

Part 1 of 7	<b>Clinisys</b> <b>Amber Kazansky</b> amber.kazansky@clinisys.com <b>Tucson, AZ</b> <b>520-570-2261</b> www.clinisys.com	<b>Clinisys</b> <b>Amber Kazansky</b> amber.kazansky@clinisys.com <b>Tucson, AZ</b> <b>520-570-2261</b> www.clinisys.com	<b>Comp Pro Med</b> <b>Leisha Ludeman</b> lludeman@compromed.com <b>Santa Rosa, CA</b> <b>707-578-0239</b> www.compromed.com
Name of anatomic pathology system	Clinisys CoPathPlus <sup>†</sup>	Clinisys PowerPath <sup>†</sup>	Polytech for Pathology
How AP system functionality is deployed	local server and software	remote hosting or local server and software (client option)	remote hosting or local server and software (client option)
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
Company's AP system and clinical LIS use same operating system, database, and programming language	no	no	yes
Year company began selling AP systems	1982, as Sunquest (Sunquest began selling CoPathPlus in 1997)	1982, as Sunquest (Sunquest began selling PowerPath in 2011)	2022 (began selling Polytech for Pathology in 2022)
Most recent go-live of this AP system at a client site*	November 2019	December 2022	—
Last product release or update for featured AP system*	June 2023 (version 8.0.1)	March 2023 (version 13.0.2)	August 2023 (version 8.6.7)
Total No. of contracts for sites operating AP system	113	113	1
• No. of sales and sites that went live on system between Dec. 2022–Nov. 2023	—	—	0
No. of sites operating AP system (hospitals/independent labs/clinics or group practices/other U.S. sites/foreign sites)	113 (84/18/2/0/9)	113 (80/24/4/1—specialty start-up/4)	1 (0/0/0/0/1)
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, Bahamas
Human languages (other than English) supported by AP system	—	none	any supported by Windows operating system
Approximate No. of employees in entire company	1,400+	1,400+	8
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	700–700,000	1,500–600,000	1–100
Range in No. of gynecologic cytology cases per year in installed sites	0–60,000	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	Pervasive 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/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
• Deceased patient (i.e. morgue) management	installed at client sites	installed at client sites	not available for this software
• 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
• Tracking of specimens before arrival in lab	not available for this software	not available for this software	available but not installed
• Block and slide tracking in lab/Block and slide storage and retrieval	installed at client sites/installed at client sites	installed at client sites/installed at client sites	available but not installed/available but not installed
• Electronic transmission of frozen section diagnoses into OR	installed at client sites	installed at client sites	available but not installed
• Tracking of frozen section turnaround time	installed at client sites	installed at client sites	available but not installed
• Assignment of specimens to subspecialty teams or services	installed at client sites	in testing	available but not installed
• Print two-dimensional barcodes/Word processing using pathology templates	installed at client sites/installed at client sites	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• Voice entry of gross description/Voice entry of final diagnosis	available via a third party/available via a third party	available via a third party/available via a third party	installed at client sites/installed at client sites
• Voice-actuated commands to eliminate mouse clicks	available via a third party	available via a third party	available but not installed
• Ability to integrate images into reports	installed at client sites	installed at client sites	installed at client sites
• Receipt and transmission of images via remote microscopy/via telepathology	— <sup>††</sup>	— <sup>††</sup>	available but not installed/available but not installed
• Electronic signature	installed at client sites	installed at client sites	available but not installed
• Web-based access for order entry/specimen or case status/patient reports	avail. via Clinisys physician portal for AP (all 3 features)	avail. via Clinisys physician portal for AP (all 3 features)	available but not installed (all 3 features)
• Natural language search capability/Sound-alike retrieval of patient history	installed at client sites/available via Clinisys VUE	installed at client sites/available via Clinisys VUE	available but not installed/not available for this software
• Produce management reports	installed at client sites	installed at client sites	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	not available for this software
• Interface to billing firm that produces bills and invoices, procures payment	installed at client sites	installed at client sites	installed at client sites
• Inbound result-reporting interface to receive discrete results from external labs 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	installed at client sites
• Report sent to EHR as PDF for clinician	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
• Partin tables for prostate cancer assessment/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	installed at client sites	under development
• CAP electronic cancer checklists automatically embedded	not available for this software	not available for this software	not available for this software
• Client services module or CRM software	installed at client sites	installed at client sites	not available for this software
• Consultation management and reporting	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	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
Approximate percentage of sites using result-reporting interfaces to external systems based on transmission of formatted (e.g. PDF or CDA) results	50%	40%	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 cancer cases with CAP electronic cancer checklists)	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)
Ability to bidirectionally interface to select vendors' pathology information systems	yes	yes	yes
Voice-recognition products that interface or integrate with AP system	Nuance Dragon, Voicebrook, 3M M*Modal, Dolbey	Nuance Dragon, Voicebrook, 3M M*Modal, Dolbey	Nuance Dragon NaturallySpeaking
PACS that interface or integrate with AP system	none	none	Olympus, Philips
Digital pathology or WSI systems that interface with AP system to acquire images	Roche, Leica, Philips, Inspirata, Proscia	Roche, Leica, Philips, Proscia	none
AI or other image-analysis systems that interface with AP system to analyze digital images	none	none	none
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 features controlled by configuration to ensure upgradeability)	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, workflow configuration, tailored worklists, field window painting, others	ad hoc query tools, dictionary settings, workflow configuration, rules-based workflows around AP processes and reflexes, customizable Crystal Reports	ad hoc query tools, user-defined interfaces, dictionary settings, read/write privileges, workflow configuration, tailored worklists, built-in customizable report generator
Distinguishing product features (supplied by company)	<ul style="list-style-type: none"> <li>procedures for integrating molecular/genetics results into patient reports to improve care</li> <li>comprehensive specimen management for safety and efficiency</li> </ul>	<ul style="list-style-type: none"> <li>integrated AP/molecular reports enhance outcomes and improve care coordination</li> <li>Case Finder: robust, user-friendly ad hoc query tool</li> </ul>	<ul style="list-style-type: none"> <li>all system outputs are user configurable using sophisticated built-in tools</li> <li>real-time rules-driven, user-defined, content-based functionality</li> </ul>

\*based on December 2023 survey deadline

Note: a dash as an answer means company did not answer question or question is not applicable

<sup>†</sup>formerly Sunquest CoPathPlus<sup>††</sup>receipt via digital pathology interface<sup>†</sup>formerly Sunquest PowerPath<sup>††</sup>receipt via digital pathology interface

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 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	remote hosting	remote hosting or local server and software (client option)	remote hosting or local server and software (client option)
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 and EHR
Company's AP system and clinical LIS use same operating system, database, and programming language	—	—	—
Year company began selling AP systems	2022, with acquisition of AP Easy Software Solutions (began selling CGM AP EASY in 2022)	1989 (began selling WinSURGE in 1997)	1986 (began selling Cortex AP LIS in 2004)
Most recent go-live of this AP system at a client site*	November 2023	November 2023	February 2023
Last product release or update for featured AP system*	—	November 2023 (version 58.4 server; 5.5.1 client)	October 2023 (version V10.2 R18)
Total No. of contracts for sites operating AP system	~250	110	59
No. of sales and sites that went live on system between Dec. 2022–Nov. 2023	11 sales/12 sites went live	1 sale/5 sites 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)	—	136 (36/68/—†/32—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	—	language for captions, reports, screens defined by user if keyboard and PC support it	—
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, SQL	.Net, C#, Web
Operating systems	Microsoft Windows	Microsoft Windows, Unix	—
Databases	MySQL	Object Caché	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	installed at client sites/not available for this software	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• Deceased patient (i.e. morgue) management	not available for this software	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
• Tracking of specimens before arrival in lab	—	installed at client sites	—
• Block and slide tracking in lab/Block and slide storage and retrieval	available via a third party/—	installed at client sites/installed at client sites	installed at client sites/—
• Electronic transmission of frozen section diagnoses into OR	available but not installed	installed at client sites	installed at client sites
• Tracking of frozen section turnaround time	installed at client sites	installed at client sites	installed at client sites
• Assignment of specimens to subspecialty teams or services	—	installed at client sites	installed at client sites
• Print two-dimensional barcodes/Word processing using pathology templates	installed at client sites/installed at client sites	installed at client sites/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	—
• Voice-actuated commands to eliminate mouse clicks	installed at client sites	installed at client sites	installed at client sites
• Ability to integrate images into reports	installed at client sites	installed at client sites	installed at client sites
• Receipt and transmission of images via remote microscopy/via telepathology	under development/under development	installed at client sites/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
• Web-based access for order entry/specimen or case status/patient reports	installed at client sites (all 3 features)	installed at client sites (all 3 features)	—/—/installed at client sites
• Natural language search capability/Sound-alike retrieval of patient history	not avail. for this software/not avail. for this software	installed at client sites/installed at client sites	installed at client sites/—
• Produce management reports	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 firm that produces bills and invoices, procures payment	installed at client sites	installed at client sites	installed at client sites
• Inbound result-reporting interface to receive discrete results from external labs 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
• Report sent to EHR as PDF for clinician	installed at client sites	installed at client sites	installed at client sites
• Partin tables for prostate cancer assessment/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 or CRM software	installed at client sites	installed at client sites	installed at client sites
• Consultation management and reporting	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
Approximate percentage of sites using result-reporting interfaces to external systems based on transmission of formatted (e.g. PDF or CDA) results	65%	95%	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)
Ability to bidirectionally interface to select vendors' pathology information systems	yes	yes	yes
Voice-recognition products that interface or integrate with AP system	Nuance Dragon, Dolbey, Amazon Web Services Transcribe	Nuance Dragon NaturallySpeaking Professional, others	Nuance Dragon, Voicebrook, Dolbey, others
PACS that interface or integrate with AP system	—	Leica Aperio, OnBase	none
Digital pathology or WSI systems that interface with AP system to acquire images	none	Leica Aperio	—
AI or other image-analysis systems that interface with AP system to analyze digital images	Morphle Labs	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, workflow configuration, tailored worklists, WinsRULES rules-based engine, WinsALERT executive dashboard, others	ad hoc query tools, user-defined interfaces, dictionary settings, workflow configuration, tailored worklists
Distinguishing product features (supplied by company)	<ul style="list-style-type: none"> <li>easy to use, easy to implement, cloud based, and affordable</li> <li>easy access to customer support by phone, email, and simple ticketing system</li> </ul>	<ul style="list-style-type: none"> <li>powerful and configurable: high level of functionality, flexibility, and customer service</li> <li>comprehensive user-driven tracking, rules, alerts, cockpit, dashboard</li> </ul>	<ul style="list-style-type: none"> <li>Cortex Workbench customizes and defines any type of lab work with barcode-driven workflows</li> <li>add-on order and special stain module</li> </ul>

\*based on December 2023 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

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Name of anatomic pathology system	Beaker	Pathox Web	LabWare
How AP system functionality is deployed	remote hosting or local server and software (client option)	remote hosting	remote hosting or local server and software (client option)
Configuration of AP system	available as a dedicated module for Epic's clinical LIS and EHR and as a standalone product designed to interface with any company's LIS and EHR	available as a standalone product designed to interface with select vendors' LISs and EHRs	available as a standalone product designed to interface with any company's LIS and EHR
Company's AP system and clinical LIS use same operating system, database, and programming language	yes	—	yes
Year company began selling AP systems	2011 (began selling Beaker in 2011)	2008 (began selling Pathox Web in 2020)	2013 (began selling LabWare in 2013)
Most recent go-live of this AP system at a client site*	November 2023	November 2023	March 2023
Last product release or update for featured AP system*	November 2023 (version November 2023)	May 2023 (version 2.1)	July 2023 (version 8g)
Total No. of contracts for sites operating AP system	269	—	20
• No. of sales and sites that went live on system between Dec. 2022–Nov. 2023	30 sales/30 sites went live	8 sales/4 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)	not tracked	69 (0/0/0/0/69) <sup>†</sup>	23 (0/5/0/1—clinical research/17)
Foreign locations where company actively markets AP system	UK, Ireland, Norway, Denmark, Finland, Netherlands, Saudi Arabia, Australia, UAE, others (installed in UK, Belgium, Canada, Singapore, other locations)	Europe, South America (installed in Italy, Spain, Georgia, Mexico, Brazil, Colombia, Bolivia, Peru)	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	Spanish, Portuguese, French, Italian, Romanian, Cyrillic	German, Spanish, Swedish, Chinese, Norwegian, Japanese, Portuguese, Russian, Hebrew, Italian, French
Approximate No. of employees in entire company	14,100	250	900
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 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	250–1,000,000	900–100,000	1,000–100,000
Range in No. of gynecologic cytology cases per year in installed sites	—	1,000–110,000	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	Unix, AIX, Linux	Microsoft Windows, SQL, Linux, PostgreSQL	Microsoft Windows
Databases	Chronicles, InterSystems Iris, SQL	Microsoft SQL, 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/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
• Deceased patient (i.e. morgue) management	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
• Tracking of specimens before arrival in lab	installed at client sites	under development	installed at client sites
• Block and slide tracking in lab/Block and slide storage and retrieval	installed at client sites/installed at client sites	installed at client sites/under development	installed at client sites/installed at client sites
• Electronic transmission of frozen section diagnoses into OR	installed at client sites	under development	available but not installed
• Tracking of frozen section turnaround time	installed at client sites	under development	installed at client sites
• Assignment of specimens to subspecialty teams or services	installed at client sites	installed at client sites	installed at client sites
• Print two-dimensional barcodes/Word processing using pathology templates	installed at client sites/installed at client sites	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• Voice entry of gross description/Voice entry of final diagnosis	available via a third party/available via a third party	available via a third party/available via a third party	available via a third party/available via a third party
• Voice-actuated commands to eliminate mouse clicks	available via a third party	available via a third party	not available for this software
• Ability to integrate images into reports	installed at client sites	installed at client sites	installed at client sites
• Receipt and transmission of images via remote microscopy/via telepathology	installed at client sites/installed at client sites	installed at client sites/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
• Web-based access for order entry/specimen or case status/patient reports	installed at client sites (all 3 features)	installed at client sites (all 3 features)	installed at client sites (all 3 features)
• Natural language search capability/Sound-alike retrieval of patient history	in testing/installed at client sites	under development/under development	installed at client sites/installed at client sites
• Produce management reports	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	available via Epic Resolute	available via a third party	not available for this software
• Interface to billing firm that produces bills and invoices, procures payment	installed at client sites	installed at client sites	installed at client sites
• Inbound result-reporting interface to receive discrete results from external labs 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
• Report sent to EHR as PDF for clinician	installed at client sites	installed at client sites	installed at client sites
• Partin tables for prostate cancer assessment/Gleason score calculations	in testing/installed at client sites	under development/available but not installed	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	installed at client sites
• Client services module or CRM software	available via Epic Cheers	under development	installed at client sites
• Consultation management and reporting	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	installed at client sites
• Business analytics/Management dashboard	installed at client sites/installed at client sites	under development/installed at client sites	installed at client sites/installed at client sites
Approximate percentage of sites using result-reporting interfaces to external systems based on transmission of 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 (provide current LOINC dictionary with install)	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)
Ability to bidirectionally interface to select vendors' pathology information systems	yes	yes	yes
Voice-recognition products that interface or integrate with AP system	Nuance, 3M M*Modal, Voicebrook	Nuance, Voisis, Voicebrook, Exprivia, others	Nuance Dragon
PACS that interface or integrate with AP system	Leica, Inspirata, Corista, Philips, Sectra	Agfa, Philips	none
Digital pathology or WSI systems that interface with AP system to acquire images	Leica, Inspirata, Corista, Philips, Sectra	Leica, 3DHistech, Hamamatsu, Roche, Philips (some functionality built into AP system)	Leica
AI or other image-analysis systems that interface with AP system to analyze digital images	—	Proscia	none
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, workflow configuration, tailored worklists	ad hoc query tools, user-defined interfaces, dictionary settings, workflow configuration, tailored worklists	ad hoc query tools, user-defined interfaces, dictionary settings, read/write privileges, workflow configuration, tailored worklists, rules engine, dashboards, others
Distinguishing product features (supplied by company)	<ul style="list-style-type: none"> <li>integrated disease reporting for external clients and in-house physicians</li> <li>single database across all lab specialties and imaging: RIS, AP, CP, molecular, NGS</li> </ul>	<ul style="list-style-type: none"> <li>full Web solution with integrated slide viewer; remote microscopy and telepathology; track sterilization, disinfection, cleaning of medical devices, more</li> <li>workflow design, terminology, and SOPs customizable</li> </ul>	<ul style="list-style-type: none"> <li>customer-configurable workflow tools: workflow designer, dashboards, interoperability tools</li> <li>full integration with molecular and other lab department workflows</li> </ul>
*based on December 2023 survey deadline Note: a dash as an answer means company did not answer question or question is not applicable		<sup>†</sup> seeking U.S. "partner" labs for implementations	

Part 4 of 7	<b>LigoLab Information Systems</b> Suren Avunjian suren@ligolab.com Glendale, CA 800-544-6522 www.ligolab.com	<b>NetSoft</b> Byron Davis bdavis@netsoftusa.com Snellville, GA 678-325-2909 www.netsoftusa.com	<b>NovoPath</b> Promise Okeke sales@novopath.com Bridgewater, NJ 732-329-3209 www.novopath.com
Name of anatomic pathology system	LigoLab AP/LIS & RCM	IntelliPath Pro	NovoPath 360 <sup>†</sup>
How AP system functionality is deployed	remote hosting or local server and software (client option)	remote hosting	remote hosting
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 and EHR
Company's AP system and clinical LIS use same operating system, database, and programming language	yes	—	—
Year company began selling AP systems	2006 (began selling LigoLab AP/LIS & RCM in 2006)	2000 (began selling IntelliPath Pro in 2021)	— (began selling NovoPath 360 in 2019)
Most recent go-live of this AP system at a client site*	November 2023	November 2023	December 2023
Last product release or update for featured AP system*	November 2023 (version LigoLab AP/LIS & RCM 2023.3)	November 2023 (version 1.6.246.4/1.31.27)	October 2023 (version N360.V.6.28.2323)
Total No. of contracts for sites operating AP system	98	17	93
• No. of sales and sites that went live on system between Dec. 2022–Nov. 2023	14 sales/42 sites went live	19 sales/15 sites went live	19 sales/12 sites went live
No. of sites operating AP system (hospitals/independent labs/clinics or group practices/other U.S. sites/foreign sites)	263 (0/263/0/0/0)	22 (1/21/0/0/0)	105 (0/0/105/0/0)
Foreign locations where company actively markets AP system	none	UK, Europe	Europe, Middle East, Asia (installed in UK, Europe, Australia, Saudi Arabia, Pakistan, Dubai)
Human languages (other than English) supported by AP system	—	—	German, Spanish
Approximate No. of employees in entire company	77	9	63
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	—
Range in No. of surgical pathology cases per year in installed sites	10,000–500,000	5,000–160,000	—
Range in No. of gynecologic cytology cases per year in installed sites	30,000–700,000	3,000–40,000	—
Programming languages and development applications or environments	Java, JavaScript	HTML, CSS, JavaScript, C#	Visual Basic 6, Visual Basic .Net, C#, JavaScript
Operating systems	Microsoft Windows, Mac OS, Linux	Microsoft Windows, Mac OS, Unix, Linux	Microsoft Windows
Databases	Microsoft SQL	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/available but not installed	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
• Deceased patient (i.e. morgue) management	installed at client sites	not available for this software	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
• Tracking of specimens before arrival in lab	installed at client sites	installed at client sites	installed at client sites
• Block and slide tracking in lab/Block and slide 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
• Electronic transmission of frozen section diagnoses into OR	installed at client sites	installed at client sites	installed at client sites
• Tracking of frozen section turnaround time	installed at client sites	installed at client sites	installed at client sites
• Assignment of specimens to subspecialty teams or services	installed at client sites	installed at client sites	installed at client sites
• Print two-dimensional barcodes/Word processing using pathology templates	installed at client sites/installed at client sites	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• Voice entry of gross description/Voice entry of final diagnosis	available via a third party/available via a third party	available via a third party/available via a third party	installed at client sites/installed at client sites
• Voice-actuated commands to eliminate mouse clicks	available via a third party	available via a third party	installed at client sites
• Ability to integrate images into reports	installed at client sites	installed at client sites	installed at client sites
• Receipt and transmission of images via remote microscopy/via telepathology	installed at client sites/installed at client sites	installed at client sites/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
• Web-based access for order entry/specimen or case status/patient reports	installed at client sites (all 3 features)	installed at client sites (all 3 features)	installed at client sites (all 3 features)
• Natural language search capability/Sound-alike retrieval of patient history	installed at client sites/installed at client sites	installed at client sites/under development	installed at client sites/installed at client sites
• Produce management reports	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	under development	installed at client sites
• Interface to billing firm that produces bills and invoices, procures payment	installed at client sites	installed at client sites	installed at client sites
• Inbound result-reporting interface to receive discrete results from external labs 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
• Report sent to EHR as PDF for clinician	installed at client sites	installed at client sites	installed at client sites
• Partin tables for prostate cancer assessment/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	available via a third party	installed at client sites
• Client services module or CRM software	installed at client sites	under development	installed at client sites
• Consultation management and reporting	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
Approximate percentage of sites using result-reporting interfaces to external systems based on transmission of formatted (e.g. PDF or CDA) results	100%	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)
Ability to bidirectionally interface to select vendors' pathology information systems	yes	yes	yes
Voice-recognition products that interface or integrate with AP system	Nuance Dragon Dictate, Dolby Fusion Voice	Nuance Dragon NaturallySpeaking, Voicebrook	Nuance Dragon NaturallySpeaking, 3M M*Modal, Voicebrook, Dolby Fusion Narrate, NVoq SayIT
PACS that interface or integrate with AP system	none	none	none
Digital pathology or WSI systems that interface with AP system to acquire images	Lumea, Leica, Philips, Agilent Dako, Roche, Proscia, Hamamatsu	Leica, Philips, Roche	Leica, Proscia, Hamamatsu, Motic, OptraScan
AI or other image-analysis systems that interface with AP system to analyze digital images	Proscia, Ibex, PathAI	Paige	Paige, PathAI, Proscia
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, workflow configuration, tailored worklists, rules engine, others	ad hoc query tools, dictionary settings	ad hoc query tools, user-defined interfaces, dictionary settings, workflow configuration, tailored worklists, dashboards, reports, others
Distinguishing product features (supplied by company)	<ul style="list-style-type: none"> <li>LigoLab platform offers integrated solutions for anatomic pathology, clinical pathology, molecular diagnostics</li> <li>LigoLab shares risk of successful implementation and sustainable growth in revenue and margins with clients</li> </ul>	<ul style="list-style-type: none"> <li>customizable dashboard to help with workflow efficiencies</li> <li>results produced quickly using a powerful internal macro system</li> </ul>	<ul style="list-style-type: none"> <li>effortlessly add ancillary tests to AP workflows and automatically compile and update reports</li> <li>put control back in the hands of the lab with ad hoc robust configurabilities in the LIS</li> </ul>

\*based on December 2023 survey deadline  
Note: a dash as an answer means company did not answer question or question is not applicable

<sup>†</sup>formerly NovoPath LIS; NovoPath 360 also marketed by Altera, Frontrunner

Part 5 of 7	Oracle Health Laurel Beshel laurel.beshel@oracle.com Austin, TX 800-392-2999 www.oracle.com/health	Orchard Software Corp. Steve Hurwitz shurwitz@orchardsoft.com Carmel, IN 800-856-1948 www.orchardsoft.com	Orchard Software Corp. Steve Hurwitz shurwitz@orchardsoft.com Carmel, IN 800-856-1948 www.orchardsoft.com
Name of anatomic pathology system	Oracle Health Anatomic Pathology†	Orchard Enterprise Pathology	Orchard Pathology
How AP system functionality is deployed	remote hosting or local server and software (client option)	remote hosting or local server and software (client option)	remote hosting or local server and software (client option)
Configuration of AP system	available as a dedicated module for Oracle's clinical LIS and EHR 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 and EHR	available as a standalone product designed to interface with any company's LIS and EHR
Company's AP system and clinical LIS use same operating system, database, and programming language	yes	yes	yes
Year company began selling AP systems	1982, as Cerner (Cerner began selling Millennium PathNet [now Oracle Health Anatomic Pathology] in 1997)	2006 (began selling Orchard Enterprise Pathology in 2022)	2006 (began selling Orchard Pathology in 2006)
Most recent go-live of this AP system at a client site*	November 2023	September 2023	February 2023
Last product release or update for featured AP system*	November 2023 (version 2018.14.21)	October 2023 (version V10.3.231005)	October 2023 (version V14.231030)
Total No. of contracts for sites operating AP system	—	2	121
No. of sales and sites that went live on system between Dec. 2022–Nov. 2023	—	1 sale/1 site went live	2 sales/2 sites went live
No. of sites operating AP system (hospitals/independent labs/clinics or group practices/other U.S. sites/foreign sites)	—	1 (1/0/0/0/0)	121 (19/45/45/12—public health labs, research, veterinary/0)
Foreign locations where company actively markets AP system	Middle East, Canada, Latin America, Europe, UK, others (installed in Australia, Brazil, many other locations)	none	none
Human languages (other than English) supported by AP system	British-English, French, German, Spanish	—	—
Approximate No. of employees in entire company	164,000	274	274
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)	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	—	8,000–23,000	8,000–150,000
Range in No. of gynecologic cytology cases per year in installed sites	—	24,000	11,000–150,000
Programming languages and development applications or environments	Java, C++, C#, JavaScript	Java	4D, Java, C++
Operating systems	Microsoft Windows, Unix, AIX	Microsoft Windows	Microsoft Windows
Databases	Oracle	SQL	4D
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/not available for this software	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• Deceased patient (i.e. morgue) management	installed at client sites	not available for this software	not available for this software
• Molecular pathology testing and reporting	available via Oracle Health Laboratory Sequence	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
• Tracking of specimens before arrival in lab	installed at client sites	installed at client sites	installed at client sites
• Block and slide tracking in lab/Block and slide 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
• Electronic transmission of frozen section diagnoses into OR	not available for this software	installed at client sites	installed at client sites
• Tracking of frozen section turnaround time	not available for this software	installed at client sites	installed at client sites
• Assignment of specimens to subspecialty teams or services	not available for this software	installed at client sites	installed at client sites
• Print two-dimensional barcodes/Word processing using pathology templates	installed at client sites/installed at client sites	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• Voice entry of gross description/Voice entry of final diagnosis	not avail. for this software/not avail. for this software	available via a third party/available via a third party	available via a third party/available via a third party
• Voice-actuated commands to eliminate mouse clicks	available via a third party	available via a third party	available via a third party
• Ability to integrate images into reports	installed at client sites	available but not installed	installed at client sites
• Receipt and transmission of images via remote microscopy/via telepathology	installed at client sites/installed at client sites	not avail. for this software/not avail. for this software	not avail. for this software/not avail. for this software
• Electronic signature	installed at client sites	installed at client sites	installed at client sites
• Web-based access for order entry/specimen or case status/patient reports	available via Oracle Health provider portal/not available for this software/available via Oracle Health provider portal	installed at client sites (all 3 features)	installed at client sites (all 3 features)
• Natural language search capability/Sound-alike retrieval of patient history	installed at client sites/installed at client sites	not avail. for this software/not avail. for this software	not avail. for this software/not avail. for this software
• Produce management reports	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	available via Oracle Health Revenue Cycle	not available for this software	not available for this software
• Interface to billing firm that produces bills and invoices, procures payment	installed at client sites	installed at client sites	installed at client sites
• Inbound result-reporting interface to receive discrete results from external labs and store them in patient record	available via Oracle Health Reference Lab Network	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
• Report sent to EHR as PDF for clinician	installed at client sites	installed at client sites	installed at client sites
• Partin tables for prostate cancer assessment/Gleason score calculations	not avail. for this software/not avail. for this software	under development/under development	installed at client sites/installed at client sites
• Synoptic reporting for microscopic examination/for gross examination	installed at client sites/not available for this software	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	not available for this software
• Client services module or CRM software	available via Oracle Health Outreach Services	installed at client sites	not available for this software
• Consultation management and reporting	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
Approximate percentage of sites using result-reporting interfaces to external systems based on transmission of formatted (e.g. PDF or CDA) results	—	100%	70%
Software provides indexed field in each test definition for LOINC code	no (but 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)	yes	yes
Ability to bidirectionally interface to select vendors' pathology information systems	yes	yes	yes
Voice-recognition products that interface or integrate with AP system	Voicebrook, Nuance Dragon NaturallySpeaking	NVoq SayIt, Nuance Dragon, Dolbey Fusion Narrate, Voicebrook VoiceOver, 3M M*Modal Fluency Direct	NVoq SayIt, Nuance Dragon NaturallySpeaking, Dolbey Fusion Narrate, Voicebrook VoiceOver, others
PACS that interface or integrate with AP system	Sectra	none	none
Digital pathology or WSI systems that interface with AP system to acquire images	Leica, Sectra, Paige, Gestalt	none	Leica Aperio, Sectra, Indica Labs Halo
AI or other image-analysis systems that interface with AP system to analyze digital images	none	none	none
Client gets copy of source code/User group that meets on a set schedule	no/yes (via webinar)	escrow/yes (via webinar)	escrow/yes (via webinar)
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, dictionary settings, workflow configuration, tailored worklists, Oracle Health MPage	ad hoc query tools, user-defined interfaces, dictionary settings, workflow configuration, tailored worklists, rules-based decision-making technology, others	ad hoc query tools, dictionary settings, workflow configuration, tailored worklists, rules-based decision-making technology, others
Distinguishing product features (supplied by company)	<ul style="list-style-type: none"> <li>more than 40 years of innovation in the laboratory and pathology markets</li> <li>Oracle is using its broad scope of technologies beyond the LIS to transform health care</li> </ul>	<ul style="list-style-type: none"> <li>ability to design unique workflows</li> <li>robust rules and options for patient report formatting</li> </ul>	<ul style="list-style-type: none"> <li>single all-inclusive system that uses same database for clinical and pathology</li> <li>report data structured for standardization and synoptic reporting</li> </ul>

\*based on December 2023 survey deadline  
Note: a dash as an answer means company did not answer question or question is not applicable

†formerly Millennium PathNet Anatomic Pathology

Part 6 of 7	Psyche Systems Corp. Kyle Anderson kylea@psychesystems.com Hopkinton, MA 800-345-1514 www.psychesystems.com	SCC Soft Computer Ellie Vahman ellie@softcomputer.com Clearwater, FL 800-763-8352 www.softcomputer.com	VitalAxis Tharak Krishnamurthy sales@vitalaxis.com Toms River, NJ 866-441-0268 www.vitalaxis.com
Name of anatomic pathology system	WindoPath Essential	SoftPathDx <sup>†</sup>	VitalDx LIS <sup>†</sup>
How AP system functionality is deployed	remote hosting or local server and software (client option) or hybrid model	remote hosting or local server and software (client option)	remote hosting
Configuration of AP system	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	available as a dedicated module for VitalAxis' clinical LIS and as a standalone product designed to interface with any company's LIS and EHR
Company's AP system and clinical LIS use same operating system, database, and programming language	not applicable	—	yes
Year company began selling AP systems	1983 (began selling WindoPath Essential in 1995)	1993 (began selling SoftPathDx in 2010)	2007 (began selling VitalDx LIS in 2007)
Most recent go-live of this AP system at a client site*	December 2023	May 2023	October 2023
Last product release or update for featured AP system*	September 2023 (version e. 1090)	October 2023 (version 4.1.x)	September 2023 (version V6.87 SP24)
Total No. of contracts for sites operating AP system	—	126	180
No. of sales and sites that went live on system between Dec. 2022–Nov. 2023	—	1 sale/4 sites went live	8 sales/7 sites went live
No. of sites operating AP system (hospitals/independent labs/clinics or group practices/other U.S. sites/foreign sites)	—	498 (194/19/37/0/248)	154 (2/90/62/0/0)
Foreign locations where company actively markets AP system	Canada, Mexico (installed in Canada)	worldwide (installed in Australia, Canada, France, Jamaica, Hong Kong, Indonesia, Israel, Malaysia, Singapore)	none
Human languages (other than English) supported by AP system	—	French, Hebrew	—
Approximate No. of employees in entire company	<50	2,000	—
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 (complete list 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	—	2,000–600,000	12,000–300,000
Range in No. of gynecologic cytology cases per year in installed sites	—	2,000–175,000	12,000–300,000
Programming languages and development applications or environments	Visual Basic, Visual Basic .Net, Smalltalk	C, C++, Java, Microsoft .Net, HTML5-based portal servers: IBM AIX, Red Hat Linux; workstations: Microsoft Windows, Web based	.Net Suite (C#), Java, HTML, JavaScript
Operating systems	Microsoft	Windows, Web based	Microsoft Windows, Mac OS, Linux
Databases	Microsoft SQL	Oracle, PostgreSQL	SQL Server 2022
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	not avail. for this software/not avail. for this software
• Deceased patient (i.e. morgue) management	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
• Tracking of specimens before arrival in lab	installed at client sites	available via SCC's SoftTrack	available but not installed
• Block and slide tracking in lab/Block and slide storage and retrieval	installed at client sites/installed at client sites	installed at client sites/available via SCC's SoftBiobank	installed at client sites/installed at client sites
• Electronic transmission of frozen section diagnoses into OR	installed at client sites	installed at client sites	—
• Tracking of frozen section turnaround time	installed at client sites	installed at client sites	installed at client sites
• Assignment of specimens to subspecialty teams or services	installed at client sites	installed at client sites	installed at client sites
• Print two-dimensional barcodes/Word processing using pathology templates	installed at client sites/installed at client sites	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• Voice entry of gross description/Voice entry of final diagnosis	available via a third party/available via a third party	installed at client sites/installed at client sites	available via a third party/available via a third party
• Voice-actuated commands to eliminate mouse clicks	available via a third party	available via a third party	available via a third party
• Ability to integrate images into reports	installed at client sites	installed at client sites	installed at client sites
• Receipt and transmission of images via remote microscopy/via telepathology	installed at client sites/installed at client sites	installed at client sites/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
• Web-based access for order entry/specimen or case status/patient reports	installed at client sites (all 3 features)	installed at client sites/available via SCC's SoftTrack/ installed at client sites	installed at client sites (all 3 features)
• Natural language search capability/Sound-alike retrieval of patient history	installed at client sites/installed at client sites	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• Produce management reports	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 firm that produces bills and invoices, procures payment	installed at client sites	installed at client sites	installed at client sites
• Inbound result-reporting interface to receive discrete results from external labs 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
• Report sent to EHR as PDF for clinician	installed at client sites	installed at client sites	installed at client sites
• Partin tables for prostate cancer assessment/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	installed at client sites
• Client services module or CRM software	available via a third party	installed at client sites	installed at client sites
• Consultation management and reporting	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	available via SCC's SoftBI/available via SCC's SoftBI	installed at client sites/installed at client sites
Approximate percentage of sites using result-reporting interfaces to external systems based on transmission of formatted (e.g. PDF or CDA) results	—	100%	70%
Software provides indexed field in each test definition for LOINC code	yes	yes (provide current LOINC dictionary with install)	yes (provide current LOINC dictionary with install)
AP system supports use of SNOMED CT	yes (for all cases)	yes (for all cases)	no
System can auto. send tumor diagnoses to regional or state tumor registry using NAACCR Pathology Lab Electronic Reporting, vol. V, version 4.0	yes	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)
Ability to bidirectionally interface to select vendors' pathology information systems	yes	yes	yes
Voice-recognition products that interface or integrate with AP system	—	Voicebrook, Nuance Dragon, eScription, others	Nuance Dragon
PACS that interface or integrate with AP system	Intelrad, Philips, Change Healthcare, Novarad, GE, Fuji	Philips IMS, Sectra, Leica Aperio Versa	Lumea
Digital pathology or WSI systems that interface with AP system to acquire images	Philips	Leica Aperio, Philips, open source/homegrown	Lumea, Sectra
AI or other image-analysis systems that interface with AP system to analyze digital images	—	Ibex	Sectra
Client gets copy of source code/User group that meets on a set schedule	escrow/yes (in person)	escrow/yes (in person, via webinar, and via conference call)	no/yes (via webinar, via conference call, on a need basis)
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, workflow configuration, tailored worklists	ad hoc query tools, user-defined interfaces, dictionary settings, read/write privileges, workflow engine, rules engine, test protocol designer, security settings, others	ad hoc query tools; user-defined interfaces; dictionary settings; read/write privileges; administrative tools to customize workflows, screen designs, reports, more
Distinguishing product features (supplied by company)	<ul style="list-style-type: none"> <li>highly customizable in every aspect of the software, with thousands of user preferences</li> <li>OneVersion: new features released regularly with minimal downtime and at no additional cost</li> </ul>	<ul style="list-style-type: none"> <li>full integration with digital pathology and genetics/NGS platforms</li> <li>time-saving automated integrated content reporting auto-compiled from multiple sources</li> </ul>	<ul style="list-style-type: none"> <li>multiple specialties, including pathology, molecular, genetics, NGS, and clinical</li> <li>fully integrated and connected software for physicians, send-out labs, external pathologists</li> </ul>

\*based on December 2023 survey deadline  
Note: a dash as an answer means company did not answer question or question is not applicable

<sup>†</sup> formerly SoftPath; SoftPathDx also marketed by SCC-designated consultants and international distributors/agents

<sup>†</sup> VitalDx LIS also marketed by P4 Diagnostix, Miraca Life Sciences, PLUS Diagnostix

Part 7 of 7	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	WebPathLab	XiFin LIS
How AP system functionality is deployed	remote hosting	remote hosting
Configuration of AP system	available as a standalone product designed to interface with any company's HL7-capable LIS and EHR	available as a dedicated module for XiFin's clinical LIS
Company's AP system and clinical LIS use same operating system, database, and programming language	yes	yes
Year company began selling AP systems	— (began selling WebPathLab in 2000)	2004 (began selling XiFin LIS in 2007)
Most recent go-live of this AP system at a client site*	August 2023	November 2023
Last product release or update for featured AP system*	August 2023 (version 2i-6)	November 2023 (version 9.12)
Total No. of contracts for sites operating AP system	46	84
No. of sales and sites that went live on system between Dec. 2022–Nov. 2023	3 sales/3 sites went live	5 sales/3 sites went live
No. of sites operating AP system (hospitals/independent labs/clinics or group practices/other U.S. sites/foreign sites)	46 (4/33/0/0/9)	96 (0/65/23/1–veterinary pathology/7)
Foreign locations where company actively markets AP system	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)	none
Approximate No. of employees in entire company	10	848
Company provides list of client sites to potential customers on request	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
Range in No. of surgical pathology cases per year in installed sites	2,500–180,000	5,250–223,000
Range in No. of gynecologic cytology cases per year in installed sites	800–50,000	15,000–75,000
Programming languages and development applications or environments	ASP .Net, AJAX, Python, JavaScript	C#, .Net
Operating systems	Microsoft	Microsoft Windows
Databases	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
• Autopsy information system/Autopsy measurements, organ weights	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• Deceased patient (i.e. morgue) management	installed at client sites	not available for this software
• Molecular pathology testing and reporting	installed at client sites	installed at client sites
• Scan and store manual requisitions	installed at client sites	installed at client sites
• Tracking of specimens before arrival in lab	installed at client sites	installed at client sites
• Block and slide tracking in lab/Block and slide storage and retrieval	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• Electronic transmission of frozen section diagnoses into OR	installed at client sites	installed at client sites
• Tracking of frozen section turnaround time	installed at client sites	installed at client sites
• Assignment of specimens to subspecialty teams or services	installed at client sites	installed at client sites
• Print two-dimensional barcodes/Word processing using pathology templates	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• Voice entry of gross description/Voice entry of final diagnosis	available via a third party/available via a third party	available via a third party/available via a third party
• Voice-actuated commands to eliminate mouse clicks	available via a third party	available via a third party
• Ability to integrate images into reports	installed at client sites	installed at client sites
• Receipt and transmission of images via remote microscopy/via telepathology	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• Electronic signature	installed at client sites	installed at client sites
• Web-based access for order entry/specimen or case status/patient reports	installed at client sites (all 3 features)	installed at client sites (all 3 features)
• Natural language search capability/Sound-alike retrieval of patient history	installed at client sites/—	installed at client sites/installed at client sites
• Produce management reports	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	available but not installed	available via XiFin RPM
• Interface to billing firm that produces bills and invoices, procures payment	installed at client sites	installed at client sites
• Inbound result-reporting interface to receive discrete results from external labs and store them in patient record	installed at client sites	installed at client sites
• EHR interface: admissions/discharge/transfer (ADT)	installed at client sites	installed at client sites
• Report sent to EHR as PDF for clinician	installed at client sites	installed at client sites
• Partin tables for prostate cancer assessment/Gleason score calculations	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
• CAP electronic cancer checklists automatically embedded	—	installed at client sites
• Client services module or CRM software	—	installed at client sites
• Consultation management and reporting	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
• LIS manager or lab employee can determine schedule under which management and patient reports are automatically compiled and run	—	under development
• Business analytics/Management dashboard	installed at client sites/installed at client sites	installed at client sites/installed at client sites
Approximate percentage of sites using result-reporting interfaces to external systems based on transmission of formatted (e.g. PDF or CDA) results	95%	85%
Software provides indexed field in each test definition for LOINC code	no	yes
AP system supports use of SNOMED CT	—	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)
Ability to bidirectionally interface to select vendors' pathology information systems	yes	yes
Voice-recognition products that interface or integrate with AP system	Nuance Dragon NaturallySpeaking, Voicebrook	Dolbey Fusion Narrate, Voicebrook, Nuance Dragon NaturallySpeaking
PACS that interface or integrate with AP system	none	—
Digital pathology or WSI systems that interface with AP system to acquire images	Leica Aperio, 3DHitech	Leica, Hamamatsu, Corista
AI or other image-analysis systems that interface with AP system to analyze digital images	PathologyWatch	Proscia, Paige
Client gets copy of source code/User group that meets on a set schedule	escrow (optional)/no	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	customization of pathology reports, slide/cassette labels, management reports; control of user access, audit log access, dictionary content	ad hoc query tools; user-defined interfaces; dictionary settings; read/write privileges; workflow configuration; tailored worklists; user-managed test menu, testing protocols, security privileges, more
Distinguishing product features (supplied by company)	<ul style="list-style-type: none"> <li>100% Web based; provides universal secure access</li> <li>fee can be pay-per-report at \$1.20 or unlimited reports with a licensing fee per pathologist; no limit on number of users</li> </ul>	<ul style="list-style-type: none"> <li>TC/PC workflow/revenue split management enabled with digital pathology</li> <li>cloud and analytics technology supports high-volume, high-complexity, multispecialty labs</li> </ul>

\*based on December 2023 survey deadline

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