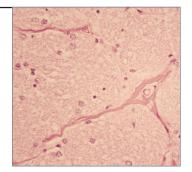
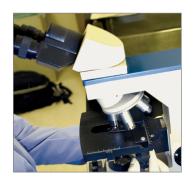
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Anatomic pathology computer systems

Anatomic pathology	computer systems
Part 1 of 13	Acquire
Part 1 01 13	Aspyra Bill Blair sales@aspyra.com
	26115-A Mureau Rd. Calabasas, CA 91302
See accompanying article on page 12	800-437-9000 www.aspyra.com
Name of anatomic pathology system	CyberPath
First ever AP system installation	2000
Most recent AP system installation (based on survey deadline of Dec. 2007) No. of contracts for sites operating AP system (H/IL/C or GP/FI/OS)*	2007 15 (10/2/2/1 in Singapore/0)
No. of contracts that went live in 2007 No. of contracts not yet live/No. of these contracts signed in 2007	0 1/1
No. of sites operating AP system	15
Percentage of installations that have stand-alone AP systems Staff to develop-install and support-other**	0
In entire company In LIS division (including AP)	30-50-25 15-30-20
• In AP systems only	4-7-12
No. of user workstations in sites operating system	2–250 (avg., 150)
Range in No. of surgical pathology cases per year in sites operating system Range in No. of gynecologic cytology cases per year in sites operating syst.	3,000–200,000 3,000–15,000
Programming language(s)	Dialog, C, MicroFocus Cobol, Visual Basic
Databases and tools used	Microsoft SQL
Word processor(s) used Operating system(s)	Microsoft Word Windows, Linux
Features (listed as a percentage of live installs or based on availability)	
Surgical pathology information system Cytology information system	100% 30%
Autopsy information system	100%
Autopsy measurements and organ weights Specimen log-in/specimen tracking and retrieval	100% 100%/available but not installed
Entry of block IDs/specimen labels Histology slide labels/bar-coded slide labels	30%/100% 100%/100%
Histology worksheets	100%
Word processing—vendor specific Voice entry of gross description/back-end batch voice to text	0 100%
Gross and microscopic images integrated in reports Electronic signature	100% 100%
Remote printing of completed reports Direct fax reports	100% 100%
Web-based remote inquiry of reports	40%
Physician Web access for order entry Natural language search capability	35% available in 2008
Multi-site or multi-facility-wide area network Sound-alike retrieval of patient history	35% available in 2008
Tumor registry reports/management reports	100%/100%
Reports sufficient to comply with CLIA '88 regulations Comprehensive billing and accounts receivable	100% not available
Interface to external billing system HIS interface: A/D/T	80% 80%
HIS interface: result reporting/incoming clinical results Partin tables or Gleason score calculations	80%/100% available in 2008
Synoptic reporting	available in 2008
Client services module Consult management and reporting	40% 30%
Software provides indexed field in each test definition for LOINC code? Provide LOINC dictionary for each new installation?	yes no
Routine results encoded in SNOMED (in version earlier than SNOMED CT)?	no
Routine results encoded in SNOMED CT? AP system uses autoencoder to create SNOMED codes?	yes (at 25% of sites) no
Percentage of installed sites that represent cases in free text	75%
No. of installations that use AP system to automatically electronically transfer tumor diagnoses to a tumor registry	NAACCR vol. V ePath standard for e-pathology reporting available but not installed/2 in older NAACCR standard (HL7)
Complete AP application service provider solution? Method of charging for ASP service	no —
Client software required	\equiv
ASP information conduit Client contracts supported from data center not operated by client	_
How data center is operated	_
Other information systems interfaced Voice-recognition products or partners system uses	McKesson, IDX, QuadraMed, Siemens, Meditech, NextGen, Misys, others Dragon NaturallySpeaking
Histology and cytology devices interfaced	none
User interface in language other than English?	no
Source code? User group?	escrow yes (meets in person every 1 to 1½ years)
User can modify screens?	no
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)	 Windows platform with MS SQL database for easy data mining flexible workflow options with system decision support rules customized patient reports with incorporated images
*H=U.S. hospitals, IL=independent labs in U.S., C or GP=clinics or group practices in U.S., FI=foreign installations, OS=other sites	









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C or GP=clinics or group practices in U.S., FI=foreign installations, OS=other sites

**other=sales, marketing, administration, and other company functions

7 11 10.10	The pathology computer sys	
Part 2 of 13	Cerner CoPathPlus Jay Johnson jay.johnson@cerner.com 2 University Office Park, 51 Sawyer Rd. Waltham, MA 02453	Cerner Corp. Jared Blankenship jared.blankenship@cerner.com 2800 Rockcreek Parkway Kansas City, M0 64117
See accompanying article on page 12	781-434-2230 www.cerner.com	Ransas City, MU 64117 816-201-0696 www.cerner.com
Name of anatomic pathology system	Cerner CoPathPlus Anatomic Pathology System	Cerner Millennium PathNet Anatomic Pathology
First ever AP system installation Most recent AP system installation (based on survey deadline of Dec. 2007) No. of contracts for sites operating AP system (H/IL/C or GP/FI/OS)* • No. of contracts that went live in 2007 • No. of contracts not yet live/No. of these contracts signed in 2007 No. of sites operating AP system Percentage of installations that have stand-alone AP systems Staff to develop-install and support-other** • In entire company	1982 2007 194 (160/27/0/7 in Canada, Saudi Arabia/0) 8 4/4 290 100% 1,590-2,287-3,542	1982 2007 153 (141/2/1/9/0) 17 47/12 318 16%
In LIS division (including AP) In AP systems only	73-118-39 15-45-10	73-118-39 0
No. of user workstations in sites operating system Range in No. of surgical pathology cases per year in sites operating system Range in No. of gynecologic cytology cases per year in sites operating syst.	1–1,000 (avg., 50) 3,000–7,350,000 2,000–1,000,000	10–400 (avg., 10–20) 5,000–100,000 2,500–100,000
Programming language(s) Databases and tools used Word processor(s) used Operating system(s)	Powerbuilder, C++ Microsoft SQL, Sybase Microsoft Word, TxText Control Windows 98, 2000, 2003, XP, AIX, Unix	Visual C++, Visual Basic, Java Oracle Microsoft Word, Visual Writer Open VMS, AIX, Windows 2000, NT, XP
Features (listed as a percentage of live installs or based on availability) Surgical pathology information system Cytology information system Autopsy information system Autopsy measurements and organ weights Specimen log-in/specimen tracking and retrieval Entry of block IDs/specimen labels Histology slide labels/bar-coded slide labels Histology worksheets Word processing—vendor specific Voice entry of gross description/back-end batch voice to text Gross and microscopic images integrated in reports Electronic signature Remote printing of completed reports Direct fax reports Web-based remote inquiry of reports Physician Web access for order entry Natural language search capability Multi-site or multi-facility-wide area network Sound-alike retrieval of patient history Tumor registry reports/management reports Reports sufficient to comply with CLIA '88 regulations Comprehensive billing and accounts receivable Interface to external billing system HIS interface: A/D/T HIS interface: result reporting/incoming clinical results Partin tables or Gleason score calculations Synoptic reporting Client services module Consult management and reporting	99.5% 100% 75% 75% 75% 100%/2% 100%/50% 90%/30% 99% 40% 15% 20% 99% 2% 95% 10% 100% 100% 00 available 100%/100% not available 95% 95% 95% 95% 95% 95%/3% 5% 30% 2%	100% 90% 80% 80% 100%/100% 100%/82% installed/installed installed 82% 5% 20% 100% 80% 80% 5% 5% 100% 40% 100% 100%/100% 90% 5% 80% 100%/100% 90% installed not available
Software provides indexed field in each test definition for LOINC code? Provide LOINC dictionary for each new installation? Routine results encoded in SNOMED (in version earlier than SNOMED CT)?	no no yes (at 90% of sites)	no yes
Routine results encoded in SNOMED CT? AP system uses autoencoder to create SNOMED codes? Percentage of installed sites that represent cases in free text	yes (at 10% of sites) yes 40%	no yes not tracked
No. of installations that use AP system to automatically electronically transfer tumor diagnoses to a tumor registry	5 in NAACCR vol. V ePath standard for e-pathology reporting and 25 in nonstandard data feed	not tracked
Complete AP application service provider solution? 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	no 	yes fixed fee requires software be installed on a client PC requires use of a private, dedicated circuit — by vendor
Other information systems interfaced Voice-recognition products or partners system uses Histology and cytology devices interfaced	Cerner, McKesson, Meditech, Siemens, Epic, SCC Soft Computer Dragon NaturallySpeaking Shur/Mark, Thermo Shandon, Leica, Sakura, Dako, General Data cassette	Cerner, Eclipsys, Epic, McKesson, IDX, Siemens, TDS Dragon Medical Suite voice recognition Shur/Mark, Thermo Shandon cassette and slide labelers
User interface in language other than English?	and slide labeling devices, Ventana staining device no	yes (German)
Source code? User group? User can modify screens?	escrow yes (meets via Internet and in person) yes	escrow yes (meets via Internet quarterly) 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)	accession-to-storage tissue tracking in CoPath with advanced barcoding/tracking system Web-based report availability CoPath's integrated imaging and synoptic reporting systems	more than 25 years in the industry with proven scalability and performance comprehensive integrated single system for all lab departments continued innovations—that is, genomics, laboratory outreach solutions, patented synoptic reporting
*H=U.S. hospitals, IL=independent labs in U.S., C or GP=clinics or group practices in U.S., FI=foreign installations, OS=other sites **other—cales marketing administration and other company functions		

	The pathology computer sys	
Part 3 of 13	Clinical Information Systems Angela Woolley sales@cislab.com 18805 Willamete Drive	Computer Trust Corp. David Liberman, MD info@ctcsurge.com 1 State St.
See accompanying article on page 12	West Linn, OR 97068 800-869-0680 www.cislab.com	Boston, MA 02109-3507 617-557-9264 www.ctcsurge.com
Name of anatomic pathology system	CISLab CPS	WinSurge
First ever AP system installation Most recent AP system installation (based on survey deadline of Dec. 2007) No. of contracts for sites operating AP system (H/IL/C or GP/FI/OS)* • No. of contracts that went live in 2007 • No. of contracts not yet live/No. of these contracts signed in 2007 No. of sites operating AP system Percentage of installations that have stand-alone AP systems	1988 November 2007 20 (1/18/1/0/0) 1 1/1 20 60%	1989 fourth quarter 2007 81 (34/47/0/0/0) 5 2/2 97 100%
Staff to develop-install and support-other**		
In entire company In LIS division (including AP) In AP systems only	6-6-1 6-6-1 6 total	confidential confidential confidential
No. of user workstations in sites operating system Range in No. of surgical pathology cases per year in sites operating system Range in No. of gynecologic cytology cases per year in sites operating syst.	1–100+ (avg., 15) 2,500–115,000 3,000–300,000	5–3,000 (median, 30) 5,000–300,000 0–250,000
Programming language(s) Databases and tools used Word processor(s) used Operating system(s)	Delphi, Cobol, C++, ASP, Visual Basic Interbase, Microsoft SQL, C-ISAM, Access WordPerfect tools, Microsoft Word Windows, Unix	Visual Basic, Caché, SQL Object Caché, SQL, Crystal Reports, Microsoft Word Document Templates Word, Rich Text, plain text Windows, Unix (user's choice)
Features (listed as a percentage of live installs or based on availability) Surgical pathology information system Cytology information system Autopsy information system Autopsy measurements and organ weights Specimen log-in/specimen tracking and retrieval Entry of block IDs/specimen labels Histology slide labels/bar-coded slide labels Histology worksheets Word processing—vendor specific Voice entry of gross description/back-end batch voice to text Gross and microscopic images integrated in reports Electronic signature Remote printing of completed reports Direct fax reports Web-based remote inquiry of reports Physician Web access for order entry Natural language search capability Multi-site or multi-facility-wide area network Sound-alike retrieval of patient history Tumor registry reports/management reports Reports sufficient to comply with CLIA '88 regulations Comprehensive billing and accounts receivable Interface to external billing system HIS interface: A/D/T HIS interface: result reporting/incoming clinical results Partin tables or Gleason score calculations Synoptic reporting Client services module Consult management and reporting	100% 100% 5% 1000% 1000/available but not installed 100%/100% 100%/100% 100% 5% 5% 5% 100% 100% 100% 100% 1	100% 85% 65% 65% 65% 100%/100% 100%/100% 100%/40% 100% 100% 25% 80% 85% 60% 78% 60% 78% 60% 45% 100% 100% 100% 50%† 35% 33%/installed 30% 100% 100%
Software provides indexed field in each test definition for LOINC code? Provide LOINC dictionary for each new installation?	yes no	yes no
Routine results encoded in SNOMED (in version earlier than SNOMED CT)? Routine results encoded in SNOMED CT? AP system uses autoencoder to create SNOMED codes? Percentage of installed sites that represent cases in free text	no yes (at 5% of sites) no 95%	yes (at 10% of sites) yes (at 3% of sites) yes 90%
No. of installations that use AP system to automatically electronically transfer tumor diagnoses to a tumor registry	all in nonstandard data feed	NAACCR vol. V ePath standard for e-pathology reporting available to all sites/40% in older NAACCR standard
Complete AP application service provider solution? 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	yes transaction based browser based operates over the Internet 0	no
Other information systems interfaced	Medical Manager, McKesson, Dairyland, PCN, Reynolds & Reynolds, Praxis, LabCorp, GE, others	Cerner, McKesson, Misys, Meditech, Siemens, TDS, HDS, Per-Sé, IDX, others
Voice-recognition products or partners system uses Histology and cytology devices interfaced	DragonSpeak none	Dragon NaturallySpeaking Professional (integrated directly into WinSurge) slide engravers, cassette writers, slide labelers, microscope cameras/
User interface in language other than English?	no	Twain, Zebra bar-code labelers, high-speed scanners, others user defines language for captions, headers, queries, various reports
Source code? User group? User can modify screens?	escrow no no	escrow no 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	\$5k/\$7.5k/\$3k/\$0.35k \$100k/\$100k/\$20k/\$2.5k \$7.5k-\$150k \$5k/\$7.5k/\$3k/\$0.35k —/\$50k-\$100k/\$5k-\$20k/\$2.5k	\$10k/\$25k/\$10k/\$0.5k \$100k/\$2.5m/\$1.5m/\$35k 0 \$10k/\$25k/\$10k/\$0.5k \$100k/\$2.5m/\$1.5m/\$35k
Distinguishing features (supplied by vendor)	 provides client/server point-and-click access for pathology and cytology easy to learn and use at a reasonable cost easily integrated into an existing network environment 	puts you in control of your lab fast return on investment exceptional client satisfaction and ease of use for over 15 years
*H=U.S. hospitals, IL=independent labs in U.S., C or GP=clinics or group practices in U.S., FI=foreign installations, OS=other sites **other=sales, marketing, administration, and other company functions	athologista	[†] charge capture automatic with manual edit option

Part 4 of 13	Cortex Medical Management Systems Judith Krebs/Stan Gordon jkrebs@cortexmed.com/sgordon@cortexmed.com 2107 Elliott Ave., Suite 201	EasyPath Software Selig Leyser, MD Seligl@comcast.net 2551 103rd S.E.
See accompanying article on page 12	Seattle, WA 98121 800-278-4645 www.cortexmed.com	Beaux Arts, WA 98004 425-455-9012 http://homepage.mac.com/seligl/easypath/
Name of anatomic pathology system	The Gold Standard	EasyPath
First ever AP system installation Most recent AP system installation (based on survey deadline of Dec. 2007) No. of contracts for sites operating AP system (H/IL/C or GP/FI/OS)* No. of contracts that went live in 2007 No. of contracts not yet live/No. of these contracts signed in 2007 No. of sites operating AP system	1986 2007 44 (14/27/3/0/0) 2 0 55	1992 2002 8 (6/1/1/0/0) 0
Percentage of installations that have stand-alone AP systems	66%	100%
Staff to develop-install and support-other** • In entire company	4-3-3	1.5-0.5-0
In LIS division (including AP) In AP systems only	4-3-3 4-3-3	 1.5-0.5-0
No. of user workstations in sites operating system Range in No. of surgical pathology cases per year in sites operating system Range in No. of gynecologic cytology cases per year in sites operating syst.	1–63 (avg., 12) 50–70,000 50–120,000	5–12 (avg., 5) 1,500–60,000 200–60,000
Programming language(s)	Visual Basic	4th Dimension
Databases and tools used Word processor(s) used	Microsoft SQL server Microsoft Word	4D, 4D Tools 4D Write (fully integrated)
Operating system(s)	Windows 2000, XP, 2003	Windows 98, XP, Macintosh OS 9, X
Features (listed as a percentage of live installs or based on availability) Surgical pathology information system Cytology information system Autopsy information system Autopsy measurements and organ weights	100% 92% 50% 50%	100% 100% 100% 100%
Specimen log-in/specimen tracking and retrieval Entry of block IDs/specimen labels	100%/100% 80%/10%	100%/ 100% 100%/8%
Histology slide labels/bar-coded slide labels Histology worksheets	80%/20% 95%	8%/0 100%
Word processing—vendor specific	0	100%
Voice entry of gross description/back-end batch voice to text Gross and microscopic images integrated in reports	10% 40%	100% 30%
Electronic signature Remote printing of completed reports	95% 30%	30% 100%
Direct fax reports Web-based remote inquiry of reports	60% 35%	100%
Physician Web access for order entry	not available	0
Natural language search capability Multi-site or multi-facility-wide area network	100% 25%	100% 100%
Sound-alike retrieval of patient history Tumor registry reports/management reports	0 80%/100%	30% 40%/ 100%
Reports sufficient to comply with CLIA '88 regulations	100%	100%
Comprehensive billing and accounts receivable Interface to external billing system	35% 18%	50% 0
HIS interface: A/D/T HIS interface: result reporting/incoming clinical results	43% 27%/41%	0 20%/0
Partin tables or Gleason score calculations Synoptic reporting	10% 70%	30% 0
Client services module Consult management and reporting	not available 100%	0 100%
Software provides indexed field in each test definition for LOINC code? Provide LOINC dictionary for each new installation?	no no	no no
Routine results encoded in SNOMED (in version earlier than SNOMED CT)? Routine results encoded in SNOMED CT?	yes (at 5% of sites) no	yes (at 100% of sites) no
AP system uses autoencoder to create SNOMED codes?	no	no O
Percentage of installed sites that represent cases in free text	95%	
No. of installations that use AP system to automatically electronically transfer tumor diagnoses to a tumor registry	10 in nonstandard data feed	all in nonstandard data feed
Complete AP application service provider solution? Method of charging for ASP service	yes fixed fee	no
Client software required ASP information conduit	requires software be installed on a client PC operates over the Internet	Ξ
Client contracts supported from data center not operated by client How data center is operated	operates over the internet 4 by a third party (Ad Host)	=
Other information systems interfaced	3M, 4Medica, Meditech, Orchard, SCC Soft Computer, Cerner, Misys, others	Meditech, CoPath
Voice-recognition products or partners system uses Histology and cytology devices interfaced	Dragon Ventana and Leica in development	any that can integrate with text or WP field camera
User interface in language other than English?	no	yes (customized)
Source code? User group?	escrow yes (via Internet at least monthly and in person annually)	escrow
User can modify screens?	no	no yes
Cost (hardware/software/installation and training/monthly maintenance) • Smallest stand-alone system	n/a/\$50k/\$21k/\$0.9k	\$1k/\$10k/0/0
Largest stand-alone system Base price of integrated system, excluding AP configuration	n/a/\$200k/\$42k/\$3.6k n/a	\$6k/\$15k/\$1k/0 \$4k
Incremental cost to add smallest AP configuration Incremental cost to add largest AP configuration	n/a/\$2.5k/\$1.4k/\$0.05k n/a/\$1.5k/\$1.4k/\$0.03k	\$1k/\$10k/\$1k/0 \$6k/\$15k/\$2k/0
Distinguishing features (supplied by vendor)	SuperCase reflex testing for linking HPV cases to gynecologic cases	economical but powerful and easy to use
Bisunguising reatures (supplied by velluof)	Supercase reflex testing for linking HPV cases to gynecologic cases 25 years of business experience specifically in the area of anatomic pathology ASP subscription rental service available using the same AP system offered to customers who purchase the software	 economical but powerful and easy to use low cost to install, set up, and maintain written by a practicing pathologist with a professional programmer; easily customized
*H=U.S. hospitals, IL=independent labs in U.S., C or GP=clinics or group practices in U.S., FI=foreign installations, OS=other sites **other=sales, marketing, administration, and other company functions		
Tabulation does not represent an endorsement by the College of American P		

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Part 5 of 13	eTeleNext	GE Healthcare
	Joseph Nollar sales@etelenext.com	Barbara Mullarky barbara.mullarky@ge.com
	28570 Marguerite Parkway, Suite 222 Mission Viejo, CA 92692	3100 Steeles Ave. East, #900 Markham, Ontario Canada L3R 8T3
See accompanying article on page 12	949-365-0952 www.etelenext.com	520-722-9734 www.gehealthcare.com
Name of anatomic pathology system	AP Anywhere	Centricity Laboratory Anatomic Pathology and Cytology
First ever AP system installation Most recent AP system installation (based on survey deadline of Dec. 2007)	2004 December 2007	1991 2007
No. of contracts for sites operating AP system (H/IL/C or GP/FI/OS)*	13 (0/12/0/0/1 [†])	23 (11/0/0/12 in United Kingdom, Australia, Qatar/0)
No. of contracts that went live in 2007	2	2
No. of contracts not yet live/No. of these contracts signed in 2007 No. of sites operating AP system	2/2 13	1/0 33
Percentage of installations that have stand-alone AP systems	90%	2%
Staff to develop-install and support-other** • In entire company	9-4-2	45,000 total
• In LIS division (including AP)	9-4-2	44-49-7
• In AP systems only	8-3-1	not available
No. of user workstations in sites operating system	1–80 (avg., 35)	2-50 (avg., 25)
Range in No. of surgical pathology cases per year in sites operating system Range in No. of gynecologic cytology cases per year in sites operating syst.	3,000–75,000 3,000–75,000	5,000–250,000 1,000–75,000
nange in No. or gynecologic cytology cases per year in sites operating syst.	3,000-73,000	1,000-73,000
Programming language(s)	C++ .Net	C, C++, Unify Vision
Databases and tools used Word processor(s) used	SQL Microsoft Word	Unify DataServer database, Unify Development tool kit Microsoft Word
Operating system(s)	Windows	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 Autopsy measurements and organ weights	100% 100%	50% 50%
Specimen log-in/specimen tracking and retrieval	100%/100%	100%/100%
Entry of block IDs/specimen labels Histology slide labels/bar-coded slide labels	100%/100% 100%/100%	100%/100% 100%/100%
Histology worksheets	100%	75%
Word processing—vendor specific Voice entry of gross description/back-end batch voice to text	100% 0	installed 5%
Voice entry or gross description/back-end batch voice to text Gross and microscopic images integrated in reports	100%	installed
Electronic signature	100%	100%
Remote printing of completed reports Direct fax reports	100% 100%	100% 75%
Web-based remote inquiry of reports	100%	10%
Physician Web access for order entry Natural language search capability	50% 100%	available but not installed installed
Multi-site or multi-facility-wide area network	60%	75%
Sound-alike retrieval of patient history	50%	not available
Tumor registry reports/management reports Reports sufficient to comply with CLIA '88 regulations	available but not installed/100% 100%	20%/100% 100%
Comprehensive billing and accounts receivable	35%	90%
Interface to external billing system HIS interface: A/D/T	50% 10%/20%	80% 100%
HIS interface: result reporting/incoming clinical results	20%	100%/10%
Partin tables or Gleason score calculations Symposium reporting	65%	not available 40%
Synoptic reporting Client services module	75% 100%	installed
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 100% of sites)
Routine results encoded in SNOMED (in version earlier than SNOMED CT)? Routine results encoded in SNOMED CT?	yes	no
Routine results encoded in SNOMED (in version earlier than SNOMED CT)?		•
Routine results encoded in SNOMED (in version earlier than SNOMED CT)? Routine results encoded in SNOMED CT? AP system uses autoencoder to create SNOMED codes? Percentage of installed sites that represent cases in free text	yes yes O	no yes n/a
Routine results encoded in SNOMED (in version earlier than SNOMED CT)? Routine results encoded in SNOMED CT? AP system uses autoencoder to create SNOMED codes?	yes yes	no yes
Routine results encoded in SNOMED (in version earlier than SNOMED CT)? Routine results encoded in SNOMED CT? AP system uses autoencoder to create SNOMED codes? Percentage of installed sites that represent cases in free text No. of installations that use AP system to automatically electronically transfer tumor diagnoses to a tumor registry	yes yes 0 none	no yes n/a 5 in Edifact via FTP and 3 in nonstandard data feed
Routine results encoded in SNOMED (in version earlier than SNOMED CT)? Routine results encoded in SNOMED CT? AP system uses autoencoder to create SNOMED codes? Percentage of installed sites that represent cases in free text No. of installations that use AP system to automatically electronically transfer tumor diagnoses to a tumor registry Complete AP application service provider solution? Method of charging for ASP service	yes yes 0 none yes fixed fee	no yes n/a
Routine results encoded in SNOMED (in version earlier than SNOMED CT)? Routine results encoded in SNOMED CT? AP system uses autoencoder to create SNOMED codes? Percentage of installed sites that represent cases in free text No. of installations that use AP system to automatically electronically transfer tumor diagnoses to a tumor registry Complete AP application service provider solution? Method of charging for ASP service Client software required	yes yes 0 none yes fixed fee browser based	no yes n/a 5 in Edifact via FTP and 3 in nonstandard data feed
Routine results encoded in SNOMED (in version earlier than SNOMED CT)? Routine results encoded in SNOMED CT? AP system uses autoencoder to create SNOMED codes? Percentage of installed sites that represent cases in free text No. of installations that use AP system to automatically electronically transfer tumor diagnoses to a tumor registry Complete AP application service provider solution? Method of charging for ASP service	yes yes 0 none yes fixed fee	no yes n/a 5 in Edifact via FTP and 3 in nonstandard data feed
Routine results encoded in SNOMED (in version earlier than SNOMED CT)? Routine results encoded in SNOMED CT? AP system uses autoencoder to create SNOMED codes? Percentage of installed sites that represent cases in free text No. of installations that use AP system to automatically electronically transfer tumor diagnoses to a tumor registry Complete AP application service provider solution? Method of charging for ASP service Client software required ASP information conduit	yes yes 0 none yes fixed fee browser based	no yes n/a 5 in Edifact via FTP and 3 in nonstandard data feed
Routine results encoded in SNOMED (in version earlier than SNOMED CT)? Routine results encoded in SNOMED CT? AP system uses autoencoder to create SNOMED codes? Percentage of installed sites that represent cases in free text No. of installations that use AP system to automatically electronically transfer tumor diagnoses to a tumor registry Complete AP application service provider solution? Method of charging for ASP service Client software required ASP information conduit Client contracts supported from data center not operated by client	yes yes 0 none yes fixed fee browser based operates over the Internet 1	no yes n/a 5 in Edifact via FTP and 3 in nonstandard data feed
Routine results encoded in SNOMED (in version earlier than SNOMED CT)? Routine results encoded in SNOMED CT? AP system uses autoencoder to create SNOMED codes? Percentage of installed sites that represent cases in free text No. of installations that use AP system to automatically electronically transfer tumor diagnoses to a tumor registry Complete AP application service provider solution? 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	yes yes 0 none yes fixed fee browser based operates over the Internet 1 by vendor Cortex, GE Healthcare, Misys, Meditech, Cerner	no yes n/a 5 in Edifact via FTP and 3 in nonstandard data feed no
Routine results encoded in SNOMED (in version earlier than SNOMED CT)? Routine results encoded in SNOMED CT? AP system uses autoencoder to create SNOMED codes? Percentage of installed sites that represent cases in free text No. of installations that use AP system to automatically electronically transfer tumor diagnoses to a tumor registry Complete AP application service provider solution? 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 Voice-recognition products or partners system uses Histology and cytology devices interfaced	yes yes 0 none yes fixed fee browser based operates over the Internet 1 by vendor	no yes n/a 5 in Edifact via FTP and 3 in nonstandard data feed no
Routine results encoded in SNOMED (in version earlier than SNOMED CT)? Routine results encoded in SNOMED CT? AP system uses autoencoder to create SNOMED codes? Percentage of installed sites that represent cases in free text No. of installations that use AP system to automatically electronically transfer tumor diagnoses to a tumor registry Complete AP application service provider solution? 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 Voice-recognition products or partners system uses	yes yes 0 none yes fixed fee browser based operates over the Internet 1 by vendor Cortex, GE Healthcare, Misys, Meditech, Cerner none	no yes n/a 5 in Edifact via FTP and 3 in nonstandard data feed no
Routine results encoded in SNOMED (in version earlier than SNOMED CT)? Routine results encoded in SNOMED CT? AP system uses autoencoder to create SNOMED codes? Percentage of installed sites that represent cases in free text No. of installations that use AP system to automatically electronically transfer tumor diagnoses to a tumor registry Complete AP application service provider solution? 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 Voice-recognition products or partners system uses Histology and cytology devices interfaced User interface in language other than English? Source code?	yes yes 0 none yes fixed fee browser based operates over the Internet 1 by vendor Cortex, GE Healthcare, Misys, Meditech, Cerner none Beckman Coulter, BD, ChromaVision ACIS, Trestle, Aperio, others	no yes n/a 5 in Edifact via FTP and 3 in nonstandard data feed no
Routine results encoded in SNOMED (in version earlier than SNOMED CT)? Routine results encoded in SNOMED CT? AP system uses autoencoder to create SNOMED codes? Percentage of installed sites that represent cases in free text No. of installations that use AP system to automatically electronically transfer tumor diagnoses to a tumor registry Complete AP application service provider solution? 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 Voice-recognition products or partners system uses Histology and cytology devices interfaced User interface in language other than English? Source code? User group?	yes yes 0 none yes fixed fee browser based operates over the Internet 1 by vendor Cortex, GE Healthcare, Misys, Meditech, Cerner none Beckman Coulter, BD, ChromaVision ACIS, Trestle, Aperio, others no escrow yes (meets via Internet)	no yes n/a 5 in Edifact via FTP and 3 in nonstandard data feed no — — — GE, McKesson, Siemens, Meditech, Per-Sé, Cerner, Eclipsys, Compucare Philips SpeechMagic, Dragon NaturallySpeaking Shur/Mark, Lam, Leica, Twain-compatible cameras no escrow yes (meets via Internet quarterly and in person annually)
Routine results encoded in SNOMED (in version earlier than SNOMED CT)? Routine results encoded in SNOMED CT? AP system uses autoencoder to create SNOMED codes? Percentage of installed sites that represent cases in free text No. of installations that use AP system to automatically electronically transfer tumor diagnoses to a tumor registry Complete AP application service provider solution? 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 Voice-recognition products or partners system uses Histology and cytology devices interfaced User interface in language other than English? Source code?	yes yes 0 none yes fixed fee browser based operates over the Internet 1 by vendor Cortex, GE Healthcare, Misys, Meditech, Cerner none Beckman Coulter, BD, ChromaVision ACIS, Trestle, Aperio, others no escrow	no yes n/a 5 in Edifact via FTP and 3 in nonstandard data feed no
Routine results encoded in SNOMED (in version earlier than SNOMED CT)? Routine results encoded in SNOMED CT? AP system uses autoencoder to create SNOMED codes? Percentage of installed sites that represent cases in free text No. of installations that use AP system to automatically electronically transfer tumor diagnoses to a tumor registry Complete AP application service provider solution? 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 Voice-recognition products or partners system uses Histology and cytology devices interfaced User interface in language other than English? Source code? User group? User can modify screens? Cost (hardware/software/installation and training/monthly maintenance)	yes yes 0 none yes fixed fee browser based operates over the Internet 1 by vendor Cortex, GE Healthcare, Misys, Meditech, Cerner none Beckman Coulter, BD, ChromaVision ACIS, Trestle, Aperio, others no escrow yes (meets via Internet) yes	no yes n/a 5 in Edifact via FTP and 3 in nonstandard data feed no GE, McKesson, Siemens, Meditech, Per-Sé, Cerner, Eclipsys, Compucare Philips SpeechMagic, Dragon NaturallySpeaking Shur/Mark, Lam, Leica, Twain-compatible cameras no escrow yes (meets via Internet quarterly and in person annually) yes
Routine results encoded in SNOMED (in version earlier than SNOMED CT)? Routine results encoded in SNOMED CT? AP system uses autoencoder to create SNOMED codes? Percentage of installed sites that represent cases in free text No. of installations that use AP system to automatically electronically transfer tumor diagnoses to a tumor registry Complete AP application service provider solution? 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 Voice-recognition products or partners system uses Histology and cytology devices interfaced User interface in language other than English? Source code? User group? User can modify screens?	yes yes 0 none yes fixed fee browser based operates over the Internet 1 by vendor Cortex, GE Healthcare, Misys, Meditech, Cerner none Beckman Coulter, BD, ChromaVision ACIS, Trestle, Aperio, others no escrow yes (meets via Internet)	no yes n/a 5 in Edifact via FTP and 3 in nonstandard data feed no GE, McKesson, Siemens, Meditech, Per-Sé, Cerner, Eclipsys, Compucare Philips SpeechMagic, Dragon NaturallySpeaking Shur/Mark, Lam, Leica, Twain-compatible cameras no escrow yes (meets via Internet quarterly and in person annually)
Routine results encoded in SNOMED (in version earlier than SNOMED CT)? Routine results encoded in SNOMED CT? AP system uses autoencoder to create SNOMED codes? Percentage of installed sites that represent cases in free text No. of installations that use AP system to automatically electronically transfer tumor diagnoses to a tumor registry Complete AP application service provider solution? 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 Voice-recognition products or partners system uses Histology and cytology devices interfaced User interface in language other than English? Source code? User group? User can modify screens? Cost (hardware/software/installation and training/monthly maintenance) Smallest stand-alone system Largest stand-alone system Base price of integrated system, excluding AP configuration	yes yes 0 none yes fixed fee browser based operates over the Internet 1 by vendor Cortex, GE Healthcare, Misys, Meditech, Cerner none Beckman Coulter, BD, ChromaVision ACIS, Trestle, Aperio, others no escrow yes (meets via Internet) yes \$20k/\$152k/\$5k/\$2k	no yes n/a 5 in Edifact via FTP and 3 in nonstandard data feed no
Routine results encoded in SNOMED (in version earlier than SNOMED CT)? Routine results encoded in SNOMED CT? AP system uses autoencoder to create SNOMED codes? Percentage of installed sites that represent cases in free text No. of installations that use AP system to automatically electronically transfer tumor diagnoses to a tumor registry Complete AP application service provider solution? 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 Voice-recognition products or partners system uses Histology and cytology devices interfaced User interface in language other than English? Source code? User group? User can modify screens? 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	yes yes 0 none yes fixed fee browser based operates over the Internet 1 by vendor Cortex, GE Healthcare, Misys, Meditech, Cerner none Beckman Coulter, BD, ChromaVision ACIS, Trestle, Aperio, others no escrow yes (meets via Internet) yes \$20k/\$152k/\$5k/\$2k	no yes n/a 5 in Edifact via FTP and 3 in nonstandard data feed no
Routine results encoded in SNOMED (in version earlier than SNOMED CT)? Routine results encoded in SNOMED CT? AP system uses autoencoder to create SNOMED codes? Percentage of installed sites that represent cases in free text No. of installations that use AP system to automatically electronically transfer tumor diagnoses to a tumor registry Complete AP application service provider solution? 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 Voice-recognition products or partners system uses Histology and cytology devices interfaced User interface in language other than English? Source code? User group? User can modify screens? 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	yes yes 0 none yes fixed fee browser based operates over the Internet 1 by vendor Cortex, GE Healthcare, Misys, Meditech, Cerner none Beckman Coulter, BD, ChromaVision ACIS, Trestle, Aperio, others no escrow yes (meets via Internet) yes \$20k/\$152k/\$5k/\$2k \$100k/\$299k/\$30k/\$4.5k	no yes n/a 5 in Edifact via FTP and 3 in nonstandard data feed no
Routine results encoded in SNOMED (in version earlier than SNOMED CT)? Routine results encoded in SNOMED CT? AP system uses autoencoder to create SNOMED codes? Percentage of installed sites that represent cases in free text No. of installations that use AP system to automatically electronically transfer tumor diagnoses to a tumor registry Complete AP application service provider solution? 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 Voice-recognition products or partners system uses Histology and cytology devices interfaced User interface in language other than English? Source code? User group? User can modify screens? 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	yes yes 0 none yes fixed fee browser based operates over the Internet 1 by vendor Cortex, GE Healthcare, Misys, Meditech, Cerner none Beckman Coulter, BD, ChromaVision ACIS, Trestle, Aperio, others no escrow yes (meets via Internet) yes \$20k/\$152k/\$5k/\$2k \$100k/\$299k/\$30k/\$4.5k • product branded for client	no yes n/a 5 in Edifact via FTP and 3 in nonstandard data feed no
Routine results encoded in SNOMED (in version earlier than SNOMED CT)? Routine results encoded in SNOMED CT? AP system uses autoencoder to create SNOMED codes? Percentage of installed sites that represent cases in free text No. of installations that use AP system to automatically electronically transfer tumor diagnoses to a tumor registry Complete AP application service provider solution? 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 Voice-recognition products or partners system uses Histology and cytology devices interfaced User interface in language other than English? Source code? User group? User can modify screens? 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	yes yes 0 none yes fixed fee browser based operates over the Internet 1 by vendor Cortex, GE Healthcare, Misys, Meditech, Cerner none Beckman Coulter, BD, ChromaVision ACIS, Trestle, Aperio, others no escrow yes (meets via Internet) yes \$20k/\$152k/\$5k/\$2k \$100k/\$299k/\$30k/\$4.5k	no yes n/a 5 in Edifact via FTP and 3 in nonstandard data feed no
Routine results encoded in SNOMED (in version earlier than SNOMED CT)? Routine results encoded in SNOMED CT? AP system uses autoencoder to create SNOMED codes? Percentage of installed sites that represent cases in free text No. of installations that use AP system to automatically electronically transfer tumor diagnoses to a tumor registry Complete AP application service provider solution? 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 Voice-recognition products or partners system uses Histology and cytology devices interfaced User interface in language other than English? Source code? User group? User can modify screens? 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	yes yes 0 none yes fixed fee browser based operates over the Internet 1 by vendor Cortex, GE Healthcare, Misys, Meditech, Cerner none Beckman Coulter, BD, ChromaVision ACIS, Trestle, Aperio, others no escrow yes (meets via Internet) yes \$20k/\$152k/\$5k/\$2k \$100k/\$299k/\$30k/\$4.5k — — — • product branded for client • client-controlled, user-defined custom report builder, including images,	no yes n/a 5 in Edifact via FTP and 3 in nonstandard data feed no
Routine results encoded in SNOMED (in version earlier than SNOMED CT)? Routine results encoded in SNOMED CT? AP system uses autoencoder to create SNOMED codes? Percentage of installed sites that represent cases in free text No. of installations that use AP system to automatically electronically transfer tumor diagnoses to a tumor registry Complete AP application service provider solution? 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 Voice-recognition products or partners system uses Histology and cytology devices interfaced User interface in language other than English? Source code? User group? User can modify screens? Cost (hardware/software/installation and training/monthly maintenance) • Smallest 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)	yes yes 0 none yes fixed fee browser based operates over the Internet 1 by vendor Cortex, GE Healthcare, Misys, Meditech, Cerner none Beckman Coulter, BD, ChromaVision ACIS, Trestle, Aperio, others no escrow yes (meets via Internet) yes \$20k/\$152k/\$5k/\$2k \$100k/\$299k/\$30k/\$4.5k — — — • product branded for client • client-controlled, user-defined custom report builder, including images, graphs, etc.	no yes n/a 5 in Edifact via FTP and 3 in nonstandard data feed no
Routine results encoded in SNOMED (in version earlier than SNOMED CT)? Routine results encoded in SNOMED CT? AP system uses autoencoder to create SNOMED codes? Percentage of installed sites that represent cases in free text No. of installations that use AP system to automatically electronically transfer tumor diagnoses to a tumor registry Complete AP application service provider solution? 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 Voice-recognition products or partners system uses Histology and cytology devices interfaced User interface in language other than English? Source code? User group? User can modify screens? 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	yes yes 0 none yes fixed fee browser based operates over the Internet 1 by vendor Cortex, GE Healthcare, Misys, Meditech, Cerner none Beckman Coulter, BD, ChromaVision ACIS, Trestle, Aperio, others no escrow yes (meets via Internet) yes \$20k/\$152k/\$5k/\$2k \$100k/\$299k/\$30k/\$4.5k — — — • product branded for client • client-controlled, user-defined custom report builder, including images, graphs, etc.	no yes n/a 5 in Edifact via FTP and 3 in nonstandard data feed no

	inic pathology computer sys	
Part 6 of 13	Impac Medical Systems Rick Callahan sales@impac.com 100 Mathilda Place, 5th floor Sunnyvale, CA 94086	McKesson Corp. Joseph Stabile joseph.stabile@mckesson.com 5995 Windward Parkway Alpharetta, GA 30005
See accompanying article on page 12	888-464-6722 www.impac.com	404-338-6000 www.mckesson.com/laboratory
Name of anatomic pathology system	PowerPath	Horizon Anatomic Pathology [†]
First ever AP system installation Most recent AP system installation (based on survey deadline of Dec. 2007) No. of contracts for sites operating AP system (H/IL/C or GP/FI/OS)* • No. of contracts that went live in 2007 • No. of contracts not yet live/No. of these contracts signed in 2007 No. of sites operating AP system Percentage of installations that have stand-alone AP systems Staff to develop-install and support-other** • In entire company	1986 December 2007 211 (160/33/14/4 in Canada/0) 14 —/13 423 100%	
In LIS division (including AP) In AP systems only	17-37-19 12-20-12	80 total —
No. of user workstations in sites operating system Range in No. of surgical pathology cases per year in sites operating system Range in No. of gynecologic cytology cases per year in sites operating syst.	52–400 (avg., 15–30) 1,500–150,000 5,000–350,000	not tracked not tracked
Programming language(s) Databases and tools used Word processor(s) used Operating system(s)	C++, .Net, Borland Delphi Microsoft SQL Microsoft Word Windows	Java, .Net Framework, C++ Oracle 10g Microsoft Word Windows, Linux, HP-UX, AIX
Features (listed as a percentage of live installs or based on availability) Surgical pathology information system Cytology information system Autopsy information system Autopsy measurements and organ weights Specimen log-in/specimen tracking and retrieval Entry of block IDs/specimen labels Histology slide labels/bar-coded slide labels Histology worksheets Word processing—vendor specific Voice entry of gross description/back-end batch voice to text Gross and microscopic images integrated in reports Electronic signature Remote printing of completed reports Direct fax reports Web-based remote inquiry of reports Physician Web access for order entry Natural language search capability Multi-site or multi-facility-wide area network Sound-alike retrieval of patient history Tumor registry reports/management reports Reports sufficient to comply with CLIA '88 regulations Comprehensive billing and accounts receivable Interface to external billing system HIS interface: A/D/T HIS interface: result reporting/incoming clinical results Partin tables or Gleason score calculations Synoptic reporting Client services module Consult management and reporting	100% 100% 100% 100% installed 100%/2% 100%/100% 100% 100% 100% installed 30% 100% 100% 100% 100% 100% 100% 100%	installed installed installed installed installed/installed installed/installed installed/installed installed installed installed available in December 2008 installed
Software provides indexed field in each test definition for LOINC code? Provide LOINC dictionary for each new installation?	no no	no no
Routine results encoded in SNOMED (in version earlier than SNOMED CT)? Routine results encoded in SNOMED CT? AP system uses autoencoder to create SNOMED codes? Percentage of installed sites that represent cases in free text	yes yes no not tracked	no yes no 0 (free text diagnoses encoded)
No. of installations that use AP system to automatically electronically transfer tumor diagnoses to a tumor registry	2 in NAACCR vol. V ePath standard for e-pathology reporting	not available
Complete AP application service provider solution? 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	no — — — —	no — — — —
Other information systems interfaced Voice-recognition products or partners system uses Histology and cytology devices interfaced	Eclipsys, Cerner, Misys, Siemens, McKesson, Meditech, SCC Soft Computer, IDX, others Dragon NaturallySpeaking, Voicebrook Shur/Mark, Shandon, Leica, Sakura, Ventana, General Data	McKesson Star HIS under development available on request
User interface in language other than English? Source code?	no escrow	no escrow
User group? User can modify screens?	yes (meets in person via 1 annual conference and regional conferences through year) yes	yes (meets in person annually)
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		
*H=U.S. hospitals, IL=independent labs in U.S., C or GP=clinics or group practices in U.S., Fl=foreign installations, OS=other sites **other=sales, marketing, administration, and other company functions	advanced materials processing module enhances patient safety with expanded use of bar-code technology to track case materials from accessioning to sign-out case-centric workflow enables users to see pertinent details about a case outstanding customer satisfaction	task-based design pathologist console (includes virtual slide tray) that allows the pathologist to navigate to any function with a single click to view patient history and clinical results, add orders, sign reports, request a consult, etc. extensive use of bar coding and industry standard embedded tools †product expected to be commercially available first quarter 2008; answers based on pilot site

Part 7 of 13	Madical Information Tophnology (Maditagh)	Medical Information Technology (Meditech)
Falt 7 of 13	Medical Information Technology (Meditech) Paul Berthiaume info@meditech.com	Medical Information Technology (Meditech) Paul Berthiaume info@meditech.com
	Meditech Circle	Meditech Circle
Con accompanying article on page 12	Westwood, MA 02090	Westwood, MA 02090
See accompanying article on page 12	781-821-3000 www.meditech.com	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 survey deadline of Dec. 2007)	September 2007	September 2007
No. of contracts for sites operating AP system (H/IL/C or GP/FI/OS)*	not tracked	not tracked
No. of contracts that went live in 2007 No. of contracts not yet live/No. of these contracts signed in 2007	not tracked not tracked	not tracked not tracked
No. of sites operating AP system	183	621
Percentage of installations that have stand-alone AP systems	0	0
Staff to develop-install and support-other** • In entire company	CAO 4 C44 O1E	CAO 1 C11 21E
In Elitie Company In LIS division (including AP)	642-1,611-315 15-118-6	642-1,611-315 15-118-6
• In AP systems only		_
No. of user workstations in sites operating system	5-100+ (avg., 5-10)	5-100+ (avg., 5-10)
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 syst.	not tracked	not tracked
Dragramming language(a)	Morio	Magic
Programming language(s) Databases and tools used	Magic Magic, client/server	Magic, client/server
Word processor(s) used	Microsoft Word, Rich Text	Microsoft Word, Rich Text
Operating system(s)	industry-standard solutions	Magic
Features (listed as a percentage of live installs or based on availability)		
Surgical pathology information system	100%	100%
Cytology information system Autonosy information system	100%	100%
Autopsy information system Autopsy measurements and organ weights	100% 100%	100% 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 Histology worksheets	100%/100% 100%	100%/100% 100%
Word processing—vendor specific	100%	100%
Voice entry of gross description/back-end batch voice to text	100%	100%
Gross and microscopic images integrated in reports Electronic signature	100% 100%	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 Natural language search capability	100% 100%	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 Reports sufficient to comply with CLIA '88 regulations	100%/100% 100%	100%/100% 100%
Comprehensive billing and accounts receivable	100%	100%
Interface to external billing system	100%	100%
HIS interface: A/D/T HIS interface: result reporting/incoming clinical results	100% 100%/100%	100% 100%/100%
Partin tables or Gleason score calculations	100%	100%
Synoptic reporting	100%	100%
Client services module Consult management and senarting	100%	100%
Consult management and reporting	100%	100%
Software provides indexed field in each test definition for LOINC code? Provide LOINC dictionary for each new installation?	yes yes	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?	no	no
AP system uses autoencoder to create SNOMED codes? Percentage of installed sites that represent cases in free text	no n/a	no n/a
. 3.33mago or mouniou artos triat represent eases in fiet text		
No. of installations that use AP system to automatically	none	none
electronically transfer tumor diagnoses to a tumor registry		
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?	n/a no	n/a no
more me and go only and Lingholi		
Source code?	yes	yes
User group? User can modify screens?	yes (meets in person) yes	yes (meets in person) 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	_	
Incremental cost to add largest AP configuration		_
Distinguishing features (supplied by vendor)	over 38 years' experience developing and implementing LISs	over 38 years' experience developing and implementing LISs
	 seamless exchange of data across departments and facilities regardless of care setting 	 seamless exchange of data across departments and facilities regardless of care setting
	care setting contains necessary software to capture and store digital images and	contains necessary software to capture and store digital images and
	added notations	added notations
*H=U.S. hospitals, IL=independent labs in U.S.,		

C or GP=clinics or group practices in U.S., FI=foreign installations, OS=other sites **other=sales, marketing, administration, and other company functions

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Part 8 of 13	MediSolution	Netlims NJ LLC
	110 Cremazie Blvd. West Montreal, Quebec, Canada	Avi Allerhand avi@netlims.com 111 Town Square Place, Suite 700
	800-361-4187	Jersey City, NJ 07310
See accompanying article on page 12	www.medisolution.com	201-894-5300 www.netlims.com
Name of anatomic pathology system	TD-Synergy Anatomic Pathology	AutoAP
First ever AP system installation	1974	2000
Most recent AP system installation (based on survey deadline of Dec. 2007)	November 2007	2007
No. of contracts for sites operating AP system (H/IL/C or GP/FI/OS)*	180 (1/1/0/178 in Canada, France, United Kingdom, others/0)	11 (0/3/0/8 in India, Israel/0)
No. of contracts that went live in 2007 No. of contracts not yet live/No. of these contracts signed in 2007	2 4/4	1 2/2
No. of sites operating AP system	180	13
Percentage of installations that have stand-alone AP systems	40%	0
Staff to develop-install and support-other** • In entire company	445 total	55-37-13
In LIS division (including AP)	79-11-13	五.
In AP systems only	6-not indicated-not indicated	8-6-0
No. of user workstations in sites operating system	3–112 (avg., 45)	10-60 (avg., 25)
Range in No. of surgical pathology cases per year in sites operating system Range in No. of gynecologic cytology cases per year in sites operating syst.	5,000–65,000 2,500–150,000	1,200–40,000 2,000–15,000
Traingo in 16. or gynocologic sytology cases per year in sites operating syst	2,000 100,000	2,000 10,000
Programming language(s) Databases and tools used	C++ SQL, Oracle	C++, Java, Visual Basic, ASP, .Net Microsoft SQL, Oracle, Caché
Word processor(s) used	Microsoft Word	Microsoft Word
Operating system(s)	Windows, Linux, Unix	Windows, Linux, Unix
Features (listed as a percentage of live installs or based on availability)		
Surgical pathology information system	100%	100%
Cytology information system Autopsy information system	90% 75%	100% 100%
Autopsy measurements and organ weights	installed	100%
Specimen log-in/specimen tracking and retrieval Entry of block IDs/cneeimen lobels	75%/20% 1009/(1009/	100%/100%
Entry of block IDs/specimen labels Histology slide labels/bar-coded slide labels	100%/100% 100%/100%	100%/100% 33%/33%
Histology worksheets	85%	100%
Word processing—vendor specific Voice entry of gross description/back-end batch voice to text	 15%	100% installed
Voice entry or gross description/back-end batch voice to text Gross and microscopic images integrated in reports	15% —	100%
Electronic signature	95%	100%
Remote printing of completed reports Direct fax reports	100% 100%	66% 100%
Web-based remote inquiry of reports	20%	100%
Physician Web access for order entry Natural language search capability	installed 25%	66%
Natural language search capability Multi-site or multi-facility-wide area network	45%	available but not installed 33%
Sound-alike retrieval of patient history	not available	100%
Tumor registry reports/management reports Reports sufficient to comply with CLIA '88 regulations	57%/100% 30%	100%/100% 100%
Comprehensive billing and accounts receivable	40%	70%
Interface to external billing system HIS interface: A/D/T	10% 58%	30% 80%
HIS interface: A/D/T HIS interface: result reporting/incoming clinical results	10%/installed	100%/installed
Partin tables or Gleason score calculations	5%	not available
Synoptic reporting Client services module	75% 	available but not installed 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?	no	no
Routine results encoded in SNOMED (in version earlier than SNOMED CT)?	yes (at 10% of sites)	yes
Routine results encoded in SNOMED CT?	yes (at 50% of sites)	yes
AP system uses autoencoder to create SNOMED codes? Percentage of installed sites that represent cases in free text	yes 40%	no O
		•
No. of installations that use AP system to automatically electronically transfer tumor diagnoses to a tumor registry	_	_
Complete AP application service provider solution? Method of charging for ASP service	<u>no</u>	no
Client software required	_	_
ASP information conduit Client contracts supported from data center not operated by client		
How data center is operated	_	_
Other information eyetome interfaced	MadiSolution SCC Soft Computer Koope Makesoon Missis CE Healthcom	Signance IDV Early Corner SCC Soft Computer Migus Vilia
Other information systems interfaced	MediSolution, SCC Soft Computer, Keane, McKesson, Misys, GE Healthcare, Meditech, others	Siemens, IDX, Eagle, Cerner, SCC Soft Computer, Misys, Xifin
Voice-recognition products or partners system uses	Dragon NaturallySpeaking, any Microsoft Word-compatible product	Dragon NaturallySpeaking
Histology and cytology devices interfaced User interface in language other than English?	Shur/Mark, SurgiPath, Fisher Scientific cassette printers, Ventana stainers yes (in French, Spanish, German, Italian, Korean, Chinese)	Leica yes (in any language)
555. monaco m ranguago outor utan Lugusu:	, 100 (11 Francis) Spanish, Gorman, mandh, Mredh, Olintesej	300 (iii uii) iuiiguugo/
Source code? User group?	escrow	escrow
User can modify screens?	yes (meets in person biannually) yes	no yes
Cost /hovduges/oothyges/installation and training/months		
Cost (hardware/software/installation and training/monthly maintenance) • Smallest stand-alone system	\$20k/\$50k/\$15k/\$0.833k	\$30k/\$120k/\$30k/\$2.25k
Largest stand-alone system	\$50k/\$300k/\$40k/\$5k	\$150k/\$500k/\$90k/\$6k
Base price of integrated system, excluding AP configuration Incremental cost to add smallest AP configuration	\$280k /\$3k//	
Incremental cost to add singlest AP configuration	——————————————————————————————————————	_
Dictinguiching features (cumplied by yender)	• complete online history including images and retreatestive review	• and database for all disciplinesAD microbiology, general lab
Distinguishing features (supplied by vendor)	 complete online history, including images and retrospective review ongoing development of new functionalities (ThinPrep, HPV, rule-based 	one database for all disciplines—AP, microbiology, general lab easily tailored for any environment and work procedure
	logic, etc.)	• advanced technology—database choice, document management, Web,
	positive sample ID with bar codes for efficient paperless workflow	Windows integration
*H=U.S. hospitals, IL=independent labs in U.S.,		
T=U.S. HUSDINAIS, IL=HUGEDEHIGEHI IADS III U.S.		

C or GP=clinics or group practices in U.S., Fl=foreign installations, OS=other sites
**other=sales, marketing, administration, and other company functions

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

	The pathology computer sys	5.011.0
Part 9 of 13	NetSoft William Hughes sales@netsoftusa.com 2156 W. Park Court, Suite E	Novovision Hina Kharbey sales@novovision.com 301 N. Harrison St., Suite 384
See accompanying article on page 12	Stone Mountain, GA 30087 866-463-8763 www.netsoftusa.com	Princeton, NJ 08540 877-668-6123 wwww.novovision.com
Name of anatomic pathology system	IntelliPath	NovoPath
First ever AP system installation Most recent AP system installation (based on survey deadline of Dec. 2007) No. of contracts for sites operating AP system (H/IL/C or GP/FI/OS)* • No. of contracts that went live in 2007 • No. of contracts not yet live/No. of these contracts signed in 2007 No. of sites operating AP system Percentage of installations that have stand-alone AP systems Staff to develop-install and support-other** • In entire company • In LIS division (including AP)	2001 December 2007 51 (6/34/10/1 in Canada/0) 8 1/1 70 100%	1999 December 2007 81 (6/55/20/0/0) — 3/3 130 100% 8-8-3
• In AP systems only	_	_
No. of user workstations in sites operating system Range in No. of surgical pathology cases per year in sites operating system Range in No. of gynecologic cytology cases per year in sites operating syst.	1–50 (avg., 11) 3,500–240,000 12,000–65,000	3–400 (avg., 25) 3,500–275,000 1,500–750,000
Programming language(s) Databases and tools used Word processor(s) used Operating system(s)	Clarion, C++, .Net Pervasive SQL integrated Windows 2000, XP, Vista	Microsoft Visual Studio Platform SQL server, Oracle user's choice (Microsoft Word, Acrobat Reader) Microsoft Windows or Web browser based
Features (listed as a percentage of live installs or based on availability) Surgical pathology information system Cytology information system Autopsy information system Autopsy measurements and organ weights Specimen log-in/specimen tracking and retrieval Entry of block IDs/specimen labels Histology slide labels/bar-coded slide labels Histology worksheets Word processing—vendor specific Voice entry of gross description/back-end batch voice to text Gross and microscopic images integrated in reports Electronic signature Remote printing of completed reports Direct fax reports Web-based remote inquiry of reports Physician Web access for order entry Natural language search capability Multi-site or multi-facility-wide area network Sound-alike retrieval of patient history Tumor registry reports/management reports Reports sufficient to comply with CLIA '88 regulations Comprehensive billing and accounts receivable Interface to external billing system HIS interface: A/D/T HIS interface: result reporting/incoming clinical results Partin tables or Gleason score calculations Synoptic reporting Client services module Consult management and reporting	100% 20% 10% 10% 10% 100%/100% 100%/100% 100%/5% 90% 100% 5% 25% 100% 20% 95% 35% 2% 100% 25% installed 100%/100% 100% 45% 35% 15% 15% 15% 15% 15% 5%	100% 100% 100% 100% 100%/100% 100%/100% 100%/100% 100%
Software provides indexed field in each test definition for LOINC code? Provide LOINC dictionary for each new installation? Routine results encoded in SNOMED (in version earlier than SNOMED CT)?	no no	no no
Routine results encoded in SNOMED CT? AP system uses autoencoder to create SNOMED codes? Percentage of installed sites that represent cases in free text	no yes 85%	no no 0
No. of installations that use AP system to automatically electronically transfer tumor diagnoses to a tumor registry	3 in NAACCR vol. V ePath standard for e-pathology reporting/10 in nonstandard data feed	2 in NAACCR format/15 in nonstandard data feed
Complete AP application service provider solution? 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	yes transaction based requires software be installed on a client PC operates over the Internet — by a third party	yes browser based requires software be installed on a client PC operates over the Internet 2 by vendor
Other information systems interfaced Voice-recognition products or partners system uses Histology and cytology devices interfaced User interface in language other than English?	Cerner, Medical Manager, Misys, IDX, Meditech, others Dragon NaturallySpeaking Thermo Electron slide labeler, Shur/Mark, Shandon, Leica, General Data no	McKesson, Invision, Eclipsys, CPSI, others Dragon NaturallySpeaking Ventana (beta) no
Source code? User group? User can modify screens?	escrow yes (meets in person) yes	escrow no 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)	 all modules, including billing and word processing, fully integrated full-featured, robust system with scalable pricing superior customer care 	integrated document-management solution for paperless workflow reflex testing for HPV and other molecular tests interfaces to most endoscopy software and major vendors' electronic medical records
*H=U.S. hospitals, IL=independent labs in U.S., C or GP=clinics or group practices in U.S., FI=foreign installations, OS=other sites **other=sales, marketing, administration, and other company functions		

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See accountable and the angle of the angle o	Part 10 of 13	Orchard Software	PathLogix Corp.
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The control of programs intendible and control of programs in the control o	See accompanying article on page 12	000-030-1340 www.orchardson.com	000-434-3000 www.pauliogix.com
Month control of the protect indication () passed on every quotient of 1002-1007 Table of the protect in the protect th	Name of anatomic pathology system	Orchard Pathology	PathLogix
Month control of the protect indication () passed on every quotient of 1002-1007 Table of the protect in the protect th	First ever AP system installation	2006	1988
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Region file of support plansburger care for the operation spot of backed of the backed	No. of user workstations in sites operating system	4–7 (avg., 5)	1–40 (avg., 5)
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Dabbiese and body used greatment of parties	Range in No. of gynecologic cytology cases per year in sites operating syst.	not tracked	1,000-40,000
Dabbiese and body used greatment of parties	Programming language(c)	4D Java C++ HTMI	SOL Vigual Ragic C++
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Source justification proteins 100% Chickey infloration proteins 100% Chickey infloration proteins 100% Authory interviewers and organ weights 100% Authory greatesterments and organ weights 100% Societims beginning and orbitarial 100% Societims be	Features (listed as a percentage of live installs or based on availability)		
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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 McKesson, Misys, IDX, Siemens, Cerner, Dairyland, QuadraMed, Meditech, GE, Experior, others Dragon NaturallySpeaking Nikon, Ventana immunostainers Dragon NaturallySpeaking Nikon, Ventana immunostainers Osurce code? User group? User group? User group? User group? User group? Cost (hardward/software/installation and training/monthly maintenance) Smallest stand-alone system Saupest stand-alone system Incremental cost to add smalest AP configuration Incremental cost to add smalest AP configuration Sustinguishing features (supplied by vendor) *Ha-U.S. hospitals, It_independent labs in U.S., Cor GP=clinics or group practices in U.S., Cor			
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Client contracts supported from data center not operated by client How data center is operated McKesson, Misys, IDX, Siemens, Cerner, Dairyland, QuadraMed, Meditech, GE, Experior, others Dragon NaturallySpeaking Mikon, Ventana immunostainers Dragon NaturallySpeaking Mikon, Ventana immunostainers Source code? User interface in language other than English? Dragon NaturallySpeaking Nikon, Ventana immunostainers Source code? User group? User can modify screens? Cost (fiardware/software/installation and training/monthly maintenance) Samilest stand-alone system Largest stand-alone system Sales price of integrated system, excluding AP configuration Incremental cost to add smallest AP configuration Incremental cost to add largest AP configuration Incremental cost to add largest AP configuration "H=U.S. hospitals, IL=independent labs in U.S., C or GP=clinics or group practices in U.S., File-foreign installations, OS=other sites McKesson, Misys, IDX, Siemens, Cerner, Dairyland, QuadraMed, Meditech, GE, Experior, others Systems interfaced with HLZ products interfaced with HLZ		_	
How data center is operated Other information systems interfaced Other information systems interfaced Voice-recognition products or partners system uses Histology and cytology devices interfaced User interface in language other than English? Source code? User group? User can modify screens? Cost (hardware/software/installation and training/monthly maintenance) Salk/\$50k/\$28k/10% Sales stand-alone system Largest stand-alone system Largest stand-alone system Largest stand-alone system Salk/\$50k/\$28k/10% Szik/\$30k/\$13k/10% Incremental cost to add largest AP configuration Incremental cost to add largest AP configuration Salk/\$50k/\$28k/\$48k/\$10% \$25k/\$85k/\$42k/10% *Intermental cost to add largest AP configuration *Intermental cost to add largest AP configuration \$25k/\$85k/\$42k/10% *Intermental cost to add largest AP configuration *Intermental cost to add largest AP configur		_	•
Other information systems interfaced McKesson, Misys, IDX, Siemens, Cerner, Dairyland, QuadraMed, Meditech, GE, Experior, others Dragon NaturallySpeaking Nikon, Ventana immunostainers Dragon Natu		_	-
Voice-recognition products or partners system uses Histology and cytology devices interfaced Wer interface in language other than English? Source code? User group? User group? User annodify screens? Cost (hardware/software/installation and training/monthly maintenance) Samplest 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 Incremental cost to add smallest AP configuration Incremental cost to add smalles			
Voice-recognition products or partners system uses Histology and cytology devices interfaced Nikon, Ventana immunostainers Nikology opported to accommend to a score of pyse of posture, extensive histology support features, complete cytology module	Other information systems interfaced		systems interfaced with HL7
Histology and cytology devices interfaced User interface in language other than English? no Source code? User group? User can modify screens? Cost (hardware/software/installation and training/monthly maintenance) Saw/\$50k/\$28k/10% Saw/\$50k/\$50.1k Saw/\$5	Voice-recognition products or partners system uses		nroducts interfaced with Microsoft Word
User interface in language other than English? Source code? User group? User can modify screens? Cost (hardware/software/installation and training/monthly maintenance) Smallest stand-alone system Largest stand-alone system Largest stand-alone system Largest stand-alone system Sz6k/\$100k/\$42k/10% Sz5k/\$100k/\$42k/10% Sz5k/\$100k/\$42k/10% Sz5k/\$100k/\$42k/10% Sz5k/\$100k/\$42k/10% Sz5k/\$100k/\$42k/10% Sz5k/\$30k/\$13k/10% Incremental cost to add smallest AP configuration Incremental cost to add largest AP configuration Incremental cost to add largest AP configuration Incremental cost to add largest AP configuration Sz5k/\$85k/\$42k/10% Sz5k/\$			
Source code? User group? User can modify screens? Cost (hardware/software/installation and training/monthly maintenance) Smallest stand-alone system Largest stand-alone system Largest stand-alone system Largest stand-alone system Stand-alone system Stand-alone system Largest stand-alone system St	Hear interface in language other than English?	70	cytology module
User group? User can modify screens? Cost (hardware/software/installation and training/monthly maintenance) Smallest stand-alone system Largest stand-alone system Largest stand-alone system Incremental cost to add smallest AP configuration Incremental cost to add largest AP configuration Incremental cost to add largest AP configuration Incremental cost to add largest AP configuration User group? Wes Sk/\$50k/\$28k/10% Stank/\$30k/\$13k/10% Stank/\$30k/\$1ak/10% Stank/\$30k/\$1ak/10	osor interiace in language outer than English:	IIV	IIV
User can modify screens? Ves yes yes yes yes yes yes yes			_
Cost (hardware/software/installation and training/monthly maintenance) • Smallest stand-alone system • Largest stand-alone system • Sak/\$50k/\$28k/10% • Largest stand-alone system • S25k/\$100k/\$42k/10% • S79k • Incremental cost to add smallest AP configuration • Incremental cost to add largest AP configuration • Incremental cost to add largest AP configuration • Incremental cost to add largest AP configuration • S25k/\$85k/\$42k/10% • fully integrated clinical, molecular, AP, reference lab results via a single database for combining results onto a single patient report • advanced rules-based decision-support technology • advanced rules-based decision-support technology • experts in integration, installation, service, and technical support *H=U.S. hospitals, IL=independent labs in U.S., C or GP=clinics or group practices in U.S., FI=foreign installations, OS=other sites	9 1		
Smallest stand-alone system Largest stand-alone system Stand-alone standals Stand	·		
• 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 Incr	,	¢0L/¢50L/¢90L/100/	(\$2\)(\)(\$0.1\)
Base price of integrated system, excluding AP configuration Incremental cost to add smallest AP configuration Incremental cost to add largest AP configuration Incremental cost to add largest AP configuration Stak/\$30k/\$13k/10% Stak/\$30k/\$13k/10% Stak/\$25k/\$85k/\$42k/10% Fully integrated clinical, molecular, AP, reference lab results via a single database for combining results onto a single patient report advanced rules-based decision-support technology Experts in integration, installation, service, and technical support *H=U.S. hospitals, IL=independent labs in U.S., C or GP=clinics or group practices in U.S., FI=foreign installations, OS=other sites *79k \$3k/\$30k/\$13k/10% *25k/\$85k/\$42k/10% -/\$3k/0/\$0.1k -/\$20k/0/\$0.3k *Internet option with customer report retrieval, online requisitions, others features that help clients with marketing and customer service flexibility and unlimited scalability *flexibility and unlimited scalability	•	· · ·	
 Incremental cost to add smallest AP configuration Incremental cost to add largest AP configuration S3k/\$30k/\$13k/10% Distinguishing features (supplied by vendor) fully integrated clinical, molecular, AP, reference lab results via a single database for combining results onto a single patient report advanced rules-based decision-support technology experts in integration, installation, service, and technical support *H=U.S. hospitals, IL=independent labs in U.S., C or GP=clinics or group practices in U.S., FI=foreign installations, OS=other sites 	Base price of integrated system, excluding AP configuration	\$79k	_
Distinguishing features (supplied by vendor) • fully integrated clinical, molecular, AP, reference lab results via a single database for combining results onto a single patient report • advanced rules-based decision-support technology • experts in integration, installation, service, and technical support *H=U.S. hospitals, IL=independent labs in U.S., C or GP=clinics or group practices in U.S., FI=foreign installations, OS=other sites • flutrinet option with customer report retrieval, online requisitions, others • features that help clients with marketing and customer service • flexibility and unlimited scalability • flexibility and unlimited scalability	Incremental cost to add smallest AP configuration		·
database for combining results onto a single patient report	Incremental cost to add largest AP configuration	Ф 20K/ Ф 00K/ Ф 42K/ IU%	─/ ⇒ ∠UK/U/ ቅ U.3K
 advanced rules-based decision-support technology experts in integration, installation, service, and technical support *H=U.S. hospitals, IL=independent labs in U.S., C or GP=clinics or group practices in U.S., FI=foreign installations, OS=other sites 	Distinguishing features (supplied by vendor)		
• experts in integration, installation, service, and technical support *H=U.S. hospitals, IL=independent labs in U.S., C or GP=clinics or group practices in U.S., FI=foreign installations, OS=other sites		• • • • • • • • • • • • • • • • • • • •	
*H=U.S. hospitals, IL=independent labs in U.S., C or GP=clinics or group practices in U.S., FI=foreign installations, OS=other sites		•••	· IIGAIDININ AND UNINIMINED SCARADININ
C or GP=clinics or group practices in U.S., FI=foreign installations, OS=other sites		, , , , , , , , , , , , , , , , , , ,	
""Outlet=sales, marketing, administration, and other company functions	C or GP=clinics or group practices in U.S., FI=foreign installations, OS=other sites		
Tabulation does not represent an andersement by the College of American Pathologists			

Anato	omic pathology computer sys	tems
Part 11 of 13	PathView Systems Ltd. Michael Mihalik mike@pathview.com 5923 E. FM 455 Anna, TX 75409	Psyche Systems Corp. James Gearheart sales@psychesystems.com 321 Fortune Blvd. Milford, MA 01757
See accompanying article on page 12	800-798-3540 www.pathview.com	800-345-1514 www.windopath.com
Name of anatomic pathology system	Progeny	WindoPath
First ever AP system installation Most recent AP system installation (based on survey deadline of Dec. 2007) No. of contracts for sites operating AP system (H/IL/C or GP/FI/OS)* No. of contracts that went live in 2007 No. of contracts not yet live/No. of these contracts signed in 2007 No. of sites operating AP system Percentage of installations that have stand-alone AP systems Staff to develop-install and support-other** In entire company	1990 April 2006 1 (0/0/1/0/0) 0 1/1 2 100%	1986 December 2007 132 (43/40/5/44 in Italy, Germany, Austria/0) 6 2/2 130 93%
In LIS division (including AP) In AP systems only	2-1-0 2-1-1	15-19-6 9-12-4
No. of user workstations in sites operating system Range in No. of surgical pathology cases per year in sites operating system Range in No. of gynecologic cytology cases per year in sites operating syst.	30 44,000 46,000	1–43 (avg., 10) 1,000–75,000 0–235,000+
Programming language(s) Databases and tools used Word processor(s) used Operating system(s)	InterSystems Caché ObjectScript, Visual Basic InterSystems Caché Microsoft Word 2003 Windows XP, Windows server 2003	Visual Basic, Visual Basic .Net, Small Talk Microsoft SQL server 7.0, 2000, BrioQuery report writing, Rightfax integrated, nonproprietary Windows NT, 95, 98, 2000, XP
Features (listed as a percentage of live installs or based on availability) Surgical pathology information system Cytology information system Autopsy information system Autopsy measurements and organ weights Specimen log-in/specimen tracking and retrieval Entry of block IDs/specimen labels Histology slide labels/bar-coded slide labels Histology worksheets Word processing—vendor specific Voice entry of gross description/back-end batch voice to text Gross and microscopic images integrated in reports Electronic signature Remote printing of completed reports Direct fax reports Web-based remote inquiry of reports Physician Web access for order entry Natural language search capability Multi-site or multi-facility-wide area network Sound-alike retrieval of patient history Tumor registry reports/management reports Reports sufficient to comply with CLIA '88 regulations Comprehensive billing and accounts receivable Interface to external billing system HIS interface: A/D/T HIS interface: result reporting/incoming clinical results Partin tables or Gleason score calculations Synoptic reporting Client services module Consult management and reporting	100% 100% 100% 100%/100% 100%/100% 100%/100% 100%/100% not available installed 100% 100% 100% 100% 100% 100% available in 2008 100% 100% not available 100%/100% not available 100%/100% not available 100% 100% not available 100% 100% not available 100% 100% 100% 100% 100% 100% 100% 100	100% 85% 100% 100% 100%/installed 100%/100% 100%/100% 100% 25% 100% 100% 100% 100% 100% 100% 100% 10
Software provides indexed field in each test definition for LOINC code? Provide LOINC dictionary for each new installation? Routine results encoded in SNOMED (in version earlier than SNOMED CT)?	no yes	yes no escrow
Routine results encoded in SNOMED CT? AP system uses autoencoder to create SNOMED codes? Percentage of installed sites that represent cases in free text	no no 100%	yes (at 8% of sites) yes 92%
No. of installations that use AP system to automatically electronically transfer tumor diagnoses to a tumor registry	1 in nonstandard data feed	5 in NAACCR vol. V ePath standard for e-pathology reporting
Complete AP application service provider solution? 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	no — — — —	yes fixed fee browser based operates over the Internet 9 by vendor
Other information systems interfaced Voice-recognition products or partners system uses Histology and cytology devices interfaced	Epic, proprietary, client-developed LIS Dragon NaturallySpeaking, other products that integrate with Microsoft Word Thermo Shandon cassette labelers, Lanier dictation system, Ventana Benchmark (2008), Cytyc (Hologic) imager (2008)	Psyche Systems, Siemens, McKesson, Meditech, Misys, Cerner, others Dragon NaturallySpeaking CAS analyzer, Ventana Benchmark, Digene HPV, Leica
User interface in language other than English?	no	yes (any language)
Source code? User group? User can modify screens?	escrow no no	yes yes (meets via Internet monthly and in person biannually) 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		\$5k/\$23k/\$12k/\$1k \$50k/\$272k/\$30k/\$8.1k — —
Distinguishing features (supplied by vendor)	pervasive use of bar coding on requisitions, cassettes, and slides allows hands-free processing throughout case workflow comprehensive and extensive specimen tracking ongoing management consultation part of support package	easy to use; customized to fit the lab's specific needs/specialty dynamic customizable reports, both final and statistical analysis, with the ability to define outputs based on physician preferences interfaces to instruments and devices
*H=U.S. hospitals, IL=independent labs in U.S., C or GP=clinics or group practices in U.S., FI=foreign installations, OS=other sites **other=sales, marketing, administration, and other company functions		

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Part 12 of 13	SCC Soft Computer Ellie Vahman ellie@softcomputer.com 5400 Tech Data Drive	Small Business Computers of New England Gene Calvano gene_calvano@sbcne.com 25 Lowell St., Suite 401
See accompanying article on page 12	Clearwater, FL 33760 727-789-0100 www.softcomputer.com	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 Most recent AP system installation (based on survey deadline of Dec. 2007) No. of contracts for sites operating AP system (H/IL/C or GP/FI/OS)* • No. of contracts that went live in 2007 • No. of contracts not yet live/No. of these contracts signed in 2007 No. of sites operating AP system Percentage of installations that have stand-alone AP systems Staff to develop-install and support-other**	1993 October 2007 154 (132/9/4/9 in Canada/0) 13 10/7 236 2%	1989 December 2007 255 (44/173/32/6 in Canada, Ireland, New Zealand, others/0) 21 2/2 255 100%
In entire company In LIS division (including AP) In AP systems only	725-304-224 517-242-212 119-54-49	2-4-1 2-4-1 2-4-1
No. of user workstations in sites operating system Range in No. of surgical pathology cases per year in sites operating system Range in No. of gynecologic cytology cases per year in sites operating syst.	3–100 (avg., 15) 1,000–85,000 25–125,000	1–53 (avg., 8) 1,000–50,000 2,000–75,000
Programming language(s) Databases and tools used Word processor(s) used Operating system(s)	C, C++, .Net, Java Oracle, XML, SQL Microsoft Word, Rich Text Editor, Text Control (synoptic) server: IBM AIX (Unix); clients: Windows 2000 XP, Vista	FileMaker Pro FileMaker Pro integrated with FileMaker Pro Windows 2000, XP
Features (listed as a percentage of live installs or based on availability) Surgical pathology information system Cytology information system Autopsy information system Autopsy measurements and organ weights Specimen log-in/specimen tracking and retrieval Entry of block IDs/specimen labels Histology slide labels/bar-coded slide labels Histology worksheets Word processing—vendor specific Voice entry of gross description/back-end batch voice to text Gross and microscopic images integrated in reports Electronic signature Remote printing of completed reports Direct fax reports Web-based remote inquiry of reports Physician Web access for order entry Natural language search capability Multi-site or multi-facility-wide area network Sound-alike retrieval of patient history Tumor registry reports/management reports Reports sufficient to comply with CLIA '88 regulations Comprehensive billing and accounts receivable Interface to external billing system HIS interface: A/D/T HIS interface: result reporting/incoming clinical results Partin tables or Gleason score calculations Synoptic reporting Client services module Consult management and reporting	100% 100% 100% installed 100%/installed 100%/100% 100%/installed 100% 100% installed installed installed installed 100% 100% 5% available but not installed 100% 55% 100% 100% 55% available hut not installed 100% 55% 100% 60% 95% 85%/15% available in June 2008 installed installed installed installed	100% 100% installed installed 100%/100% 100%/100% 100%/installed 100% not available installed 100% installed 100% installed installed 20% 2% 100% installed 100% 15% 85% 5% 30%/available but not installed installed installed installed installed installed installed
Software provides indexed field in each test definition for LOINC code? Provide LOINC dictionary for each new installation?	no no	no no
Routine results encoded in SNOMED (in version earlier than SNOMED CT)? Routine results encoded in SNOMED CT? AP system uses autoencoder to create SNOMED codes? Percentage of installed sites that represent cases in free text	yes (at 10% of sites) yes (at 40% of sites) yes 60%	no no no 100%
No. of installations that use AP system to automatically electronically transfer tumor diagnoses to a tumor registry	NAACCR vol. V ePath standard for e-pathology reporting available but not installed/4 in delimited format coded for Fla., NY, NH state requirements	32 in NAACCR vol. V ePath standard for e-pathology reporting
Complete AP application service provider solution? 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	yes — requires software be installed on a client PC requires use of a private, dedicated circuit 1 by vendor	no
Other information systems interfaced Voice-recognition products or partners system uses Histology and cytology devices interfaced User interface in language other than English?	Cerner, Siemens, McKesson, IDX, QuadraMed, Eclipsys, Keane, SCC Soft Computer, CPSI, others Web services (XML) based interfacing designed for voice-recognition and dictation systems [†] cassette markers/writers, slide labelers, immunostainers yes (French)	Misys, CPSI, Medisys, A4, eClinicalWorks, Cerner, Orchard, others Windows packages supporting FileMaker Pro slide labelers, cassette markers no
Source code? User group? User can modify screens?	escrow yes (meets in person annually) yes	yes no no
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	\$30k/\$30k/\$50k/\$0.45k \$100k/\$500k/\$75k/\$9k \$250k \$15k/\$30k/\$40k/\$0.45k \$100k/\$375k/\$78k/\$6.75k	\$1k/\$3k/0/0 \$60k/\$27k/\$3k/\$0.25k n/a —
*H=U.S. hospitals, IL=independent labs in U.S., C or GP=clinics or group practices in U.S., FI=foreign installations, OS=other sites **other=sales, marketing, administration, and other company functions	 full integration with SoftLab LIS suite, including cytogenetics, molecular, flow cytometry, HLA available integrated Web-based module (SoftWeb) for remote ordering/requisitions, results/report viewing, printing powerful features for high-volume laboratories—online alerts, full system audits, multisite billing †operates without interface with Dragon NaturallySpeaking installed at the workstation 	customized solution with ongoing customized support low-cost solution for start-up, small, and medium-sized labs results reporting by Internet portal, faxing reports, and custom lab interfaces to various EMR client software systems
,,,, and anior company furnations	sthelesists	

Part 13 of 13	Sunquest Information Systems Sylvia Rothrock sales@sunquestinfo.com 250 S. Williams Blvd.	WebPathLab Peter Williams peter@webpathlab.com 1004 River Rock Drive, Suite 240
See accompanying article on page 12	Tucson, AZ 85711 800-748-0692 www.sunquestinfo.com	Folsom, CA 95630 916-404-1840 www.webpathlab.com
Name of anatomic pathology system	Sunquest CoPathPlus	WebPathLab
First ever AP system installation Most recent AP system installation (based on survey deadline of Dec. 2007) No. of contracts for sites operating AP system (H/IL/C or GP/FI/OS)* No. of contracts that went live in 2007 No. of contracts not yet live/No. of these contracts signed in 2007 No. of sites operating AP system Percentage of installations that have stand-alone AP systems Staff to develop-install and support-other** In entire company In LIS division (including AP) In AP systems only	1982 2007 290 11 9/9 500+ 1% 380-250-90 365-240-90	2000 November 2007 7 (1/6/0/0/0) 3 0 11 100% 6-3-3 6-3-3 6-3-3
No. of user workstations in sites operating system Range in No. of surgical pathology cases per year in sites operating system Range in No. of gynecologic cytology cases per year in sites operating syst.	5–280 (avg., 40) 10,000–600,000 10,000–600,000	8–50 2,500–18,000
Programming language(s) Databases and tools used Word processor(s) used Operating system(s)	C, Visual Basic, Powerbuilder Sybase, Powerbuilder Microsoft Word 2003 servers: AIX, Windows 2003; client: Windows XP, 2000	ASP .Net 2.0, AJAX, XML MySQL database integrated into Web-based solution–Native; requires Internet Explorer Web browser Windows server 2003
Features (listed as a percentage of live installs or based on availability) Surgical pathology information system Cytology information system Autopsy information system Autopsy measurements and organ weights Specimen log-in/specimen tracking and retrieval Entry of block IDs/specimen labels Histology slide labels/bar-coded slide labels Histology worksheets Word processing—vendor specific Voice entry of gross description/back-end batch voice to text Gross and microscopic images integrated in reports Electronic signature Remote printing of completed reports Direct fax reports Web-based remote inquiry of reports Physician Web access for order entry Natural language search capability Multi-site or multi-facility-wide area network Sound-alike retrieval of patient history Tumor registry reports/management reports Reports sufficient to comply with CLIA '88 regulations Comprehensive billing and accounts receivable Interface to external billing system HIS interface: A/D/T HIS interface: result reporting/incoming clinical results Partin tables or Gleason score calculations Synoptic reporting Client services module Consult management and reporting	100% 90% 100% 100% 100%/100% 100%/100% 100%/80% installed 100% 20% 30% 100% installed 95% installed 100% 35% installed 100% 35% not available 95%/100% 100% installed 95%/90%/installed	100% expected to be operating in 43% of sites by February 2008 available but not installed 100%/100% 50%/75% 100%/available but not installed 100% 100% not available 100% 100% 100% 100% 100% 100% 100% 100
Software provides indexed field in each test definition for LOINC code? Provide LOINC dictionary for each new installation? Routine results encoded in SNOMED (in version earlier than SNOMED CT)?	no no yes (at 80% of sites)	no no
Routine results encoded in SNOMED CT? AP system uses autoencoder to create SNOMED codes? Percentage of installed sites that represent cases in free text	no yes 20%	no no —
No. of installations that use AP system to automatically electronically transfer tumor diagnoses to a tumor registry	NAACCR vol. V ePath standard for e-pathology reporting available/12 in older NAACCR standard (volume II)	6 in older NAACCR standard (Florida Cancer Data System, Texas Tumor Registry)
Complete AP application service provider solution? 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	no 	yes fixed fee browser based operates over the Internet — by vendor
Other information systems interfaced Voice-recognition products or partners system uses Histology and cytology devices interfaced User interface in language other than English?	Epic, McKesson, Cerner, Siemens, GE, others Nuance Dragon NaturallySpeaking cassette and slide engravers, Ventana stainers, Apollo PathPACS imaging fields can be customized	Meditech, EpicCare, Opus none none yes (Spanish, German, Chinese)
Source code? User group?	escrow yes (meets in person annually, with quarterly regional meetings, and via Internet as set by region)	escrow no
User can modify screens? 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		0/\$18k/0/\$0.25k per pathologist 0/\$70k/0/\$0.25k per pathologist 0 0/—/0/\$0.25k per pathologist 0/—/0/\$0.25k per pathologist
*H=U.S. hospitals, IL=independent labs in U.S., C or GP=clinics or group practices in U.S., FI=foreign installations, OS=other sites **other=sales, marketing, administration, and other company functions	outstanding support, usability, and client satisfaction integration with Sunquest LIS; flexibility for all disciplines enhanced structured reporting module and imaging	100% Web based; provides universally secure access and increased efficiency 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 complete integrated billing solution reduces billing cycle to as low as seven days and maximizes cash flow