Platform Requirements for ABELDent v10 Clinical and Practice Management Software

Important Note: ABELDent will not perform at optimum levels on systems that meet only the minimum requirements. Minimum requirements are provided only for those attempting to extend the life of current hardware. If you are purchasing new hardware, we recommend that you purchase hardware that meets or exceeds our recommended specifications. **64 bit platforms are supported from ABELDent version 9.2.11 and above.**

Component	Recommended	Minimum	Details
File Server for 2-8 workstations	Intel i5 2.5 GHz or better (or AMD equivalent) 8.0 GB RAM, 500GB Hard disk, DVD. Windows Server 2008R2 or Windows 7 Professional or Ultimate	Intel Core 2 Duo 3.0 GHz or better (or AMD equivalent) 3 GB RAM, 80GB hard Disk, CD ROM Windows XP Pro with Service Pack 3	**Windows 7 Home, Vista Home and Windows XP Home are NOT supported. Windows 2000 is no longer supported by ABELDent 10** Faster processors are released every few months. Faster processors generally improve performance but the fastest processors often have a disproportionately high price. The best performance for the dollar is usually a step or two down from the fastest processor available. Recent Dual or Quad core processors will perform well. These include Core 2, i5, i7 from Intel and AMD equivenlents. Hard drives increase in capacity every few months. 120GB may be sufficient for basic ABELDent functions but the smallest drives now have several times that capacity. To store digital images, radiographs or scanned documents, 500GB or more is recommended. In general, the more space the better. Windows Server 2003/8 /8R2 Terminal Services is recommended to connect remote sites to a common server. Please contact ABEL technical support before using this approach if image capture or radiographic applications will be used at remote sites. Thin client appliances that only support 8 bit color are not supported as workstations that display images.
File Server for Greater than 8 workstations	Intel Xeon E5520 or better (or AMD equivalent) 12GB RAM, 1 TB Hard disk, DVD. Windows 2008 R2 Server with client access licenses for each workstation	Intel Core 2 Duo 3.0 GHz or better (or AMD equivalent), 8.0 GB RAM, 120 GB Hard disk, CD ROM Windows 2003 Server SP2 with client access licenses for each workstation	See above. Intel Xeon and AMD Opteron are both excellent and appropriate processors for larger servers. **Windows 2000 Server is no longer supported by ABELDent 10**
Client machines or Stand Alone System	Intel i5 2.5 GHz or better, 2GB RAM, 320GB Hard disk, DVD Windows 7 (Pro or Ultimate), Vista Business with Service Pack 1 or Windows XP Pro with Service Pack 3	Pentium 4 2.4 GHz or better (or AMD equivalent), 2 GB RAM, 8GB Hard disk, CD ROM, Windows XP Pro SP3	ABELDent 10 is designed for use with Windows 7 Pro, Windows 2003/8 Server, Windows XP Pro or Vista Business. Windows 7 Ultimate is also supported. ABELDent 10 does not support Windows 2000, Windows ME, Windows 98 SE, Windows NT4 or earlier operating systems. Use of unsupported operating systems can lead to failure of the software to operate or damage to system data. Recent Dual or Quad core processors will perform well. These include Core 2, i5, i7 from Intel and AMD equivenlents
Database (on server)	MS SQL Server is the standard database platform for ABELDent. The MDB platform will continue to be supported for a limited time for ABELDent users that already use ABELDent on the MDB platform. MS SQL Server 2008 (and R2) or 2005 (with SP3) is required for the SQL version of ABELDent. SQL Server 2000 is no longer supported. ABELDent supports MS SQL Server 2008 R2 or 2005 Standard Edition or Workgroup Edition. Client access licenses (CALs) are required for each workstation. As a Microsoft Gold Partner, ABEL can provide MS SQL Server Workgroup or Standard Edition Runtime licenses with ABELDent-SQL at an attractive price. SQL Server Standard Edition requires a server operating system (Windows Server 2008 SP1 or Windows Server 2003) and is recommended for systems with 8+ workstations. SQL Server Workgroup Edition works with W7 (Pro and Ultimate) and XP (Pro and Ultimate) and is recommended for systems with 7 or fewer workstations. ABELDent updates for an MDB database (Jet/Access) are available for clients already using ABELDent on that platform. MS SQL Server 2000 MSDE version (the desktop edition) is NOT SUPPORTED. ABELDent configurations where the SQL Server is on a different computer than the ABELDent Server, or named instances within an SQL Server, are currently NOT supported.		
Browser	Internet Explorer (IE) 8	IE 5.5 or better	
.NET Framework	MS .NET Framework 3.5	MS .NET Framework 3.5	Microsoft .NET Framework 3.5 requires XP Pro SP2 or Windows 2003 Server SP1.
Java	See Details column.	See Details column.	Java is not required for current ABELDent versions.
IIS	See Details column.	See Details column.	Internet Information Services (IIS) is required to run ABEL's ABELHealthNet Portal. IIS is included with Windows XP/Vista/Windows 7/Windows Server 2003/8 but not installed by default.
Display	19" LCD with 1280x1024x16 bit color	15" SVGA with 1024 x 768 16 bit color 60 Hz	**ABELDent ver 10 requires a minimum resolution of 1024 x 768**

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Backup Unit (on server)	Online offsite backup services or External hard disks (USB or SATA).	Any TBU supported with appropriate drivers, or DVD burner.	Remote backups via the Internet are recommended. External hard drives can also be used, but we recommend a drive for each day of the week so recent backups are not overwritten. At lease some backups should be stored offsite. Although CD burners work for data backups, they are not ideal as backup units since their capacity (700MB) does not allow full disk backups to be done easily on a single volume. DVD's would have sufficient capacity for a typical practice, but ease of use of the software and the knowledge required of the backup operator should also be taken into consideration.
Modem (on server)	US Robotics / 3COM Sportster 56 Kbps (External models are recommended)	US Robotics / 3COM Sportster 28 Kbps	We recommend a dedicated modem line. Do not select your main business line or any line that will interfere with regular office calls when the modem is in use. Customer's who have a high speed Internet connection, AND will be using ITRANS™ for EDI transmissions do not need a modem.
Network Interface Card	1 Gbps NIC	100 Mbps NIC	In all situations where computers share information on a network, each PC will require a network card or built in network interface.
Switch or Hub	1Gbps switch	100 Mbps switch	In a typical small business network the cables converge at an Ethernet switch. Gigabit speed switches are recomended. A port is required for each PC. Note: Wireless Network connections are not reliable enough for database conection s and should only be used for "thin clients"
Cable	Cat 6 or 5e Ethernet (See Details column)	Ethernet (See Details column)	Ethernet cable will be required in your office running from each computer to a switch or hub. The switch is normally located centrally in your office, possibly in a wiring closet.
Communication software (on server)	High speed Internet is strongly recommended for ABELDent support	PCAnywhere and a modem	ABEL provides support via the Internet using tools provided by ABEL. The client requires a high speed Internet connection and Internet Explorer.
Laser Printer	Any printer with appropriate Windows Drivers (32MB RAM recommended)	Any printer with appropriate Windows Drivers (min 8MB RAM)	All recent revisions of ABELDent support Windows GDI printing. HP P1606DN, 2000, 2015, 3005, and 4000 series printers are known to work with ABELDent.
Optional Color Inkjet Printer	Any color inkjet with appropriate Windows Drivers	Any color inkjet with appropriate Windows Drivers	For printing Charts & Images. Check the number of pages per minute the printer will print. Some are quite slow.
Uninterruptible Power Supply (UPS)	Any UPS matching the power required by your system. 1300-1500 VA is typical for a server.	Any UPS matching the power required by your system.	A good UPS is strongly recommended on your server to keep it running through short power outages, and allow time for a proper shutdown in the event of longer outages. Look for a UPS with good surge suppression and power regulation to protect your server from spikes and fluctuations in the power.
Imaging	Windows Driver Model (WDM) Video capture cards or USB cameras.	Windows Driver Model (WDM) Video capture cards or USB cameras.	Some camera's plug into a USB port and do not require Video capture cards. Cameras with only an RCA or S-Video connector typically connect via a video capture card. We have successfully tested the ATI Radion All-In-Wonder (the Value Edition VE does NOT work with foot pedals)
Optional Scanner	Twain	Twain	Any Twain compliant scanner will work with ABELDent
Sound Card & Speakers	See Details column.	See Details column.	A sound card and speakers or headphones are required for the ABELDent training videos, Optio Patient Education, and to view demo videos.
Headset	See Details column.	See Details column.	A USB headset will be required for users who will be using Perio Charting. The Microsoft Lifechat LX-3000 has been tested and found to work.
Antivirus Software	See Details column.	See Details column.	AntiVirus Software, configured to automatically check for definition updates daily, is Strongly recommended for every PC connected to the Internet.
Firewall / Router	See Details column.	See Details column.	A router or security appliance is strongly recommended for all Networks with a high speed Internet connection and when running ABELHealthNet Integration Services. A software Firewall would be adequate for computers with a dialup Internet connection. Note: Wireless Network connections are not reliable enough for database conection s and should only be used for "thin clients"
Internet Connection for Portal Services	High-speed cable connectio	High-speed internet	High speed Internet is required for the ABELHealthNet and new ABELPortal services.

Last Updated September 14, 2011