

# CyberLAB<sup>®</sup> / CyberPATH<sup>®</sup> Version 7.3 System Requirements Guide



A S P Y R A <sup>TM</sup>

## Includes:

- CyberLAB/CyberPATH Windows Requirements
- CyberLAB/CyberPATH Workstation Requirements





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## Revision History

This section contains a history of the changes made to this guide at each revision. It is important that you use the guides intended for the software version you are using. For more information about the current documentation available, contact ASPYRA.

- **Version LAB\_SRR\_V7.3.0\_1**

This is the original release of the *CyberLAB/CyberPATH System Requirements Guide* for version 7.3.0\_1.

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# CyberLAB/CyberPATH Windows System Requirements

## chapter 1

**T**his chapter of the *CyberLAB/CyberPATH System Requirements Guide* discusses the system requirements for each software component in the CyberLAB/CyberPATH Windows-based system. If your equipment does not meet these system requirements, the CyberLAB system may not function as desired. Hardware specifications are designed with an industry standard five-year lifespan in mind. Scalable cloud-based solutions do not have this limitation, but still require the same initial build specifications.

Hardware solutions beyond our CyberLAB Enterprise Package are available and will require custom configuration. Custom configurations may include separate application and database server hardware, and follow the same recommendations below except that database storage will reside on its own hardware appliance.

### In This Chapter...

CyberLAB/CyberPATH with DDS  
Application and Database System  
Requirements ..... 1-2

# CyberLAB/CyberPATH with DDS Application and Database System Requirements

Component	CyberLAB Essentials Package (Tier 1) <sup>1</sup>	CyberLAB Standard Package (Tier 2)	CyberLAB Enterprise Package (Tier 3)
<b>User Capacity</b>	Supports up to 15 simultaneous users, and up to 2,500 accessions per month	Supports up to 60 simultaneous users, and up to 20,000 accessions per month	Supports up to 100 simultaneous users, and up to 40,000 accessions per month
<b>Processor<sup>3</sup></b>	Quad core Intel Xeon E3 series 2.66Ghz or better	Quad core Intel Xeon E5 series 2.0Ghz or better. Six core recommended for over 30 users. Eight core recommended for over 50 users	2x Intel Xeon E5 series Quad core CPU's 2.0Ghz or better. Six core CPU's recommended up to 60 users. Eight core CPU's recommended over 80 users
<b>Memory<sup>3</sup></b>	2Gb required, 4Gb recommended	6Gb required. 16Gb recommended	8Gb required, 24Gb recommended
<b>Operating System<sup>4</sup></b>	Windows Server 2008 Standard. Windows Server 2012 Essentials recommended	Windows Server 2008 Enterprise x86 or Standard x64. Windows Server 2012 Standard recommended	Windows Server 2008 Enterprise x86 or Standard x64. Windows Server 2012 Standard recommended
<b>Database Software<sup>4</sup></b>	Microsoft SQL 2008 Standard or 2012 Express; Microsoft SQL 2012 Standard recommended for over 800 samples/month	Microsoft SQL 2008 Standard; Microsoft SQL 2012 recommended	Microsoft SQL 2008 or 2012 Standard. Microsoft SQL 2012 Enterprise recommended

Table 1-1: Application Server Requirements





Component	CyberLAB Essentials Package (Tier 1) <sup>1</sup>	CyberLAB Standard Package (Tier 2)	CyberLAB Enterprise Package (Tier 3)
<b>Application/System Storage<sup>3</sup></b>	RAID 1 Drive Array (1 pair) 7200 rpm SATA for Drive C partition: 80GB	RAID 1 Drive Array (1 pair) 10k SAS drives for Drive C partition: 150GB or 300GB including CyberPATH. 1TB recommended for imaging features	RAID 1 Drive Array (1 pair) 10k SAS drives for Drive C partition: 150GB or 500GB including CyberPATH. 1TB recommended for imaging features
<b>Database Storage<sup>3</sup></b>	RAID 1 Drive Array (1 pair) 7200rpm SATA for Drive D partition: 360GB	RAID 5 Drive Array 10k SAS drives for Drive D partition: 500GB minimum, 1TB recommended	RAID 5 Drive Array 10k SAS drives for Drive D partition: 1TB minimum, 2TB recommended
<b>Additional Storage<sup>3</sup></b>	N/A	Additional 1TB 10k SAS drive for temporary backup storage is recommended	Additional 2TB 10k SAS drive for temporary backup storage is recommended
<b>Network Infrastructure</b>	100 Base-T full duplex switching over Cat-5	100 Base-T full duplex switching over Cat-5	100 Base-T full duplex switching over Cat-5, 1000 Base-T (Gigabit) over Cat-5E/6 recommended
<b>Microsoft Word<sup>4</sup></b>	Microsoft Word 2010 with 1-user license for Clinical Report templates; Add an additional license if using CyberPATH	Microsoft Word 2010 with 1-user license for Clinical Report templates; Add an additional license if using CyberPATH	Microsoft Word 2010 with 1-user license for Clinical Report templates; Add an additional license if using CyberPATH

Table 1-1: Application Server Requirements

Component	CyberLAB Essentials Package (Tier 1) <sup>1</sup>	CyberLAB Standard Package (Tier 2)	CyberLAB Enterprise Package (Tier 3)
<b>Micro Focus Runtime Environment and Licenses</b>	Number of licenses determined by installation requirements (number of users, system interfaces, and instrument interfaces)	Number of licenses determined by installation requirements (number of users, system interfaces, and instrument interfaces)	Number of licenses determined by installation requirements (number of users, system interfaces, and instrument interfaces)
<b>Backup Solution<sup>2</sup></b>	Hardware purchase includes bundled external USB hard drive backup solution	User responsibility on purchased hardware	User responsibility on purchased hardware
<b>E-Mail Server<sup>2</sup></b>	SMTP e-mail server required to use DDS e-mail reporting features	SMTP e-mail server required to use DDS e-mail reporting features	SMTP e-mail server required to use DDS e-mail reporting features
<b>VPN Connections</b>	Standard VPN connection to ASPYRA required for 24/7/365 support; An additional tunnel is required for cloud-based solutions. Additional tunnels may be required for certain system interfaces.	Standard VPN connection to ASPYRA required for 24/7/365 support; An additional tunnel is required for cloud-based solutions. Additional tunnels may be required for certain system interfaces.	Standard VPN connection to ASPYRA required for 24/7/365 support; An additional tunnel is required for cloud-based solutions. Additional tunnels may be required for certain system interfaces.

Table 1-1: Application Server Requirements

Component	CyberLAB Essentials Package (Tier 1) <sup>1</sup>	CyberLAB Standard Package (Tier 2)	CyberLAB Enterprise Package (Tier 3)
Secure FTP Server <sup>2</sup>	Some system interfaces may require the addition of a 3rd party secure FTP server in order to function	Some system interfaces may require the addition of a 3rd party secure FTP server in order to function	Some system interfaces may require the addition of a 3rd party secure FTP server in order to function
Internet Connection Requirements (for cloud-based solutions)	Any broadband Internet connection supporting at least 512Kb/s download and 512Kb/s upload speed	Broadband Internet connection supporting at least 1.5Mb/s download and 1.5Mb/s upload speed through coaxial cable, or DSL. T1 or better recommended	Broadband Internet connection supporting at least 3.0Mb/s download and 3.0Mb/s upload speed through FiOS or Coaxial cable. Bonded pair T1 or better recommended

Table 1-1: Application Server Requirements

- [1] CyberLAB Essentials does not support the CyberPATH application as standard, and the specifications do not include optional modules such as support for faxing or e-mailing of reports. Additional modules may modify the requirements of the hardware.
- [2] Component is included as part of the package for all of our cloud-based solutions, and is offered directly by our 3rd party vendor. ASPYRA will work with the 3rd party vendor on your behalf to configure the components as needed.
- [3] Component is included as part of the package for all of our cloud-based solutions, and is offered directly by our 3rd party vendor. ASPYRA will work with the 3rd party vendor on your behalf to configure the components as needed. These components are fully scalable, and can be adjusted by ASPYRA as your business needs change. Scaling affects the monthly cost of the service, and may require adjustments to your Service Level Agreement.
- [4] Component is included as part of the package for all of our cloud-based solutions, and is offered directly by our 3rd party vendor. The vendor provides the latest version of any Microsoft-based software and required licenses, and will automatically keep the software up-to-date and HIPAA compliant by applying patches and service packs without the need for user intervention.



# CyberLAB/CyberPATH Workstation Requirements

## chapter 2

**T**his chapter of the *CyberLAB/CyberPATH System Requirements Guide* discusses the system requirements for workstation components in the CyberLAB/CyberPATH system. If your equipment does not meet these system requirements, the CyberLAB/CyberPATH system may not function as desired.

Recommended specifications are based on internal ASPYRA quality control testing procedures. Browser versions and operating systems newer than stated may not function correctly with CyberLAB, and are to be used at your own risk.

### In This Chapter...

CyberLAB/CyberPATH Workstations. 2-2

# CyberLAB/CyberPATH Workstations

Component	Minimum Requirements	Recommended Specifications
Operating System	Microsoft Windows Vista	Microsoft Windows 8.1
Processor	Intel Pentium 4 or equivalent	Intel Core series processor or equivalent
Memory	512MB	2GB
Hard Drive Storage	40GB 5400rpm IDE	120GB 7200rpm SATA
Monitor Resolution	1024x768 in 16 bit color	1024x768 in 32 bit color
Internet Browser	Microsoft Internet Explorer 8.0.760+	Microsoft Internet Explorer 11
Network Connection	100 Base-T Ethernet for local “Unlimited” users, broadband Internet connection for remote “WebGateway” users	Gigabit Ethernet for local “Unlimited” users, broadband Internet connection for remote “WebGateway” users

Table 2-1: Workstation System Requirements