

About System Requirements

- Operating systems and configuration options not listed as supported in this document are *not* supported.
- Advent tests products with the latest service packs. If a product requires a specific service pack, it's noted.
- Advent provides performance and capacity guidelines for planning purposes only. Because many variables affect the performance of your system and the size of your data files, Advent assumes no liability for hardware purchase decisions. Please consult your systems consultant about specific configuration decisions.

About Advent Portfolio Exchange System Requirements

- Advent supports the English language versions only of third-party products such as Microsoft Windows operating systems, Microsoft Office, Microsoft Exchange, Microsoft Active Directory, and more.
- You can install Advent Portfolio Exchange (APX) in a two-server or a three-server configuration. In a two-server configuration, there is a database server and a separate application server that runs all other services, including IIS Web services. In a three-server configuration, you break out the IIS Web services to run on a machine other than the application server, providing for a separate database, application, and Web server. To support a larger number of concurrent users, you can add additional application and Web servers. To handle more simultaneous report requests, you can add additional report servers.
- **Important:** Server requirements vary based on a machine's function. If a server will support more than one function, it must meet the minimum requirements for each function, as if it was a dedicated server. For example, if you use one machine as your Application/Web Host server and your Packager Document Conversion server, verify that the machine meets the minimum requirements for each of those functions.
- In this document, you see requirement details for servers and workstations. For a high-level summary of changes from the previous release, see "Key Supported Product Changes in Advent Portfolio Exchange Release 4" on page 7.
- These requirements also apply to Rex Release 4.4.

Database Server			
Hardware	See the “Server Planning Capacity” section.		
Operating System	<ul style="list-style-type: none"> ■ Microsoft Windows Server 2008 (SP2 or later) ■ Microsoft Windows Server 2008 R2 (SP1 or later) 	<ul style="list-style-type: none"> Standard or Enterprise Standard or Enterprise 	<ul style="list-style-type: none"> 64-bit only 64-bit only
Microsoft SQL Server	<ul style="list-style-type: none"> ■ Microsoft SQL Server 2008 (SP1 or later) ■ Microsoft SQL Server 2008 R2 	<ul style="list-style-type: none"> Standard or Enterprise Standard or Enterprise 	<ul style="list-style-type: none"> 64-bit only 64-bit only
	<p>Note: Microsoft SQL Server delivered as part of Small Business Server is NOT supported.</p>		
	<p>Required Components</p> <ul style="list-style-type: none"> ■ Microsoft SQL Server Native Client 		
	<p>Additional Components Required for SSRS Reporting</p> <ul style="list-style-type: none"> ■ Microsoft SQL Server Reporting Services (SSRS) 2008 ■ Microsoft SQL Server 2008 Client Tools with Business Intelligence Development Studio (BIDS) 		
	<p>Database Collation Details</p> <p>Your choice for database collation varies:</p> <ul style="list-style-type: none"> ■ If you are upgrading from APX 3, you must continue to use the same database collation. ■ If you are installing APX for the first time and do not integrate with Moxy, the recommended collation is Latin1_General_CI_AS. These Greek and Western European language collations are also supported: Danish_Norwegian_CI_AS Finnish_Swedish_CI_AS French_CI_AS German_Phonebook_CI_AS Greek_CI_AS Icelandic_CI_AS Modern_Spanish_CI_AS ■ If you use Moxy, the database collations in Moxy and APX must match; nevertheless, the collation types can vary. For details, see KB Article 32546. 		
Other Software	Microsoft .NET Framework: Both Version 4.0 and Version 3.5 SP 1 (or later) are required.		
Database Clustering	<p>Database server clustering is supported for:</p> <ul style="list-style-type: none"> ■ No more than two nodes. ■ A single physical storage device (single quorum device server cluster). Disks in the storage device are typically redundant (Example: RAID 10). ■ Active-Passive configurations only. 		

Web/Application Server

Hardware	See the “Server Planning Capacity” section.		
Operating System	■ Microsoft Windows Server 2008 (SP2 or later)	Standard or Enterprise	64-bit only
	■ Microsoft Windows Server 2008 R2 (SP1 or later)	Standard or Enterprise	64-bit only
Other Software	Required Software		
	<ul style="list-style-type: none"> ■ Microsoft Internet Information Services (IIS) 7.5 or 7.0 ■ Microsoft .NET Framework 4.0 and 3.5 SP 1 (or later) ■ Microsoft Message Queuing 		
	Additional Software Required for Specific APX Features		
	<ul style="list-style-type: none"> ■ Saving report output in XLS format 	<ul style="list-style-type: none"> ■ Microsoft Excel 2010, Professional or Standard, 32-bit only ■ Microsoft Excel 2007 or 2003, Professional 	
	<p>TIP: If you plan to install the Packager Document Conversion Server on this machine, also refer to the requirements listed in “Packager Document Conversion Server (Optional)” on page 4.</p>		
Network Services and Communication Protocols	<ul style="list-style-type: none"> ■ For larger installations, Advent recommends a network bandwidth of at least 1 Gbps between the database and application servers. For smaller installations, Advent recommends a network bandwidth of at least 100 Mbps between the database and application servers. ■ Servers and client workstations must be members of a domain. APX does not support workgroups. ■ For remote VPN users (using DSL, or cable internet from home), Advent recommends at least 1.5 Mbps connections. ■ For remote users, APX supports front-office reporting and client management activities, but does not support back-office functions, such as posting transactions, scripting, or using Dataport. 		

Report Server (Optional)

You can add report servers to the environment to increase reporting capabilities for sites with many users and/or heavy report packaging requirements. The standard Application/Web server supports six simultaneous report requests. Each additional report server supports six more simultaneous report requests. Depending on estimated peak usage, you can configure one or more report servers.

Hardware	See the “Server Planning Capacity” section.		
Operating System	■ Microsoft Windows Server 2008 (SP2 or later)	Standard or Enterprise	64-bit only
	■ Microsoft Windows Server 2008 R2 (SP1 or later)	Standard or Enterprise	64-bit only
Other Software	Required Software		
	<ul style="list-style-type: none"> ■ Microsoft .NET Framework 4.0 and 3.5 SP 1 (or later) ■ Microsoft Message Queuing 		
	Additional Software Required for Specific APX Features		
	<ul style="list-style-type: none"> ■ Saving report output in XLS format 	<ul style="list-style-type: none"> ■ Microsoft Excel 2010, Professional or Standard, 32-bit only ■ Microsoft Excel 2007 or 2003, Professional 	

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Packager Document Conversion Server (Optional)

You can use a separate Package Document Conversion server for creating packages.

Hardware	See the “Server Planning Capacity” section.		
Operating System	<ul style="list-style-type: none"> ■ Microsoft Windows Server 2008 (SP2 or later) ■ Microsoft Windows Server 2008 R2 (SP1 or later) 	<ul style="list-style-type: none"> Standard or Enterprise Standard or Enterprise 	<ul style="list-style-type: none"> 64-bit only 64-bit only
Other Software	<p>Required Software</p> <ul style="list-style-type: none"> ■ Microsoft .NET Framework 4.0 and 3.5 SP 1 (or later) ■ Microsoft Message Queuing <p>Additional Software Required for Specific APX Features</p> <ul style="list-style-type: none"> ■ Generic content conversion ■ Microsoft Excel 2010, Professional or Standard, 32-bit only, or Microsoft Excel 2007, Professional ■ Microsoft Word 2010, Professional or Standard, 32-bit only, or Microsoft Word 2007, Professional ■ Microsoft PowerPoint 2010, Professional or Standard, 32-bit only, or Microsoft PowerPoint 2007, Professional 		

Exchange Server (Optional)

You use an Exchange Server for Exchange-integration features (e-mail capture and synchronization of contacts, tasks, and meetings).

Hardware	For production environments, Microsoft supports Exchange 2010 and 2007 server roles only on computers with a 64-bit processor.		
Operating System	Refer to product documentation available from http://www.microsoft.com		
Other Required Software	<ul style="list-style-type: none"> ■ Microsoft Exchange 2010 SP 1 Rollup 5 (Build 14.1.339.1) ■ Microsoft Exchange 2007 SP 3 Rollup 5 (Build 8.3.213.1) <p>Note: You must enable Web Services.</p>	<ul style="list-style-type: none"> Standard or Enterprise Standard or Enterprise 	<ul style="list-style-type: none"> 64-bit only 64-bit only

User Workstations

Operating System	<ul style="list-style-type: none"> ■ Microsoft Windows 7 (SP1 or later) Professional, Enterprise, or Ultimate 64- or 32-bit ■ Microsoft Windows XP (SP3 or later) Professional 32-bit only 		
Other Software	<p>Required Software</p> <ul style="list-style-type: none"> ■ Microsoft .NET Framework 4.0 and 3.5 SP 1 (or later) ■ Microsoft Internet Explorer 8.0 , 32-bit only Note: Due to Microsoft's support of Microsoft Silverlight on 32-bit browsers only, you must use the 32-bit version of Internet Explorer. Note: Support for Internet Explorer 9.0 is planned for a future release. <p>Additional Software Required for Specific APX Features</p> <table style="width: 100%; border: none;"> <tr> <td style="vertical-align: top;"> <ul style="list-style-type: none"> ■ APX BackOffice Utilities ■ APX SSRS reporting ■ Saving report output in XLS format ■ Print-merge and Packager functionality ■ Microsoft Exchange integration ■ Intellisyc integration </td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> ■ Microsoft Message Queuing ■ Microsoft SQL Server 2008 Client Tools with BIDS, Professional ■ Microsoft Excel 2010, Professional or Standard, 32-bit only ■ Microsoft Excel 2007, Professional ■ Microsoft Excel 2003, Professional ■ Microsoft Word 2010, Professional or Standard, 32-bit only ■ Microsoft Word 2007, Professional ■ Microsoft Word 2003, Professional Note: Word 2003 is supported only for generating print-merge documents from APX list pages, not for editing templates or generating print-merge content using Packager. ■ Microsoft Outlook 2010, 32-bit only ■ Microsoft Outlook 2007 ■ Microsoft Outlook 2003 </td> </tr> </table>	<ul style="list-style-type: none"> ■ APX BackOffice Utilities ■ APX SSRS reporting ■ Saving report output in XLS format ■ Print-merge and Packager functionality ■ Microsoft Exchange integration ■ Intellisyc integration 	<ul style="list-style-type: none"> ■ Microsoft Message Queuing ■ Microsoft SQL Server 2008 Client Tools with BIDS, Professional ■ Microsoft Excel 2010, Professional or Standard, 32-bit only ■ Microsoft Excel 2007, Professional ■ Microsoft Excel 2003, Professional ■ Microsoft Word 2010, Professional or Standard, 32-bit only ■ Microsoft Word 2007, Professional ■ Microsoft Word 2003, Professional Note: Word 2003 is supported only for generating print-merge documents from APX list pages, not for editing templates or generating print-merge content using Packager. ■ Microsoft Outlook 2010, 32-bit only ■ Microsoft Outlook 2007 ■ Microsoft Outlook 2003
<ul style="list-style-type: none"> ■ APX BackOffice Utilities ■ APX SSRS reporting ■ Saving report output in XLS format ■ Print-merge and Packager functionality ■ Microsoft Exchange integration ■ Intellisyc integration 	<ul style="list-style-type: none"> ■ Microsoft Message Queuing ■ Microsoft SQL Server 2008 Client Tools with BIDS, Professional ■ Microsoft Excel 2010, Professional or Standard, 32-bit only ■ Microsoft Excel 2007, Professional ■ Microsoft Excel 2003, Professional ■ Microsoft Word 2010, Professional or Standard, 32-bit only ■ Microsoft Word 2007, Professional ■ Microsoft Word 2003, Professional Note: Word 2003 is supported only for generating print-merge documents from APX list pages, not for editing templates or generating print-merge content using Packager. ■ Microsoft Outlook 2010, 32-bit only ■ Microsoft Outlook 2007 ■ Microsoft Outlook 2003 		

Server Planning Capacity

Based on your firm's profile, refer to the following recommendations which reflect the minimum hardware necessary for optimal performance in your environment. When you are planning hardware upgrades, refer to the guidelines in the Upgrade Priority section. There you see the relative ranking of hardware components in terms of their impact on performance. Advent recommends that you consider these rankings when you plan your hardware upgrades. Nevertheless, Advent provides performance and capacity guidelines for planning purposes only. Because many variables affect the performance of your system and the size of your data files, Advent assumes no liability for hardware purchase decisions. Please consult your systems consultant about specific configuration decisions.

	Environment 1: Up to 3,000 portfolios and 20 users	Environment 2: 3,000-10,000 portfolios and 21-50 users	Environment 3: 10,001-100,000 portfolios and 51-200 users
Database Server	<ul style="list-style-type: none"> ■ 2.5+ GHz Intel Xeon or AMD Opteron processor Total of two cores minimum ■ 4 GB RAM ■ 40 GB of free disk space 10K RPM disk drives Recommended: 15K RPM disk drives. Use more disks in RAID array for better performance. 	<ul style="list-style-type: none"> ■ 2.5+ GHz Intel Xeon or AMD Opteron processor Two processors minimum Total of four cores minimum Recommended: 64-bit, 2.8+ GHz ■ 4 GB RAM Recommended: 8GB RAM ■ 120 GB of free disk space 10K RPM disk drives Recommended: 15K RPM disk drives. Use more disks in RAID array for better performance. 	Please consult your Advent representative.
Application/ Web Server	<ul style="list-style-type: none"> ■ 2.5+ GHz Intel Xeon or AMD Opteron processor Total of two cores minimum ■ 2 GB RAM ■ 4 GB of free disk space 10K RPM disk drives Recommended: 15K RPM disk drives. Use more disks in RAID array for better performance. 	<ul style="list-style-type: none"> ■ 2.5+ GHz Intel Xeon or AMD Opteron processor Two processors minimum Total of four cores minimum Recommended: 64-bit, 2.8+ GHz ■ 4 GB RAM Recommended: 8GB RAM ■ 8 GB of free disk space 10K RPM disk drives Recommended: 15K RPM disk drives. Use more disks in RAID array for better performance. 	Please consult your Advent representative.
Report Server	<ul style="list-style-type: none"> ■ 2.5+ GHz Intel Xeon or AMD Opteron processor Total of two cores minimum ■ 2 GB RAM ■ 4 GB of free disk space 10K RPM disk drives Recommended: 15K RPM disk drives. Use more disks in RAID array for better performance. 	<ul style="list-style-type: none"> ■ 2.5+ GHz Intel Xeon or AMD Opteron processor Total of two cores minimum ■ 2 GB RAM ■ 8 GB of free disk space 10K RPM disk drives Recommended: 15K RPM disk drives. Use more disks in RAID array for better performance. 	Please consult your Advent representative.
Upgrade Priority	<ul style="list-style-type: none"> ■ Database server disks ■ Report server disks ■ Application/Web server disks 	<ul style="list-style-type: none"> ■ Database server disks ■ Database server CPU and memory ■ Report server disks ■ Application/Web server disks 	Please consult your Advent representative.

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Printers	Microsoft Windows-compatible printers. Note: This release of APX does not support printers with named printer trays for APX Packager. Contact Advent Support for a workaround for this issue.
Network	<ul style="list-style-type: none"> ■ Recommended network bandwidth for larger installations is 1 Gbps between the database and application servers, but at least 100 Mbps for smaller installations. ■ Recommend at least 1.5 Mbps connections for remote users over VPN. <ul style="list-style-type: none"> ■ APX supports remote users who complete fron-office reporting and client management tasks. ■ APX does not support remote users who complete back office tasks, such as downloading, posting, and scripting. ■ The servers and client workstations must be members of a domain. APX does not support workgroups.

Compatible Advent Products

Advent Product	Release	Advent Product	Release
Advent General Ledger Exchange	2.5* *Note: Advent GLX 2.5 does not support APX 4's new multicurrency functionality (assigning portfolio- or configuration-level base currencies) for trading and reporting.	Advent Warehouse	4.3
		DataExchange	3.0.1
		DTCC Interface	7.1, 6.0
		Moxy	7.3, 7.2, 7.1, 7.0, or 6.0 Update 3 Cumulative Hotfix
Advent Partner	7.3, 7.2, 7.1.1, 7.1.0, 5.0	Rex	4.4, 4.3
Advent Revenue Center	3.2, 3.1	Tradex	4.0 Update 1

Key Supported Product Changes in Advent Portfolio Exchange Release 4

This table shows highlights of the products that APX 4 supports and how that support has changed since APX 3. For details about specific machines and features, see individual sections in this document.

	Maintains support for:	Adds support for:	Drops support for:
Database Server			
Operating System	Microsoft Windows Server 2008 SP2, 64-bit	Microsoft Windows Server 2008 R2 SP1, 64-bit	Microsoft Windows Server 2003
Microsoft SQL Server	Microsoft SQL Server 2008 SP1, 64-bit	Microsoft SQL Server 2008 R2, 64-bit	Microsoft SQL Server 2008, SP1, 32-bit Microsoft SQL Server 2005
.NET Framework	.NET 3.5 SP1	.NET 4.0	
Web/Application and Report Servers			
Operating System	Microsoft Windows Server 2008 SP2, 64-bit	Microsoft Windows Server 2008 R2 SP1, 64-bit	Microsoft Windows Server 2003
Microsoft Office	Microsoft Office 2007 Microsoft Office 2003	Microsoft Office 2010, 32-bit only	
.NET Framework	.NET 3.5 SP1	.NET 4.0	

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	Maintains support for:	Adds support for:	Drops support for:
Packager Document Conversion Server			
Operating System	Microsoft Windows Server 2008 SP2, 64-bit	Microsoft Windows Server 2008 R2 SP1, 64-bit	Microsoft Windows Server 2003
Microsoft Office	Microsoft Office 2007	Microsoft Office 2010, 32-bit only	
activePDF DocConverter		activePDF DocConverter 2010	activePDF DocConverter 2009
.NET Framework	.NET 3.5 SP1	.NET 4.0	
Exchange Server			
Operating System	Microsoft Exchange Server 2007	Microsoft Exchange Server 2010	
Workstations			
Operating System	Microsoft Windows XP, 32-bit Microsoft Windows 7 SP1, 32- or 64-bit		Microsoft Vista
Internet Explorer	Internet Explorer 8		Internet Explorer 7
Microsoft Office	Microsoft Office 2007 Microsoft Office 2003	Microsoft Office 2010, 32-bit only	
.NET Framework	.NET 3.5 SP1	.NET 4.0	

Backup and Recovery Strategy

As you set up your server environment, you must plan your backup and recovery strategy. This may include hardware and software for possible tape backup and mirroring. Microsoft SQL Server offers backup and restore services, but third-party software may work best for the backup of the Windows Server itself. Advent recommends that you discuss your backup and recovery strategy with your network consultant and IT department.

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