

Part 1 of 7	<b>Altera Digital Health</b> <b>Susan Eben</b> susan.eben@alterahealth.com <b>Niagra Falls, NY</b> www.alterahealth.com	<b>Clinical Software Solutions</b> <b>Elaine Nordhues</b> info@clin1.com <b>Queen Creek, AZ</b> <b>480-888-9447</b> www.clin1mobile.net	<b>Clinisys</b> <b>Amber Kazansky</b> amber.kazansky@clinisys.com <b>Tucson, AZ</b> <b>520-570-2000</b> www.clinisys.com
Name of laboratory information system	Altera Lab <sup>†</sup>	CLIN1 Laboratory	Clinisys Clinical Laboratory <sup>†</sup>
How LIS functionality is deployed	remote hosting or local hosting if Data Innovations server on site	remote hosting and/or local server/software	remote hosting or local server/software
Company provides list of client sites to potential customers on request	yes (partial list of comparable sites but prospective clients must sign a nondisclosure agreement)	yes (partial list of comparable sites but prospective clients must sign a nondisclosure agreement)	yes (partial list of comparable sites with no restrictions regarding its use)
Updates covered by standard software maintenance fee	all updates	some updates (specific customizations charged separately)	all updates
• Schedule for providing standard software updates to clients	annually or as needed	annually	semiannually
• Clients must install updates in specified timespans to avoid maintenance fee increase	yes (support current release and one back; upgrades to current version required)	no	no
• Fee for software modifications to comply with federal regulations and laws	standard (no charge)	standard (no charge)	standard (no charge)
Year company began selling LISs (any brand or model)	2022	1987	1979
Most recent LIS go-live at a client site (based on August 2023 survey deadline)	June 2023	July 2023	January 2023
Last product release or update for featured LIS	June 2023, version 23.1	July 2023, version 12.3	April 2023, version 2023.1
Total No. of contracts for sites operating LIS worldwide	45	56	140+
• No. of sales and installations of LIS between August 2022–July 2023	6 sales/5 installations	4 sales/4 installations	25 sales
Total No. of sites operating LIS in the U.S. (hospitals/independent labs/clinics or group practices/public health labs/other sites)	43 (42/1/0/0/0)	56 (0/53/0/0/3—education)	—
Percentage of high-volume* U.S. sites installed/Low-volume** U.S. sites installed	50%/50%	10%/90%	—
Foreign locations where company actively markets LIS	worldwide (English-speaking countries only)	none	worldwide
• Foreign locations where LIS has been sold	Qatar, Saudi Arabia	Canada, United Kingdom	—
• Human languages (other than English) supported by LIS	—	—	—
Approximate No. of employees in entire company	5,500	—	1,400+
Central hardware or service type	Hewlett-Packard, IBM, Dell, Azure	client/server, software-as-a-service	service model accessed by a Web browser
Programming languages and development applications or environments	C, C#, Java, JavaScript, Perl, HTML, CSS	4GL, C#	.Net 6, C#, SQL, PL/SQL
Operating system(s)	Windows, Red Hat Enterprise Linux, Oracle Linux	Microsoft Windows	Microsoft Windows
Databases and tools/System includes full transaction logging	Oracle/yes	Microsoft SQL/yes	Oracle Enterprise/no
Features/modules incorporated in product:			
• Chemistry/Hematology/Bar-coded collection labels	installed at client sites (all 3 features)	installed at client sites (all 3 features)	installed at client sites (all 3 features)
• Microbiology/Public health microbiology	installed at client sites/installed at client sites	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• Blood bank donor/Blood bank transfusion	available via WellSky/available via WellSky	available but not installed/available but not installed	installed at client sites/installed at client sites
• Surgical pathology/Cytology	available via NovoPath/available via NovoPath	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• Molecular pathology/Cytogenetics/Flow cytometry	available via NovoPath/available via NovoPath/available via NovoPath	installed at client sites/installed at client sites/available but not installed	installed at client sites/installed at client sites/installed at client sites
• EHR interface for admission/discharge/transfer (ADT)	installed at client sites	installed at client sites	installed at client sites
• EHR interface for order entry/EHR interface for results 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
• EHR interface for packaging results into PDF format	installed at client sites	installed at client sites	installed at client sites
• EHR interface for packaging results into CDA1 format/CDA2 format	not available/not available	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• Ad hoc reporting/Rules-based 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
• Management and statistical reporting/Client services or CRM module	installed at client sites/not available	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• POL link or Web portal to physician offices/Patient Web portal	not available/not available	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• Commercial reference lab functionality/Compliance checking	installed at client sites/not available	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• Comprehensive billing and accounts receivable or RCM	not available	installed at client sites	installed at client sites
• Materials management and inventory/Test partition	not available/—	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• Remote faxing/Remote printing	installed at client sites/installed at client sites	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• HIPAA-standard transaction formats	installed at client sites	installed at client sites	installed at client sites
• Web-based remote inquiry of reports/Web access for order entry	not available/not available	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• Management and tracking of specimens in lab/Before arriving in lab	installed at client sites/installed at client sites	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• QA tools/Environmental health	installed at client sites/installed at client sites	installed at client sites/available but not installed	installed at client sites/installed at client sites
• Interfaces for sending orders from primary lab to reference lab, handling results return, and status updates	installed at client sites	installed at client sites	installed at client sites
• Business analytics/Clinical analytics	installed at client sites/installed at client sites	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• Ability to schedule patient for test collection/Patient-based test registration	not available/installed at client sites	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• Ability to coordinate with nurses for collections that phlebotomists cannot perform	installed at client sites	installed at client sites	installed at client sites
• Interfaces with public health databases using ELR as part of Promoting Interoperability	installed at client sites	installed at client sites	installed at client sites
• Results for tests run using different methods show method on clinical reports	installed at client sites	installed at client sites	installed at client sites
Barcode symbologies supported by LIS	Code 39, Code 128	Codabar (NW-7), Code 39, Code 128, DataMatrix (LIS also supports QR codes)	—
LIS can generate analytics for tests based on specific data elements	planned for future	planned for future	yes (based on all data in database)
Ability to use artificial intelligence (e.g., machine-learning software) with LIS	planned for future	yes (via interface to Amazon Rekognition)	planned for future
LIS can report lab data to public health agencies via automated electronic transmission using specified formats (e.g., HL7 2.5.1, LOINC, SNOMED, etc.) for:			
• Microbiology (culture and sensitivity)	yes	yes	yes
• Other reportable diseases (e.g., blood lead, immunology, etc.)	yes	yes	yes
• Tumor diagnosis and case data to regional cancer registry***	yes	no	yes
Other vendors' lab systems to which LIS bidirectionally interfaces in live sites	Cerner, Clinisys, NovoPath, Epic, Orchard, CPSI, others	Altera, Athena, eClinicalWorks, Epic, Orchard, others	—
Lab automation systems or workcells to which LIS has a direct interface	interface through Data Innovations to Beckman, Siemens, QuidelOrtho, Roche, Sysmex, many others	Beckman Coulter, Siemens, QuidelOrtho, Sysmex, Thermo Scientific, Olympus, Roche, Abbott, Tecan, others	Beckman Coulter, Siemens, QuidelOrtho, Sysmex, Olympus, Roche, Abbott, Bayer, Thermo Scientific, Tecan
LIS uses third-party middleware for LIS–instrument interfaces	yes, for all instrument interfaces (Data Innovations)	no (interface directly)	combination of direct interfaces and third-party middleware (Data Innovations)
LIS supports use of SNOMED CT	yes, for all cases	yes, for all cases	yes, for all cases
LIS automatically ingests and applies electronic updates of tables and rules from organizations and government agencies	planned for future	yes (LOINC, CPT, ICD-10; drug interactions)	yes
LIS allows for image capture, display, reporting	yes	yes	yes
LIS provides indexed field in each test definition for LOINC code	yes (provide LOINC dictionary free of charge with install)	yes	yes
Company provides LIS clients with positive patient ID software to identify patients and/or blood specimens collected at bedside	software to identify patients and blood specimens integrated in LIS—no additional fee	software to identify patients and blood specimens integrated in LIS—no additional fee	software to identify patients and blood specimens integrated in LIS—additional fee
• LIS interfaces to third-party positive patient ID software to identify patients and/or blood specimens collected at bedside	—	—	none
Client gets copy of source code/User group that meets on established schedule	escrow/yes (via webinar and conference call)	no/yes (via webinar and conference call)	escrow/yes (via conference call and in person)
Qualified users or third parties can modify or augment LIS functions or features	yes (client users and designated third parties)	no (all modifications made by vendor)	yes (client users)
Methods by which users can tailor LIS in their own setting	ad hoc query tools, user-defined interfaces, dictionary settings, read/write privileges, workflow configuration, tailored worklists, interface engine	ad hoc query tools, dictionary settings, workflow configuration	ad hoc query tools, user-defined interfaces, dictionary settings, workflow configuration, tailored worklists, rules engine
Distinguishing product features (supplied by company)	• fits well in most organizations: extremely scalable, flexible, customizable	• experienced and personalized support; customized workflows backed by powerful software	• handles environmental and clinical work naturally in the same system
*generate >500,000 billed tests annually, or >200 bed hospitals, or >500 requisitions per day	• substantially decreased total cost of ownership with availability of Linux platform	• multi-lab, multi-site, multi-use capable with client/patient portals and SMS/email notification	• Clinisys is a large independent global LIMS/LIS provider offering superior resources and expertise
**generate <500,000 billed tests annually, or <200 bed hospitals, or <500 requisitions per day			
***using NAACCR Pathology Laboratory Electronic Reporting, vol. V, version 4.0, April 2011 ed.			
Note: a dash as an answer means company did not respond or question is not applicable	<sup>†</sup> formerly Horizon Lab, McKesson Lab, Allscripts Lab		<sup>†</sup> formerly Sunquest Laboratory

Part 2 of 7	<b>Clinsis LLC</b> <b>Cedric Simon</b> cedric.simon@clinsis.com <b>Dover, DE</b> <b>765-276-3451</b> www.clinsis.com	<b>Comp Pro Med</b> <b>Dave McClung</b> dmcclung@comppromed.com <b>Santa Rosa, CA</b> <b>707-890-6589</b> www.comppromed.com	<b>CompuGroup Medical</b> <b>Gene Williamson</b> gene.williamson@cgm.com <b>Owings Mills, MD</b> <b>800-359-0911</b> www.cgm.com/us
Name of laboratory information system	Clinsis	Polytech LIS	CGM LABDAQ
How LIS functionality is deployed Company provides list of client sites to potential customers on request	remote hosting or local server/software yes (complete list but prospective clients must sign a nondisclosure agreement)	remote hosting or local server/software no (information is confidential)	remote hosting or local server/software yes (partial list of comparable sites with no restrictions regarding its use)
Updates covered by standard software maintenance fee • Schedule for providing standard software updates to clients • Clients must install updates in specified timespans to avoid maintenance fee increase • Fee for software modifications to comply with federal regulations and laws	all updates monthly no standard (no charge)	all updates every 6 months no standard (no charge)	all updates 2–3 per year no standard (no charge)
Year company began selling LISs (any brand or model) Most recent LIS go-live at a client site (based on August 2023 survey deadline) Last product release or update for featured LIS Total No. of contracts for sites operating LIS worldwide • No. of sales and installations of LIS between August 2022–July 2023 Total No. of sites operating LIS in the U.S. (hospitals/independent labs/clinics or group practices/public health labs/other sites) Percentage of high-volume* U.S. sites installed/Low-volume** U.S. sites installed	2005 June 2023 August 2023, version 16.1.4 42 4 sales/0 installations 0	1983 July 2023 February 2023, version 8.6.6 185 5 sales/5 installations 120 (2/72/46/0/0)	1991 August 2023 April 2023, version CGM LABDAQ 23.1 1,210 73 sales/77 installations 1,913 (63/447/1,344/3/56–ER, veterinary, student health, research, rehabilitation) not tracked
Foreign locations where company actively markets LIS • Foreign locations where LIS has been sold	Central America, Caribbean Dominican Republic, Trinidad and Tobago, Nicaragua, El Salvador, Honduras, Guatemala Spanish	Philippines, Africa, Bahamas Africa, Bhutan, Canada, Caribbean, Ethiopia, Philippines, Bahamas any supported by Windows operating system	none Dubai, Lilongwe, Virgin Islands, Tanzania, Iran
• Human languages (other than English) supported by LIS			none
Approximate No. of employees in entire company	5	8	9,200
Central hardware or service type Programming languages and development applications or environments Operating system(s) Databases and tools/System includes full transaction logging	Dell PowerEdge, dedicated server Java, JSP, JavaScript, SQL, JasperReports Linux MariaDB, MySQL/yes	any (client supported) C++, PHP, HTML, JavaScript Windows Pervasive, MySQL/yes	client/server (business grade) .Net Windows Server 2022, Windows 11 on workstations Microsoft SQL Server 2019/yes
Features/modules incorporated in product:			
• Chemistry/Hematology/Bar-coded collection labels	installed at client sites (all 3 features)	installed at client sites (all 3 features)	installed at client sites (all 3 features)
• Microbiology/Public health microbiology	installed at client sites/not available	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• Blood bank donor/Blood bank transfusion	in development/in development	not available/not available	not available/not available
• Surgical pathology/Cytology	installed at client sites/installed at client sites	installed at client sites/installed at client sites	available via CGM AP EASY (both features)
• Molecular pathology/Cytogenetics/Flow cytometry	in development/not available/not available	installed at client sites (all 3 features)	installed at client sites/not available/installed at client sites
• EHR interface for admission/discharge/transfer (ADT)	installed at client sites	installed at client sites	installed at client sites
• EHR interface for order entry/EHR interface for results 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
• EHR interface for packaging results into PDF format	installed at client sites	installed at client sites	installed at client sites
• EHR interface for packaging results into CDA1 format/CDA2 format	installed at client sites/not available	not available/not available	not available/not available
• Ad hoc reporting/Rules-based 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
• Management and statistical reporting/Client services or CRM module	installed at client sites/not available	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• POL link or Web portal to physician offices/Patient Web portal	installed at client sites/installed at client sites	installed at client sites/installed at client sites	available via CGM LABNEXUS (both features)
• Commercial reference lab functionality/Compliance checking	in development/installed at client sites	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• Comprehensive billing and accounts receivable or RCM	installed at client sites	installed at client sites	available via CGM DAQ BILLING, CGM ARIA RCM
• Materials management and inventory/Test partition	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 faxing/Remote printing	in development/installed at client sites	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• HIPAA-standard transaction formats	in development	installed at client sites	installed at client sites
• Web-based remote inquiry of reports/Web access for order entry	installed at client sites/installed at client sites	installed at client sites/installed at client sites	available via CGM LABNEXUS (both features)
• Management and tracking of specimens in lab/Before arriving in lab	installed at client sites/installed at client sites	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• QA tools/Environmental health	installed at client sites/not available	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• Interfaces for sending orders from primary lab to reference lab, handling results return, and status updates	in development	installed at client sites	installed at client sites
• Business analytics/Clinical analytics	installed at client sites/installed at client sites	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• Ability to schedule patient for test collection/Patient-based test registration	installed at client sites/installed at client sites	installed at client sites/installed at client sites	not available/not available
• Ability to coordinate with nurses for collections that phlebotomists cannot perform	not available	installed at client sites	not available
• Interfaces with public health databases using ELR as part of Promoting Interoperability	not available	installed at client sites	installed at client sites
• Results for tests run using different methods show method on clinical reports	installed at client sites	installed at client sites	installed at client sites
Barcode symbologies supported by LIS	Code 128 (LIS also supports QR codes)	Codabar (NW-7), Code 39, Code 128, DataMatrix (LIS also supports QR codes)	Codabar (NW-7), Code 39, Code 128, DataMatrix (LIS also supports QR codes)
LIS can generate analytics for tests based on specific data elements Ability to use artificial intelligence (e.g., machine-learning software) with LIS	yes (based on all data in database) planned for future	yes (based on all data in database) yes (via interface to DeepGlioma AI)	yes (based on all data in database) no
LIS can report lab data to public health agencies via automated electronic transmission using specified formats (e.g., HL7 2.5.1, LOINC, SNOMED, etc.) for:			
• Microbiology (culture and sensitivity)	no	yes	yes
• Other reportable diseases (e.g., blood lead, immunology, etc.)	no	yes	yes
• Tumor diagnosis and case data to regional cancer registry***	no	yes	no
Other vendors’ lab systems to which LIS bidirectionally interfaces in live sites	—	—	NovoPath, Oracle Health, Clinisys, Epic, Orchard, Psyche Systems, SimpleLIMS, Hex, others
Lab automation systems or workcells to which LIS has a direct interface	Beckman Coulter, Siemens, QuidelOrtho, Sysmex, Thermo Scientific, Abbott, Bayer, BioMérieux, others	Beckman Coulter, Siemens, QuidelOrtho, Sysmex, Abbott, Thermo Scientific	Beckman Coulter, Siemens, Roche Diagnostics, Abbott Diagnostics
LIS uses third-party middleware for LIS–instrument interfaces	no (interface directly)	no (interface directly)	combination of direct interfaces and third-party middleware (Data Innovations, Telcor, others)
LIS supports use of SNOMED CT	planned for future	for some types of cases (can be implemented by client through functionality within the LIS)	for some types of cases (result-level SNOMED supported)
LIS automatically ingests and applies electronic updates of tables and rules from organizations and government agencies LIS allows for image capture, display, reporting LIS provides indexed field in each test definition for LOINC code	planned for future yes yes	yes (LOINC, ICD, FDA NDC) yes yes (provide LOINC dictionary free of charge with install)	yes (CodeMap, CMS diagnosis codes) yes yes
Company provides LIS clients with positive patient ID software to identify patients and/or blood specimens collected at bedside • LIS interfaces to third-party positive patient ID software to identify patients and/or blood specimens collected at bedside	no —	planned for future —	no —
Client gets copy of source code/User group that meets on established schedule Qualified users or third parties can modify or augment LIS functions or features Methods by which users can tailor LIS in their own setting	no/no no (all modifications made by vendor) user-defined interfaces, dictionary settings, workflow configuration, tailored worklists	no/no yes (client users) ad hoc query tools, user-defined interfaces, dictionary settings, read/write privileges, workflow configuration, tailored worklists, built-in customizable report generator	escrow/yes (in person and via webinar) yes (client users) ad hoc query tools, user-defined interfaces, read/write privileges, workflow configuration, tailored worklists, user-configurable rules, field aliasing, others
Distinguishing product features (supplied by company) *generate >500,000 billed tests annually, or >200 bed hospitals, or >500 requisitions per day **generate <500,000 billed tests annually, or <200 bed hospitals, or <500 requisitions per day ***using NAACCR Pathology Laboratory Electronic Reporting, vol. V, version 4.0, April 2011 ed. Note: a dash as an answer means company did not respond or question is not applicable	• user friendly and intuitive; minimal training required • reliable and flexible, a complete HIS and RIS as well	• fast installation without skipping on robust tools; no phone trees for support calls • user friendly; 90% of work done on one screen	• advanced integration and connectivity capability with instruments, EHRs, billing software, more • intuitive navigation; powerful rules; data-mining queries for data analysis; experienced support staff

Part 3 of 7	<b>CompuGroup Medical</b> <b>Gene Williamson</b> gene.williamson@cgm.com <b>Owings Mills, MD</b> <b>800-359-0911</b> www.cgm.com/us	<b>CompuGroup Medical</b> <b>Gene Williamson</b> gene.williamson@cgm.com <b>Owings Mills, MD</b> <b>800-359-0911</b> www.cgm.com/us	<b>Epic</b> <b>Nick Trentadue</b> ntrentad@epic.com <b>Verona, WI</b> <b>608-271-9000</b> www.epic.com
Name of laboratory information system	CGM MEDICUS†	CGM SCHUYLAB†	Beaker
How LIS functionality is deployed	local server/software	local server/software	remote hosting and local server/software
Company provides list of client sites to potential customers on request	yes (partial list of comparable sites with no restrictions regarding its use)	yes (partial list of comparable sites with no restrictions regarding its use)	yes (complete list with no restrictions regarding its use)
Updates covered by standard software maintenance fee	all updates	all updates	all updates
• Schedule for providing standard software updates to clients	1–2 per year	1–2 per year	quarterly
• Clients must install updates in specified timespans to avoid maintenance fee increase	no	no	no
• Fee for software modifications to comply with federal regulations and laws	standard (no charge)	standard (no charge)	standard (no charge)
Year company began selling LISs (any brand or model)	2000	1991	1980
Most recent LIS go-live at a client site (based on August 2023 survey deadline)	August 2023	July 2023	July 2023
Last product release or update for featured LIS	July 2023, version 4.8.83	June 2023, version 4.0	May 2023, version May 2023
Total No. of contracts for sites operating LIS worldwide	379	414	298
• No. of sales and installations of LIS between August 2022–July 2023	50 sales/50 installations	28 sales/20 installations	35 sales/35 installations
Total No. of sites operating LIS in the U.S. (hospitals/independent labs/clinics or group practices/public health labs/other sites)	379 (0/0/379/0/0)	414 (67/111/213/0/23—schools, vendors, veterinary)	276 (266/9/tracked as hospitals/1/0)
Percentage of high-volume* U.S. sites installed/Low-volume** U.S. sites installed	0/100%	40%/60%	90%/10%
Foreign locations where company actively markets LIS	none	Guam, Caribbean, Canada, Africa, Pacific Rim, South East Asia, Mexico	Canada, UK, Singapore, Norway, Netherlands, Saudi Arabia, UAE, Belgium, Lebanon, Australia, others
• Foreign locations where LIS has been sold	—	Guam, Caribbean, Canada, Grenada, Ghana, Malaysia, Pacific Rim, South East Asia	Canada, UK, Singapore, Norway, Netherlands, Saudi Arabia, UAE, Belgium, Lebanon, Australia
• Human languages (other than English) supported by LIS	—	Spanish, Portuguese, Chinese, German, French, Italian	Norwegian, French, German, Finnish, Dutch, others
Approximate No. of employees in entire company	9,200	9,200	13,000
Central hardware or service type	client/server (business grade)	client/server (business grade)	HP 9000, HP Integrity, Sun Sparc, IBM p5 Series, others
Programming languages and development applications or environments	Visual Basic 6.0, C#, SQL, .Net	C	Caché, C#, ASP .Net, JavaScript
Operating system(s)	Windows 10, 11	Windows 10, 11	Unix, Windows, Linux
Databases and tools/System includes full transaction logging	Microsoft SQL/yes	FairCom C-Tree/no	Chronicles Extended Relational Database Management System/yes
Features/modules incorporated in product:			
• Chemistry/Hematology/Bar-coded collection labels	installed at client sites (all 3 features)	installed at client sites (all 3 features)	installed at client sites (all 3 features)
• Microbiology/Public health microbiology	not available/not available	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• Blood bank donor/Blood bank transfusion	not available/not available	installed at client sites/available but not installed	not available/not available
• Surgical pathology/Cytology	not available/not available	available via CGM AP EASY/installed at client sites	installed at client sites/installed at client sites
• Molecular pathology/Cytogenetics/Flow cytometry	not available/not available/not available	installed at client sites/not avail./installed at client sites	installed at client sites (all 3 features)
• EHR interface for admission/discharge/transfer (ADT)	installed at client sites	installed at client sites	installed at client sites
• EHR interface for order entry/EHR interface for results 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
• EHR interface for packaging results into PDF format	installed at client sites	installed at client sites	installed at client sites
• EHR interface for packaging results into CDA1 format/CDA2 format	not available/not available	installed at client sites/in development	installed at client sites/installed at client sites
• Ad hoc reporting/Rules-based 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
• Management and statistical reporting/Client services or CRM module	installed at client sites/not available	installed at client sites/available but not installed	installed at client sites/installed at client sites
• POL link or Web portal to physician offices/Patient Web portal	in development/in development	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• Commercial reference lab functionality/Compliance checking	not available/not available	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• Comprehensive billing and accounts receivable or RCM	not available	available via CGM ARIA RCM	installed at client sites
• Materials management and inventory/Test partition	not available/installed at client sites	installed at client sites/in development	not available/installed at client sites
• Remote faxing/Remote printing	not available/installed at client sites	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• HIPAA-standard transaction formats	installed at client sites	installed at client sites	installed at client sites
• Web-based remote inquiry of reports/Web access for order entry	not available/not available	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• Management and tracking of specimens in lab/Before arriving in lab	not available/installed at client sites	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• QA tools/Environmental health	installed at client sites/not available	installed at client sites/not available	installed at client sites/installed at client sites
• Interfaces for sending orders from primary lab to reference lab, handling results return, and status updates	installed at client sites	installed at client sites	installed at client sites
• Business analytics/Clinical analytics	not available/installed at client sites	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• Ability to schedule patient for test collection/Patient-based test registration	not available/not available	in development/in development	installed at client sites/installed at client sites
• Ability to coordinate with nurses for collections that phlebotomists cannot perform	not available	installed at client sites	installed at client sites
• Interfaces with public health databases using ELR as part of Promoting Interoperability	installed at client sites	installed at client sites	installed at client sites
• Results for tests run using different methods show method on clinical reports	not available	installed at client sites	installed at client sites
Barcode symbologies supported by LIS	Codabar (NW-7), Code 39, Code 128 (LIS also supports QR codes)	Codabar (NW-7), Code 39, Code 128, DataMatrix (LIS also supports QR codes)	Codabar (NW-7), Code 39, Code 128, DataMatrix (LIS also supports QR codes)
LIS can generate analytics for tests based on specific data elements	yes (based on all data in database)	yes (based on all data in database, except telephone number, email, employment status)	yes (based on all data in database)
Ability to use artificial intelligence (e.g., machine-learning software) with LIS	no	no	yes (deploy predictive models; integrate with large language models; interface to Paige, PathAI; more)
LIS can report lab data to public health agencies via automated electronic transmission using specified formats (e.g., HL7 2.5.1, LOINC, SNOMED, etc.) for:			
• Microbiology (culture and sensitivity)	no	yes	yes
• Other reportable diseases (e.g., blood lead, immunology, etc.)	yes (COVID only)	yes	yes
• Tumor diagnosis and case data to regional cancer registry***	no	no	yes
Other vendors’ lab systems to which LIS bidirectionally interfaces in live sites	—	Orchard Software	SCC, Oracle Health, Clinisys, Orchard, others
Lab automation systems or workcells to which LIS has a direct interface	none	Beckman Coulter, Siemens, QuidelOrtho, Sysmex, Thermo Scientific, Olympus, Roche, Abbott, Bayer	interface through Data Innovations to Beckman, Siemens, QuidelOrtho, Sysmex, Olympus, Roche, others
LIS uses third-party middleware for LIS–instrument interfaces	no (interface directly)	no (interface directly)	yes, for all instrument interfaces (DI, Abbott AMS)
LIS supports use of SNOMED CT	for some types of cases (COVID reporting)	yes, for all cases	yes, for all cases
LIS automatically ingests and applies electronic updates of tables and rules from organizations and government agencies	no	yes (CodeMap)	no
LIS allows for image capture, display, reporting	no	yes	yes
LIS provides indexed field in each test definition for LOINC code	yes	yes	yes (provide LOINC dictionary free of charge with install)
Company provides LIS clients with positive patient ID software to identify patients and/or blood specimens collected at bedside	no	no	software to identify patients and blood specimens integrated in LIS—no additional fee; Epic Rover
• LIS interfaces to third-party positive patient ID software to identify patients and/or blood specimens collected at bedside	—	—	—
Client gets copy of source code/User group that meets on established schedule	no/no	escrow/yes (in person and via webinar)	yes/yes (via webinar, conference call, and in person)
Qualified users or third parties can modify or augment LIS functions or features	no (all modifications made by vendor)	yes (client users)	yes (client users and designated third parties)
Methods by which users can tailor LIS in their own setting	ad hoc query tools, workflow configuration, tailored worklists	ad hoc query tools, user-defined interfaces, dictionary settings, tailored worklists	ad hoc query tools, user-defined interfaces, dictionary settings, read/write privileges, more
Distinguishing product features (supplied by company)			
*generate >500,000 billed tests annually, or >200 bed hospitals, or >500 requisitions per day	• cost-effective and easy for physician office labs to use	• optional, fully integrated billing system for any lab doing its own accounts receivables	• seamless native data transfer from LIS to EMR without need for interfaces or translation tables
**generate <500,000 billed tests annually, or <200 bed hospitals, or <500 requisitions per day	• seamless integration with a practice’s EHR and lab instruments	• ideal for multi-lingual labs and international markets	• suitable for all laboratory disciplines: core lab, microbiology, flow cytometry, cytology, more
***using NAACCR Pathology Laboratory Electronic Reporting, vol. V, version 4.0, April 2011 ed.	†formerly Medicus 4 by Medicus LIS	†formerly SchuyLab by Schuyler House	
Note: a dash as an answer means company did not respond or question is not applicable			





Part 5 of 7	<b>Oracle Health</b> <b>Dustin Greer</b> dustin.greer@oracle.com <b>Austin, TX</b> <b>800-633-0738</b> www.oracle.com/healthcare	<b>Orchard Software Corp.</b> <b>Steve Hurwitz</b> shurwitz@orchardsoft.com <b>Carmel, IN</b> <b>800-856-1948</b> www.orchardsoft.com	<b>Orchard Software Corp.</b> <b>Steve Hurwitz</b> shurwitz@orchardsoft.com <b>Carmel, IN</b> <b>800-856-1948</b> www.orchardsoft.com
Name of laboratory information system	Oracle Health Laboratory†	Orchard Enterprise Lab†	Orchard Harvest LIS
How LIS functionality is deployed Company provides list of client sites to potential customers on request	remote hosting or local server/software yes (partial list of comparable sites with no restrictions regarding its use)	remote hosting or local server/software yes (partial list of comparable sites with no restrictions regarding its use)	remote hosting or local server/software yes (partial list of comparable sites with no restrictions regarding its use)
Updates covered by standard software maintenance fee • Schedule for providing standard software updates to clients	all updates innovation releases quarterly; correction releases every 2 weeks	all updates quarterly	all updates quarterly
• Clients must install updates in specified timespans to avoid maintenance fee increase • Fee for software modifications to comply with federal regulations and laws	no standard (no charge)	no standard (no charge)	no standard (no charge)
Year company began selling LISs (any brand or model) Most recent LIS go-live at a client site (based on August 2023 survey deadline) Last product release or update for featured LIS Total No. of contracts for sites operating LIS worldwide • No. of sales and installations of LIS between August 2022–July 2023 Total No. of sites operating LIS in the U.S. (hospitals/independent labs/clinics or group practices/public health labs/other sites) Percentage of high-volume* U.S. sites installed/Low-volume** U.S. sites installed	1982 July 2023 July 2023, version 2018.16 — 40 installations —	1993 June 2023 May 2023, version 10 — 27 sales/27 installations 78 (2/6/47/1/22—universities, drug testing, pain management, COVID) 100%/0	1993 June 2023 May 2023, version 14.230518 — 22 sales/6 installations 1,796 (253/211/1,130/36/166—correctional facilities, nursing homes, pain management, others) 47%/53%
Foreign locations where company actively markets LIS	Australia, Canada, UK, Ireland, Belgium, Nordic countries, Middle East, Singapore, Caribbean	none	none
• Foreign locations where LIS has been sold	Australia, Canada, Middle East, Singapore, Caribbean, Latin America, EU countries, other countries	—	Canada
• Human languages (other than English) supported by LIS	British-English, German, Spanish, French	none	none
Approximate No. of employees in entire company	160,000+	277	277
Central hardware or service type Programming languages and development applications or environments Operating system(s) Databases and tools/System includes full transaction logging	— Java, Visual Basic, C++, C#, Visual C HP-UX, AIX, VMS Oracle/yes	HP Business Class SQL, Java Windows Server 2012 R2 SP1, 64-bit or later Microsoft SQL/yes	HP Business Class in a client/server environment, SaaS 4th Dimension with portions in C, C++, HTML; others Windows Server 2012 R2 SP1, 64-bit or later 4D/yes
Features/modules incorporated in product: • Chemistry/Hematology/Bar-coded collection labels • Microbiology/Public health microbiology • Blood bank donor/Blood bank transfusion • Surgical pathology/Cytology • Molecular pathology/Cytogenetics/Flow cytometry • EHR interface for admission/discharge/transfer (ADT) • EHR interface for order entry/EHR interface for results reporting • EHR interface for packaging results into PDF format • EHR interface for packaging results into CDA1 format/CDA2 format • Ad hoc reporting/Rules-based system • Management and statistical reporting/Client services or CRM module • POL link or Web portal to physician offices/Patient Web portal	installed at client sites (all 3 features) installed at client sites/installed at client sites not available/installed at client sites installed at client sites/installed at client sites installed at client sites (all 3 features) installed at client sites installed at client sites/installed at client sites installed at client sites installed at client sites/installed at client sites installed at client sites installed at client sites/installed at client sites installed at client sites/installed at client sites available via Oracle Health Provider Portal/available via Oracle Health Patient Portal	installed at client sites (all 3 features) installed at client sites/installed at client sites available via Haemonetics/available via Haemonetics available via Orchard Enterprise Pathology (both features) available via Orchard Molecular (all 3 features) installed at client sites installed at client sites/installed at client sites installed at client sites/installed at client sites installed at client sites installed at client sites/installed at client sites installed at client sites/available via Orchard Outreach available via Orchard Outreach/available via Orchard Patient Portal	installed at client sites (all 3 features) installed at client sites/installed at client sites available via Haemonetics/available via Haemonetics installed at client sites/installed at client sites installed at client sites (all 3 features) installed at client sites installed at client sites/installed at client sites installed at client sites/installed at client sites installed at client sites/installed at client sites installed at client sites/installed at client sites installed at client sites/installed at client sites installed at client sites/available via Orchard Patient Portal
• Commercial reference lab functionality/Compliance checking • Comprehensive billing and accounts receivable or RCM • Materials management and inventory/Test partition • Remote faxing/Remote printing • HIPAA-standard transaction formats • Web-based remote inquiry of reports/Web access for order entry • Management and tracking of specimens in lab/Before arriving in lab • QA tools/Environmental health • Interfaces for sending orders from primary lab to reference lab, handling results return, and status updates	installed at client sites/installed at client sites installed at client sites not available/installed at client sites installed at client sites/installed at client sites installed at client sites avail. via Oracle Health Provider Portal (both features) installed at client sites/installed at client sites installed at client sites/installed at client sites available via Oracle Health Reference Lab Network	installed at client sites/installed at client sites available via PGM Billing installed at client sites/installed at client sites installed at client sites/installed at client sites installed at client sites installed at client sites/installed at client sites installed at client sites/installed at client sites installed at client sites/installed at client sites	installed at client sites/installed at client sites available via PGM Billing installed at client sites/installed at client sites installed at client sites/installed at client sites installed at client sites installed at client sites/installed at client sites installed at client sites/installed at client sites installed at client sites/installed at client sites
• Business analytics/Clinical analytics • Ability to schedule patient for test collection/Patient-based test registration • Ability to coordinate with nurses for collections that phlebotomists cannot perform • Interfaces with public health databases using ELR as part of Promoting Interoperability • Results for tests run using different methods show method on clinical 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	installed at client sites/installed at client sites — — available via Orchard Outreach installed at client sites	installed at client sites/installed at client sites — — available via Orchard Outreach installed at client sites installed at client sites
Barcode symbologies supported by LIS LIS can generate analytics for tests based on specific data elements Ability to use artificial intelligence (e.g., machine-learning software) with LIS	Codabar (NW-7), Code 39, Code 128, DataMatrix yes (based on all data in database) planned for future	Codabar (NW-7), Code 39, Code 128, DataMatrix yes (based on all data in database) planned for future	Codabar (NW-7), Code 39, Code 128, DataMatrix, others yes (based on all data in database) planned for future
LIS can report lab data to public health agencies via automated electronic transmission using specified formats (e.g., HL7 2.5.1, LOINC, SNOMED, etc.) for: • Microbiology (culture and sensitivity) • Other reportable diseases (e.g., blood lead, immunology, etc.) • Tumor diagnosis and case data to regional cancer registry***	yes yes yes	yes yes yes	yes yes yes
Other vendors’ lab systems to which LIS bidirectionally interfaces in live sites	—	CGM, Meditech, Siemens, Oracle Health, Epic, CPSI, Clinisys, SCC, Psyche Systems, many others	CGM, Epic, Meditech, Oracle Health, CPSI, Clinisys, SCC, Psyche Systems, LabSoft, many others
Lab automation systems or workcells to which LIS has a direct interface	Beckman Coulter, Siemens, QuidelOrtho, Sysmex, Thermo Scientific, Olympus, Roche, Abbott, Tecan, others	Beckman Coulter, Siemens, QuidelOrtho, Sysmex, Thermo Scientific, Olympus, Roche, Abbott, Tecan, others	Beckman Coulter, Siemens, QuidelOrtho, Sysmex, Thermo Scientific, Olympus, Roche, Abbott, Tecan, others
LIS uses third-party middleware for LIS–instrument interfaces LIS supports use of SNOMED CT LIS automatically ingests and applies electronic updates of tables and rules from organizations and government agencies LIS allows for image capture, display, reporting LIS provides indexed field in each test definition for LOINC code	no (interface directly) yes, for all cases yes (LOINC, SNOMED, others)  yes yes (provide LOINC dictionary free of charge with install)	no (interface directly) yes, for all cases no  yes yes	no (interface directly) yes, for all cases no  yes yes
Company provides LIS clients with positive patient ID software to identify patients and/or blood specimens collected at bedside • LIS interfaces to third-party positive patient ID software to identify patients and/or blood specimens collected at bedside	software to identify patients and blood specimens integrated in LIS—additional fee Lattice MediCopia, Cardinal Health Care Fusion	no  Lattice MediCopia	no  —
Client gets copy of source code/User group that meets on established schedule Qualified users or third parties can modify or augment LIS functions or features Methods by which users can tailor LIS in their own setting	no/yes (in person and via webinar) yes (client users) ad hoc query tools, user-defined interfaces, dictionary settings, workflow configuration, others	escrow/no yes (client users) ad hoc query tools, user-defined interfaces, dictionary settings, read/write privileges, workflow configuration, tailored worklists, rules, user-defined security, others	escrow/no yes (client users) ad hoc query tools, user-defined interfaces, dictionary settings, read/write privileges, workflow configuration, tailored worklists, rules, user-defined security, others
Distinguishing product features (supplied by company)  *generate >500,000 billed tests annually, or >200 bed hospitals, or >500 requisitions per day **generate <500,000 billed tests annually, or <200 bed hospitals, or <500 requisitions per day ***Using NAACCR Pathology Laboratory Electronic Reporting, vol. V, version 4.0, April 2011 ed. Note: a dash as an answer means company did not respond or question is not applicable	• can be configured in an integrated manner with the EHR or as a standalone offering • proven, stable, Millennium architecture supports clients’ long-term growth  <i>†formerly Cerner Laboratory</i>	• interfacing and integration with instruments, EMR and host systems, departments, reference labs • robust rules-based decision support logic and data-mining technology for data analytics  <i>†formerly Orchard Sequoia</i>	• interfacing and integration with instruments, EMR and host systems, departments, reference labs • robust rules-based decision support logic and data-mining technology for data analytics

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





Part 7 of 7	<b>Seacoast Laboratory Data Systems</b> <b>Lisa M. Turgeon</b> info@sldsi.com <b>Dover, NH</b> <b>603-431-4114</b> www.sldsi.com	<b>XiFin</b> <b>Joseph Nollar</b> jnollar@xifin.com <b>San Diego, CA</b> <b>858-793-5700</b> www.xifin.com
Name of laboratory information system	SurroundLab Plus	XiFin LIS
How LIS functionality is deployed	remote hosting or local server/software	remote hosting
Company provides list of client sites to potential customers on request	yes (partial list of comparable sites but prospective clients must sign a nondisclosure agreement)	yes (partial list of comparable sites with no restrictions regarding its use)
Updates covered by standard software maintenance fee	some updates (updates to custom options not covered) annually no optional (extra cost)	all updates  monthly yes standard (no charge)
• Schedule for providing standard software updates to clients		
• Clients must install updates in specified timespans to avoid maintenance fee increase		
• Fee for software modifications to comply with federal regulations and laws		
Year company began selling LISs (any brand or model)	2000	2004
Most recent LIS go-live at a client site (based on August 2023 survey deadline)	June 2022	July 2023
Last product release or update for featured LIS	October 2022, version 102022	July 2023, version 9.7
Total No. of contracts for sites operating LIS worldwide	—	82
• No. of sales and installations of LIS between August 2022–July 2023	1 installation	5 sales/5 installations
Total No. of sites operating LIS in the U.S. (hospitals/independent labs/clinics or group practices/public health labs/other sites)	75 (0/75/0/0/0)	94 (0/67/26/0/1—veterinary pathology)
Percentage of high-volume* U.S. sites installed/Low-volume** U.S. sites installed	75%/25%	40%/60%
Foreign locations where company actively markets LIS	none	Africa, Asia, Europe
• Foreign locations where LIS has been sold	—	UK, Holland, China, Rwanda, Tanzania, Ethiopia, Haiti
• Human languages (other than English) supported by LIS	—	none
Approximate No. of employees in entire company	25	848
Central hardware or service type	physical or virtual servers, cloud based (Amazon Web Services)	ASP
Programming languages and development applications or environments	M-Caché	C#, .Net
Operating system(s)	Linux, Windows	Windows Server 2022 (hosted)
Databases and tools/System includes full transaction logging	GT.M/yes	Microsoft SQL/yes
Features/modules incorporated in product:		
• Chemistry/Hematology/Bar-coded collection labels	installed at client sites (all 3 features)	installed at client sites (all 3 features)
• Microbiology/Public health microbiology	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• Blood bank donor/Blood bank transfusion	—	not available/not available
• Surgical pathology/Cytology	—	installed at client sites/installed at client sites
• Molecular pathology/Cytogenetics/Flow cytometry	—	installed at client sites (all 3 features)
• EHR interface for admission/discharge/transfer (ADT)	installed at client sites	installed at client sites
• EHR interface for order entry/EHR interface for results reporting	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• EHR interface for packaging results into PDF format	installed at client sites	installed at client sites
• EHR interface for packaging results into CDA1 format/CDA2 format	—	installed at client sites/installed at client sites
• Ad hoc reporting/Rules-based system	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• Management and statistical reporting/Client services or CRM module	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• POL link or Web portal to physician offices/Patient Web portal	installed at client sites/—	installed at client sites/avail. via XiFin Patient Portal
• Commercial reference lab functionality/Compliance checking	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• Comprehensive billing and accounts receivable or RCM	available via Seacoast's SurroundLab AR	available via XiFin RPM
• Materials management and inventory/Test partition	—/installed at client sites	installed at client sites/installed at client sites
• Remote faxing/Remote printing	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• HIPAA-standard transaction formats	installed at client sites	installed at client sites
• Web-based remote inquiry of reports/Web access for order entry	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• Management and tracking of specimens in lab/Before arriving in lab	installed at client sites/installed at client sites	installed at client sites/installed at client sites
• QA tools/Environmental health	installed at client sites/—	installed at client sites/not available
• Interfaces for sending orders from primary lab to reference lab, handling results return, and status updates	installed at client sites	installed at client sites
• Business analytics/Clinical analytics	installed at client sites/installed at client sites	available via XiFin Business Intelligence/installed at client sites
• Ability to schedule patient for test collection/Patient-based test registration	installed at client sites/installed at client sites	not available/available via XiFin Patient Portal
• Ability to coordinate with nurses for collections that phlebotomists cannot perform	installed at client sites	not available
• Interfaces with public health databases using ELR as part of Promoting Interoperability	installed at client sites	installed at client sites
• Results for tests run using different methods show method on clinical reports	installed at client sites	installed at client sites
Barcode symbologies supported by LIS	Code 39, Code 128 (LIS also supports QR codes)	Code 39, Code 128, DataMatrix
LIS can generate analytics for tests based on specific data elements	yes (based on all data in database)	yes (based on all data in database)
Ability to use artificial intelligence (e.g., machine-learning software) with LIS	no	yes (XiFin Business Intelligence supports AI analytics)
LIS can report lab data to public health agencies via automated electronic transmission using specified formats (e.g., HL7 2.5.1, LOINC, SNOMED, etc.) for:		
• Microbiology (culture and sensitivity)	yes	yes
• Other reportable diseases (e.g., blood lead, immunology, etc.)	yes	yes
• Tumor diagnosis and case data to regional cancer registry***	no	yes
Other vendors' lab systems to which LIS bidirectionally interfaces in live sites	Psyche Systems, Clinisys, CGM, Orchard Software, others	Oracle Health, Clinisys, LabVantage, Illumina, custom
Lab automation systems or workcells to which LIS has a direct interface	Beckman, Siemens, Sysmex, Thermo Scientific, Olympus, Roche, Abbott, Bayer, Tecan, Sarstedt	Beckman Coulter, Siemens, Sysmex, Thermo Scientific, Olympus America, Roche, Tecan
LIS uses third-party middleware for LIS–instrument interfaces	combination of direct interfaces and third-party middleware (Data Innovations, CentraLink, others) for some types of cases (microbiology)	combination of direct interfaces and third-party middleware (Data Innovations)
LIS supports use of SNOMED CT	yes (LOINC, ICD-10, SNOMED)	yes, for all cases
LIS automatically ingests and applies electronic updates of tables and rules from organizations and government agencies		yes (CPT, ICD codes)
LIS allows for image capture, display, reporting	yes	yes
LIS provides indexed field in each test definition for LOINC code	yes	yes
Company provides LIS clients with positive patient ID software to identify patients and/or blood specimens collected at bedside	no	no
• LIS interfaces to third-party positive patient ID software to identify patients and/or blood specimens collected at bedside	—	—
Client gets copy of source code/User group that meets on established schedule	no/no	escrow/yes (via webinar)
Qualified users or third parties can modify or augment LIS functions or features	no (all modifications made by vendor)	yes (client users)
Methods by which users can tailor LIS in their own setting	ad hoc query tools, user-defined interfaces, dictionary settings, tailored worklists	ad hoc query tools, user-defined interfaces, dictionary settings, read/write privileges, workflow configuration, tailored worklists, data-entry screens, others
Distinguishing product features (supplied by company)	• commercial lab centric; scalable; fully customizable; superior customer support • optional modules for microbiology, QC, standing orders, toxicology	• configurable workflows and scalability for CP, AP, molecular, and NGS • creates comprehensive reports; ability to combine multiple test results into a single report for clinicians

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