

Software and Hardware Requirements for JustWare

Minimum Hardware requirements for JustWare database server*				
Processor		Intel Xeon or AMD Opteron, dual core or better		
Memory		4 GB or more		
1-20 Users		The database server and web server may be combined on a single server, in which case they will share system resources and server memory should be increased. †		
20+ Users		The database server and web server must be on separate hardware.		
<p>* Several factors are involved affecting performance of JustWare. Among them are network bandwidth, server speed (including processor, hard drive and system speeds), memory, and number and function of concurrent users. These specifications are the minimum.</p> <p>*Microsoft SQL clustering: If SQL clustering is set up for the operation of JustWare, a separate web server is required for the web service outside of the SQL cluster.</p> <p>† For optimum performance and scalability, it is recommended that the database tier and the web server tier are on separate physical machines.</p>				
Hardware recommendations for JustWare database server*†				
Clients	Processor	Memory‡	Hard-disk	Network**
1-20	Intel Xeon or AMD Opteron, dual core or better	4 GB or more	7200 RPM Serial-ATA, RAID 1 or better	100MB
21-50	Dual Intel Xeon or dual AMD Opteron, dual core or better	8 GB or more	10,000 RPM SCSI or Serial-ATA, RAID 1 or better	1GB
51-100	Dual Intel Xeon or dual AMD Opteron, quad core or better	16 GB or more	Separate 15,000 RPM SCSI or SAS for Log and Data files, RAID 1 or better	1GB
101-500	Quad Intel Xeon or quad AMD Opteron, quad core or better	32 GB or more	Separate 15,000 RPM SCSI or SAS for Log and Data files, RAID 10 or better. SSD RAID 1 can also be used.	1GB
501+	Contact a JustWare sales representative for hardware recommendations.			
<p>* Hard disk space requirements are based on the number of cases in the system. Total hard disk space is approximately 65KB per case (not including document storage). Document disk space may be off-loaded to another server location.</p> <p>† All recommendations are assuming JustWare, and ONLY JustWare, is running on the server. Any other applications on the server and/or network must be taken into consideration.</p> <p>‡ The amount of available memory should be greater than the database size.</p> <p>**<i>DEDICATED</i> bi-directional network bandwidth between the database server and the web server if they are installed on separate physical machines. This requirement can be ignored in the case that both the database and web tier run together on a single server.</p>				

Hardware requirements for JustWare web server*

Processor	Intel Xeon or AMD Opteron, dual core or better
Memory	4 GB or more
1-20 Users	The database server and web server may be combined on a single server, in which case they will share system resources and server memory should be increased. †
20+ Users	The database server and web server must be on separate hardware.

* Several factors are involved affecting performance of JustWare. Among them are network bandwidth, server speed (including processor, hard drive and system speeds), memory, and number and function of concurrent users. These specifications are the minimum.

Hardware recommendations for JustWare web server*†

Clients	Processor	Memory	Hard-disk	Network‡
1-50	Intel Xeon or AMD Opteron, dual core or better	4 GB or more	7200 RPM Serial-ATA	100MB
51-100	Dual Intel Xeon or dual AMD Opteron, dual core or better	8 GB or more	10,000 RPM SCSI or SAS disks	1GB
101-500	Dual Intel Xeon or dual AMD Opteron, quad core or better**	16 GB or more	15,000 RPM SCSI or SAS disks	1GB

501+ Contact a JustWare sales representative for hardware recommendations.

* In order to properly assess your hard disc requirements for your JustWare implementation you must carefully evaluate your paperless document needs. Begin by calculating your storage space requirement for documents generated inside of JustWare. This is done by multiplying the average number of JustWare documents generated per case by 0.5 MB (the average size of a JustWare document). Next, calculate your space requirement for external documents by multiplying your average number of external documents attached to a case by their average size. Once you have done this, use the following formula: Total Storage Space Per Year = (JustWare Documents Space Requirement + External Documents Space Requirement)*Cases Per Year.

† All recommendations are assuming JustWare, and ONLY JustWare, are running on the server. Any other applications on the server and/or network must be taken into consideration.

‡ *DEDICATED* bi-directional network bandwidth between the web server and the database server if they are installed on separate physical machines. This requirement can be ignored in the case that both the database and web tier run together on a single server.

New Dawn recommends the use of HTTPS (HTTP using SSL) for public web access of JustWare. Security certificates may be required and the purchase and setup are the responsibility of the Customer.

To ensure prioritized bandwidth in wide area network use, QoS (Quality of Service) is strongly recommended.

**It is recommended that a load balanced cluster is utilized for your web service.



Hardware requirements for JustWare client*

Processor	Intel Celeron or AMD 2.0 GHz or higher
Memory	1 GB recommended 2 GB recommended for Microsoft Vista
Hard-disk	100 MB
Bandwidth	JustWare will run with low bandwidth between the client and web server, but performance may be adversely affected depending on the types of data being tracked (for example, .wav or .mp3 files would require greater bandwidth to store and transfer than text documents would). For more information about optimal bandwidth requirements for your specific JustWare implementation, please contact your sales representative or New Dawn's support team.

* Requirements are to optimally run JustWare as well as JDA (JustWare Document Automation) and the authoring tool to author JDA templates.

Software requirements for JustWare database server

Windows Server	Windows Server 2008 64 bit	
	Windows Server 2003 64 bit	Service Pack 2
Microsoft SQL Server*	SQL Server 2005 64 bit service pack 2†	
SQL Server Reporting Services	SQL Reporting Services 2005 (Installs with SQL 2005 but must be configured independently)	
JustWare Database	5.0.x	
.NET Framework	3.0	
Internet Information Server	6.0 or later	

*SQL Database Server and Full Text Search must be installed.

† By default, nested triggers will be enabled on SQL Server 2005. However, JustWare will only run properly when nested triggers are disabled. JustWare cannot reside on a SQL instance with other SQL databases that require nested triggers to be enabled.

Software requirements for JustWare web server

Windows Server	Windows Server 2008 (32 or 64 bit)	
	Windows Server 2003 (32 or 64 bit)	Service Pack 2 or later
.NET Framework	3.0 or later	
Internet Information Server	6.0 or later	
Web Service Enhancements	3.0 or later	

Software requirements for JustWare client*

Windows	Windows XP	any edition—service pack 2 or later
	Windows Vista	any edition
Word Processor	Any Rich Text compatible word processor	
.NET Framework	3.0 or later	
Internet Explorer	6.0 or later	
* Requirements are to optimally run JustWare as well as JDA (JustWare Document Automation) and the authoring tool to author JDA templates.		

Bar coding requirements for JustWare

JustWare provides native bar coding functionality that is provided as part of the base application without additional New Dawn software costs to the Customer. Customer is merely required to purchase bar coding hardware, perform installation of bar coding hardware, and it is recommended to maintain a Support and Maintenance contract with the hardware manufacturer.

Recommendations and requirements are included below. Feel free to contact your New Dawn Account Executive to discuss further or to receive assistance on hardware requirements.

- Bar coding devices must be USB compatible.
- Bar coding devices must be a keyboard wedge barcode scanner
- Bar coding devices must be extended Code 39 programmable
- Bar coding devices must be able to read start and end characters as:
 - Start: reads \$A as an Insert key
 - End: reads \$Z as a F12 key

Electronic signature requirements for JustWare

JustWare provides native electronic signature functionality that is provided as part of the base application without additional New Dawn software costs to the Customer. Each JustWare user who is required to digitally sign documents requires a copy of Word 2007.