

Part 1 of 7	Clinisys Amber Kazansky amber.kazansky@clinisys.com Tucson, AZ 520-570-2261 www.clinisys.com	Clinisys Amber Kazansky amber.kazansky@clinisys.com Tucson, AZ 520-570-2261 www.clinisys.com	Comp Pro Med Megan Zelenak megan@comppromed.com Santa Rosa, CA 707-890-6589 www.comppromed.com
Name of anatomic pathology system	Clinisys CoPathPlus [†]	Clinisys PowerPath [†]	Polytech for Pathology
How AP system functionality is deployed	available as local server/software and an ASP	available as local server/software, ASP, and cloud-based	available as local server/software, ASP, and cloud-based
Configuration of AP system	available as a standalone product designed to interface with any company's LIS and EHR	available as a standalone product designed to interface with any company's LIS and EHR	available as a dedicated module for Comp Pro Med's clinical LIS and as a standalone product designed to interface with any company's LIS and EHR
Year company began selling AP systems (any brand or model)	1982, as Sunquest	1982, as Sunquest (Sunquest began selling PowerPath in 2011)	2022 (began selling Polytech for Pathology in 2022)
Most recent installation of this AP system*	November 2019	August 2022	—
Last product release or update for featured AP system*	March 2022 (version 8.0)	March 2022 (version 13.0)	March 2022 (version 8.6.5)
Total No. of contracts for sites operating AP system	129	123	1
No. of sales and sites that went live on system between Dec. 2021–Nov. 2022	—	—	1 sale/1 site went live
No. of sites operating AP system (hospitals/independent labs/clinics or group practices/other U.S. sites/foreign sites)	119 (90/18/2/0/9)	123 (90/24/4/1—specialty start-up/4—health organizations)	1 (0/0/0/0/1—countrywide reference laboratory)
Foreign locations where company actively markets AP system	Canada (installed in UK, Ireland, Canada, Bermuda, Bahamas, Saudi Arabia, United Arab Emirates)	Canada (installed in Canada, Australia)	Philippines, Africa, Bhutan, Canada, Caribbean, Ethiopia
Human languages (other than English) supported by AP system	—	—	any supported by Windows operating system
Approximate No. of employees in entire company	1,400+	1,400+	9
Company provides list of client sites to potential customers on request	yes (partial list of comparable sites with no restrictions)	yes (partial list of comparable sites with no restrictions)	no (information is confidential)
Clients restricted from sharing their experience with company or software	no	no	no
Range in No. of surgical pathology cases per year in installed sites	700–500,000	1,500–480,000	1–100
Range in No. of gynecologic cytology cases per year in installed sites	0–600,000	5,000–350,000	0
Programming languages and development applications or environments	C++, Visual Basic, PowerBuilder	C#, .Net, Delphi	C++, PHP, HTML, JavaScript
Operating systems	Microsoft Windows, Linux, AIX	Microsoft Windows	Microsoft Windows
Databases	Sybase, Microsoft SQL server	Microsoft SQL server	MySQL
Features/modules incorporated in product:			
• Surgical pathology information system/Cytology information system	installed at client sites/installed at client sites	installed at client sites/installed at client sites	installed at client sites/available but not installed
• Autopsy information system/Autopsy measurements, organ weights	installed at client sites/installed at client sites	installed at client sites/installed at client sites	available but not installed/available but not installed
• Molecular pathology testing and reporting	available via Clinisys Laboratory Platform	available via Clinisys Laboratory Platform	installed at client sites
• Scan and store manual requisitions	installed at client sites	installed at client sites	installed at client sites
• Specimen tracking/Specimen storage and retrieval	installed at client sites/installed at client sites	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• Entry of block IDs	installed at client sites	installed at client sites	available but not installed
• Print linear barcodes/Print two-dimensional barcodes	installed at client sites/installed at client sites	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• Print histology worksheets	installed at client sites	installed at client sites	installed at client sites
• Word processing with pathology templates	installed at client sites	installed at client sites	installed at client sites
• Voice entry of gross description/Voice entry of final diagnosis	installed at client sites/installed at client sites	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• Gross images integrated in reports/Microscopic images integrated in reports	installed at client sites/installed at client sites	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• Remote microscopy	not available for this software	not available for this software	available but not installed
• Electronic signature	installed at client sites	installed at client sites	available but not installed
• Remote printing of completed reports	installed at client sites	installed at client sites	installed at client sites
• Automatically fax reports to clients without manual intervention	installed at client sites	installed at client sites	installed at client sites
• Web-based remote inquiry of reports	available via Clinisys physician portal for AP	available via Clinisys physician portal for AP	available but not installed
• Physician Web access for order entry	available via Clinisys physician portal for AP	available via Clinisys physician portal for AP	available but not installed
• Natural language search capability	installed at client sites	installed at client sites	available but not installed
• Sound-alike (e.g. Soundex) retrieval of patient history	installed at client sites	installed at client sites	available but not installed
• Produce tumor board reports/Produce management reports	installed at client sites/installed at client sites	installed at client sites/installed at client sites	available but not installed/available but not installed
• Reports sufficient to comply with CLIA '88 regulations	installed at client sites	installed at client sites	available but not installed
• Automatically collect and record PC and TC charges for billing	installed at client sites	installed at client sites	installed at client sites
• Comprehensive billing and accounts receivable	installed at client sites	installed at client sites	under development
• Interface to billing company that produces bills and invoices, follows up for payment	installed at client sites	installed at client sites	installed at client sites
• Inbound result-reporting interface to receive discrete results from an external lab and store them in patient record	installed at client sites	installed at client sites	available but not installed
• EHR interface: admissions/discharge/transfer (ADT)	installed at client sites	installed at client sites	available but not installed
• EHR interface: result reporting/Report sent to EHR as PDF for clinician	installed at client sites/installed at client sites	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• EHR interface: incoming clinical results	installed at client sites	installed at client sites	available but not installed
• Partin tables/Gleason score calculations	available via a third party/available via a third party	installed at client sites/installed at client sites	available but not installed/available but not installed
• Synoptic reporting for microscopic examination/For gross examination	available via a third party/available via a third party	installed at client sites/installed at client sites	available but not installed/available but not installed
• CAP electronic cancer checklists automatically embedded	available via a third party	installed at client sites	under development
• Client services module/Consultation management and reporting	not available for this software/installed at client sites	not available for this software/installed at client sites	not available for this software (both features)
• LIS manager or lab employee can create ad hoc reports accessing all data elements in AP system	installed at client sites	installed at client sites	installed at client sites
• LIS manager or lab employee can determine schedule under which management and patient reports are automatically compiled and run	installed at client sites	installed at client sites	available but not installed
• Business analytics/Management dashboard	available via Clinisys Analytics (both features)	available via Clinisys Analytics (both features)	available but not installed/under development
• Telepathology	not available for this software	not available for this software	available but not installed
Percentage of sites using result-reporting interfaces to external systems based on transmission of fully formatted (e.g. PDF or CDA) results	48%	38%	100%
Software provides indexed field in each test definition for LOINC code	no	yes	yes (provide current LOINC dictionary with install)
AP system supports use of SNOMED CT	yes (for some types of cases)	yes (for all cases)	yes (for all cases)
System can auto-send tumor diagnoses to regional or state tumor registry using NAACCR Pathology Lab Electronic Reporting, vol. V, version 4.0	yes (pathologist can also set a flag for "send this case to tumor registry" on any case record)	yes (pathologist can also set a flag for "send this case to tumor registry" on any case record)	yes (pathologist can also set a flag for "send this case to tumor registry" on any case record)
Company uses third-party middleware for AP system-instrument interfaces	combination of direct interfaces and third-party systems (Data Innovations for molecular instrument interfaces)	combination of direct interfaces and third-party systems (Data Innovations)	no (interface directly)
Other IT vendors/lab systems to which AP system bidirectionally interfaces	Epic, McKesson, Cerner, Siemens, GE Healthcare, QuadraMed, Allscripts, Meditech, others	Allscripts, Cerner, Epic, GE Healthcare, McKesson, Meditech, Siemens, 4medica, others	— (can interface to HL7-compliant systems)
Voice-recognition products or partners that system uses	Nuance Dragon, Voicebrook, M*Modal	Nuance Dragon, Voicebrook, M*Modal	Nuance Dragon Dictate/Speak
Digital pathology or WSI systems that interface to AP system	Roche, Leica, Philips, Inspirata; some functionality built into AP system	Roche, Leica, Philips; some functionality built into AP system	none (some functionality built into AP system)
Client gets copy of source code/User group that meets on a set schedule	optional/yes (in person and via webinar)	optional/yes (in person and via webinar)	no/no
Qualified users or third parties can modify or augment AP system functionality or features	no (all modifications made by vendor)	no (all modifications made by vendor)	yes (client users)
Methods by which users can tailor AP system in their own setting	ad hoc query tools, user-defined interfaces, dictionary settings, field window painting, client-defined, rules-based workflows around AP processes and reflexes	ad hoc query tools, user-defined interfaces, dictionary settings, rules-based workflows around AP processes and reflexes, customizable Crystal Reports	ad hoc query tools, user-defined interfaces, dictionary settings, read/write privileges, system outputs
Distinguishing product features (supplied by company)	<ul style="list-style-type: none"> procedures for integrating molecular/genetics results into patient reports to improve care comprehensive specimen-management for safety and efficiency 	<ul style="list-style-type: none"> integrated AP/molecular report to enhance outcomes and improve care coordination Case Finder: robust, user-friendly ad hoc query tool 	<ul style="list-style-type: none"> all system outputs are user-configurable using sophisticated built-in tools real-time rules-driven, user-defined, content-based functionality
*based on December 2022 survey deadline Note: a dash as an answer means company did not answer question or question is not applicable	[†] formerly Sunquest CoPathPlus	[†] formerly Sunquest PowerPath	

Part 2 of 7	CompuGroup Medical Mike Henningsen michael.henningsen@cgm.com Owings Mills, MD 800-647-2263 www.cgm.com/us	Computer Trust Corp. David Liberman, MD drdave@ctcsurge.com Boston, MA 617-557-9264 ext. 600 www.winsurge.com	Cortex Medical Management Systems Carrie Cohen ccohen@cortexmed.com Seattle, WA 206-812-6981 www.cortexmed.com
Name of anatomic pathology system	CGM AP EASY [†]	WinSURGE	Cortex AP LIS
How AP system functionality is deployed	available as a cloud-based offering	available as local server/software and cloud based	available as local server/software, ASP, and cloud based
Configuration of AP system	available as a standalone product designed to interface with any company's LIS and EHR	available as a standalone product designed to interface with any company's LIS and EHR	available as a standalone product designed to interface with any company's LIS
Year company began selling AP systems (any brand or model)	2022, with acquisition of AP Easy Software Solutions (began selling CGM AP EASY in 2022)	1989 (began selling WinSURGE in 1989)	1986 (began selling Cortex AP LIS in 2004)
Most recent installation of this AP system*	November 2022	November 2022	December 2022
Last product release or update for featured AP system*	—	November 2022 (version 57.8 server; 60.1 client)	October 2022 (version V10.2R17)
Total No. of contracts for sites operating AP system	695	109	59
No. of sales and sites that went live on system between Dec. 2021–Nov. 2022	24 sales/21 sites went live	2 sales/2 sites went live	2 sales/1 site went live
No. of sites operating AP system (hospitals/independent labs/clinics or group practices/other U.S. sites/foreign sites)	—	135 (36/68/— [†] /31—multi-site enterprise/0 [sites in Puerto Rico combined with U.S. sites])	59
Foreign locations where company actively markets AP system	none	Puerto Rico	none
Human languages (other than English) supported by AP system	—	—	—
Approximate No. of employees in entire company	1,900	—	12
Company provides list of client sites to potential customers on request	yes (partial list of comparable sites with no restrictions)	yes (partial list of comparable sites with no restrictions)	yes (with client approval)
Clients restricted from sharing their experience with company or software	no	no	no
Range in No. of surgical pathology cases per year in installed sites	100–180,000	2,500–1,500,000	2,500–300,000
Range in No. of gynecologic cytology cases per year in installed sites	1,000–150,000	0–300,000	4,000–500,000
Programming languages and development applications or environments	Java, Apache Groovy, Spring, JavaScript	Caché, .Net, Visual Basic	.Net, Web
Operating systems	Microsoft Windows	Microsoft Windows, Unix	—
Databases	MySQL	Object Caché, SQL	Microsoft SQL
Features/modules incorporated in product:			
• Surgical pathology information system/Cytology information system	installed at client sites/installed at client sites	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• Autopsy information system/Autopsy measurements, organ weights	not available for this software (both features)	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• Molecular pathology testing and reporting	installed at client sites	installed at client sites	installed at client sites
• Scan and store manual requisitions	installed at client sites	installed at client sites	installed at client sites
• Specimen tracking/Specimen storage and retrieval	installed at client sites/installed at client sites	installed at client sites/installed at client sites	installed at client sites/—
• Entry of block IDs	installed at client sites	installed at client sites	installed at client sites
• Print linear barcodes/Print two-dimensional barcodes	installed at client sites/installed at client sites	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• Print histology worksheets	installed at client sites	installed at client sites	installed at client sites
• Word processing with pathology templates	installed at client sites	installed at client sites	installed at client sites
• Voice entry of gross description/Voice entry of final diagnosis	installed at client sites/installed at client sites	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• Gross images integrated in reports/Microscopic images integrated in reports	installed at client sites/installed at client sites	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• Remote microscopy	under development	installed at client sites	—
• Electronic signature	installed at client sites	installed at client sites	installed at client sites
• Remote printing of completed reports	installed at client sites	installed at client sites	installed at client sites
• Automatically fax reports to clients without manual intervention	installed at client sites	installed at client sites	installed at client sites
• Web-based remote inquiry of reports	installed at client sites	installed at client sites	installed at client sites
• Physician Web access for order entry	installed at client sites	installed at client sites	—
• Natural language search capability	in testing	installed at client sites	installed at client sites
• Sound-alike (e.g. Soundex) retrieval of patient history	not available for this software	installed at client sites	—
• Produce tumor board reports/Produce management reports	installed at client sites/installed at client sites	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• Reports sufficient to comply with CLIA '88 regulations	installed at client sites	installed at client sites	installed at client sites
• Automatically collect and record PC and TC charges for billing	installed at client sites	installed at client sites	installed at client sites
• Comprehensive billing and accounts receivable	installed at client sites	installed at client sites	installed at client sites
• Interface to billing company that produces bills and invoices, follows up for payment	installed at client sites	installed at client sites	installed at client sites
• Inbound result-reporting interface to receive discrete results from an external lab and store them in patient record	installed at client sites	installed at client sites	installed at client sites
• EHR interface: admissions/discharge/transfer (ADT)	installed at client sites	installed at client sites	installed at client sites
• EHR interface: result reporting/Report sent to EHR as PDF for clinician	installed at client sites/installed at client sites	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• EHR interface: incoming clinical results	installed at client sites	installed at client sites	installed at client sites
• Partin tables/Gleason score calculations	installed at client sites/installed at client sites	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• Synoptic reporting for microscopic examination/For gross examination	available via CAP templates (both features)	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• CAP electronic cancer checklists automatically embedded	installed at client sites	installed at client sites	installed at client sites
• Client services module/Consultation management and reporting	installed at client sites/installed at client sites	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• LIS manager or lab employee can create ad hoc reports accessing all data elements in AP system	installed at client sites	installed at client sites	installed at client sites
• LIS manager or lab employee can determine schedule under which management and patient reports are automatically compiled and run	installed at client sites	installed at client sites	installed at client sites
• Business analytics/Management dashboard	installed at client sites/installed at client sites	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• Telepathology	installed at client sites	installed at client sites	—
Percentage of sites using result-reporting interfaces to external systems based on transmission of fully formatted (e.g. PDF or CDA) results	60–65%	90%	99%
Software provides indexed field in each test definition for LOINC code	no	yes	no
AP system supports use of SNOMED CT	no	yes (for all cases)	—
System can auto. send tumor diagnoses to regional or state tumor registry using NAACCR Pathology Lab Electronic Reporting, vol. V, version 4.0	yes (pathologist can also set a flag for "send this case to tumor registry" on any case record)	yes (pathologist can also set a flag for "send this case to tumor registry" on any case record)	yes (pathologist can also set a flag for "send this case to tumor registry" on any case record)
Company uses third-party middleware for AP system-instrument interfaces	yes, for all instrument interfaces (MD Controller from Neora Health)	combination of direct interfaces and third-party systems (client's choice; Agillaire, AIE, Cloverleaf, Orchard Copia, Ellkay)	combination of direct interfaces and third-party systems
Other IT vendors/lab systems to which AP system bidirectionally interfaces	CPSI, Xifin, Epic, GE Healthcare, Ellkay, Meditech, eClinicalWorks, Greenway, Allscripts, others	Epic, Oracle Cerner, McKesson, Meditech, Allscripts, VitalAxis	Meditech, Epic, Oracle Cerner, Halfpenny, Orchard, others
Voice-recognition products or partners that system uses	Nuance Dragon, Dolbey, Amazon Web Services Transcribe	Nuance Dragon Naturally Speaking Professional, others	Nuance Dragon, Voicebrook, Dolbey, others
Digital pathology or WSI systems that interface to AP system	none	Leica Aperio; some functionality built into AP system	none
Client gets copy of source code/User group that meets on a set schedule	no/no	escrow/no	escrow/yes (in person, via webinar, and via conference call)
Qualified users or third parties can modify or augment AP system functionality or features	no (all modifications made by vendor)	yes (client users)	no (all modifications made by vendor)
Methods by which users can tailor AP system in their own setting	ad hoc query tools, user- and lab-specific configurable preferences	ad hoc query tools, user-defined interfaces, dictionary settings, read/write privileges, WinsRULES rules-based engine, WinsALERT executive dashboard, others	—
Distinguishing product features (supplied by company)	• easy to use, easy to implement, cloud based, and affordable • easy access to customer support by phone, email, and ticketing system	• powerful and configurable functionality, flexibility, and customer service • comprehensive tracking, interfaces, rules, and alerts; paperless workflow	• Cortex Workbench customizes and defines any type of lab work with barcode-driven workflows • add-on order and special stain module
*based on December 2022 survey deadline Note: a dash as an answer means company did not answer question or question is not applicable	†formerly AP EASY by AP Easy Software Solutions	†included with independent lab sites	

All information is supplied by the companies listed. The tabulation does not represent an endorsement by the CAP.

Part 3 of 7	Epic Nick Trentadue ntrentad@epic.com Verona, WI 608-271-9000 www.epic.com	GPI USA Craig Mead craig.mead@gpiusa.com Houston, TX 866-996-8388 www.gpiusa.com/pathoxweb-suite	LabWare Sarah Jones sjones@labware.com Wilmington, DE 302-658-8444 www.labware.com
Name of anatomic pathology system	Beaker	Pathox Web [†]	LabWare
How AP system functionality is deployed	available as local server/software, ASP, and cloud based	available as local server/software, ASP, and cloud based	available as local server/software and an ASP
Configuration of AP system	available as a standalone product designed to interface with any company's LIS and EHR	available as a dedicated module for GPI USA's EHR and as a standalone product designed to interface with any company's LIS and select vendors' EHRs	available as a standalone product designed to interface with any company's LIS and EHR
Year company began selling AP systems (any brand or model)	2011 (began selling Beaker in 2011)	2008 (began selling Pathox Web in 2020)	2013 (began selling LabWare in 2013)
Most recent installation of this AP system*	November 2022	October 2022	June 2022
Last product release or update for featured AP system*	November 2022 (version November 2022)	September 2022 (version 1.1.0)	November 2021 (version 8F)
Total No. of contracts for sites operating AP system	242	61	19
No. of sales and sites that went live on system between Dec. 2021–Nov. 2022	35 sales/35 sites went live	2 sales/2 sites went live	3 sales/5 sites went live
No. of sites operating AP system (hospitals/independent labs/clinics or group practices/other U.S. sites/foreign sites)	not tracked	61 (0/0/0/61—hospitals, independent labs, clinic/group practice)	22 (0/5/0/17)
Foreign locations where company actively markets AP system	UK, Northern Ireland, Norway, Denmark, Finland, Netherlands, Saudi Arabia, Australia, UAE, others (installed in UK, Norway, Belgium, Canada, Singapore, others)	Italy, Spain, Georgia, Mexico, Brazil, Colombia, Peru, Bolivia (installed in Italy, Spain, Georgia, Mexico, Brazil, Colombia, Bolivia)	worldwide (installed in Kenya, Germany, New Zealand, Australia, UK, Mexico, Hong Kong, Nigeria, Denmark, Colombia, Switzerland, Singapore)
Human languages (other than English) supported by AP system	Norwegian, French, German, Dutch	Italian, Spanish, Portuguese, Cyrillic	German, Spanish, Swedish, Chinese, Norwegian, Japanese, Portuguese, Russian, Hebrew, Italian, French
Approximate No. of employees in entire company	12,645	250	760
Company provides list of client sites to potential customers on request	yes (complete list with no restrictions)	yes (complete list with no restrictions)	yes (complete list with no restrictions)
Clients restricted from sharing their experience with company or software	no	no	no
Range in No. of surgical pathology cases per year in installed sites	250–730,000	1,000–80,000	1,000–100,000
Range in No. of gynecologic cytology cases per year in installed sites	—	1,000–100,000	0–4,500
Programming languages and development applications or environments	Visual Basic, Caché, C#, .Net, JavaScript	Angular 12, .Net 6	Java, .Net, Smalltalk
Operating systems	AIX, Linux	Microsoft Windows, Linux using third-party solution for IMS	Microsoft Windows
Databases	Chronicles, InterSystems Iris, SQL	PostgreSQL, SQL server, Oracle	Oracle, SQL server, PostgreSQL
Features/modules incorporated in product:			
• Surgical pathology information system/Cytology information system	installed at client sites/installed at client sites	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• Autopsy information system/Autopsy measurements, organ weights	installed at client sites/installed at client sites	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• Molecular pathology testing and reporting	installed at client sites	installed at client sites	installed at client sites
• Scan and store manual requisitions	installed at client sites	installed at client sites	installed at client sites
• Specimen tracking/Specimen storage and retrieval	installed at client sites/installed at client sites	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• Entry of block IDs	installed at client sites	installed at client sites	installed at client sites
• Print linear barcodes/Print two-dimensional barcodes	installed at client sites/installed at client sites	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• Print histology worksheets	installed at client sites	installed at client sites	installed at client sites
• Word processing with pathology templates	installed at client sites	installed at client sites	installed at client sites
• Voice entry of gross description/Voice entry of final diagnosis	installed at client sites/installed at client sites	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• Gross images integrated in reports/Microscopic images integrated in reports	installed at client sites/installed at client sites	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• Remote microscopy	installed at client sites	installed at client sites	available but not installed
• Electronic signature	installed at client sites	installed at client sites	installed at client sites
• Remote printing of completed reports	installed at client sites	installed at client sites	installed at client sites
• Automatically fax reports to clients without manual intervention	installed at client sites	not available for this software	installed at client sites
• Web-based remote inquiry of reports	installed at client sites	installed at client sites	installed at client sites
• Physician Web access for order entry	installed at client sites	installed at client sites	installed at client sites
• Natural language search capability	in testing	installed at client sites	installed at client sites
• Sound-alike (e.g. Soundex) retrieval of patient history	installed at client sites	installed at client sites	installed at client sites
• Produce tumor board reports/Produce management reports	installed at client sites/installed at client sites	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• Reports sufficient to comply with CLIA '88 regulations	installed at client sites	under development	installed at client sites
• Automatically collect and record PC and TC charges for billing	installed at client sites	installed at client sites	installed at client sites
• Comprehensive billing and accounts receivable	installed at client sites	available via a third party	not available for this software
• Interface to billing company that produces bills and invoices, follows up for payment	installed at client sites	installed at client sites	installed at client sites
• Inbound result-reporting interface to receive discrete results from an external lab and store them in patient record	installed at client sites	installed at client sites	installed at client sites
• EHR interface: admissions/discharge/transfer (ADT)	installed at client sites	installed at client sites	installed at client sites
• EHR interface: result reporting/Report sent to EHR as PDF for clinician	installed at client sites/installed at client sites	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• EHR interface: incoming clinical results	installed at client sites	installed at client sites	installed at client sites
• Partin tables/Gleason score calculations	under development/installed at client sites	in testing/in testing	installed at client sites/installed at client sites
• Synoptic reporting for microscopic examination/For gross examination	installed at client sites/installed at client sites	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• CAP electronic cancer checklists automatically embedded	installed at client sites	under development	installed at client sites
• Client services module/Consultation management and reporting	installed at client sites/installed at client sites	under development/installed at client sites	installed at client sites/installed at client sites
• LIS manager or lab employee can create ad hoc reports accessing all data elements in AP system	installed at client sites	installed at client sites	installed at client sites
• LIS manager or lab employee can determine schedule under which management and patient reports are automatically compiled and run	installed at client sites	under development	installed at client sites
• Business analytics/Management dashboard	installed at client sites/installed at client sites	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• Telepathology	installed at client sites	installed at client sites	available but not installed
Percentage of sites using result-reporting interfaces to external systems based on transmission of fully formatted (e.g. PDF or CDA) results	100%	70%	30%
Software provides indexed field in each test definition for LOINC code	yes (provide current LOINC dictionary with install)	yes	yes
AP system supports use of SNOMED CT	yes (for all cases)	yes (for all cases)	yes (for all cases)
System can auto. send tumor diagnoses to regional or state tumor registry using NAACCR Pathology Lab Electronic Reporting, vol. V, version 4.0	yes (pathologist can also set a flag for "send this case to tumor registry" on any case record)	capability planned for future but not in development	yes (pathologist can also set a flag for "send this case to tumor registry" on any case record)
Company uses third-party middleware for AP system-instrument interfaces	combination of direct interfaces and third-party systems (Data Innovations)	no (interface directly)	no (interface directly)
Other IT vendors/labs/systems to which AP system bidirectionally interfaces	Oracle Cerner, SCC Soft Computer, Clinisys, Haemonetics, Orchard, Lifepoint, Atlas, WellSky	Dedalus Armonia	Meditech, Oracle Cerner, SCC Soft Computer, Epic, Thermo-Watson, others
Voice-recognition products or partners that system uses	Nuance, M*Modal, Voicebrook	Nuance, Voisis, Exprivia	Nuance Dragon NaturallySpeaking, Google
Digital pathology or WSI systems that interface to AP system	Leica, Inspirata, Corista, Philips, Sectra; some functionality built into AP system	Leica, 3DHitech, Hamamatsu, Roche, Philips; some functionality built into AP system	Aperio
Client gets copy of source code/User group that meets on a set schedule	yes/yes (in person, via webinar, and via conference call)	no/no	escrow/yes (in person)
Qualified users or third parties can modify or augment AP system functionality or features	yes (client users and designated third parties)	no (all modifications made by vendor)	yes (client users and designated third parties)
Methods by which users can tailor AP system in their own setting	ad hoc query tools, user-defined interfaces, dictionary settings, read/write privileges	ad hoc query tools, user-defined interfaces, dictionary settings	ad hoc query tools, user-defined interfaces, dictionary settings, read/write privileges, rules engine, dashboards, interoperability tools, reports
Distinguishing product features (supplied by company)	<ul style="list-style-type: none"> integrated disease reporting for external clients and in-house physicians single database for integration across RIS, AP, CP, molecular, NGS, genetics/genomics 	<ul style="list-style-type: none"> full Web solution; integrated slide viewer; remote microscopy and telepathology track sterilization, disinfection, cleaning of medical devices, ER, endoscopy, OB/GYN, OR, PACS 	<ul style="list-style-type: none"> customer-configurable workflow tools: workflow designer, dashboards, interoperability tools full integration with molecular and other lab department workflows
*based on December 2022 survey deadline			
Note: a dash as an answer means company did not answer question or question is not applicable			
		[†] formerly Pathox	

All information is supplied by the companies listed. The tabulation does not represent an endorsement by the CAP.

Part 4 of 7	LigoLab Information Systems Suren Avunjian suren@ligolab.com Glendale, CA 800-544-6522 www.ligolab.com	NetSoft Byron Davis bdavis@netsoftusa.com Snellville, GA 678-325-2909 www.netsoftusa.com	NovoPath Dayna Carlin dcarlin@novopath.com Princeton, NJ 732-329-3209 www.novopath.com
Name of anatomic pathology system	LigoLab AP/LIS & RCM 2023 [†]	IntelliPath Pro	NovoPath 360 [†]
How AP system functionality is deployed	available as local server/software, ASP, and cloud-based	available as a cloud-based offering	available as a cloud-based offering
Configuration of AP system	available as a standalone product designed to interface with LigoLab's clinical LIS and any company's EHR	available as a standalone product designed to interface with any company's LIS and EHR	available as a standalone product designed to interface with any company's LIS and EHR
Year company began selling AP systems (any brand or model)	2006 (began selling LigoLab AP/LIS & RCM in 2006)	2000 (began selling IntelliPath Pro in 2021)	— (began selling NovoPath 360 in 1999)
Most recent installation of this AP system*	December 2022	December 2022	December 2022
Last product release or update for featured AP system*	December 2022 (version LigoLab AP/LIS & RCM 2022.2.30)	November 2022 (version 1.0.140.0/1.18.05)	December 2022 (version N360)
Total No. of contracts for sites operating AP system	90	—	55
• No. of sales and sites that went live on system between Dec. 2021–Nov. 2022	15 sales/44 sites went live	10 sales/3 sites went live	15 sales/10 sites went live
No. of sites operating AP system (hospitals/independent labs/clinics or group practices/other U.S. sites/foreign sites)	181 (0/181/0/0/0)	6 (1/5/0/0/0)	100 (0/100/0/0/0)
Foreign locations where company actively markets AP system	none	UK, Europe	none (installed in UK, Europe, Mexico)
Human languages (other than English) supported by AP system	—	—	—
Approximate No. of employees in entire company	74	10	60
Company provides list of client sites to potential customers on request	yes (complete list but prospective client must sign a nondisclosure agreement)	yes (partial list of comparable sites with no restrictions)	yes (partial list of comparable sites but prospective client must sign a nondisclosure agreement)
Clients restricted from sharing their experience with company or software	no	no	no
Range in No. of surgical pathology cases per year in installed sites	10,000–350,000	5,000–50,000	—
Range in No. of gynecologic cytology cases per year in installed sites	30,000–500,000	—	—
Programming languages and development applications or environments	Java	HTML, CSS, JavaScript, C#	Visual Basic 6, Visual Basic .Net, C#
Operating systems	Microsoft, Oracle	Microsoft Windows, Mac OS, Unix, Linux	Microsoft Windows
Databases	Microsoft SQL, Oracle	SQL, Microsoft Azure	Microsoft SQL
Features/modules incorporated in product:			
• Surgical pathology information system/Cytology information system	installed at client sites/installed at client sites	installed at client sites/under development	installed at client sites/installed at client sites
• Autopsy information system/Autopsy measurements, organ weights	installed at client sites/installed at client sites	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• Molecular pathology testing and reporting	installed at client sites	installed at client sites	installed at client sites
• Scan and store manual requisitions	installed at client sites	installed at client sites	installed at client sites
• Specimen tracking/Specimen storage and retrieval	installed at client sites/installed at client sites	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• Entry of block IDs	installed at client sites	installed at client sites	installed at client sites
• Print linear barcodes/Print two-dimensional barcodes	installed at client sites/installed at client sites	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• Print histology worksheets	installed at client sites	installed at client sites	installed at client sites
• Word processing with pathology templates	installed at client sites	installed at client sites	installed at client sites
• Voice entry of gross description/Voice entry of final diagnosis	installed at client sites/installed at client sites	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• Gross images integrated in reports/Microscopic images integrated in reports	installed at client sites/installed at client sites	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• Remote microscopy	installed at client sites	installed at client sites	installed at client sites
• Electronic signature	installed at client sites	installed at client sites	installed at client sites
• Remote printing of completed reports	installed at client sites	installed at client sites	installed at client sites
• Automatically fax reports to clients without manual intervention	installed at client sites	installed at client sites	installed at client sites
• Web-based remote inquiry of reports	installed at client sites	installed at client sites	installed at client sites
• Physician Web access for order entry	installed at client sites	under development	installed at client sites
• Natural language search capability	installed at client sites	installed at client sites	installed at client sites
• Sound-alike (e.g. Soundex) retrieval of patient history	installed at client sites	not available for this software	installed at client sites
• Produce tumor board reports/Produce management reports	installed at client sites/installed at client sites	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• Reports sufficient to comply with CLIA '88 regulations	installed at client sites	under development	installed at client sites
• Automatically collect and record PC and TC charges for billing	installed at client sites	installed at client sites	installed at client sites
• Comprehensive billing and accounts receivable	installed at client sites	under development	installed at client sites
• Interface to billing company that produces bills and invoices, follows up for payment	installed at client sites	installed at client sites	installed at client sites
• Inbound result-reporting interface to receive discrete results from an external lab and store them in patient record	installed at client sites	installed at client sites	installed at client sites
• EHR interface: admissions/discharge/transfer (ADT)	installed at client sites	installed at client sites	installed at client sites
• EHR interface: result reporting/Report sent to EHR as PDF for clinician	installed at client sites/installed at client sites	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• EHR interface: incoming clinical results	installed at client sites	installed at client sites	installed at client sites
• Partin tables/Gleason score calculations	installed at client sites/installed at client sites	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• Synoptic reporting for microscopic examination/For gross examination	installed at client sites/installed at client sites	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• CAP electronic cancer checklists automatically embedded	installed at client sites	under development	installed at client sites
• Client services module/Consultation management and reporting	installed at client sites/installed at client sites	not available for this software/installed at client sites	installed at client sites/installed at client sites
• LIS manager or lab employee can create ad hoc reports accessing all data elements in AP system	installed at client sites	installed at client sites	installed at client sites
• LIS manager or lab employee can determine schedule under which management and patient reports are automatically compiled and run	installed at client sites	under development	installed at client sites
• Business analytics/Management dashboard	installed at client sites/installed at client sites	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• Telepathology	installed at client sites	available via a third party	installed at client sites
Percentage of sites using result-reporting interfaces to external systems based on transmission of fully formatted (e.g. PDF or CDA) results	18%	100%	95%
Software provides indexed field in each test definition for LOINC code	yes (provide current LOINC dictionary with install)	no	yes (provide current LOINC dictionary with install)
AP system supports use of SNOMED CT	yes (for all cases)	yes (for all cases)	yes (for all cases)
System can auto-send tumor diagnoses to regional or state tumor registry using NAACCR Pathology Lab Electronic Reporting, vol. V, version 4.0	yes (pathologist can also set a flag for "send this case to tumor registry" on any case record)	yes (pathologist can also set a flag for "send this case to tumor registry" on any case record)	yes (pathologist can also set a flag for "send this case to tumor registry" on any case record)
Company uses third-party middleware for AP system-instrument interfaces	no (interface directly)	no (interface directly)	no (interface directly)
Other IT vendors/lab systems to which AP system bidirectionally interfaces	McKesson, Oracle Cerner, Clinisys, CompuGroup Medical, Orchard, Xifin	Oracle Cerner, Allscripts, Epic, GE Healthcare, Meditech, NextGen, Practice Fusion, eClinicalWorks, others	Allscripts, Athena, Atlas, Oracle Cerner, Change Healthcare, Orchard, eClinicalWorks, Ellkey, others
Voice-recognition products or partners that system uses	Nuance Dragon Dictate, Dolby Fusion Voice	Nuance Dragon NaturallySpeaking, Voicebrook	Dragon, many others
Digital pathology or WSI systems that interface to AP system	Leica, Philips, Agilent, Dako, Roche, Proscia, Hamamatsu	Leica, Philips, Roche	Leica, Proscia, PathAI, Paige
Client gets copy of source code/User group that meets on a set schedule	escrow/yes (in person, via webinar, and via conference call)	no/yes (via conference call)	no/yes (via webinar and conference call)
Qualified users or third parties can modify or augment AP system functionality or features	yes (client users)	no (all modifications made by vendor)	yes (client users)
Methods by which users can tailor AP system in their own setting	ad hoc query tools, user-defined interfaces, dictionary settings, read/write privileges	ad hoc query tools, dictionary settings	ad hoc query tools, user-defined interfaces, dictionary settings, dashboards, reports, others
Distinguishing product features (supplied by company)	<ul style="list-style-type: none"> LigoLab platform offers integrated solutions for anatomic pathology, clinical pathology, molecular diagnostics LigoLab shares the risk of successful implementation and sustainable growth in revenue and margins with its clients 	<ul style="list-style-type: none"> customizable dashboard to help with workflow efficiencies results produced quickly using a powerful internal macro system 	<ul style="list-style-type: none"> effortlessly add ancillary tests to AP workflows and automatically compile and update reports put control back in the hands of the lab with ad hoc robust configurabilities in the LIS
*based on December 2022 survey deadline			
Note: a dash as an answer means company did not answer question or question is not applicable			
	[†] formerly LigoLab AP/LIS & RCM 2022		[†] formerly NovoPath LIS; NovoPath 360 also marketed by Allscripts

Part 5 of 7	Oracle Cerner laboratory@cerner.com Austin, TX 800-633-0738www.cerner.com/solutions/laboratory	Orchard Software Corp. Steve Hurwitz shurwitz@orchardsoft.com Carmel, IN 800-856-1948 www.orchardsoft.com
Name of anatomic pathology system	Cerner Anatomic Pathology	Orchard Enterprise Pathology
How AP system functionality is deployed	availableaslocalserver/software,ASP,andcloud based	availableaslocalserver/software,ASP,andcloud based
Configuration of AP system	available as a standalone product designed to interface with any company's LIS and EHR	available as a standalone product designed to interface with any company's LIS and EHR
Year company began selling AP systems (any brand or model)	1982	2006(begansellingOrchardEnterprisePathology in 2022)
Most recent installation of this AP system*	September 2022	November 2022
Last product release or update for featured AP system*	October 2022 (version 2018.13)	November 2022 (version v9.3)
Total No. of contracts for sites operating AP system	— (226 domains)	—
•No.ofsalesandsitesthatwentliveonsystembetweenDec.2021–Nov.2022	2 domains went live	1 sale/1 site went live
No. of sites operating AP system (hospitals/independent labs/clinics or group practices/other U.S. sites/foreign sites)	—	1 (1/0/0/0)
Foreign locations where company actively markets AP system	Middle East, Canada, Latin America, Europe, UK, others (installed in Australia, Brazil, Canada, UAE, UK, Egypt, Qatar, Malaysia, Saudi Arabia, Singapore)	none
Human languages (other than English) supported by AP system	British-English, French, German, Spanish	—
Approximate No. of employees in entire company	150,000	292
Company provides list of client sites to potential customers on request	yes (partial list of comparable sites with no restrictions)	yes (partial list of comparable sites but prospective client must sign a nondisclosure agreement)
Clients restricted from sharing their experience with company or software	no	no
Range in No. of surgical pathology cases per year in installed sites	—	8,000– 11,000
Range in No. of gynecologic cytology cases per year in installed sites	—	0
Programming languages and development applications or environments	Java, C++, C#	Java
Operating systems	Microsoft Windows, Unix, AIX	Microsoft Windows
Databases	Oracle	SQL
Features/modules incorporated in product:		
• Surgical pathology information system/Cytology information system	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• Autopsy information system/Autopsy measurements, organ weights	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• Molecular pathology testing and reporting	available via Oracle Cerner Lab Sequence	installed at client sites
• Scan and store manual requisitions	available via Oracle Cerner laboratory imaging	installed at client sites
• Specimen tracking/Specimen storage and retrieval	available via Oracle Cerner Advanced Barcoding and Tracking and RFID Tracking/installed at client sites	installed at client sites/installed at client sites
• Entry of block IDs	installed at client sites	installed at client sites
• Print linear barcodes/Print two-dimensional barcodes	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• Print histology worksheets	installed at client sites	installed at client sites
• Word processing with pathology templates	installed at client sites	installed at client sites
• Voice entry of gross description/Voice entry of final diagnosis	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• Gross images integrated in reports/Microscopic images integrated in reports	installed at client sites/installed at client sites	available but not installed/available but not installed
• Remote microscopy	not available for this software	not available for this software
• Electronic signature	installed at client sites	installed at client sites
• Remote printing of completed reports	installed at client sites	installed at client sites
• Automatically fax reports to clients without manual intervention	installed at client sites	installed at client sites
• Web-based remote inquiry of reports	available via Oracle Cerner provider portal	installed at client sites
• Physician Web access for order entry	available via Oracle Cerner provider portal	installed at client sites
• Natural language search capability	not available for this software	not available for this software
• Sound-alike (e.g. Soundex) retrieval of patient history	installed at client sites	not available for this software
• Produce tumor board reports/Produce management reports	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• Reports sufficient to comply with CLIA '88 regulations	installed at client sites	installed at client sites
• Automatically collect and record PC and TC charges for billing	installed at client sites	installed at client sites
• Comprehensive billing and accounts receivable	installed at client sites	not available for this software
• Interface to billing company that produces bills and invoices, follows up for payment	installed at client sites	installed at client sites
• Inbound result-reporting interface to receive discrete results from an external lab and store them in patient record	not available for this software	installed at client sites
• EHR interface: admissions/discharge/transfer (ADT)	installed at client sites	installed at client sites
• EHR interface: result reporting/Report sent to EHR as PDF for clinician	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• EHR interface: incoming clinical results	installed at client sites	installed at client sites
• Partin tables/Gleason score calculations	installed at client sites/installed at client sites	under development/under development
• Synoptic reporting for microscopic examination/For gross examination	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• CAP electronic cancer checklists automatically embedded	available via a third party	not available for this software
• Client services module/Consultation management and reporting	available via Oracle Cerner Outreach Operations/installed at client sites	installed at client sites/installed at client sites
• LIS manager or lab employee can create ad hoc reports accessing all data elements in AP system	installed at client sites	installed at client sites
• LIS manager or lab employee can determine schedule under which management and patient reports are automatically compiled and run	installed at client sites	installed at client sites
• Business analytics/Management dashboard	installed at client sites/not available for this software	installed at client sites/installed at client sites
• Telepathology	not available for this software	not available for this software
Percentage of sites using result-reporting interfaces to external systems based on transmission of fully formatted (e.g. PDF or CDA) results	<10%	100%
Software provides indexed field in each test definition for LOINC code AP system supports use of SNOMED CT	yes (provide current LOINC dictionary with install) yes (for all cases)	yes yes (for all cases)
System can auto. send tumor diagnoses to regional or state tumor registry using NAACCR Pathology Lab Electronic Reporting, vol. V, version 4.0	yes (pathologist can also set a flag for "send this case to tumor registry" on any case record)	yes (pathologist can also set a flag for "send this case to tumor registry" on any case record)
Company uses third-party middleware for AP system-instrument interfaces Other IT vendors lab system to which AP system bidirectionally interfaces	no (interface directly) Epic, Allscripts, McKesson, Meditech, GE Healthcare, Atlas, 4medica	no (interface directly) Allscripts, GE Healthcare, Siemens, Oracle Cerner, Meditech, eMDs, McKesson, QuadraMed, others
Voice-recognition products or partners that system uses	Voicebrook, Nuance Dragon	NVoq SayIt, Nuance Dragon, Dolby Fusion Narrate, Voicebrook VoiceOver, 3MM* Modal Fluency Direct
Digital pathology or WSI systems that interface to AP system	Leica; some functionality built into AP system	none
Client gets copy of source code/User group that meets on a set schedule	no/yes (via webinar and online collaborative community)	escrow/yes (via webinar)
Qualified users or third parties can modify or augment AP system functionality or features	no (all modifications made by vendor)	yes (client users)
Methods by which users can tailor AP system in their own setting	ad hoc query tools, user-defined interfaces, dictionary settings	ad hoc query tools, user-defined interfaces, dictionary settings, read/write privileges, rules-based decision-making technology, user-defined fields and ID formats, others
Distinguishing product features (supplied by company)	• more than 40 years of innovation in the laboratory and pathology markets • tracking of specimens from point of origin to storage	• ability to design unique workflows • robust rules and options for patient report formatting
*based on December 2022 survey deadline Note: a dash as an answer means company did not answer question or question is not applicable		



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Name of anatomic pathology system	Orchard Pathology	WindoPath Essential	SoftPathDx [†]
How AP system functionality is deployed	available as local server/software, ASP, and cloud based	available as an ASP and cloud based	available as local server/software, ASP, and cloud based
Configuration of AP system	available as a dedicated module for Orchard's clinical LIS and as a standalone product designed to interface with any company's LIS and EHR	available as a standalone product designed to interface with any company's LIS	available as a dedicated module for SCC's clinical LIS and as a standalone product designed to interface with any company's LIS and EHR
Year company began selling AP systems (any brand or model)	2006 (began selling Orchard Pathology in 2006)	1983 (began selling WindoPath Essential in 1995)	1993 (began selling SoftPathDx in 2010)
Most recent installation of this AP system*	September 2022	December 2022	October 2021
Last product release or update for featured AP system*	November 2022 (version v13)	September 2022 (version e.1085)	July 2021 (version 4.2)
Total No. of contracts for sites operating AP system	119	—	121
No. of sales and sites that went live on system between Dec. 2021–Nov. 2022	2 sales/2 sites went live	—	5 sales/13 sites went live
No. of sites operating AP system (hospitals/independent labs/clinics or group practices/other U.S. sites/foreign sites)	121 (19/45/45/12—public health labs, research, veterinary/0)	—	494 (192/17/37/0/248—public health system hospitals, pathology labs, commercial labs)
Foreign locations where company actively markets AP system	none	Canada, Mexico (installed in Canada)	worldwide (installed in Australia, Canada, France, Jamaica, Hong Kong, Indonesia, Israel, Malaysia, Singapore)
Human languages (other than English) supported by AP system	—	—	French, Hebrew
Approximate No. of employees in entire company	292	36	1,700
Company provides list of client sites to potential customers on request	yes (partial list of comparable sites but prospective client must sign a nondisclosure agreement)	yes (partial list of comparable sites with no restrictions)	yes (partial list of comparable sites with no restrictions)
Clients restricted from sharing their experience with company or software	no	no	no
Range in No. of surgical pathology cases per year in installed sites	8,000–150,000	—	2,000–600,000
Range in No. of gynecologic cytology cases per year in installed sites	11,000–150,000	—	2,000–175,000
Programming languages and development applications or environments	4D, Java, C++	Visual Basic, Visual Basic .Net, Smalltalk	C, C++, Java, Microsoft .Net, HTML5-based portal servers: IBM AIX or Red Hat Linux; workstations: Microsoft
Operating systems	Microsoft Windows	Microsoft	Windows, Web based
Databases	SQL	Microsoft SQL	Oracle, PostgreSQL
Features/modules incorporated in product:			
• Surgical pathology information system/Cytology information system	installed at client sites/installed at client sites	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• Autopsy information system/Autopsy measurements, organ weights	installed at client sites/installed at client sites	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• Molecular pathology testing and reporting	installed at client sites	installed at client sites	installed at client sites
• Scan and store manual requisitions	installed at client sites	installed at client sites	installed at client sites
• Specimen tracking/Specimen storage and retrieval	installed at client sites/installed at client sites	installed at client sites/installed at client sites	available via SCC's SoftTrack/available via SCC's SoftBiobank
• Entry of block IDs	installed at client sites	installed at client sites	installed at client sites
• Print linear barcodes/Print two-dimensional barcodes	installed at client sites/installed at client sites	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• Print histology worksheets	installed at client sites	installed at client sites	installed at client sites
• Word processing with pathology templates	installed at client sites	installed at client sites	installed at client sites
• Voice entry of gross description/Voice entry of final diagnosis	installed at client sites/installed at client sites	available via a third party/available via a third party	installed at client sites/installed at client sites
• Gross images integrated in reports/Microscopic images integrated in reports	installed at client sites/installed at client sites	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• Remote microscopy	not available for this software	installed at client sites	installed at client sites
• Electronic signature	installed at client sites	installed at client sites	installed at client sites
• Remote printing of completed reports	installed at client sites	installed at client sites	installed at client sites
• Automatically fax reports to clients without manual intervention	installed at client sites	installed at client sites	installed at client sites
• Web-based remote inquiry of reports	installed at client sites	—	installed at client sites
• Physician Web access for order entry	installed at client sites	—	installed at client sites
• Natural language search capability	not available for this software	—	installed at client sites
• Sound-alike (e.g. Soundex) retrieval of patient history	not available for this software	installed at client sites	installed at client sites
• Produce tumor board reports/Produce management reports	installed at client sites/installed at client sites	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• Reports sufficient to comply with CLIA '88 regulations	installed at client sites	installed at client sites	installed at client sites
• Automatically collect and record PC and TC charges for billing	installed at client sites	installed at client sites	installed at client sites
• Comprehensive billing and accounts receivable	not available for this software	installed at client sites	installed at client sites
• Interface to billing company that produces bills and invoices, follows up for payment	installed at client sites	installed at client sites	installed at client sites
• Inbound result-reporting interface to receive discrete results from an external lab and store them in patient record	installed at client sites	installed at client sites	installed at client sites
• EHR interface: admissions/discharge/transfer (ADT)	installed at client sites	installed at client sites	installed at client sites
• EHR interface: result reporting/Report sent to EHR as PDF for clinician	installed at client sites/installed at client sites	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• EHR interface: incoming clinical results	installed at client sites	installed at client sites	installed at client sites
• Partin tables/Gleason score calculations	installed at client sites/installed at client sites	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• Synoptic reporting for microscopic examination/For gross examination	installed at client sites/installed at client sites	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• CAP electronic cancer checklists automatically embedded	not available for this software	installed at client sites	installed at client sites
• Client services module/Consultation management and reporting	installed at client sites/installed at client sites	available via a third party/installed at client sites	installed at client sites/installed at client sites
• LIS manager or lab employee can create ad hoc reports accessing all data elements in AP system	installed at client sites	installed at client sites	installed at client sites
• LIS manager or lab employee can determine schedule under which management and patient reports are automatically compiled and run	installed at client sites	installed at client sites	installed at client sites
• Business analytics/Management dashboard	installed at client sites/installed at client sites	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• Telepathology	not available for this software	—	installed at client sites
Percentage of sites using result-reporting interfaces to external systems based on transmission of fully formatted (e.g. PDF or CDA) results	70%	—	100%
Software provides indexed field in each test definition for LOINC code	yes	yes	yes (provide current LOINC dictionary with install)
AP system supports use of SNOMED CT	yes (for all cases)	yes (for all cases)	yes (for all cases)
System can auto. send tumor diagnoses to regional or state tumor registry using NAACCR Pathology Lab Electronic Reporting, vol. V, version 4.0	yes (pathologist can also set a flag for "send this case to tumor registry" on any case record)	yes	yes (pathologist can also set a flag for "send this case to tumor registry" on any case record)
Company uses third-party middleware for AP system-instrument interfaces	no (interface directly)	combination of direct interfaces and third-party systems	no (interface directly)
Other IT vendors/lab systems to which AP system bidirectionally interfaces	Allscripts, GE Healthcare, Siemens, Oracle Cerner, Meditech, eMDs, McKesson, QuadraMed, others	Epic, Oracle Cerner, others	Oracle Cerner, Epic, McKesson, Clinisys, many others
Voice-recognition products or partners that system uses	NVoq SayIt, Nuance Dragon Naturally Speaking, Dolby Fusion Narrate, Voicebrook VoiceOver, others	Nuance Dragon Naturally Speaking	Voicebrook, Nuance Dragon, eScription, TalkStation, M*Modal
Digital pathology or WSI systems that interface to AP system	Leica Aperio, Sectra PACS, Indica Labs Halo; some functionality built into AP system	—	Leica Aperio, Philips, open source/homegrown
Client gets copy of source code/User group that meets on a set schedule	escrow/yes (via webinar)	escrow/no	escrow/yes (in person, via webinar, and via conference call)
Qualified users or third parties can modify or augment AP system functionality or features	yes (client users)	yes (client users)	yes (client users)
Methods by which users can tailor AP system in their own setting	ad hoc query tools, user-defined interfaces, dictionary settings, read/write privileges, rules-based decision-making technology, user-defined fields and ID formats, others	ad hoc query tools, user-defined interfaces, dictionary settings	ad hoc query tools, user-defined interfaces, dictionary settings, read/write privileges, workflow engine, rules engine, test protocol designer, security settings, others
Distinguishing product features (supplied by company)	<ul style="list-style-type: none"> single all-inclusive system that uses same database for clinical and pathology report data structured for standardization and synoptic reporting 	<ul style="list-style-type: none"> highly customizable in every aspect of the software, with thousands of user preferences OneVersion: new features released regularly with minimal downtime, at no additional cost 	<ul style="list-style-type: none"> full integration with digital pathology and genetics/NGS platforms time-saving automated integrated content reporting auto-compiled from multiple sources
*based on December 2022 survey deadline Note: a dash as an answer means company did not answer question or question is not applicable			[†] SoftPathDx also marketed by SCC-designated consultants and international distributors/agents

Part 7 of 7	VitalAxis Tharak Krishnamurthy sales@vitalaxis.com Toms River, NJ 866-441-0268 www.vitalaxis.com	WebPathLab Peter Williams peter@webpathlab.com Folsom, CA 916-542-1386 www.webpathlab.com	XIFIN Joseph Nollar jnollar@xifin.com San Diego, CA 858-793-5700 www.xifin.com
Name of anatomic pathology system	VitalDx LIS†	WebPathLab	XIFIN LIS
How AP system functionality is deployed	available as a cloud-based offering	available as an ASP offering	available as a cloud-based offering
Configuration of AP system	available as a dedicated module for VitalAxis clinical LIS and as a standalone product designed to interface with any company's LIS and EHR	available as a standalone product designed to interface with any company's HL7-capable LIS and EHR	available as a standalone product designed to interface with any company's LIS and EHR
Year company began selling AP systems (any brand or model)	2006 (began selling VitalDx LIS in 2006)	2000 (began selling WebPathLab in 2000)	2004 (began selling XIFIN LIS in 2004)
Most recent installation of this AP system*	November 2022	September 2022	November 2022
Last product release or update for featured AP system*	November 2022 (version 6.87 SP13)	July 2022 (version 2i-4)	November 2021 (version 9.0)
Total No. of contracts for sites operating AP system	160	45	78
No. of sales and sites that went live on system between Dec. 2021–Nov. 2022	8 sales/8 sites went live	5 sales/2 sites went live	8 sales/5 sites went live
No. of sites operating AP system (hospitals/independent labs/clinics or group practices/other U.S. sites/foreign sites)	143 (0/85/58/0/0)	43 (4/32/0/0/7—independent labs)	90 (0/58/25/0/7)
Foreign locations where company actively markets AP system	none	Latin America, Europe, Middle East, China, India (installed in Mexico, Dominican Republic, Saudi Arabia, Bahrain, Ecuador, Colombia)	Africa, Asia, Europe (installed in UK, China, Holland, Rwanda, Tanzania, Ethiopia, Haiti)
Human languages (other than English) supported by AP system	—	Spanish, Chinese (Mandarin)	Chinese (simplified Mandarin)
Approximate No. of employees in entire company	—	10	—
Company provides list of client sites to potential customers on request	yes (partial list of comparable sites but prospective client must sign a nondisclosure agreement)	yes (partial list of comparable sites with permission but prospective client must sign a nondisclosure agreement)	yes (partial list of comparable sites with no restrictions)
Clients restricted from sharing their experience with company or software	no	no	no
Range in No. of surgical pathology cases per year in installed sites	12,000–300,000	2,500–180,000	5,250–223,000
Range in No. of gynecologic cytology cases per year in installed sites	12,000–300,000	800–50,000	15,000–75,000
Programming languages and development applications or environments	.Net Suite (C#), Java, HTML, JavaScript	ASP .Net, AJAX, Python, JavaScript	C#, .Net
Operating systems	Microsoft Windows, Mac OS, Linux	Microsoft server	Microsoft Windows
Databases	SQL Server 2022	MySQL	Microsoft SQL
Features/modules incorporated in product:			
• Surgical pathology information system/Cytology information system	installed at client sites/installed at client sites	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• Autopsy information system/Autopsy measurements, organ weights	not avail. for this software/not avail. for this software	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• Molecular pathology testing and reporting	installed at client sites	installed at client sites	installed at client sites
• Scan and store manual requisitions	installed at client sites	installed at client sites	installed at client sites
• Specimen tracking/Specimen storage and retrieval	installed at client sites/installed at client sites	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• Entry of block IDs	installed at client sites	installed at client sites	installed at client sites
• Print linear barcodes/Print two-dimensional barcodes	installed at client sites/installed at client sites	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• Print histology worksheets	installed at client sites	installed at client sites	installed at client sites
• Word processing with pathology templates	installed at client sites	installed at client sites	installed at client sites
• Voice entry of gross description/Voice entry of final diagnosis	installed at client sites/installed at client sites	installed at client sites/installed at client sites	available via a third party/available via a third party
• Gross images integrated in reports/Microscopic images integrated in reports	installed at client sites/installed at client sites	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• Remote microscopy	installed at client sites	installed at client sites	installed at client sites
• Electronic signature	installed at client sites	installed at client sites	installed at client sites
• Remote printing of completed reports	installed at client sites	installed at client sites	installed at client sites
• Automatically fax reports to clients without manual intervention	installed at client sites	installed at client sites	installed at client sites
• Web-based remote inquiry of reports	installed at client sites	installed at client sites	installed at client sites
• Physician Web access for order entry	installed at client sites	installed at client sites	installed at client sites
• Natural language search capability	installed at client sites	installed at client sites	installed at client sites
• Sound-alike (e.g. Soundex) retrieval of patient history	installed at client sites	installed at client sites	installed at client sites
• Produce tumor board reports/Produce management reports	installed at client sites/installed at client sites	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• Reports sufficient to comply with CLIA '88 regulations	installed at client sites	installed at client sites	installed at client sites
• Automatically collect and record PC and TC charges for billing	installed at client sites	installed at client sites	installed at client sites
• Comprehensive billing and accounts receivable	installed at client sites	available but not installed	available via XIFIN RPM
• Interface to billing company that produces bills and invoices, follows up for payment	installed at client sites	installed at client sites	installed at client sites
• Inbound result-reporting interface to receive discrete results from an external lab and store them in patient record	installed at client sites	installed at client sites	installed at client sites
• EHR interface: admissions/discharge/transfer (ADT)	installed at client sites	installed at client sites	installed at client sites
• EHR interface: result reporting/Report sent to EHR as PDF for clinician	installed at client sites/installed at client sites	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• EHR interface: incoming clinical results	installed at client sites	installed at client sites	installed at client sites
• Partin tables/Gleason score calculations	installed at client sites/installed at client sites	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• Synoptic reporting for microscopic examination/For gross examination	installed at client sites/installed at client sites	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• CAP electronic cancer checklists automatically embedded	installed at client sites	—	installed at client sites
• Client services module/Consultation management and reporting	installed at client sites/installed at client sites	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• LIS manager or lab employee can create ad hoc reports accessing all data elements in AP system	installed at client sites	—	installed at client sites
• LIS manager or lab employee can determine schedule under which management and patient reports are automatically compiled and run	installed at client sites	—	under development
• Business analytics/Management dashboard	installed at client sites/installed at client sites	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• Telepathology	installed at client sites	installed at client sites	available via a third party
Percentage of sites using result-reporting interfaces to external systems based on transmission of fully formatted (e.g. PDF or CDA) results	70%	95%	85%
Software provides indexed field in each test definition for LOINC code	yes (provide current LOINC dictionary with install)	no	yes
AP system supports use of SNOMED CT	no	—	yes (for all cases)
System can auto-send tumor diagnoses to regional or state tumor registry using NAACCR Pathology Lab Electronic Reporting, vol. V, version 4.0	yes (pathologist can also set a flag for "send this case to tumor registry" on any case record)	yes (pathologist can also set a flag for "send this case to tumor registry" on any case record)	yes (pathologist can also set a flag for "send this case to tumor registry" on any case record)
Company uses third-party middleware for AP system-instrument interfaces	no (interface directly)	yes, for all instrument interfaces (Mirth Connect, Qvera)	combination of direct interfaces and third-party systems (Data Innovations)
Other IT vendors/lab systems to which AP system bidirectionally interfaces	Seacoast, Ovation, CompuGroup Medical	Athena, Meditech, Epic, Orchard, Allscripts, Practice Fusion, eClinicalWorks, Oracle Cerner, others	Epic, Cortex, Allscripts, Meditech, Oracle Cerner, GE Healthcare, eClinicalWorks, Practice Fusion, eMDs, others
Voice-recognition products or partners that system uses	Nuance Dragon	Nuance Dragon NaturallySpeaking	Dolbey Fusion Narrate, Voicebrook, Nuance Dragon NaturallySpeaking
Digital pathology or WSI systems that interface to AP system	Sectra, Lumea	Leica Aperio, 3DHitech; some functionality built into AP system	Leica, Proscia, Hamamatsu, Roche Ventana, Motic; some functionality built into AP system
Client gets copy of source code/User group that meets on a set schedule	no/yes (via webinar, via conference call, on a need basis)	escrow (optional)/no	escrow/yes (via webinar)
Qualified users or third parties can modify or augment AP system functionality or features	yes (client users)	clients can customize solution but vendor must implement customized features	yes (client users)
Methods by which users can tailor AP system in their own setting	ad hoc query tools; user-defined interfaces; dictionary settings; read/write privileges; administrative tools to customize workflows, screen designs, reports, more	dictionary settings; customization of pathology reports, slide/cassette labels, management reports; control of user access, audit log access	ad hoc query tools; user-defined interfaces; dictionary settings; read/write privileges; user-managed test menu, testing protocols, security privileges, more
Distinguishing product features (supplied by company)	• multiple specialties, including pathology, molecular, genetics, NGS, clinical, and molecular tests • fully integrated and connected software for physicians, send-out labs, external pathologists	• 100% Web based; provides universal secure access • fee can be pay-per-report at \$1.00 or unlimited reports with a licensing fee per pathologist; no limit on number of users	• TC/PC workflow/revenue split management enabled with digital pathology • configurable cloud solution that includes monthly upgrades
*based on December 2022 survey deadline Note: a dash as an answer means company did not answer question or question is not applicable	†formerly VitalAxis LIS; VitalDx LIS also marketed by P4 Diagnostix, Miraca Life Sciences, PLUS Diagnostix		

All information is supplied by the companies listed. The tabulation does not represent an endorsement by the CAP.