

Platform Requirements for ABELDent v11-14 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 recommended and supported from ABELDent version 9.2.11 and above.**

****Don't rely entirely on paper copies of these specifications. Always check our web site for the most current requirements.**

Component	Recommended	Minimum	Details
File Server for 2-8 workstations	Intel i5 2.5 GHz or better (or AMD equivalent) 8.0 GB RAM, 1TB Hard disk, DVD. Windows Server 2016 Or Windows Server 2012 R2 or Windows 10 Professional (64 bit) (English only)	Intel Core 2 Duo 3.0 GHz or better (or AMD equivalent) 4 GB RAM, 240 GB hard Disk, DVD ROM Windows 7 Pro or ultimate (64 bit strongly recommended) or Windows Server 2008R2 (English only)	<p>Windows Home Edition is NOT supported. Windows, Vista, XP and Windows server 2003 are no longer supported by Microsoft or ABELDent.</p> <p>ABELDent SQL is supported and tested on Windows 10 from ABELDent SQL v 12.10.6 or greater.</p> <p>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 equivalents.</p> <p>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, 1 TB or more is recommended. In general, the more space the better. Redundant hard disks are strongly recommended (RAID 1 or better).</p> <p>Windows Server 2016 or 2012/R2 Remote Desktop 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. ABELDent is tested on standard edition for server operating systems. Other editions are not supported.</p>
File Server for Greater than 8 workstations	Intel Xeon E3-1220 (v5) or better (or AMD equivalent) 12GB RAM, 1 TB Hard disk, DVD. Windows Server 2016 Windows Server 2012 R2 with client access licenses for each workstation (English only)	Intel i5 or better (or AMD equivalent), 8.0 GB RAM, 240 GB Hard disk, DVD ROM Windows Server 2008 R2 with client access licenses for each workstation (English only)	See above. Intel Xeon and AMD Opteron are both excellent and appropriate processors for larger servers. Windows Server 2000/2003 are no longer supported by Microsoft or ABELDent 11 - 14. Windows Server Foundation Edition is a great value for small practices that will not exceed 10-15 workstations (including access from offsite).
Client machines or Stand Alone System	Intel i5 2.5 GHz or better, 4GB RAM, 320GB Hard disk, DVD Windows 10 Pro (English only)	Intel Core 2 Duo 3.0 GHz or better (or AMD equivalent) 4 GB RAM, 120 GB Hard disk, CD ROM, Windows 7 Pro or ultimate (English only)	ABELDent is designed for use with Windows 10/8/7 Pro, Windows Server 2016/12/08 (English only) . Windows 7 Ultimate is also supported. Caution is advised with Windows 10 as your imaging, radiography and other programs might not be supported on Windows 10. Please check with your suppliers. ABELDent does not support Windows XP, Vista 2000, ME, 98 SE, 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 equivalents.
Database (on server)	<p>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.</p> <p>MS SQL Server 2016, 2014, 2012, or 2008 R2, with Client access licenses (CALs) for each workstation, is required for the SQL version of ABELDent. SQL Server 2000/2005 are no longer supported. For SQL customers Portal requires SQL 2008 R2 or greater. (Portal also works with our mdb platform).</p> <p>ABELDent supports MS SQL Server Standard Edition. Standard Edition is strongly preferred as the older SQL's with Workgroup Edition have a RAM limitation that is likely to cause performance problems. As a Microsoft Gold Partner, ABEL can provide MS SQL Server Standard Edition Runtime licenses with ABELDent-SQL at an attractive price. Enterprise Edition also works but is not required for most practices.</p> <p>Limited ABELDent updates for will be available for clients using ABELDent on a MDB database (Jet/Access). ABELDent recommends that ABELDent be run on MS SQL.</p>		
Browser	Internet Explorer (IE) 11	IE 9 or better	
.NET Framework	MS .NET Framework 4.x, 3.5	MS .NET Framework 4.x, 3.5	MS SQL Server still requires .NET 3.5
Display	21" with 1920x1080 x16 bit color or greater	17" LCD with 1280 x 1024 16 bit color	ABELDent requires a minimum resolution of 1280 x 1024. However, a higher resolution will provide an improved user experience in some areas of ABELDent.

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Backup Unit (on server)	Online offsite backup services or External hard disks (USB or SATA).	Online offsite backup services or External hard disks (USB or SATA).	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 as a minimum so that recent backups are not overwritten. At least some backups should be stored offsite. All external media, whether for backup or other purpose, should be encrypted before copying confidential information to it.
Modem (on server)	We recommend that the Internet rather than a modem be used for Electronic Claims	US Robotics / 3COM Sportster 28 Kbps	Customer's who have a high speed Internet connection, AND will be using ITRANS™ for EDI transmissions do not need a modem. 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.
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 interface card.
Switch	1Gbps switch	100 Mbps switch	In a typical small business network the cables converge at an Ethernet switch. Gigabit speed switches are recommended. A port is required for each PC. Note: Wireless Network connections are not reliable enough for database connections and should only be used for "thin clients".
Cable	Cat 6a, 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.
Internet Connectivity	High speed Internet is required	High speed Internet is required	ABEL provides support via the Internet using tools provided by ABEL. The client requires a high speed Internet connection and Internet Explorer. High speed Internet is also required for the ABEL Patient Portal services. The Internet is also increasingly being used for updates.
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	USB Camera	Windows Driver Model (WDM) Video capture cards or USB cameras.	Most modern cameras plug into a USB port and do not require Video capture cards. Old cameras with only an RCA or S-Video connector typically connect via a video capture card.
Optional Scanner	TWAIN	TWAIN	Any TWAIN compliant scanner will work with ABELDent
Optional Signature Pads	ePad (VP9801) or ePad-ink (VP9805)	See Details column.	ABELDent 11 - 14 will only support these two models. They can be ordered online from the ePadLink website at http://www.epadlink.com/
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 ABEL Portal Services. A software Firewall would be adequate for computers with a dialup Internet connection. Note: Wireless Network connections are not reliable enough for database connections and should only be used for "thin clients"