

# tech. guide

Laboratory Information  
Systems, Operational  
Middleware

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www.biomerieux-usa.com

1. What is the brand name of your company's solution?
2. What is the latest version of your named LIS or middleware?
3. Specify the authorizing agency, type, and year of the product's regulatory authorizations or certified compliance with voluntary standards.
4. What is the intended use or primary function of the product?
5. With which of the following systems or instruments is your system able to interface?
6. If you answered "other," explain briefly.
7. On what operating system is your LIS or middleware based?
8. What database system does your LIS or middleware use?
9. Briefly describe any automated features or options that pertain to the product.
10. What is the typical training time for the product?
11. What types of technical support are available?
12. What capabilities, features, or accessories distinguish this product from others on the market?

CyberLAB	REMISOL Advance, REMISOL Advance V 2.1	MYLA
7.3.1p1	ISO/IEC 27001. Confirm with Regulatory for any more	MYLA V4.9, released 2022
ONC HIT Certification	CE Mark, 2022	FDA Non-device MDDS
Laboratory Information System	REMISOL Advance (RADV) is a data manager that simplifies and streamlines workflows in the laboratory. It is a central software component that connects the lab's analyzers, automation, and LIS to provide a real-time view of the testing life cycle that can be managed from the laboratory	MYLA connects to the microbiology laboratory's equipment in the field of blood culture incubation, identification and antimicrobial susceptibility testing to consolidate the data into one, readily accessible location.
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	Connectivity across wide variety lab instruments and LIS/EHR systems using standardized and proprietary interfaces.	Laboratory Information System
Windows	Windows 10, Windows Server 2012, Windows Server 2016, Windows Server 2019	Windows Server 2016, Windows Server 2019 for the Server editions Windows 10 for the PC version
SQL	Customized auto-verification rules, managing samples by exception to fast-track accepted results directly to LIS for reporting; Improved reliability via automated QC monitoring and alerts; integration of automation systems with other lab instruments. Daily SQL backup	Built-in PostgreSQL database
Excel import for orders; MNV validation, patient receipt printing	Remisol rules engine which allow to automate many middleware user actions.	Real-time workflow alerts for applicable equipment; scheduling of reports for automatic delivery; interfacing capability to major laboratory information systems; specimen and patient tracking
3 months	Ranging from several hours to several days. E-learning and on-site user training	4-6 hours
24/7	Global customer support with Initial in-lab support for setup followed by in-lab, online and phone support.	VILINK software, direct connection to bioMérieux technical support. Also, field application specialists, technical experts in instrumentation and software.
Integration capabilities with instruments and other systems, DOA reporting with medication reconciliation management, configurable to customer workflow	REMISOL Advance middleware improves efficiency within and across the laboratory network through workflow automation and standardization with easy-to-use tools.	Data management platform allows users to experience improvements in equipment connectivity, lab workflow, and information management. Software offers the user a real-time, control-tower overview of bioMérieux instruments, with flexible and easy-to-generate reports. Updates can be readily pushed to the attention of the healthcare professional.



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www.clinisys.com/us/en

**Computer Service & Support**  
Linwood, NJ  
609-653-6444  
www.csslis.com

**Electronic Lab Logs, Inc**  
Wilmington, NC  
844-522-5647  
lablogs.com

**hc1**  
Indianapolis, IN  
317-219-4646  
www.hc1.com

Clinisys Atlas	Avalon LIS	LabLogs	hc1 Performance Analytics
v2023; March 10, 2023	Version 1.2.9; March 2022	Version 1.60; January 24, 2023	9.0.1 / 2013
Clinisys maintains an SOC 2 Type II certification. We are also certified to ISO/IEC 27001:2013, ISO9001:2015, ISO 13485: 2016.	N/A	N/A	HITRUST Risk-based, 2-year Certification
Atlas offers outreach process integration and connectivity solutions. The Atlas platform connects diagnostic testing facilities to their clients and enables smart ordering, test utilization, and results reporting.	Laboratory Information System	Cloud-based system for documenting required instrument maintenance and QC tasks so that laboratories can stay audit and inspection ready.	hc1 Performance Analytics integrates lab data into a single platform to enable real-time access to actionable insights to optimize operations, engage with providers and inform testing and treatment decisions.
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Radiology Information Systems		Single sign on connectivity, other 3rd party providers	Billing systems, courier systems, customer data lakes/data warehouses, call center systems.
Microsoft Server 2016 or 2019	Windows	Cloud-based application, housed in AWS	Cloud-based; non-OS dependent
InterSystems Caché 2018 or InterSystems Ensemble 2018	SQL	Amazon RDS Aurora MySQL	MySQL, Postgres SQL, DynamoDB, Snowflake
<ul style="list-style-type: none"> <li>- Automated backups and vulnerability scans (on the tech side)</li> <li>- Automated test catalog load and update when appropriate file is uploaded</li> <li>- Automated, rules based order and result transmission"</li> </ul>	Automated order import, result delivery via EMR, web portal, fax, e-mail, and text. Autoverification, dashboards, QC module. Multiple reports and export tools. User-defined rules, bi-directional interfacing capabilities to EMR, HL7, API.	Customizable and automated alerts/notifications, as well as automatically generated monthly reports for electronic review and sign-off.	Sales and service dashboards, workflow automation and alerts, mobile app, lab metrics dashboards for lab volume, turnaround time and cost per test, real-time clinical data connection
Training occurs for two full days. Once the on-site or virtual training is completed, the customer's project team will schedule training/testing sessions until software is approved for Code lock.	Varies based on institution.	1 hour	1 session, generally 2-3 hours. Can be virtual or in-person
The customer will provide IT support for on-premise environments, and Clinisys will provide support for ASP hosted environments.	Phone, e-mail, web portal. 24/7 support is available.	7-7 EST M-F along with a dedicated support agent with clinical lab experience.	hc1 Technical Support policies and procedures can be found online at www.hc1.com/support/
Atlas represents a solution that enables diagnostic testing facilities to successfully support result reporting with physician offices, nursing homes, patient service centers, reference labs, and other health-care facilities. Atlas is also a sophisticated workflow orchestration platform that helps eliminate manual processing and maximize revenue.	Avalon LIS and Avalon BI (business intelligence) for billing run on the same platform to cover the workflow of the lab while also maximizing reimbursements with upfront eligibility and diagnosis validity features. World class technical support that caters to every unique laboratory workflow.	Designed, built, and tested by lab managers that has created a highly configurable, user friendly, and scalable platform designed to replace the paper logs being used in the lab with ease.	We understand and work with laboratories' native data format. By creating a foundation of accurate and real-time insights, we open a world of opportunity to solve challenges for labs. Then we don't just activate and walk away. All of our agreements include a Service Select plan that means our experts continue to help extend the team's capabilities.

**Indigo BioAutomation**  
Carmel, IN  
317-493-2400  
www.indigobio.com

**LigoLab Information Systems**  
Glendale, CA  
800-544-6522  
www.ligolab.com

Ascent	LigoLab LIS & RCM Laboratory Operating Platform
4.0; 2020	2022.2.55; January 2023
Listed with FDA since 2018; exempt from premarket authorization as a class 1 exempt device.	N/A
Software system that automates the processing, review, and release of clinical results from chromatography and mass spectrometry instruments, and other devices.	Laboratory Information System
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Chromatography; mass spectrometry; LIS	Client portal, patient portal
Windows; data interaction via a web browser, Windows, MacOS or Linux.	Mac OS, Microsoft (any that support Java)
MySQL	MS SQL
Automated data upload after collection and results download after confirmation. Customizable quality rules automatically applied within and across the batch, including option to auto-assign rejection criteria.	Automates complex processes with rules and automation; manages operations and finances in an all-in-one platform that supports compliance and risk management with a comprehensive audit trail also features client notification and a report delivery engine.
10 to 40 hours for routine tasks.	30 to 60 days
24/7 online support portal	24/7 technical support
Data agnostic across all major GS and LC-MS vendors, accelerating data review. Sophisticated algorithms to deconvolute noisy or overlapping peak complexity. Prior data can be queried for cross-batch quality review before results are released.	A comprehensive enterprise-grade solution that all on a singular integrated software infrastructure that supports every role and empowers laboratories to better serve patients, differentiate themselves in the marketplace, scale their operations, become more compliant, and more profitable.

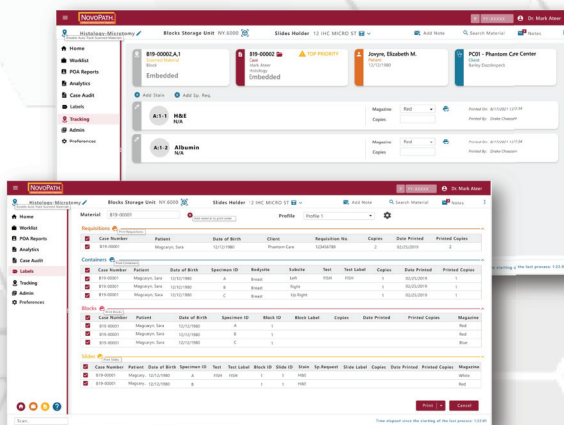
## NovoPath 360

### #1 Rated Web-Based LIS

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Give your team the right tools to diagnose more cases faster.

*Perform all anatomic and ancillary tests from ONE platform.*



**NOVOPATH™**

NovoPath is redefining laboratory information systems. We are the first SaaS-LIS to automate, track, simplify and complete complex cases from hematopathology to dermatopathology faster than ever before.



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NovaNet	NovoPath 360 is our LIS, DXE is our interoperability platform	Orchard Enterprise Lab	Orchard Point-of-Care
4.3.14SP13 Sept. 2022	N360	v10; 2022	v10:2022
N/A	HIPPA, SOC2	N/A	N/A
Supports specific point-of-care devices manufactured by Nova Biomedical.	LIS and middleware for anatomic and molecular pathology Labs		
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Blood gas analyzers, glucose meters, and other point-of-care meters		Interfaces to any third-party information system	Interfaces to any third-party information system
Microsoft Server 2016 or 2019.	Any	Windows	Windows
Integrated, proprietary build of Sybase SQLAnywhere.	LIS and middleware for anatomic and molecular pathology Labs	Microsoft SQL	Microsoft SQL
Bidirectional interfacing capability to all major LIS and middleware providers, allowing for automatic upload of results and download of test orders and patient demographics.	Test ordering portal; specimen and discrepancies tracking; real-time analytics; automated work assignment; pre-populated fields; ancillary testing combined into one case and report; on-demand scalability; hands-free grossing; voice dictation	Designed with maximum flexibility and configurability to support unique workflows across various laboratory scenarios. Can assist with lab requirements for interfacing, automation, and standardization.	Provides the ability to remotely interface POCT devices. System administrators can easily manage POCT menus, QC, and personnel.
1 to 2 hours	2 weeks - onsite and virtual with library of resources	1-week course	1-week course
24/7/365 phone support within the United States; local dealers outside the United States.	24/7 round the clock.	Phone, email, web support 24/7/365	Phone, email, web support 24/7/365
A proven, secure, and easy-to-use software tool that provides connectivity for as many as 100 device types from multiple vendors through partnerships with leading middleware vendors.	Perform ancillary tests in a single case and create a single report, self-service configurations, intuitive interface with voice dictation, seamless & secure interoperability, 100% scalable; built as a true SaaS application, automated case distribution based on client preferences, automated CPT code, patient verification.	Enterprise reporting	SOC2 & HIPPA Compliant

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GARM	SoftLab LIS Suite	TDNexLabs	TDHistoCyto
Version 1.0, released 2022	SoftLab LIS version 4.5.8 (2021)	TDNexLabs 02.01 - Released in February 2023	TDHistoCyto V13.61 - Released in October 2021
N/A	FDA 510(k) Class I, Class II (blood banking), 2015 Edition ONC HIT, MDSAP / ISO 13485:2016, ISO/IEC 27001: 2013 Certification	ISO 9001: 2015, ISO 13485:2016, ISO 13485:2016 MDSAP	ISO 9001: 2015, ISO 13485:2016, ISO 13485:2016 MDSAP
Laboratory information system	Laboratory Automation	A new generation laboratory information management system dedicated to a range of biological disciplines (biochemistry, hematology, immunology, serology, virology and microbiology) developed to improve both the performance of your organization and the quality of care you provide.	A scalable laboratory information system dedicated to the specific needs of anatomic pathology laboratories. Digital pathology ready, TDHistoCyto is focused on patient safety and contributes to improving laboratory efficiency by optimizing business processes and by making the most of technological advances.
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	Genomics variant databases (curated, discrete), flow cytometry instruments		
Linux	Linux, AIX, or Cloud-based	Windows - Linux	Windows
MySQL	Oracle	SQL Server or Oracle	SQL Server or Oracle
Auto email alert, auto result delivery	Fully automated system including: Autoverification, auto-test-routing, workstation re-direction, rules engine, workflow engine, specimen tracking (chain-of-custody), billing rules, storage and retrieval automation, blood bank unit dispensing, advanced integration with lab robotics.	Customizable expert rules automatically applied after order entry or modification and after result entry. Scheduled tasks for billing, result print out, sample management. Sample downloading on workstations, labelling, automatic validation with expert systems	Automated reports for cervical cancer screening (HPV), scheduled tasks for billing, result print out, sample downloading on workstations, labelling, automatic validation with expert systems, track all actions related to individual requests and non-conformities
5 hours	Varies from 1-week (basic) to several weeks (advanced, multi-module)	1 to 3 weeks	1 to 2 weeks
System deployment, maintenance, upgrade	SCC provide 24/7/365 support with service level agreement for emergency, priority, and standard requests as classified by client.	Customer support is available by phone, email and customer portal. 24/7 support is available	Customer support is available by phone, email and customer portal.
Highly customized for genomics and molecular testings	Next-generation LIS/LIMS platform with fully integrated LIS/pathology/bloodbank/genetics modules. No third-party middleware needed for instrument connectivity. Seamless specimen management and chain-of-custody, multi-site and multi-time-zone capable. Complete LIMS capabilities for public health, environmental, toxicology, and other areas.	Allows for full integration with TDMIND, agnostic middleware for general biology and microbiology. Can manage any customer configuration. Allows for easy client customization and is highly scalable. Integration capabilities with instruments and other systems.	Can easily connect with digital pathology systems; generate real-time dashboards for precise workload monitoring. Can be interfaced with TDGenet (genetics LIS) to meet all your biopathology needs.



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## 2<sup>nd</sup> ANNUAL State of the Industry Laboratory Information Systems

- ✓ **44%** of respondents couldn't be sure they were operating on the most recent version
- ✓ **27%** indicated there are known gaps in their LIS's ability to meet their testing needs
- ✓ **31%** have adopted digital pathology and another **12%** have plans to adopt digital pathology

The report provides insights on the **satisfaction**, **reliability**, **interoperability**, and **security** of Laboratory Information Systems.

### NEW 2022 RESULTS



### Newly Released Results

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**XiFin, Inc.**  
San Diego, CA  
Joseph Nollar, AVP of  
Product Development,  
858-436-9596,  
[www.xifin.com](http://www.xifin.com)

TELCOR QML	XiFin LIS 9.0
Version 2.3.32 (Feb 2021)	Version 9 (2023)
Consolidates and manages all aspects of a point of care testing program.	SOC1, SOC2, CAP, CLIA
	AP, CP, Toxicology, Molecular, NGS, Clinical Trials
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Interfaces to learning management systems (LMS), HR information systems (HRIS) for operator management and competency documentation.	
Windows	XiFin LIS 9 is a cloud based system accessed via standard web browsers (Chrome, Firefox, Edge, Etc.)
Sybase SQL Anywhere for the main QML database and SQL Express/SQL Server for transactional data.	SQL
ADT/order interfaces for patient validation, order selection to automate solicited/unsolicited result interfaces, operator creation, alerts with email/text messages to system updates, dashboard for system processing status, automated device setup.	Integration with your labs medical devices allows for automated integration of results. System can be configured to auto-release normal results. Batch processing (accessioning, instrumentation, results) allows for a more streamlined workflow.
Varies based on complexity and device types commented; generally, three formal, two-hour sessions.	2-3 days for each user category (admin, tech, pathologist, etc.)
24/7/365	Phone support- M-F 6:00-7:00 PST - Online support 24-7.
Open POC testing system not owned or managed by a device/LIS vendor. First learning management system interface. Single version philosophy; all product enhancements at no additional cost. Most connected device types. Perpetual license. Customer retention rate of 97%. Multiple workflows within the same system.	XiFin is a cost-effective web-based SaaS platform. No major hardware or software purchases or upgrade fees. Tailored diagnostic modules and logic driven reports including Summary and TCPC reporting. XiFin products include: XiFin LIS, XiFin RPM (Revenue Cycle Management), XiFin Analytics, and XiFin ProNet (Consult).

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DISRUPTORS  
LEADERS+  
LUMINARIES  
SEEKERS+  
SEARCHERS



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