Anatomic pathology computer systems

Part 1 of 12 *See accompanying article on page 14*	Cerner Corp. **Jenna Halvorson** jenna.halvorson@cerner.com 2800 Rockcreek Parkway Kansas City, MO 64117 816-201-7740 www.cerner.com	Cerner Corp. **Jenna Halvorson** jenna.halvorson@cerner.com 2800 Rockcreek Parkway Kansas City, MO 64117 816-201-7740 www.cerner.com
Name of anatomic pathology system	**Cerner CoPathPlus**	**Cerner Millennium PathNet**
First ever AP system installation	1982	1982
Most recent AP system installation (based on January 2010 survey deadline)	December 2009	November 2009
Last major product release for featured AP system	June 2009	October 2009
No. of contracts for sites operating AP system (hospitals/independent labs/clinics or group practices/other/foreign sites)	347 (290/40/1/1/15)†	256 (220/10/0/3–veterinary, correctional, public health/23)†
• No. of contracts that went live between Jan. 2009–Dec. 2009	15†	41†
• No. of contracts not yet live/No. of contracts signed between Jan. 2009–Dec. 2009	—	—
No. of sites operating AP system (No. of these sites outside U.S.)	347 (15–Canada, Saudi Arabia)	256 (10–Australia, Canada, England, Saudi Arabia, Singapore, others)
Percentage of installations that have standalone AP systems	100%	~50%
No. of employees in entire company	7,504	7,504
No. of employees dedicated to software development, installation, support	420	420
No. of workstations in sites operating AP system	—	not tracked
Range in No. of surgical pathology cases per year in sites operating system	2,000–900,000	2,000–500,000+
Range in No. of gynecologic cytology cases per year in sites operating system	2,000–1,000,000	<1,000–500,000+
Programming language(s)	PowerBuilder, C++	Java, Visual Basic, C++, Visual C
Databases and tools used	Microsoft SQL, Sybase	Oracle
Word processor(s) used	Microsoft Word, TxText Control	integrated
Operating system(s)	Windows 2000, 2003, 2008, XP, AIX	HP-UX, AIX, VMS
Features (listed as a percentage of live installs or based on availability)		
• Surgical pathology information system	100%	100%
• Cytology information system	95%	85%
• Autopsy information system	75%	60%
• Autopsy measurements and organ weights	not available	60%
• Specimen log-in/specimen tracking and retrieval	100%/100%	100%/100%
• Entry of block IDs/specimen labels	100%/90%	100%/100%
• Histology slide labels/bar-coded slide labels	90%/45%	100%/50%
• Linear bar codes/two-dimensional bar codes	40%/10%	50%/not available
• Histology worksheets	99%	100%
• Word processing—vendor specific	45%	100%
• Voice entry of gross description/voice entry of microscopic and final diagnosis	20%/20%	25%/25%
• Gross and microscopic images integrated in reports	40%	25%
• Electronic signature	99%	100%
• Remote printing of completed reports	2%	90%
• Direct fax reports	95%	90%
• Web-based remote inquiry of reports	10%	less than 10%
• Physician Web access for order entry	10%	less than 10%
• Natural language search capability	100%	100%
• Multi-site or multi-facility-wide area network	95%	50%
• Sound-alike retrieval of patient history	not available	100%
• Tumor registry reports/management reports	100%/100%	85%/100%
• Reports sufficient to comply with CLIA '88 regulations	100%	100%
• Comprehensive billing and accounts receivable	not available	less than 10%
• Interface to external billing system	90%	100%
• HIS interface: A/D/T	90%	100%
• HIS interface: result reporting/incoming clinical results	95%/2%	100%/installed
• Partin tables or Gleason score calculations	5%	5%
• Synoptic reporting	40%	40%
• Client services module	available through company's LIS or via third party	35%
• Consult management and reporting	50%	100%
Software provides indexed field in each test definition for LOINC code?	no	yes
Provide LOINC dictionary for each new installation?	no	yes
Routine results encoded in SNOMED (in version earlier than SNOMED CT)?	yes (at 80% of sites)	yes (at 85% of sites)
Routine results encoded in SNOMED CT?	yes (at 20% of sites)	no
AP system uses autoencoder to create SNOMED codes?	yes	yes
Percentage of installed sites that represent cases in free text	10%	15%
No. of installs that use system to provide cancer diagnoses or surveillance data to tumor registries or public health agencies via computer-to-computer interface	NAACCR Pathology Laboratory Electronic Reporting, vol. V, version 2.2 available but not installed/4+ via older NAACCR standard/nonstandard data feed available but No. of users not tracked	nonstandard data feed (custom extracts) available but No. of users not tracked
Complete AP application service provider solution?	yes	yes
Method of charging for ASP service	fixed fee	transaction based
Client software required	browser based	browser based
ASP information conduit	requires use of a private, dedicated circuit	requires use of a private, dedicated circuit
Client contracts supported from data center not operated by client	40†	279† (across all Cerner Millennium—not just lab clients)
How data center is operated	by vendor or by a third party (Perot/Dell, ACS)	by vendor
Other information systems interfaced	Epic, Eclipsys, Siemens, McKesson, GE Healthcare, Meditech, TDS, Keane	McKesson, Siemens, Epic, Eclipsys, GE Healthcare, others
Voice-recognition products or partners system uses	Nuance Dragon NaturallySpeaking	Nuance Dragon Medical Suite, other third-party tools
Histology and cytology devices interfaced	General Data, Shur/Mark, Thermo Shandon, Leica, Sakura cassette and slide labeling devices, Ventana, Dako	cassette writers, immunostainers, slide engravers, cameras
User interface in language other than English?	no	yes (French, German, Spanish)
Source code?	escrow	escrow
User group?	yes (meets via Internet quarterly and in person annually)	yes (meets via Internet quarterly and in person annually)
User can modify screens?	yes	yes
Cost (hardware/software/installation and training/monthly maintenance)		
• Smallest stand-alone system	—	—
• Largest stand-alone system	—	—
Base price of integrated system, excluding AP configuration	—	—
• Incremental cost to add smallest AP configuration	—	—
• Incremental cost to add largest AP configuration	—	—
Distinguishing features (supplied by vendor)	• digital slides, bar coding and advanced specimen tracking, advanced imaging, synoptic reporting capabilities, CCO certified • outstanding dedicated support • extreme flexibility to client workflow and report formats	• 30 years of continuous innovation in the laboratory and pathology markets • support for the entire patient clinical record within a single system • support for increased efficiencies and increased patient safety; throughkey capabilities, such as patented synoptic reporting, interfaces to laboratory devices, tracking of specimens from point of origin to laboratory and storage, integrated imaging, others
Note: a dash in lieu of an answer means company did not answer question or question is not applicable	†*sites (not contracts)*	†*sites (not contracts)*

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Survey editors: Raymond D. Aller, MD, and Hal Weiner

Anatomic pathology computer systems

Part 2 of 12 *See accompanying article on page 14*	Clinical Information Systems **Angela Woolley** sales@cislab.com 18805 Willamette Drive West Linn, OR 97068 800-869-0680 www.cislab.com	Computer Trust Corp. **David Liberman, MD** info@ctcsurge.com 1 State St. Boston, MA 02109-3507 617-557-9264 www.ctcsurge.com
Name of anatomic pathology system	**CISLab CPS**	**WinSurge**
First ever AP system installation	1988	1989
Most recent AP system installation (based on January 2010 survey deadline)	2009	first quarter 2010
Last major product release for featured AP system	December 2009	first quarter 2010
No. of contracts for sites operating AP system (hospitals/independent labs/clinics or group practices/other/foreign sites)	21 (2/17/0/0/2)	87 (35/52/0/0/0)
• No. of contracts that went live between Jan. 2009–Dec. 2009	3	5
• No. of contracts not yet live/No. of contracts signed between Jan. 2009–Dec. 2009	2/2	2/3
No. of sites operating AP system (No. of these sites outside U.S.)	19 (2–Singapore, Saipan)	103
Percentage of installations that have standalone AP systems	7%	100%
No. of employees in entire company	8	confidential
No. of employees dedicated to software development, installation, support	8	confidential
No. of workstations in sites operating AP system	2–23	5–3,000 (mean, 30)
Range in No. of surgical pathology cases per year in sites operating system	10,000–100,000	2,500–300,000
Range in No. of gynecologic cytology cases per year in sites operating system	10,000–100,000	0–250,000
Programming language(s)	Delphi, Cobol	Visual Basic, Caché, SQL
Databases and tools used	SQL	Object Caché, SQL, Crystal Reports, Microsoft Word document templates
Word processor(s) used	Microsoft Word, proprietary	Word, Rich Text, plain text
Operating system(s)	SCO Unix, Windows	Windows, Unix (user's choice)
Features (listed as a percentage of live installs or based on availability)		
• Surgical pathology information system	100%	100%
• Cytology information system	100%	81%
• Autopsy information system	10%	63%
• Autopsy measurements and organ weights	installed	63%
• Specimen log-in/specimen tracking and retrieval	100%/installed	100%/100%
• Entry of block IDs/specimen labels	installed/100%	100%/100%
• Histology slide labels/bar-coded slide labels	100%/100%	100%/56%
• Linear bar codes/two-dimensional bar codes	installed/installed	44%/13%
• Histology worksheets	installed	100%
• Word processing—vendor specific	installed	100%
• Voice entry of gross description/voice entry of microscopic and final diagnosis	available but not installed/available but not installed	25%/5%
• Gross and microscopic images integrated in reports	20%	78%
• Electronic signature	5%	100%
• Remote printing of completed reports	100%	59%
• Direct fax reports	100%	83%
• Web-based remote inquiry of reports	75%	57%
• Physician Web access for order entry	20%	56%
• Natural language search capability	installed	100%
• Multi-site or multi-facility-wide area network	installed	75%
• Sound-alike retrieval of patient history	not available	100%
• Tumor registry reports/management reports	installed/installed	100%/100%
• Reports sufficient to comply with CLIA '88 regulations	installed	100%
• Comprehensive billing and accounts receivable	50%	51% (charge capture with manual edit)
• Interface to external billing system	20%	43%
• HIS interface: A/D/T	10%	40%
• HIS interface: result reporting/incoming clinical results	available but not installed/available but not installed	43%/installed
• Partin tables or Gleason score calculations	available but not installed	30%
• Synoptic reporting	installed	100%
• Client services module	100%	100%
• Consult management and reporting	installed	100%
Software provides indexed field in each test definition for LOINC code?	yes	yes
Provide LOINC dictionary for each new installation?	no	no
Routine results encoded in SNOMED (in version earlier than SNOMED CT)?	yes	yes (at 10% of sites)
Routine results encoded in SNOMED CT?	yes	yes (at 5% of sites)
AP system uses autoencoder to create SNOMED codes?	no	yes
Percentage of installed sites that represent cases in free text	100%	100%
No. of installs that use system to provide cancer diagnoses or surveillance data to tumor registries or public health agencies via computer-to-computer interface	—	41% via NAACCR Pathology Laboratory Electronic Reporting, vol. V, version 2.2/41% via older NAACCR standard
Complete AP application service provider solution?	yes	no
Method of charging for ASP service	fixed fee or transaction based (user's choice)	—
Client software required	browser based or requires software be installed on a client PC (user's choice)	—
ASP information conduit	operates over the Internet or requires use of a private, dedicated circuit (user's choice)	—
Client contracts supported from data center not operated by client	0	0
How data center is operated	—	—
Other information systems interfaced	McKesson, Medical Manager, Healthland, GE Healthcare, Emdeon, others	Cerner, McKesson, Meditech, Siemens, GE Healthcare, others
Voice-recognition products or partners system uses	Nuance Dragon NaturallySpeaking	Nuance Dragon NaturallySpeaking Professional
Histology and cytology devices interfaced	none	slide engravers, slide writers, cassette writers, microscope cameras/Twain, Pax-It, Zebra bar-code labelers, others
User interface in language other than English?	no	yes
Source code?	no	escrow (user's option and expense)
User group?	no	no
User can modify screens?	no	yes
Cost (hardware/software/installation and training/monthly maintenance)		
• Smallest stand-alone system	$7.5k/$7.5k/—/$0.5k	$10k/$25k/0/$0.5k
• Largest stand-alone system	$50k/$25k/—/$1k	$250k/$2.5m/$2m/$45k
Base price of integrated system, excluding AP configuration	$10k	0
• Incremental cost to add smallest AP configuration	$5k/$5k/—/$0.5k	$10k/$25k/0/$0.5k
• Incremental cost to add largest AP configuration	$5k/$75k/—/$1k	$250k/$2.5m/$2m/$45k
Distinguishing features (supplied by vendor)	• high quality; low cost; leasing available • user friendly • willingness to customize	• puts you in control of your lab • thorough tracking, labeling, and positive patient identification via WinsTrack module • cost-effective WinSurge Entree version for small and insource laboratories

Note: a dash in lieu of an answer means company did not answer question or question is not applicable

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Anatomic pathology computer systems

Part 3 of 12 *See accompanying article on page 14*	Cortex Medical Management Systems **Judith Krebs/Stan Gordon** jkrebs@cortexmed.com/sgordon@cortexmed.com 2107 Elliott Ave., Suite 201 Seattle, WA 98121 206-812-6981 www.cortexmed.com	Elekta Impac Software **Kymberly Calvo** kymberly.calvo@elekta.com 100 Mathilda Place, 5th floor Sunnyvale, CA 94086 408-830-8700 www.elekta.com/powerpath
Name of anatomic pathology system	**The Gold Standard**	**PowerPath**
First ever AP system installation	1986	1986
Most recent AP system installation (based on January 2010 survey deadline)	2009	December 2009
Last major product release for featured AP system	2009	April 2009
No. of contracts for sites operating AP system (hospitals/independent labs/clinics or group practices/other/foreign sites)	40 (12/25/3/0/0)	236 (187/45/0/0/4)
• No. of contracts that went live between Jan. 2009–Dec. 2009	1	13
• No. of contracts not yet live/No. of contracts signed between Jan. 2009–Dec. 2009	0	9/11
No. of sites operating AP system (No. of these sites outside U.S.)	40	476 (4–Canada)
Percentage of installations that have standalone AP systems	50%	35%
No. of employees in entire company	12	2,400
No. of employees dedicated to software development, installation, support	6	—
No. of workstations in sites operating AP system	1–50	5–620 (mean, 40)
Range in No. of surgical pathology cases per year in sites operating system	4,000–60,000	1,500–150,000
Range in No. of gynecologic cytology cases per year in sites operating system	0–175,000	5,000–350,000
Programming language(s)	Visual Basic	C++, .Net, Borland Delphi
Databases and tools used	Microsoft SQL 2008	Microsoft SQL
Word processor(s) used	Microsoft Word 2003	Microsoft Word
Operating system(s)	Windows 2008	Windows
Features (listed as a percentage of live installs or based on availability)		
• Surgical pathology information system	100%	100%
• Cytology information system	92%	100%
• Autopsy information system	50%	installed
• Autopsy measurements and organ weights	50%	installed
• Specimen log-in/specimen tracking and retrieval	100%/100%	100%/100%
• Entry of block IDs/specimen labels	100%/15%	100%/100%
• Histology slide labels/bar-coded slide labels	95%/20%	100%/installed
• Linear bar codes/two-dimensional bar codes	20%/available first quarter 2010	installed/installed
• Histology worksheets	95%	100%
• Word processing—vendor specific	0	100%
• Voice entry of gross description/voice entry of microscopic and final diagnosis	25% through company's LIS or via third party/25% through company's LIS or via third party	installed/installed
• Gross and microscopic images integrated in reports	50%	30%
• Electronic signature	95%	100%
• Remote printing of completed reports	40%	100%
• Direct fax reports	85%	100%
• Web-based remote inquiry of reports	40%	18%
• Physician Web access for order entry	not available	not available
• Natural language search capability	100%	100%
• Multi-site or multi-facility-wide area network	25%	50%
• Sound-alike retrieval of patient history	not available	100%
• Tumor registry reports/management reports	80%/100%	100%/100%
• Reports sufficient to comply with CLIA '88 regulations	100%	100%
• Comprehensive billing and accounts receivable	68%	100%
• Interface to external billing system	10%	100%
• HIS interface: A/D/T	50%	98%
• HIS interface: result reporting/incoming clinical results	50%/not available	98%/1%
• Partin tables or Gleason score calculations	10%	1%
• Synoptic reporting	70%	installed
• Client services module	not available	100%
• Consult management and reporting	100%	85%
Software provides indexed field in each test definition for LOINC code?	no	no
Provide LOINC dictionary for each new installation?	no	no
Routine results encoded in SNOMED (in version earlier than SNOMED CT)?	yes (at 5% of sites)	yes
Routine results encoded in SNOMED CT?	no	no
AP system uses autoencoder to create SNOMED codes?	no	no
Percentage of installed sites that represent cases in free text	100%	not tracked
No. of installs that use system to provide cancer diagnoses or surveillance data to tumor registries or public health agencies via computer-to-computer interface	10 via nonstandard data feed	2 via NAACCR Pathology Laboratory Electronic Reporting, vol. V, version 2.2/3 via nonstandard data feed
Complete AP application service provider solution?	yes	no
Method of charging for ASP service	fixed fee	—
Client software required	requires software be installed on a client PC	—
ASP information conduit	requires use of a private, dedicated circuit	—
Client contracts supported from data center not operated by client	6	—
How data center is operated	by a third party (Ad Host)	—
Other information systems interfaced	Meditech, 4Medica, Atlas, GE Healthcare, Cerner, Sunquest, Orchard, CPL, Epic, GPMS, LastWord, McKesson, others	Eclipsys, Cerner, Siemens, Sunquest, McKesson, Meditech, SCC Soft Computer, 4Medica, Epic, GE Healthcare, others
Voice-recognition products or partners system uses	Nuance Dragon NaturallySpeaking	Nuance Dragon NaturallySpeaking, Voicebrook
Histology and cytology devices interfaced	Ventana, Digene	Shur/Mark, Shandon, Leica, Sakura, General Data, Ventana, Olympus, Nikon, Diagnostic Instruments, Pixera, others
User interface in language other than English?	no	no
Source code?	escrow	escrow
User group?	yes (meets via Internet monthly, in person every 18 months)	yes (meets in person via 1 national conference and 4–6 regional conferences annually)
User can modify screens?	no	yes
Cost (hardware/software/installation and training/monthly maintenance)		
• Smallest stand-alone system	—/no charge/$8k/$0.4k per user	—
• Largest stand-alone system	—/$100k/$25k/$1.75k	—
Base price of integrated system, excluding AP configuration	$70k	—
• Incremental cost to add smallest AP configuration	—/$2.5k/$1.4k per day/$0.044k	—
• Incremental cost to add largest AP configuration	—/$1k/$1.4k per day/$0.0175k	—
Distinguishing features (supplied by vendor)	• 27-years experience specializing in anatomic pathology, excelling in the reference lab environment • affordable SaaS/ASP subscription service using the same AP software offered to customers who use the Enterprise version • mature product with outstanding implementation process and support	• fully integrates the advanced materials processing tracking system that supports bar-code labeling and scanning using two-dimensional bar codes • digital pathology interface provides interoperability between PowerPath and several industry-leading, whole-slide imaging systems • best-of-breed product backed by company's commitment to outstanding customer service

Note: a dash in lieu of an answer means company did not answer question or question is not applicable

Tabulation does not represent an endorsement by the College of American Pathologists.

Anatomic pathology computer systems

Part 4 of 12 *See accompanying article on page 14*	eTeleNext **Joseph Nollar** sales@etelenext.com 213 Technology Drive, Suite 200 Irvine, CA 92618 949-365-0952 www.etelenext.com	Healthvision, a Lawson Company **Alli Kelso** info@healthvision.com 5030 Riverside Drive, Suite 300 Irving, TX 75039 469-420-2500 www.healthvision.com
Name of anatomic pathology system	**AP Anywhere**	**TD-Synergy Anatomic Pathology†**
First ever AP system installation	2004	1974
Most recent AP system installation (based on January 2010 survey deadline)	2010	August 2009
Last major product release for featured AP system	December 2009	—
No. of contracts for sites operating AP system (hospitals/independent labs/clinics or group practices/other/foreign sites)	19 (0/18/0/1–Bridge Laboratories, ASP/0)	185 (3/0/0/0/182)
• No. of contracts that went live between Jan. 2009–Dec. 2009	3	2
• No. of contracts not yet live/No. of contracts signed between Jan. 2009–Dec. 2009	3/5	1/1
No. of sites operating AP system (No. of these sites outside U.S.)	21	196 (192–Canada, Germany, France, Netherlands, U.K., Italy, Spain)
Percentage of installations that have standalone AP systems	95%	43%
No. of employees in entire company	19	434
No. of employees dedicated to software development, installation, support	15	7
No. of workstations in sites operating AP system	1–80 (mean, 38)	2–112 (mean, 45)
Range in No. of surgical pathology cases per year in sites operating system	3,000–75,000	5,000–65,000
Range in No. of gynecologic cytology cases per year in sites operating system	3,000–75,000	2,500–150,000
Programming language(s)	C++ .Net	C++
Databases and tools used	SQL 2008	Microsoft SQL, Oracle
Word processor(s) used	Microsoft Word	Microsoft Word
Operating system(s)	Windows	Windows, Linux, Unix
Features (listed as a percentage of live installs or based on availability)		
• Surgical pathology information system	100%	100%
• Cytology information system	20%	90%
• Autopsy information system	not available	65%
• Autopsy measurements and organ weights	not available	installed
• Specimen log-in/specimen tracking and retrieval	100%/100%	75%/50%
• Entry of block IDs/specimen labels	100%/100%	100%/100%
• Histology slide labels/bar-coded slide labels	100%/100%	99%/99%
• Linear bar codes/two-dimensional bar codes	80%/20%	94%/5%
• Histology worksheets	75%	85%
• Word processing—vendor specific	100%	—
• Voice entry of gross description/voice entry of microscopic and final diagnosis	10%/10%	20%/20%
• Gross and microscopic images integrated in reports	20%	installed
• Electronic signature	100%	95%
• Remote printing of completed reports	100%	100%
• Direct fax reports	100%	90%
• Web-based remote inquiry of reports	100%	30%
• Physician Web access for order entry	50%	5%
• Natural language search capability	100%	25%
• Multi-site or multi-facility-wide area network	55%	45%
• Sound-alike retrieval of patient history	65%	not available
• Tumor registry reports/management reports	10%/100%	45%/100%
• Reports sufficient to comply with CLIA '88 regulations	100%	30%
• Comprehensive billing and accounts receivable	40%	40%
• Interface to external billing system	70%	25%
• HIS interface: A/D/T	15%	60%
• HIS interface: result reporting/incoming clinical results	15%/15%	10%/installed
• Partin tables or Gleason score calculations	65%	10%
• Synoptic reporting	65%	75%
• Client services module	75%	not available
• Consult management and reporting	90%	100%
Software provides indexed field in each test definition for LOINC code?	yes	yes
Provide LOINC dictionary for each new installation?	no	no
Routine results encoded in SNOMED (in version earlier than SNOMED CT)?	no	yes (at 10% of sites)
Routine results encoded in SNOMED CT?	yes	yes (at 50% of sites)
AP system uses autoencoder to create SNOMED codes?	yes	yes
Percentage of installed sites that represent cases in free text	0	40%
No. of installs that use system to provide cancer diagnoses or surveillance data to tumor registries or public health agencies via computer-to-computer interface	NAACCR Pathology Laboratory Electronic Reporting, vol. V, version 2.2, available but not installed/nonstandard data feed available but not installed	nonstandard data feed available but not installed
Complete AP application service provider solution?	yes	no
Method of charging for ASP service	fixed fee or transaction based (user's choice)	—
Client software required	browser based	—
ASP information conduit	operates over the Internet	—
Client contracts supported from data center not operated by client	3	—
How data center is operated	by a third party (Rackspace)	—
Other information systems interfaced	Cortex, GE Healthcare, Misys, Meditech, Cerner	MediSolution, SCC Soft Computer, Keane, Healthvision, Misys, GE Healthcare, Meditech
Voice-recognition products or partners system uses	Voicebrook	Nuance Dragon, any Microsoft Word-compatible product
Histology and cytology devices interfaced	Beckman Coulter, BD, Ventana, Cytec, Dako ACIS, Trestle, Aperio, BioImagene, FCS Express, others	SurgiPath, Ventana stainers, Fisher Scientific cassette printers
User interface in language other than English?	no	yes (French, Spanish, German, Italian, Korean, Chinese)
Source code?	escrow	escrow
User group?	yes (meets via Internet)	yes (meets in person annually)
User can modify screens?	yes	yes
Cost (hardware/software/installation and training/monthly maintenance)		
• Smallest stand-alone system	$20k/$152k/$5k/$2k	$20k/$50k/$15k/$0.833k
• Largest stand-alone system	$85k/$350k/$30k/$45k	$50k/$30k/$40k/$50k
Base price of integrated system, excluding AP configuration	—	$280k
• Incremental cost to add smallest AP configuration	—	—
• Incremental cost to add largest AP configuration	—	—
Distinguishing features (supplied by vendor)	• product branded for client • client-controlled, user-defined, custom report builder, including images, graphs, tables, specimen maps, more • originator of virtual lab tools for tech-only flow cytometry, immunohistochemistry, fluorescence in situ hybridization, others	• complete online history, including images and retrospective review • positive sample/slide ID with bar codes for efficient paperless workflow • integration of forms technology to provide infinite user-defined data fields

Note: a dash in lieu of an answer means company did not answer question or question is not applicable

†AP system software supplied by Technidata

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Anatomic pathology computer systems

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McKesson Corp.
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Alpharetta, GA 30005
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Name of anatomic pathology system	LigoLab	Horizon Anatomic Pathology
First ever AP system installation	December 2006	2008
Most recent AP system installation (based on January 2010 survey deadline)	January 2009	January 2010
Last major product release for featured AP system	December 2009	January 2010
No. of contracts for sites operating AP system (hospitals/independent labs/clinics or group practices/other/foreign sites)	9 (0/9/0/0/0)	11 (10/1/0/0/0)
• No. of contracts that went live between Jan. 2009–Dec. 2009	4	1
• No. of contracts not yet live/No. of contracts signed between Jan. 2009–Dec. 2009	3/3	9/5
No. of sites operating AP system (No. of these sites outside U.S.)	17	2
Percentage of installations that have standalone AP systems	80%	0
No. of employees in entire company	17	32,000
No. of employees dedicated to software development, installation, support	13	80
No. of workstations in sites operating AP system	12–60 (mean, 25)	5–15 (mean, 10)
Range in No. of surgical pathology cases per year in sites operating system	5,000–50,000	not tracked
Range in No. of gynecologic cytology cases per year in sites operating system	24,000–120,000	not tracked
Programming language(s)	Java, C++	Java, .Net framework, C++
Databases and tools used	Microsoft SQL, Oracle	Oracle 10g
Word processor(s) used	integrated	Microsoft Word
Operating system(s)	Windows, Linux, Macintosh	Windows, Linux, HP-UX, AIX
Features (listed as a percentage of live installs or based on availability)		
• Surgical pathology information system	100%	installed
• Cytology information system	100%	installed
• Autopsy information system	0	installed
• Autopsy measurements and organ weights	0	installed
• Specimen log-in/specimen tracking and retrieval	100%/100%	installed/installed
• Entry of block IDs/specimen labels	100%/100%	installed/installed
• Histology slide labels/bar-coded slide labels	100%/100%	installed/installed
• Linear bar codes/two-dimensional bar codes	100%/70%	installed/installed
• Histology worksheets	100%	installed
• Word processing—vendor specific	0	available through third party
• Voice entry of gross description/voice entry of microscopic and final diagnosis	80%/70%	available through third party/available through third party
• Gross and microscopic images integrated in reports	100%	installed
• Electronic signature	100%	installed
• Remote printing of completed reports	100%	available through company's LIS
• Direct fax reports	100%	available through company's LIS
• Web-based remote inquiry of reports	100%	available through McKesson Physician Portal
• Physician Web access for order entry	100%	not available
• Natural language search capability	100%	installed
• Multi-site or multi-facility-wide area network	100%	installed
• Sound-alike retrieval of patient history	100%	installed
• Tumor registry reports/management reports	50%/100%	installed/installed
• Reports sufficient to comply with CLIA '88 regulations	100%	installed
• Comprehensive billing and accounts receivable	60%	available through third party
• Interface to external billing system	80%	installed
• HIS interface: A/D/T	50%	installed
• HIS interface: result reporting/incoming clinical results	80%/75%	installed/installed
• Partin tables or Gleason score calculations	100%	not available
• Synoptic reporting	100%	installed
• Client services module	70%	not available
• Consult management and reporting	60%	installed
Software provides indexed field in each test definition for LOINC code?	yes	no
Provide LOINC dictionary for each new installation?	yes	no
Routine results encoded in SNOMED (in version earlier than SNOMED CT)?	yes (at 30% of sites)	no
Routine results encoded in SNOMED CT?	no	yes (at 100% of sites)
AP system uses autoencoder to create SNOMED codes?	no	no
Percentage of installed sites that represent cases in free text	60%	none
No. of installs that use system to provide cancer diagnoses or surveillance data to tumor registries or public health agencies via computer-to-computer interface	NAACCR Pathology Laboratory Electronic Reporting, vol. V, version 2.2, available but not installed	—
Complete AP application service provider solution?	yes	no
Method of charging for ASP service	fixed fee or transaction based (user's choice)	—
Client software required	browser based or requires software be installed on a client PC (user's choice)	—
ASP information conduit	operates over the Internet	—
Client contracts supported from data center not operated by client	3	—
How data center is operated	by vendor or by a third party (3T Systems)	—
Other information systems interfaced	Misys, Meditech, Cerner, Schuyler House, NextGen, others	McKesson
Voice-recognition products or partners system uses	Nuance Dragon NaturallySpeaking	Microsoft Word, Nuance Dragon applications
Histology and cytology devices interfaced	immunostainers, Twain-compatible microscope cameras, slide and cassette printers, Dako, Lumenera, Leica, Zebra, BioImagene	Aperio, BioImagene whole-slide imaging systems, Leica cassette and slide labelers (interfaces available on request)
User interface in language other than English?	yes (on request)	no
Source code?	escrow	escrow
User group?	yes (meets via Internet quarterly)	yes (meets in person annually)
User can modify screens?	yes	yes
Cost (hardware/software/installation and training/monthly maintenance)		
• Smallest stand-alone system	$5k/$40k/$7k/$0.7k	—
• Largest stand-alone system	$50k/$600k/$40k/$8k	—
Base price of integrated system, excluding AP configuration	—	—
• Incremental cost to add smallest AP configuration	—	—
• Incremental cost to add largest AP configuration	—	—
Distinguishing features (supplied by vendor)	• highly integrated system with document imaging, specimen tracking, clinical, molecular, AP, digital pathology, billing, advanced reporting, and mature interfacing engine • rule-based system; can be configured to adapt all workflows; dynamic report templates • robust, scalable, and open software; highly intuitive user interface; first-class customer service	• revolutionary design that is task based so the right user is performing the right task on the right patient on the right specimen at the right time • pathologist console supporting single point of access for patient history, view/include clinical results, view/include whole-slide images, view/modify/sign diagnostic report, more • extensive use of bar coding for patient safety and asset tracking as well as use of industry-standard embedded tools, such as speech navigation and speech recognition

Note: a dash in lieu of an answer means company did not answer question or question is not applicable

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Anatomic pathology computer systems

Part 6 of 12 *See accompanying article on page 14*	Medical Information Technology **Paul Berthiaume** pberthiaume@meditech.com Meditech Circle Westwood, MA 02090 781-821-3000 www.meditech.com	Medical Information Technology **Paul Berthiaume** pberthiaume@meditech.com Meditech Circle Westwood, MA 02090 781-821-3000 www.meditech.com
Name of anatomic pathology system	**Meditech Anatomical Pathology—client/server**	**Meditech Anatomical Pathology—Magic**
First ever AP system installation	1978	1978
Most recent AP system installation (based on January 2010 survey deadline)	January 2010	August 2009
Last major product release for featured AP system	April 2008	October 2009
No. of contracts for sites operating AP system (hospitals/independent labs/clinics or group practices/other/foreign sites)	— (216/—/—/—/45)†	— (367/—/—/—/69)†
• No. of contracts that went live between Jan. 2009–Dec. 2009	15 (in U.S.)†	4 (in U.S.)†
• No. of contracts not yet live/No. of contracts signed between Jan. 2009–Dec. 2009	41/248†	52/350†
No. of sites operating AP system (No. of these sites outside U.S.)	231 (26–United Arab Emirates, Canada, Bahamas)	611 (55–Canada, Ireland, United Kingdom)
Percentage of installations that have standalone AP systems	—	—
No. of employees in entire company	2,792	2,792
No. of employees dedicated to software development, installation, support	105	105
No. of workstations in sites operating AP system	not tracked	not tracked
Range in No. of surgical pathology cases per year in sites operating system	not tracked	not tracked
Range in No. of gynecologic cytology cases per year in sites operating system	not tracked	not tracked
Programming language(s)	Magic	Magic
Databases and tools used	Meditech	Meditech
Word processor(s) used	Microsoft Word, Rich Text Editor	Microsoft Word, Rich Text Editor
Operating system(s)	server: Microsoft Windows 2000, 2003, 2008 Service Pack 1 Server Standard Edition for main patient database; client: Windows 2000 Pro, XP, Vista, XP Tablet	server: Microsoft Windows 2000, 2003, 2008 Service Pack 1 Server Standard Edition for main patient database; client: Windows 2000 Pro, XP, Vista, XP Tablet
Features (listed as a percentage of live installs or based on availability)		
• Surgical pathology information system	100%	100%
• Cytology information system	100%	100%
• Autopsy information system	100%	100%
• Autopsy measurements and organ weights	installed	installed
• Specimen log-in/specimen tracking and retrieval	100%/100%	100%/100%
• Entry of block IDs/specimen labels	100%/100%	100%/100%
• Histology slide labels/bar-coded slide labels	100%/100%	100%/100%
• Linear bar codes/two-dimensional bar codes	100%/100%	100%/100%
• Histology worksheets	100%	100%
• Word processing—vendor specific	100%	100%
• Voice entry of gross description/voice entry of microscopic and final diagnosis	installed/installed	installed/installed
• Gross and microscopic images integrated in reports	100%	100%
• Electronic signature	100%	100%
• Remote printing of completed reports	100%	100%
• Direct fax reports	100%	100%
• Web-based remote inquiry of reports	100%	100%
• Physician Web access for order entry	100%	100%
• Natural language search capability	100%	100%
• Multi-site or multi-facility-wide area network	100%	100%
• Sound-alike retrieval of patient history	100%	100%
• Tumor registry reports/management reports	100%/100%	100%/100%
• Reports sufficient to comply with CLIA '88 regulations	installed	installed
• Comprehensive billing and accounts receivable	installed	installed
• Interface to external billing system	installed	installed
• HIS interface: A/D/T	installed	installed
• HIS interface: result reporting/incoming clinical results	installed/installed	installed/installed
• Partin tables or Gleason score calculations	installed	installed
• Synoptic reporting	installed	installed
• Client services module	100%	100%
• Consult management and reporting	100%	100%
Software provides indexed field in each test definition for LOINC code?	yes	yes
Provide LOINC dictionary for each new installation?	yes	yes
Routine results encoded in SNOMED (in version earlier than SNOMED CT)?	yes (at 100% of sites)	yes (at 100% of sites)
Routine results encoded in SNOMED CT?	yes	no
AP system uses autoencoder to create SNOMED codes?	no	no
Percentage of installed sites that represent cases in free text	—	—
No. of installs that use system to provide cancer diagnoses or surveillance data to tumor registries or public health agencies via computer-to-computer interface	—	—
Complete AP application service provider solution?	no	no
Method of charging for ASP service	—	—
Client software required	—	—
ASP information conduit	—	—
Client contracts supported from data center not operated by client	—	—
How data center is operated	—	—
Other information systems interfaced	Sunquest, McKesson, Siemens, others	Sunquest, McKesson, Siemens, others
Voice-recognition products or partners system uses	Nuance Dragon NaturallySpeaking	Nuance Dragon NaturallySpeaking
Histology and cytology devices interfaced	—	—
User interface in language other than English?	no (Spanish in development)	no
Source code?	escrow	escrow
User group?	no	no
User can modify screens?	yes	yes
Cost (hardware/software/installation and training/monthly maintenance)		
• Smallest stand-alone system	—	—
• Largest stand-alone system	—	—
Base price of integrated system, excluding AP configuration	—	—
• Incremental cost to add smallest AP configuration	—	—
• Incremental cost to add largest AP configuration	—	—
Distinguishing features (supplied by vendor)	• allows pathologists and other users to utilize voice recognition, sign out cases using online electronic signature, and search the pathology database to generate user-defined statistical reports • contains all software necessary to capture and store digital images and added notations • allows users to view laboratory and radiology results that are pertinent to the pathology case	• allows pathologists and other users to utilize voice recognition, sign out cases using online electronic signature, and search the pathology database to generate user-defined statistical reports • contains all software necessary to capture and store digital images and added notations • allows users to view laboratory and radiology results that are pertinent to the pathology case
Note: a dash in lieu of an answer means company did not answer question or question is not applicable	†*licenses (not contracts)*	†*licenses (not contracts)*

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Anatomic pathology computer systems

Part 7 of 12 *See accompanying article on page 14*	Medical Information Technology Paul Berthiaume pberthiaume@meditech.com Meditech Circle Westwood, MA 02090 781-821-3000 www.meditech.com	Netlims Avi Allerhand avi@netlims.com 111 Town Square Place, Suite 700 Jersey City, NJ 07310 201-894-5300 www.netlims.com
Name of anatomic pathology system	**Meditech Anatomical Pathology—6.0**	**AutoAP**
First ever AP system installation	1978	2000
Most recent AP system installation (based on January 2010 survey deadline)	November 2009	June 2009
Last major product release for featured AP system	April 2008	November 2009
No. of contracts for sites operating AP system (hospitals/independent labs/clinics or group practices/other/foreign sites)	— (41/—/—/—/22)†	17 (0/4/0/0/13)
• No. of contracts that went live between Jan. 2009–Dec. 2009	5 (in U.S.)†	1
• No. of contracts not yet live/No. of contracts signed between Jan. 2009–Dec. 2009	75/72†	1/1
No. of sites operating AP system (No. of these sites outside U.S.)	5	18 (15–India, Israel)
Percentage of installations that have standalone AP systems	—	0
No. of employees in entire company	2,792	103
No. of employees dedicated to software development, installation, support	105	14
No. of workstations in sites operating AP system	not tracked	8–32 (mean, 15)
Range in No. of surgical pathology cases per year in sites operating system	not tracked	1,200–35,000
Range in No. of gynecologic cytology cases per year in sites operating system	not tracked	2,000–15,000
Programming language(s)	Meditech	C++, Java, Visual Basic, ASP, .Net
Databases and tools used	Meditech	Microsoft SQL, Oracle, Caché
Word processor(s) used	Microsoft Word, Rich Text Editor	Microsoft Word
Operating system(s)	server: Windows Server 2003 Enterprise of Datacenter x64 Ed., 2008 Service Pack 1 Standard Ed. (x86, x64) for main patient database; client: Windows 2000, XP, Vista, XP Tablet	Windows, Linux, Unix
Features (listed as a percentage of live installs or based on availability)		
• Surgical pathology information system	100%	100%
• Cytology information system	100%	100%
• Autopsy information system	100%	100%
• Autopsy measurements and organ weights	installed	100%
• Specimen log-in/specimen tracking and retrieval	100%/100%	100%/100%
• Entry of block IDs/specimen labels	100%/100%	100%/100%
• Histology slide labels/bar-coded slide labels	100%/100%	33%/33%
• Linear bar codes/two-dimensional bar codes	100%/100%	100%/installed
• Histology worksheets	100%	100%
• Word processing—vendor specific	100%	100%
• Voice entry of gross description/voice entry of microscopic and final diagnosis	installed/installed	installed/—
• Gross and microscopic images integrated in reports	100%	100%
• Electronic signature	100%	100%
• Remote printing of completed reports	100%	66%
• Direct fax reports	100%	100%
• Web-based remote inquiry of reports	100%	100%
• Physician Web access for order entry	100%	66%
• Natural language search capability	100%	available but not installed
• Multi-site or multi-facility-wide area network	100%	33%
• Sound-alike retrieval of patient history	100%	100%
• Tumor registry reports/management reports	100%/100%	100%/100%
• Reports sufficient to comply with CLIA '88 regulations	installed	100%
• Comprehensive billing and accounts receivable	installed	70%
• Interface to external billing system	installed	30%
• HIS interface: A/D/T	installed	80%
• HIS interface: result reporting/incoming clinical results	installed/installed	100%/available but not installed
• Partin tables or Gleason score calculations	installed	available but not installed
• Synoptic reporting	installed	installed
• Client services module	100%	100%
• Consult management and reporting	100%	100%
Software provides indexed field in each test definition for LOINC code?	yes	yes
Provide LOINC dictionary for each new installation?	yes	no
Routine results encoded in SNOMED (in version earlier than SNOMED CT)?	yes (at 100% of sites)	yes (at 60% of sites)
Routine results encoded in SNOMED CT?	yes	yes (at 20% of sites)
AP system uses autoencoder to create SNOMED codes?	no	no
Percentage of installed sites that represent cases in free text	—	20%
No. of installs that use system to provide cancer diagnoses or surveillance data to tumor registries or public health agencies via computer-to-computer interface	—	NAACCR Pathology Laboratory Electronic Reporting, vol. V, version 2.2, available but not installed
Complete AP application service provider solution?	no	no
Method of charging for ASP service	—	—
Client software required	—	—
ASP information conduit	—	—
Client contracts supported from data center not operated by client	—	—
How data center is operated	—	—
Other information systems interfaced	Sunquest, McKesson, Siemens, others	Siemens, GE Healthcare, Cerner, SCC Soft Computer, Misys, others
Voice-recognition products or partners system uses	Nuance Dragon NaturallySpeaking	Nuance Dragon NaturallySpeaking
Histology and cytology devices interfaced	—	Leica, Olympus, Infinity
User interface in language other than English?	no (Spanish in development)	yes (any language supported by Windows)
Source code?	escrow	escrow
User group?	no	no
User can modify screens?	yes	yes
Cost (hardware/software/installation and training/monthly maintenance)		
• Smallest stand-alone system	—	$25k/$120k/$30k/$2k
• Largest stand-alone system	—	$90k/$480k/$110k/$8k
Base price of integrated system, excluding AP configuration	—	$330k
• Incremental cost to add smallest AP configuration	—	0/$80k/$20k/$1.3k
• Incremental cost to add largest AP configuration	—	$90k/$480k/$110k/$8k
Distinguishing features (supplied by vendor)	• allows pathologists and other users to utilize voice recognition, sign out cases using online electronic signature, and search the pathology database to generate user-defined statistical reports • contains all software necessary to capture and store digital images and added notations • allows users to view laboratory and radiology results that are pertinent to the pathology case	• advanced technology—database choice, document management, Web, Microsoft Windows integration, XML/XSL reporting, images integration • easily tailored for any environment and work procedure • one database for all disciplines—AP, microbiology, general laboratory

Note: a dash in lieu of an answer means company did not answer question or question is not applicable

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Anatomic pathology computer systems

Part 8 of 12 *See accompanying article on page 14*	NetSoft **Bill Hughes** sales@netsoftusa.com 2156 W. Park Court, Suite E Stone Mountain, GA 30087 866-463-8763 www.netsoftusa.com	Novovision **Richard Callahan** rcallahan@novovision.com 301 N. Harrison St., Suite 384 Princeton, NJ 08540 877-668-6123 www.novovision.com
Name of anatomic pathology system	**IntelliPath**	**NovoPath**
First ever AP system installation	2001	1999
Most recent AP system installation (based on January 2010 survey deadline)	December 2009	December 2009
Last major product release for featured AP system	September 2009	December 2009
No. of contracts for sites operating AP system (hospitals/independent labs/clinics or group practices/other/foreign sites)	62 (7/40/14/0/1)	135 (14/91/30/0/0)
• No. of contracts that went live between Jan. 2009–Dec. 2009	7	29
• No. of contracts not yet live/No. of contracts signed between Jan. 2009–Dec. 2009	3/10	5/34
No. of sites operating AP system (No. of these sites outside U.S.)	79 (1–Canada)	195
Percentage of installations that have standalone AP systems	100%	100%
No. of employees in entire company	8	41
No. of employees dedicated to software development, installation, support	8	41
No. of workstations in sites operating AP system	2–50 (mean, 11)	3–400 (mean, 25)
Range in No. of surgical pathology cases per year in sites operating system	3,500–250,000	3,000–275,000
Range in No. of gynecologic cytology cases per year in sites operating system	12,000–65,000	1,000–750,000
Programming language(s)	Clarion 6, C++, .Net	Microsoft Visual Studio Platform
Databases and tools used	Pervasive SQL	SQL server, Oracle
Word processor(s) used	integrated	Microsoft Word, Acrobat Reader
Operating system(s)	Windows 2000, 2003, 2007, Vista, XP	Microsoft Windows, Web browser based
Features (listed as a percentage of live installs or based on availability)		
• Surgical pathology information system	100%	100%
• Cytology information system	20%	100%
• Autopsy information system	10%	100%
• Autopsy measurements and organ weights	10%	100%
• Specimen log-in/specimen tracking and retrieval	100%/100%	100%/100%
• Entry of block IDs/specimen labels	100%/100%	100%/100%
• Histology slide labels/bar-coded slide labels	100%/100%	100%/100%
• Linear bar codes/two-dimensional bar codes	100%/5%	100%/100%
• Histology worksheets	100%	100%
• Word processing—vendor specific	100%	—
• Voice entry of gross description/voice entry of microscopic and final diagnosis	10%/8%	100%/100%
• Gross and microscopic images integrated in reports	20%	100%
• Electronic signature	100%	100%
• Remote printing of completed reports	100%	100%
• Direct fax reports	100%	100%
• Web-based remote inquiry of reports	100%	50%
• Physician Web access for order entry	10%	15%
• Natural language search capability	100%	100%
• Multi-site or multi-facility-wide area network	25%	30%
• Sound-alike retrieval of patient history	installed	100%
• Tumor registry reports/management reports	100%/100%	100%/100%
• Reports sufficient to comply with CLIA '88 regulations	100%	100%
• Comprehensive billing and accounts receivable	40%	15%
• Interface to external billing system	40%	100%
• HIS interface: A/D/T	18%	55%
• HIS interface: result reporting/incoming clinical results	20%/5%	60%/40%
• Partin tables or Gleason score calculations	5%	40%
• Synoptic reporting	5%	60%
• Client services module	5%	100%
• Consult management and reporting	100%	100%
Software provides indexed field in each test definition for LOINC code?	no	no
Provide LOINC dictionary for each new installation?	no	no
Routine results encoded in SNOMED (in version earlier than SNOMED CT)?	no	no
Routine results encoded in SNOMED CT?	no	no
AP system uses autoencoder to create SNOMED codes?	no	no
Percentage of installed sites that represent cases in free text	100%	not tracked
No. of installs that use system to provide cancer diagnoses or surveillance data to tumor registries or public health agencies via computer-to-computer interface	7 via NAACCR Pathology Laboratory Electronic Reporting, vol. V, version 2.2/11 via nonstandard data feed	3 via NAACCR Pathology Laboratory Electronic Reporting, vol. V, version 2.2/3 via older NAACCR standard/nonstandard data feed available but not installed
Complete AP application service provider solution?	no	yes
Method of charging for ASP service	—	fixed fee or transaction based (user's choice)
Client software required	—	browser based or requires software be installed on a client PC (user's choice)
ASP information conduit	—	operates over the Internet or requires use of a private, dedicated circuit (user's choice)
Client contracts supported from data center not operated by client	—	28
How data center is operated	—	by vendor
Other information systems interfaced	Cerner, Medical Manager, Misys, Meditech, eClinicalWorks, NextGen, GE Healthcare, Epic, MedInformatix, others	Meditech, McKesson, Siemens, Eclipsys, Epic, Cerner, Sunquest, CPSI, Orchard, GE Healthcare, SCC Soft Computer, NextGen, others
Voice-recognition products or partners system uses	Nuance Dragon NaturallySpeaking, Voicebrook	Nuance Dragon NaturallySpeaking
Histology and cytology devices interfaced	Ventana, Thermo Electron, Sakura, Leica, software-driven cameras	Ventana, Leica, Thermo Shandon, General Data, Hologic, Olympus, Diagnostic Instruments, Beckman Coulter, others
User interface in language other than English?	no	no
Source code?	escrow	escrow
User group?	yes (meets in person annually)	yes (meets via Internet biannually)
User can modify screens?	yes	yes
Cost (hardware/software/installation and training/monthly maintenance)		
• Smallest stand-alone system	—	—
• Largest stand-alone system	—	—
Base price of integrated system, excluding AP configuration	—	—
• Incremental cost to add smallest AP configuration	—	—
• Incremental cost to add largest AP configuration	—	—
Distinguishing features (supplied by vendor)	• excellent user interface with all modules, including billing and word processing, fully integrated • full-featured, robust system customized to lab's workflow, with scalable pricing and no hidden fees • superior customer care	• advanced modules for cytogenetics, flow cytometry, molecular reporting • complete modules for billing/accounts receivable, Web resulting, specimen tracking, workflow metrics • scalable features and pricing to fit small to large labs with enterprise-wide capabilities

Note: a dash in lieu of an answer means company did not answer question or question is not applicable

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Anatomic pathology computer systems

Part 9 of 12 *See accompanying article on page 14*	Orchard Software Kerry Foster sales@orchardsoft.com 701 Congressional Blvd., Suite 306 Carmel, IN 46032 800-856-1948 www.orchardsoft.com	PathLogix Corp. Jerry Grayson jerry@pathlogix.com 470 Nautilus St., Suite 306 La Jolla, CA 92037 888-454-5000 www.pathlogix.com
Name of anatomic pathology system	**Orchard Pathology**	**PathLogix AP Software**
First ever AP system installation	2006	1998
Most recent AP system installation (based on January 2010 survey deadline)	January 2010	December 2009
Last major product release for featured AP system	September 2009	December 2009
No. of contracts for sites operating AP system (hospitals/independent labs/clinics or group practices/other/foreign sites)	36 (9/13/13/1–school of veterinary medicine/0)	90 (2/88/0/0/0)
• No. of contracts that went live between Jan. 2009–Dec. 2009	7	8
• No. of contracts not yet live/No. of contracts signed between Jan. 2009–Dec. 2009	7/13	0/8
No. of sites operating AP system (No. of these sites outside U.S.)	38	90
Percentage of installations that have standalone AP systems	15%	90%
No. of employees in entire company	140	—
No. of employees dedicated to software development, installation, support	47	—
No. of workstations in sites operating AP system	5–37 (mean, 10)	1–75
Range in No. of surgical pathology cases per year in sites operating system	not tracked	500–40,000
Range in No. of gynecologic cytology cases per year in sites operating system	not tracked	5,000–15,000
Programming language(s)	4D, Java, C++, HTML	Visual Basic
Databases and tools used	4D, SQL	SQL server, Microsoft Access
Word processor(s) used	customized word processing	—
Operating system(s)	Windows 2000, XP Professional, Windows Server 2003 Standard Edition	Windows 2000, XP, Vista, 7, other Windows servers
Features (listed as a percentage of live installs or based on availability)		
• Surgical pathology information system	100%	97%
• Cytology information system	90%	5%
• Autopsy information system	installed	—
• Autopsy measurements and organ weights	installed	—
• Specimen log-in/specimen tracking and retrieval	100%/100%	installed/installed
• Entry of block IDs/specimen labels	100%/100%	installed/installed
• Histology slide labels/bar-coded slide labels	installed/50%	installed/installed
• Linear bar codes/two-dimensional bar codes	installed/installed	installed/installed
• Histology worksheets	100%	installed
• Word processing—vendor specific	100%	—
• Voice entry of gross description/voice entry of microscopic and final diagnosis	installed/installed	available but not installed/available but not installed
• Gross and microscopic images integrated in reports	40%	installed
• Electronic signature	100%	installed
• Remote printing of completed reports	50%	installed
• Direct fax reports	installed	installed
• Web-based remote inquiry of reports	50%	10%
• Physician Web access for order entry	50%	10%
• Natural language search capability	not available	—
• Multi-site or multi-facility-wide area network	installed	installed
• Sound-alike retrieval of patient history	not available	—
• Tumor registry reports/management reports	installed/100%	installed/100%
• Reports sufficient to comply with CLIA '88 regulations	100%	100%
• Comprehensive billing and accounts receivable	not available	available but not installed
• Interface to external billing system	80%	available but not installed
• HIS interface: A/D/T	100%	available but not installed
• HIS interface: result reporting/incoming clinical results	80%/100%	available but not installed/—
• Partin tables or Gleason score calculations	100%	installed
• Synoptic reporting	100%	—
• Client services module	installed	installed
• Consult management and reporting	100%	installed
Software provides indexed field in each test definition for LOINC code?	yes	no
Provide LOINC dictionary for each new installation?	no	no
Routine results encoded in SNOMED (in version earlier than SNOMED CT)?	no	no
Routine results encoded in SNOMED CT?	yes	no
AP system uses autoencoder to create SNOMED codes?	no	no
Percentage of installed sites that represent cases in free text	100%	—
No. of installs that use system to provide cancer diagnoses or surveillance data to tumor registries or public health agencies via computer-to-computer interface	not tracked	—
Complete AP application service provider solution?	no	yes
Method of charging for ASP service	—	fixed fee or transaction based (user's choice)
Client software required	—	requires software be installed on a client PC
ASP information conduit	—	operates over the Internet
Client contracts supported from data center not operated by client	—	—
How data center is operated	—	—
Other information systems interfaced	McKesson, Misys, Siemens, Cerner, Healthland, QuadraMed, Meditech, GE Healthcare, Experior, others	GE Healthcare, Misys, Cerner
Voice-recognition products or partners system uses	Nuance Dragon NaturallySpeaking	Nuance Dragon NaturallySpeaking, IBM ViaVoice
Histology and cytology devices interfaced	Nikon, Olympus, Ventana immunostainers, Thermo Shandon	—
User interface in language other than English?	no	no
Source code?	escrow	—
User group?	yes (meets in person biannually, via Internet on an unlimited basis)	—
User can modify screens?	yes	—
Cost (hardware/software/installation and training/monthly maintenance)		
• Smallest stand-alone system	$8k/$50k/$28k/10% of sales contract	—/$2.99k/—/—
• Largest stand-alone system	$25k/$100k/$42k/10% of sales contract	—/$25k/—/—
Base price of integrated system, excluding AP configuration	$79k	—
• Incremental cost to add smallest AP configuration	$3k/$30k/$13k/10% of sales contract	—
• Incremental cost to add largest AP configuration	$25k/$85k/$42k/10% of sales contract	—
Distinguishing features (supplied by vendor)	• fully integrated clinical, cytology, molecular, anatomic pathology, and reference lab results via a single database for consolidating and combining results onto a single patient report • image-management tools make it easy to link digital images, annotated diagrams, and scanned documents to case worksheets and incorporate them onto patient reports • report information stored in discrete data fields that enhance EMR integration and simplify the process of mining data	• focused on marketing and service; meets needs of large users and multi-site labs • seamless workflow from histology to finished reports; Internet entry of requisitions and reporting; many practice-management features • easy to use; rapidly deployed; flexible; easy tracking; optional bar codes; single-click navigation; unlimited scalability; interfaces with EMR

Note: a dash in lieu of an answer means company did not answer question or question is not applicable

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Anatomic pathology computer systems

Part 10 of 12 *See accompanying article on page 14*	PathView Systems Michael Mihalik mike@pathview.com 5923 E. FM 455 Anna, TX 75449 800-798-3540 www.pathview.com	Psyche Systems Corp. Lisa-Jean Clifford lj@psychesystems.com 321 Fortune Blvd. Milford, MA 01757 800-345-1514 www.psychesystems.com
Name of anatomic pathology system	**Progeny**	**WindoPath**
First ever AP system installation	1990	1983
Most recent AP system installation (based on January 2010 survey deadline)	2010	January 2010
Last major product release for featured AP system	December 2009	January 2009
No. of contracts for sites operating AP system (hospitals/independent labs/clinics or group practices/other/foreign sites)	2 (1/0/1/0/0)	174 (45/55/4/0/70)
• No. of contracts that went live between Jan. 2009–Dec. 2009	0	8
• No. of contracts not yet live/No. of contracts signed between Jan. 2009–Dec. 2009	0/0	15/24
No. of sites operating AP system (No. of these sites outside U.S.)	2	174 (74–Italy, Germany, Austria, Puerto Rico)
Percentage of installations that have standalone AP systems	100%	40%
No. of employees in entire company	5	43
No. of employees dedicated to software development, installation, support	5	32
No. of workstations in sites operating AP system	35	1–200
Range in No. of surgical pathology cases per year in sites operating system	~44,000	1,000–300,000
Range in No. of gynecologic cytology cases per year in sites operating system	~46,000	0–235,000
Programming language(s)	InterSystems Caché ObjectScript, Visual Basic	Visual Basic, Visual Basic .Net, Small Talk
Databases and tools used	InterSystems Caché	Microsoft SQL server 7.0, 2000, BrioQuery report writer, Rightfax
Word processor(s) used	Microsoft Word 2003	integrated, nonproprietary
Operating system(s)	Windows XP, Windows server 2003	Windows NT, 95, 98, 2000, XP
Features (listed as a percentage of live installs or based on availability)		
• Surgical pathology information system	100%	100%
• Cytology information system	100%	85%
• Autopsy information system	100%	100%
• Autopsy measurements and organ weights	100%	100%
• Specimen log-in/specimen tracking and retrieval	100%/100%	100%/20%
• Entry of block IDs/specimen labels	100%/100%	100%/100%
• Histology slide labels/bar-coded slide labels	100%/100%	100%/100%
• Linear bar codes/two-dimensional bar codes	100%/100%	100%/100%
• Histology worksheets	100%	100%
• Word processing—vendor specific	100%	100%
• Voice entry of gross description/voice entry of microscopic and final diagnosis	available but not installed/available but not installed	25%/25%
• Gross and microscopic images integrated in reports	100%	100%
• Electronic signature	100%	100%
• Remote printing of completed reports	100%	100%
• Direct fax reports	100%	100%
• Web-based remote inquiry of reports	available in 2010	50%
• Physician Web access for order entry	available in 2010	50%
• Natural language search capability	100%	100%
• Multi-site or multi-facility-wide area network	100%	30%
• Sound-alike retrieval of patient history	not available	100%
• Tumor registry reports/management reports	100%/100%	100%/100%
• Reports sufficient to comply with CLIA '88 regulations	100%	100%
• Comprehensive billing and accounts receivable	not available	not available
• Interface to external billing system	100%	100%
• HIS interface: A/D/T	100%	80%
• HIS interface: result reporting/incoming clinical results	100%/100%	80%/20%
• Partin tables or Gleason score calculations	not available	installed
• Synoptic reporting	available in 2010	installed
• Client services module	installed	installed
• Consult management and reporting	installed	100%
Software provides indexed field in each test definition for LOINC code?	no	yes
Provide LOINC dictionary for each new installation?	no	no
Routine results encoded in SNOMED (in version earlier than SNOMED CT)?	no	yes (at 10% of sites)
Routine results encoded in SNOMED CT?	no	yes (at 10% of sites)
AP system uses autoencoder to create SNOMED codes?	no	yes
Percentage of installed sites that represent cases in free text	100%	90%
No. of installs that use system to provide cancer diagnoses or surveillance data to tumor registries or public health agencies via computer-to-computer interface	NAACCR Pathology Laboratory Electronic Reporting, vol. V, version 2.2, available but not installed/1 via nonstandard data feed	5 via NAACCR Pathology Laboratory Electronic Reporting, vol. V, version 2.2
Complete AP application service provider solution?	no	yes
Method of charging for ASP service	—	fixed fee
Client software required	—	browser based
ASP information conduit	—	operates over the Internet
Client contracts supported from data center not operated by client	—	40
How data center is operated	—	by vendor
Other information systems interfaced	Epic, proprietary, client-developed LIS, Cerner, Elekta Impac, EasyPath	Psyche Systems, Siemens, McKesson, Meditech, Misys, Cerner, others
Voice-recognition products or partners system uses	Nuance Dragon NaturallySpeaking, other products that integrate with Microsoft Word	Nuance Dragon NaturallySpeaking
Histology and cytology devices interfaced	Thermo Shandon cassette labelers, Lanier dictation system	CAS analyzer, Ventana Benchmark, Digene, Leica
User interface in language other than English?	no	yes (Spanish, Italian, German)
Source code?	escrow	escrow
User group?	yes (meets in person quarterly)	yes (meets via Internet quarterly, in person biannually; customer only forum)
User can modify screens?	no	yes
Cost (hardware/software/installation and training/monthly maintenance)		
• Smallest stand-alone system	—	$5k/$23k/$12k/$1k
• Largest stand-alone system	—	$120k/$750k/$90k/$15k
Base price of integrated system, excluding AP configuration	—	—
• Incremental cost to add smallest AP configuration	—	—
• Incremental cost to add largest AP configuration	—	—
Distinguishing features (supplied by vendor)	• thorough workflow analysis with each installation; summary document describes how new LIS will be implemented and what efficiencies and increases in quality can be expected • comprehensive and extensive specimen, block, and slide tracking provides detailed material tracking intradepartmentally and for external sendouts; tracking information displayed in a single query screen with all other pertinent case information • ongoing management consultation part of support package	• easy to use; customized to fit the lab's specific needs/specialty • dynamic customizable reports, final and statistical analyses, with the ability to define outputs based on physician preferences • interfaces to instruments/devices—flow cytometry, cytogenetics, molecular diagnostics, immunohistochemistry stainers, cassette/slide labelers

Note: a dash in lieu of an answer means company did not answer question or question is not applicable

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Anatomic pathology computer systems

Part 11 of 12 *See accompanying article on page 14*	SCC Soft Computer **Ellie Vahman** ellie@softcomputer.com 5400 Tech Data Drive Clearwater, FL 33760 727-789-0100 www.softcomputer.com	Small Business Computers of New England **Gene Calvano** gene_calvano@sbcne.com 25 Lowell St., Suite 401 Manchester, NH 03101 800-647-2263/603-695-9090 www.apeasy.com
Name of anatomic pathology system	**SoftPath**	**AP Easy**
First ever AP system installation	1993	1989
Most recent AP system installation (based on January 2010 survey deadline)	December 2009	January 2010
Last major product release for featured AP system	October 2008	2008
No. of contracts for sites operating AP system (hospitals/independent labs/clinics or group practices/other/foreign sites)	160 (134/11/4/0/11)	345 (48/192/99/0/6)
• No. of contracts that went live between Jan. 2009–Dec. 2009	3	45
• No. of contracts not yet live/No. of contracts signed between Jan. 2009–Dec. 2009	6/5	5/50
No. of sites operating AP system (No. of these sites outside U.S.)	259 (18–Canada)	340 (6–Ireland, New Zealand, Canada, Venezuela, Saudi Arabia)
Percentage of installations that have standalone AP systems	3%	100%
No. of employees in entire company	1,522	10
No. of employees dedicated to software development, installation, support	226	9
No. of workstations in sites operating AP system	5–100 (mean, 15)	1–60 (mean, 8)
Range in No. of surgical pathology cases per year in sites operating system	2,000–100,000	1,000–50,000
Range in No. of gynecologic cytology cases per year in sites operating system	1,000–100,000	2,000–75,000
Programming language(s)	C, C++, .Net	FileMaker Pro
Databases and tools used	Oracle	FileMaker Pro
Word processor(s) used	Microsoft Word, Text Control	integrated with FileMaker Pro
Operating system(s)	Unix (IBM AIX)	Windows XP, Vista, Mac OS
Features (listed as a percentage of live installs or based on availability)		
• Surgical pathology information system	100%	100%
• Cytology information system	100%	100%
• Autopsy information system	installed	installed
• Autopsy measurements and organ weights	installed	installed
• Specimen log-in/specimen tracking and retrieval	100%/installed	100%/100%
• Entry of block IDs/specimen labels	100%/100%	100%/100%
• Histology slide labels/bar-coded slide labels	100%/installed	100%/installed
• Linear bar codes/two-dimensional bar codes	installed/installed	installed/available but not installed
• Histology worksheets	100%	100%
• Word processing—vendor specific	100%	—
• Voice entry of gross description/voice entry of microscopic and final diagnosis	installed/installed	installed/installed
• Gross and microscopic images integrated in reports	installed	100%
• Electronic signature	100%	100%
• Remote printing of completed reports	100%	installed
• Direct fax reports	100%	installed
• Web-based remote inquiry of reports	10%	installed
• Physician Web access for order entry	1%	installed
• Natural language search capability	100%	100%
• Multi-site or multi-facility-wide area network	65%	installed
• Sound-alike retrieval of patient history	100%	100%
• Tumor registry reports/management reports	installed/100%	installed/100%
• Reports sufficient to comply with CLIA '88 regulations	100%	100%
• Comprehensive billing and accounts receivable	36%	15%
• Interface to external billing system	65%	installed
• HIS interface: A/D/T	97%	installed
• HIS interface: result reporting/incoming clinical results	95%/22%	installed/not available
• Partin tables or Gleason score calculations	installed	installed
• Synoptic reporting	installed	installed
• Client services module	installed	installed
• Consult management and reporting	installed	100%
Software provides indexed field in each test definition for LOINC code?	no	no
Provide LOINC dictionary for each new installation?	no	no
Routine results encoded in SNOMED (in version earlier than SNOMED CT)?	no	no
Routine results encoded in SNOMED CT?	yes (at 48% of sites)	no
AP system uses autoencoder to create SNOMED codes?	yes	no
Percentage of installed sites that represent cases in free text	52	100%
No. of installs that use system to provide cancer diagnoses or surveillance data to tumor registries or public health agencies via computer-to-computer interface	1 via NAACCR Pathology Laboratory Electronic Reporting, vol. V, version 2.2/10 via older NAACCR standard	NAACCR Pathology Laboratory Electronic Reporting, vol. V, version 2.2, available but not installed/45 via older NAACCR standard/2 via nonstandard data feed
Complete AP application service provider solution?	yes	no
Method of charging for ASP service	fixed fee	—
Client software required	requires software be installed on a client PC	—
ASP information conduit	requires use of a private, dedicated circuit	—
Client contracts supported from data center not operated by client	0	—
How data center is operated	—	—
Other information systems interfaced	Cerner, McKesson, Eclipsys, Epic, Siemens, GE Healthcare, QuadraMed, Meditech, HMS, CPSI, Sunquest, others	Misys, CPSI, Medisys, A4, eClinicalWorks, Orchard Software, Halfpenny Technologies, Atlas, others
Voice-recognition products or partners system uses	Web service XML-based interfacing designed specifically for voice recognition and dictation systems, Nuance Dragon NaturallySpeaking, eScription, Talk Station	packages supporting FileMaker Pro
Histology and cytology devices interfaced	cassette markers/etchers, slide labelers, immunostainers	slide labelers, cassette markers, microscope cameras
User interface in language other than English?	yes (French)	no
Source code?	escrow	yes
User group?	yes (meets in person annually)	no
User can modify screens?	yes	no
Cost (hardware/software/installation and training/monthly maintenance)		
• Smallest stand-alone system	$25k/$30k/$50k/$1.5k	$1k/$4k/0/0
• Largest stand-alone system	$250k/$500k/$100k/$10k	$60k/$35k/$3k/$0.3k
Base price of integrated system, excluding AP configuration	$200k	—
• Incremental cost to add smallest AP configuration	$5k/$15k/$50k/$0.225k	—
• Incremental cost to add largest AP configuration	$150k/$250k/$100k/$3.75k	—
Distinguishing features (supplied by vendor)	• full integration with SoftLab LIS suite, including cytogenetics, molecular, flow cytometry, HLA, biochemistry, and global reporting across disciplines through interpretive workstation • SoftWeb-integrated Web-based module for remote ordering/requisitions, results/report viewing, and printing • advanced cancer reporting using structured reporting with the current CAP checklist and discrete data element transmission	• tailored solution with ongoing tailoring part of technical support at a fixed price • low-cost solution for start-up, small, and medium-sized labs • results reporting by Internet Web portal, auto-faxing reports, and custom lab interfaces to various electronic health record client software systems

Note: a dash in lieu of an answer means company did not answer question or question is not applicable

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Anatomic pathology computer systems

Part 12 of 12 *See accompanying article on page 14*	Sunquest Information Systems Donald Mounce donald.mounce@sunquestinfo.com 250 S. Williams Blvd. Tucson, AZ 85711 520-570-2114 www.sunquestinfo.com	WebPathLab Peter Williams peter@webpathlab.com 1004 River Rock Drive, Suite 240 Folsom, CA 95630 916-404-1840 www.webpathlab.com
Name of anatomic pathology system	Sunquest CoPathPlus	WebPathLab
First ever AP system installation	1982	2000
Most recent AP system installation (based on January 2010 survey deadline)	2009	November 2009
Last major product release for featured AP system	July 2009	September 2009
No. of contracts for sites operating AP system (hospitals/independent labs/clinics or group practices/other/foreign sites)	320 (—/—/—/—/30)	12 (1/11/0/0/0)
• No. of contracts that went live between Jan. 2009–Dec. 2009	6	4
• No. of contracts not yet live/No. of contracts signed between Jan. 2009–Dec. 2009	7/7	1/3
No. of sites operating AP system (No. of these sites outside U.S.)	500+ (40–Canada, U.K., U.A.E., Ireland, Scotland, Denmark)	17
Percentage of installations that have standalone AP systems	1%	100%
No. of employees in entire company	650	13
No. of employees dedicated to software development, installation, support	—	10
No. of workstations in sites operating AP system	5–280 (mean, 40)	8–100+ (mean, 50)
Range in No. of surgical pathology cases per year in sites operating system	10,000–600,000	2,500–50,000
Range in No. of gynecologic cytology cases per year in sites operating system	10,000–600,000	5,000–25,000
Programming language(s)	C, Visual Basic, PowerBuilder	ASP .Net, AJAX
Databases and tools used	Sybase, PowerBuilder	MySQL database
Word processor(s) used	Microsoft Word 2003	integrated into Web-based solution—Native; requires Internet Explorer Web browser
Operating system(s)	servers: AIX, Windows 2003; client: Windows XP, 2000	Windows server 2003, 2008
Features (listed as a percentage of live installs or based on availability)		
• Surgical pathology information system	100%	100%
• Cytology information system	90%	60%
• Autopsy information system	100%	25%
• Autopsy measurements and organ weights	100%	25% (through company's LIS or via third party)
• Specimen log-in/specimen tracking and retrieval	100%/available through company's LIS in 2010	100%/100%
• Entry of block IDs/specimen labels	100%/100%	100%/100%
• Histology slide labels/bar-coded slide labels	80%/80%	100%/available but not installed
• Linear bar codes/two-dimensional bar codes	80%/20%	available but not installed/available but not installed
• Histology worksheets	installed	100%
• Word processing—vendor specific	100%	100%
• Voice entry of gross description/voice entry of microscopic and final diagnosis	20%/installed	10%/10% (both through company's LIS or via third party)
• Gross and microscopic images integrated in reports	30%	100%
• Electronic signature	100%	100%
• Remote printing of completed reports	installed	100%
• Direct fax reports	95%	100%
• Web-based remote inquiry of reports	installed (through company's LIS)	100%
• Physician Web access for order entry	installed (through company's LIS)	100%
• Natural language search capability	100%	100%
• Multi-site or multi-facility-wide area network	35%	100%
• Sound-alike retrieval of patient history	not available	—
• Tumor registry reports/management reports	installed/100%	100%/100%
• Reports sufficient to comply with CLIA '88 regulations	100%	100%
• Comprehensive billing and accounts receivable	installed (through company's LIS)	100%
• Interface to external billing system	95%	available through company's LIS or via third party
• HIS interface: A/D/T	90%	100%
• HIS interface: result reporting/incoming clinical results	90%/installed	100%/—
• Partin tables or Gleason score calculations	installed	—
• Synoptic reporting	installed	available but not installed
• Client services module	installed	—
• Consult management and reporting	90%	100%
Software provides indexed field in each test definition for LOINC code?	no	no
Provide LOINC dictionary for each new installation?	no	no
Routine results encoded in SNOMED (in version earlier than SNOMED CT)?	yes (at 80% of sites)	no
Routine results encoded in SNOMED CT?	yes (at 80% of sites)	no
AP system uses autoencoder to create SNOMED codes?	no	no
Percentage of installed sites that represent cases in free text	20%	—
No. of installs that use system to provide cancer diagnoses or surveillance data to tumor registries or public health agencies via computer-to-computer interface	18 via older NAACCR standard	6 via older NAACCR standard (Florida Cancer Data System, Texas Tumor Registry, Washington State Tumor Registry)
Complete AP application service provider solution?	no	yes
Method of charging for ASP service	—	fixed fee or transaction based (user's choice)
Client software required	—	browser based
ASP information conduit	—	operates over the Internet
Client contracts supported from data center not operated by client	—	100%
How data center is operated	—	by vendor
Other information systems interfaced	Epic, McKesson, Cerner, Siemens, GE Healthcare, QuadraMed, Eclipsys, Meditech, others	Meditech, Epic, Eclipsys, Perot Systems
Voice-recognition products or partners system uses	Nuance Dragon NaturallySpeaking	Nuance Dragon NaturallySpeaking
Histology and cytology devices interfaced	cassette and slide engravers, Ventana stainers, Apollo PathPACS imaging, digital pathology	label printers, cassette writers, slide engravers, bar-code scanning devices
User interface in language other than English?	no	yes (Spanish, Chinese)
Source code?	escrow	escrow
User group?	yes (meets via Internet, in person annually, regional quarterly meetings)	no
User can modify screens?	yes	yes
Cost (hardware/software/installation and training/monthly maintenance)		
• Smallest stand-alone system	—	0/$6.5k/0/$0.25k per doctor or fee per report
• Largest stand-alone system	—	0/$50k/0/$0.25k per doctor or fee per report
Base price of integrated system, excluding AP configuration	—	0
• Incremental cost to add smallest AP configuration	—	0/—/—/$0.25k per doctor or fee per report
• Incremental cost to add largest AP configuration	—	0/—/—/$0.25k per doctor or fee per report
Distinguishing features (supplied by vendor)	• scalable solution with advanced anatomic pathology and molecular capabilities with workflows that are increasingly integrating digital pathology technologies • increases productivity, with integration between clinical, anatomic, molecular, voice recognition, image management, instrumentation, and synoptic reporting • outstanding customer service, responsiveness, and implementation	• 100% Web based; provides universally secure access and increased efficiency • complete integrated billing solution reduces billing cycle to as low as seven days and maximizes cash flow • increases referring clinician satisfaction by providing online requisition, online reporting, online data mining of all reports, and complete interface with any HL7-capable EMR system

Note: a dash in lieu of an answer means company did not answer question or question is not applicable

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