11g<p>On the AgilePoint Server machine, download and install Oracle Database 11g Client (Release 1 or Release 2) that is appropriate for the system for which you are installing on (i.e. 32 bit or 64 bit).</p><p> Note: Microsoft SharePoint and AgileForms do not support Oracle database. If you are using SharePoint Integration or AgileForms, AgilePoint strongly recommends using Microsoft SQL Server.</p>● Minimum hard disk space<ul style="list-style-type: none">● 1 GB database● 1 GB for archive data and log files

AgilePoint Clustering Server Manager Requirements

This section provides minimum system requirements for the AgilePoint Clustering Server Manager component of AgilePoint BPMS. The recommended requirements for this component can vary based on the intended usage of the product.

AgilePoint Clustering Server Manager (CSM) is a software component that enables AgilePoint Server to operate effectively in a network load balanced (NLB) or failover environment. Below are some important notes about AgilePoint CSM:

- The AgilePoint CSM enables AgilePoint BPMS to work with NLB, but it is not NLB software.
- The AgilePoint CSM is required if you are installing multiple AgilePoint Servers in an NLB cluster. If the AgilePoint CSM is not installed, technical issues occur — for example, duplicated work items.
- NLB environments may require specific hardware, software, or operating system options that are not covered in the AgilePoint BPMS System Requirements. For more information, see your network system administrator.
- Clustering requires each of the AgilePoint Server's in the cluster to be activated using a separate "Clustered" license key. Clustered license keys are different than regular production license keys. For more information, contact [AgilePoint Support](#).

This section describes the requirements specifically for AgilePoint BPMS. The exact specifications for how NLB is implemented vary from one environment to the next. For example, some environments use a hardware-only solution, some environments use a software-only solution, and some environments use a solution that combines hardware, software, and operating system. Your organization's NLB configuration falls within the scope of requirements for your internal environment. Those requirements are outside the scope of AgilePoint BPMS in particular. AgilePoint does not provide implementation or consulting for setting up NLB in your environment — only for implementing the AgilePoint Clustering Server Manager component.

The AgilePoint CSM component is installed on each AgilePoint machine in your environment. This section provides system requirements for this component that are in addition to, or supersede, the base requirements for AgilePoint Server.

Available Hard Disk Space	<ul style="list-style-type: none">• 50 MB
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AgilePoint Enterprise Manager Requirements

This section provides detailed information about the specific supported system requirements for the AgilePoint Enterprise Manager component of the AgilePoint BPMS Suite. Enterprise Manager is typically installed on the same machine as AgilePoint Server. This section provides system requirements for this component that are in addition to, or supersede, the base requirements for AgilePoint Server.

Available Hard Disk Space	<ul style="list-style-type: none">• 50 MB
Other Software in the Environment	<ul style="list-style-type: none">• One of the following:<ul style="list-style-type: none">• Microsoft Internet Explorer 6 - 10• Mozilla Firefox 19.0 or earlier


AgilePoint Data Services Requirements

This section provides detailed information about the minimum system requirements for AgilePoint Data Services. Data Services is typically installed on the same machine as AgilePoint Server. This section provides system requirements for this component that are in addition to, or supersede, the base requirements for AgilePoint Server.

Available Hard Disk Space	<ul style="list-style-type: none">• 50 MB
Database	<p>This component requires a database installed on a machine with the following minimum requirements. For stability and performance, AgilePoint recommends installing the database on a remote server within the same network domain. However, the database can be installed on the same machine as this component. Other database requirements beyond those listed here are at the discretion of your database administrator.</p> <ul style="list-style-type: none">• One of the following:<ul style="list-style-type: none">• Microsoft SQL Server 2008 R2• Microsoft SQL Server 2012• Oracle 9i, 10g, 11g<p>On the AgilePoint Server machine, download and install Oracle Database 11g Client (Release 1 or Release 2) that is appropriate for the system for which you are installing on (i.e. 32 bit or 64 bit).</p>• Minimum hard disk space<ul style="list-style-type: none">• 1 GB database• 1 GB for archive data and log files

AgilePoint Envision Requirements

This section provides information about the minimum system requirements for AgilePoint Envision.

Processor (CPU)	Follow the requirements for your version of Microsoft Visio.
Memory (RAM)	<ul style="list-style-type: none"> 1 GB
Available Hard Disk Space	<ul style="list-style-type: none"> 50 MB This is in addition to the requirements (150+ MB) for Microsoft Visio
Other Hardware or Devices	<ul style="list-style-type: none"> A network connection
Operating System	Any operating system Microsoft supports for a compatible version of Microsoft Visio.
Locally Installed Software	<p>All of the following:</p> <ul style="list-style-type: none"> Microsoft Visio 2010 or 2013, Standard, Professional, Architect, or Premium, 32 bit or 64 bit <p> Note: When Visio is installed, the .NET Programmability Support option must be enabled.</p> <ul style="list-style-type: none"> Microsoft Internet Explorer 6 - 10 Microsoft .NET Framework 4.0
Other Software in the Environment	<ul style="list-style-type: none"> AgilePoint Server AgilePoint Deployment Service (Optional)

AgilePoint Developer Requirements

This section provides detailed information about the specific supported system requirements for the AgilePoint Developer component of AgilePoint BPMS for .NET 4.0.

Processor (CPU)	Follow the requirements for your version of Microsoft Visual Studio.
Memory (RAM)	<ul style="list-style-type: none">• 1 GB
Available Hard Disk Space	<ul style="list-style-type: none">• 100 MB• This is in addition to the requirements (2-4 GB) for Microsoft Visual Studio
Other Hardware or Devices	<ul style="list-style-type: none">• A network connection
Operating System	Any operating system Microsoft supports for a compatible version of Microsoft Visual Studio.
Locally Installed Software	All of the following: <ul style="list-style-type: none">• Microsoft .NET Framework 4.0• Microsoft Visual Studio 2010 or 2012
Other Software in the Environment	<ul style="list-style-type: none">• AgilePoint Server• AgilePoint Envision• One of the following:<ul style="list-style-type: none">• Microsoft Internet Explorer 6 - 10• Mozilla Firefox 19.0 or earlier

AgilePoint SharePoint Integration Requirements



This section provides information about the minimum system requirements for the AgilePoint Integration for SharePoint component of AgilePoint BPMS for .NET 4.0. The recommended requirements for this component vary greatly based on the intended usage of the product.

Processor (CPU)	Any processor supported by Microsoft for a compatible version of Microsoft SharePoint.
Memory (RAM)	See Microsoft requirements for a compatible version of Microsoft SharePoint.
Available Hard Disk Space	<ul style="list-style-type: none"> • 50 MB • This is in addition to the requirements for Microsoft SharePoint
Other Hardware or Devices	See Microsoft requirements for a compatible version of Microsoft SharePoint.
Operating System	Any operating system Microsoft supports for a compatible version of Microsoft SharePoint.
Locally Installed Software	<p>All of the following:</p> <ul style="list-style-type: none"> • Microsoft .NET Framework 4.0 • Microsoft Office SharePoint 2013
Other Software in the Environment	<ul style="list-style-type: none"> • AgilePoint Server • One of the following: <ul style="list-style-type: none"> • Microsoft Internet Explorer 6 - 10 • Mozilla Firefox 19.0 or earlier
Database	<p>A database supported by Microsoft for a compatible version of Microsoft SharePoint.</p> <p>AgilePoint does not require space on the SharePoint database. All AgilePoint workflow data is stored in the AgilePoint database.</p>

AgileForms Requirements

This section provides detailed information about the minimum system requirements for the AgileForms component of AgilePoint BPMS for .NET 4.0. The recommended requirements for this component can vary based on the intended usage of the product. The general recommendation for all types of production servers is that they should have as much processing power and memory as possible.

AgileForms Server cannot use dynamic load balancing and cannot be installed on a machine where NLB is in use. Therefore if AgilePoint Server is a single server installation then you can install AgileForms on either same server or a dedicated single server. However if AgilePoint Server is configured in an NLB environment, AgileForms Server cannot run on the same machine as AgilePoint Server. AgileForms installed on a dedicated single server can communicate with AgilePoint Server that is operating in an NLB mode.

Processor (CPU)	Dual-processor server
Memory (RAM)	<ul style="list-style-type: none"> 8 GB  Note: This is a minimum recommendation is for development and test environments only. For production environments, increase your usage proportionally to your number of users.
Available Hard Disk Space	<ul style="list-style-type: none"> 150 MB
Other Hardware or Devices	<ul style="list-style-type: none"> A network connection NIC 1 GB or higher
Operating System	One of the following: <ul style="list-style-type: none"> Microsoft Windows 2008 Server R2 64 bit Microsoft Windows Server 2012
Locally Installed Software	All of the following: <ul style="list-style-type: none"> Microsoft IIS 6.0 or higher Microsoft Internet Explorer 6 - 10  Note: If you want to use the PDF Generator in AgileForms, you cannot have Internet Explorer 9 installed on the AgileForms Server machine. This only applies to the built-in AgileForms PDF Generator feature on the AgileForms Server machine. It does not apply to PDF generation using the PDF Generator AgileShape, or to AgileForms clients machines. <ul style="list-style-type: none"> Microsoft .NET Framework 4.0

Other Software in the Environment	<p>These components can be installed either locally, or on a remote server that belongs to the same network domain as the computer you are installing on.</p> <ul style="list-style-type: none">● AgilePoint Server● AgilePoint Data Services (Optional)
Database	<p>This component requires a database installed on a machine with the following minimum requirements. For stability and performance, AgilePoint recommends installing the database on a remote server within the same network domain. However, the database can be installed on the same machine as this component. Other database requirements beyond those listed here are at the discretion of your database administrator.</p> <ul style="list-style-type: none">● One of the following:<ul style="list-style-type: none">● Microsoft SQL Server 2008 R2● Microsoft SQL Server 2012● Minimum hard disk space<ul style="list-style-type: none">● 1 GB database● 1 GB for archive data and log files

AgileReports Requirements

This section provides the minimum system requirements for the AgileReports component of the AgilePoint BPMS Suite. AgileReports must always be installed on the same machine as AgilePoint Server. This section provides system requirements for this component that are in addition to, or supersede, the base requirements for AgilePoint Server.

Available Hard Disk Space	<ul style="list-style-type: none"> 150 MB
Locally Installed Software	<p>All of the following:</p> <ul style="list-style-type: none"> Java Runtime Environment (JRE) Flash browser plug-in
Database	<p>This component requires a database installed on a machine with the following minimum requirements. For stability and performance, AgilePoint recommends installing the database on a remote server within the same network domain. However, the database can be installed on the same machine as this component. Other database requirements beyond those listed here are at the discretion of your database administrator.</p> <ul style="list-style-type: none"> One of the following: <ul style="list-style-type: none"> Microsoft SQL Server 2008 R2 Microsoft SQL Server 2012 Oracle 9i, 10g, 11g <p>On the AgilePoint Server machine, download and install Oracle Database 11g Client (Release 1 or Release 2) that is appropriate for the system for which you are installing on (i.e. 32 bit or 64 bit).</p> Minimum hard disk space <ul style="list-style-type: none"> 1 GB database 1 GB for archive data and log files

Virtual Host Requirements

This section provides general information about the minimum system requirements for the host machine for AgilePoint BPMS in a virtual environment.

Architecture	64 bit
Processors	4
Memory (RAM)	<p>4 GB allocated to each virtual machine</p> <p>In a virtual environment, memory allocation is not guaranteed. If 4 GB is allocated for a virtual machine, it does not mean the machine will have access to 4 GB memory at all times. The memory is shared among all the virtual machines on a host machine.</p>
Virtualization Technologies	<p>AgilePoint recommends Microsoft Hyper-V or VMWare.</p> <p>Other virtualization software is supported as described at the following link:</p> <ul style="list-style-type: none">• http://www.windowsservercatalog.com/results.aspx?&bCatID=1521&cpID=0&avc=0
Network Bandwidth	1 GB network connection on the host machine
Other Hardware or Devices	AgilePoint recommends running the database on a physical machine.