

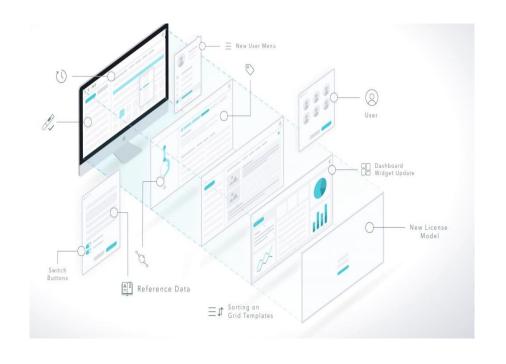






Acculab LIS

Acculab is a Laboratory Information System platform designed to support and enhance the operations of modern patient laboratories. It helps labs transform into a digital environment by streamlining patient centric operations with the goal of improving service, maintain quality and save both money and time using leading edge technologies such as IoMT





Acculab LIS

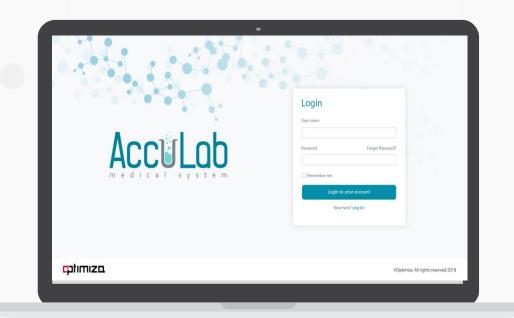
Acculab is a cloud-based software-as-a-service solution that meets different aspects of Laboratory Informatics

Acculab includes the necessary modules to process laboratory samples and produce timely results. The core architecture is designed to offer streamlined process that is efficient and effective

Utilizing native components, AccuLab offers higher levels of integration with laboratory analyzers and 3rd party systems

Acculab serves small labs, lab chains, central/regional labs, medical centers, hospitals and other healthcare institutions

Acculab can be deployed on-premise if needed.





Acculab LIS

Limitless Possibilities



Acculab Connects All your Branches

The main challenge with managing multiple branches is to have a 360-degree view of your business at any time

Acculab allows you to view all patient orders and follow up on billing and insurance claims while the claims process can be handled per branch or for the whole lab



Acculab Cycle Request to Result (R2R)

Chemistry, Hematology, Microbiology, Histopathology, Immunology/Serology, etc.



Request

Add new patient or search from existing patients



New Order

Choose whether cash or insured patient and referring doctor



Test Selection

Select from your tests catalogue (Mayo Clinics or defined tests)



Payment

Optional: patient may pay cash, credit card, cheque



Result

Signed results will be published automatically to patient (Mail, SMS or Mobile)



Order Management

Collect samples, track orders, enter results, sign results, print results, cancel orders



Sample Collection

Collect sample from patient for processing



Print Barcode

Print barcode and worksheet(s)



Samples will be separated automatically according to client predefined criteria



AccuLab Core Modules



Patient Management

Fast onboarding, maintain patient data, review test results, medical history, monetary information.



Test Catalog

Test Catalog data, Normal Ranges, Panels, Price Lists & Packages Management



Order, Sample & Result Management

Test Order Management & Test Selection Sample Separation, Bar-Coding and Sample Collection. Results Management, Historical Data, Results Delivery & Notifications, Test Referral



Insurance

Define insurance companies, define plans, claim & Settlement process



Accounting

Billing and Payment Management



Security

User management, roles management, group management



Dashboard

Enterprise Reporting & Dashboard

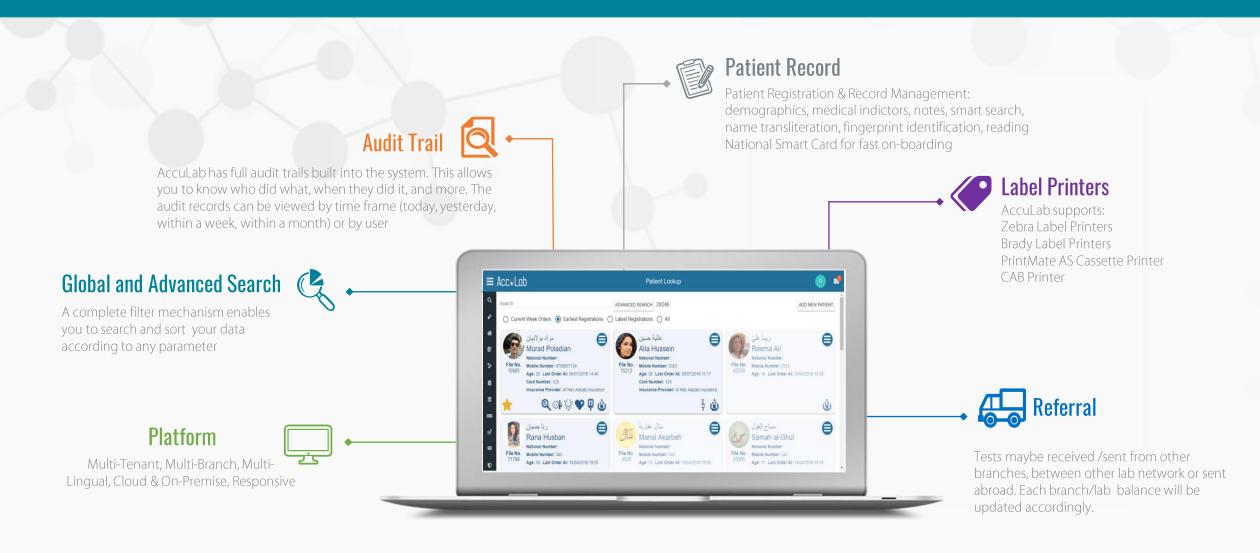


Patient Portal & Mobile App

Results Notifications, Historical Data, Results
Visual indicators



Leading Features





Patient Onboarding

Innovative Digital Onboarding & Customer Interaction

Patient electronic onboarding and lookup reduces the time-to-service your patients, improves patient experience and maintains patient data quality.



ID Smartcard Reader

- Easy and quick to signup
- Retrieve accurate official data: Name, DOB, National ID, Gender, photo, Address, Phone, Number, etc.
- Increase customer intimacy



Fingerprint Reader

- Enroll your patients with biometric fingerprint identification
- Serve customers immediately without relying on ID or Insurance cards
- Quick patient record lookup

. TML-CML-11

Order Date :30/06/2019 Sunday Result Date :04/07/2019 Thursday

Result Time : 12:30

Paid : 0.000 Not Paid: 50.00

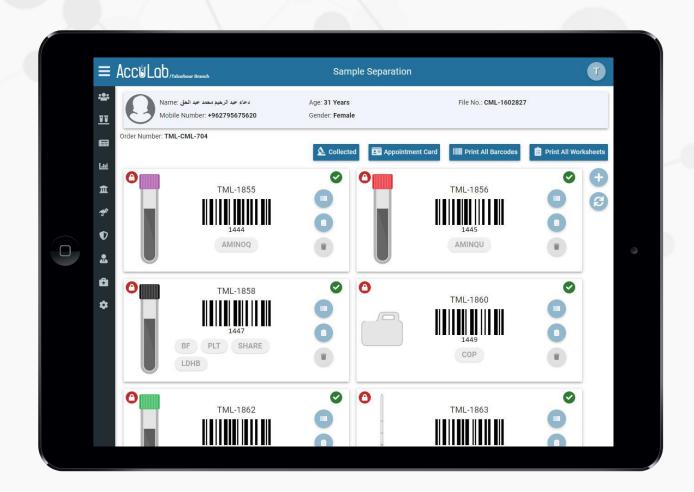
Notes : Call 30 min earlier

Customer Interaction

- Appointment Card
- SMS Messages
- Emails
- Mobile App Notifications
- WhatsApp Messages

Sample Separation

Easily and Quickly Way to Mange Your Samples



Acculab offers a user-friendly UI with a visual representation of your samples.

Once samples are generated* you can rearrange by dragging and dropping tests between samples. You can also add or delete samples.

Samples are separated according to predefined setup configured by lab system admin based on different separation algorithms or methods



Test Catalogue

Acculab Test Catalogue contains detailed data necessary to ensure accurate and reliable test results



Test Information

Access information about specimen type, sample volumes, normal ranges and other information about a specific test



Units of Measure

Reference a listing of units of measure and ability to add/modify /delete



Templates

Ability to link sections to predefined result report templates



CPT Code

View and search by CPT code and test classification



Panels

Group tests in panels.



Calculated Tests

Ability to define results based on a calculation of other results



Test Results

Acculab provides professional test result templates for various types of tests



Lab Results

	Pre	natal Mat	ernal Triple Scree	en			
Date Of Birth	: 1		Gestational Ag	e(weeks)	:	10.0	Weeks
Race	: Caucasoid(White	2)	Weight		:	10.0	Kg
L.M.P	: 1		First screen/rep	peat	:	Repeat	
Multiple of Pregnancies	. 1		Diabetic		:	No	
Alpha-Fetoprotein	· · ·	:	5.0	ng/ml			
Free-Estriol, serm level		:	1.0	ug/L			
B-Chorionic Gonadotropin,	serum level	:	10.0	U/L			
Risk of Maternal age alone	1	:	1:20				
High Risk	Cut-off Ratio	:	1:256				
Down's Syndrome risk (T-2	21)	:	2:30				
High risk	ort atto	:	1:256				
Trisomy 18 risk		:	2:30				
High Ri. ∉	Jut-off Ratio	:	1:100				
Neural Tube defect risk		:	e				

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: CML-1700384 : 59 Years

Test	Name		SI Units		Conventional	Units
Fasting Blood Sugar			0.06	mmol/L	1	mg/dL
Normal Range	Normal			3.92 - 5.54		70 - 96
	Pre-diabetic			5.60 - 7.00		100 - 125
	Diabetic			>7.00		>125
Previous Result	13/11/2017				105	mg/d
	03/06/2017				104	mg/d
Fasting		Yes				
Glycosylated Heamor	globin (HbA1c), blood		1.0	%	1	9
Normal Range	Normal			4.80 - 5.60		4.80 - 5.60
	Pre-Diabetic			5.70 - 6.40		5.70 - 6.40
	Diabetic			6.50 - 6.90		6.50 - 6.90
	Diabetic poor control			>=7.00		>=7.00
Previous Result	12/11/2018				6.13	7
	13/11/2017				6.2	7
Cholesterol total , ser	um		0.03	mmol/L	1	mg/d
Normal Range	Desirable			<5.20		<200
	Borderline			5.20 - 6.24		200 - 240
	CVD High risk			>6.24		>240
Previous Result	12/11/2018				168	mgit
	13/11/2017				166	mg/c
High Density Lipoprot	tein,HDL		0.03	mmol/L	1	mgid
Normal Range	Desirable			>1.55		>60
	Bordefine			1.04 - 1.55		40 - 60
	Low			<1.04		<4
Previous Result	12/11/2018				46	mg/d

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Lab Results

: Female : CML-1603274 : 27 Years : TML-CML-49 الإمانيات و

			Maematolog	y			
					Normal Range (Age and	Gender Related)	Т
Hemoglobin	11.8		g/dL		11.6 - 15.0	g/dL	
Hematocrit	36.1		%		35.5 - 44.9	%	
Erythrocytes	4.28		X 10^12/L		3.92 - 5.13	X 10^12/L	
M.C.V	84.0		fL.		78.2 - 97.9	fL.	
M.C.H	28.0		PB		26.0 - 34.0	Pg	
M.C.H.C	32.7		g/dL		32.0 - 36.0	g/dL	
RDW-CV	14.3		%		12.2 - 16.1	%	
Leucocytes	6.93		X10^9/L		3.40 - 9.60	X10^9/L	Ξ
Differential							Т
Neutrophils	66	%	4.574	X10°9/L	1.560 - 6.450	X10^9/L	
Lymphocytes	27	%	1.871	X10^9/L	0.950 - 3.070	X10^9/L	
Monocytes	6	%	0.416	X10^9/L	0.260 - 0.810	X10^9/L	
Eosinophils	1	%	0.069	X10*9/L	0.030 - 0.480	X10^9/L	
Basophils	0	%	0.0	X10*9/L	0.010 - 0.080	X10^9/L	
Others	0	%	0.0	X10^9/L		X10^9/L	
Platelets Count	281.0		X10^9/L		157 - 371	X10^9/L	
Platelet Distribution Width	13.9		%		10.0 - 16.9	%	
Mean Platelet Volume	10.6		fL.		9.3 - 12.2	fL.	
Perinheral Blood Film							

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MAINLY NORMOCHROMIC NORMOCYTIC RED BLOOD CELLS. LEUCOCYTES & PLATELETS APPEAR NORMAL.



Insurance Claims Management



authorized users

Financial Invoices & Reports

Acculab generates plenty of professional reports: invoices, statements, operational, etc.

User:tml-Admin

Date: 03/07/2019



colimiza

Order Date : 28/06/2019 Customer Invoice

5.000 JOD

عائشة حسن : Gender :Female File No. : CML-1600208 : 5 Years Order No. :TML-CML-8 Referred By : Self Request Printing Date/Time: 03/07/2019 02:43 PM

t:	5.000	JOD
		JOD
t		
•	0.000	JOD
Due:	5.000	JOD
Paid:	5.000	JOD
ing Balance:	0.000	JOD
_	nt Paid: ning Balance:	

Payment(s):

#	Amount	Currency	Туре	Date	Received By	Notes
1	2.000	JOD	Cash	03/07/2019	tml-Admin	
2	3.000	JOD	Credit Card	03/07/2019	tml-Admin	



Daily Income Report

Tabarbour Branch

From: 29/06/2019 To: 04/07/2019

#	Order No.	Patient Name	Order Date	Discount	Cash/Visa	Credit	Not Paid
1	TML-CML-9	ولاء محمد خليل	29/06/2019	37.002	320.000		
2	TML-CML-10	محمد خلیل	30/06/2019				5.000
3	TML-CML-11	خلیل خلیل	30/06/2019				50.000

320.000 0.000 Totals (JOD): 55.000 Total Discount (JOD): 37.002 9.0%

Grand Total (JOD): 375.000

asımıtç

مطالبة ذمم شهرية

03/07/2019 - 01/01/2019: فترة المطالبة مطالبات شركة التأمين : All Insurances

#	Company Name	Full Charge	Co-Payment	Contact Discount	Claimed Net Amount
1	Housing Bank : Housing Bank	6.000	0.000	1.200	4.800

Totals:

6.000

0.000

1.200

4.800

15



Sample Tracking

Acculab combines powerful specimen tracking and flexible searching



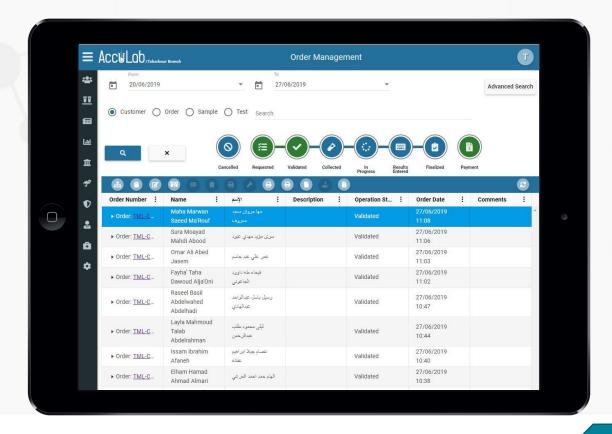
Sample receipt and ability to add or remove test(s)



Sample barcode labeling with standards-based layout



Global and advanced search



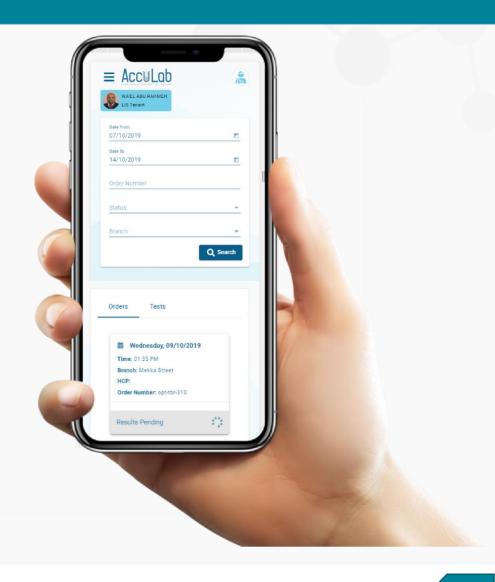


Acculab Portal & Mobile

Have all your information within arms reach at any time

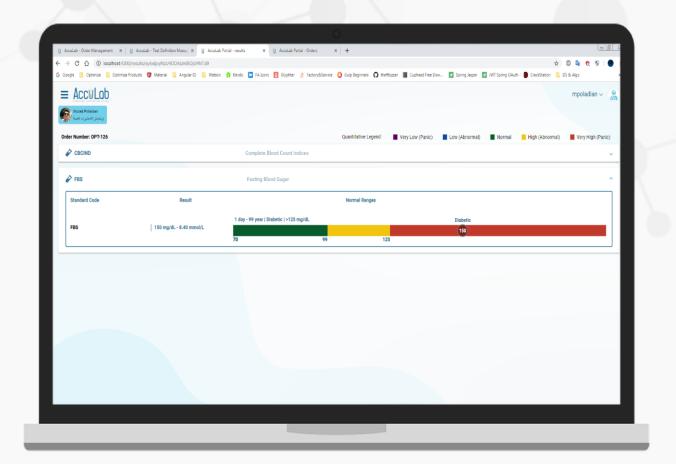
Optimiza is making AccuLab more valuable with an omnichannel portal and mobile application that is quick and easy to use.

Acculab portal and mobile increases patient/ customer intimacy and retention by allowing patients to track their health while facilitating better communication between patients, your lab and their healthcare providers.



Acculab Portal & Mobile

Increase Loyalty, Engagement & Satisfaction



A fast, intuitive patient portal with features designed to increase collaboration, engagement, loyalty & satisfaction for both patients and healthcare providers

Features



Doctor-Patient

Chat



Appointments



Historical Results

Comparison

Notifications





Family Members



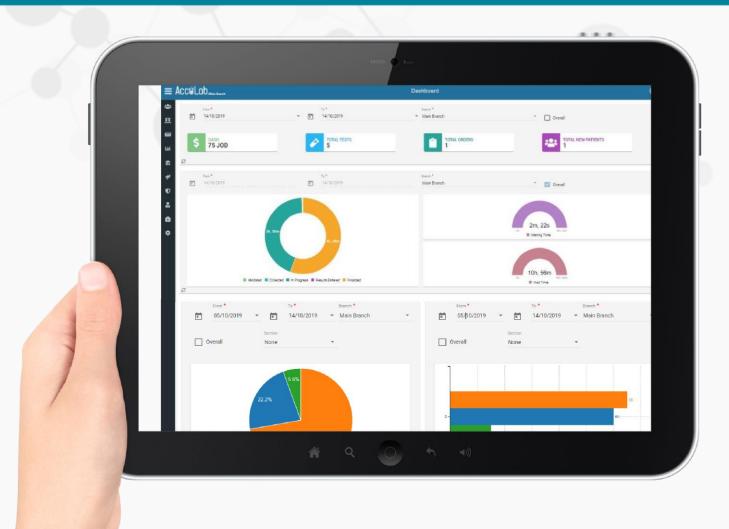
Healthcare Providers

Visit & Doctor Ratings

Monetary Information



Dashboard Get Insight From Your Data



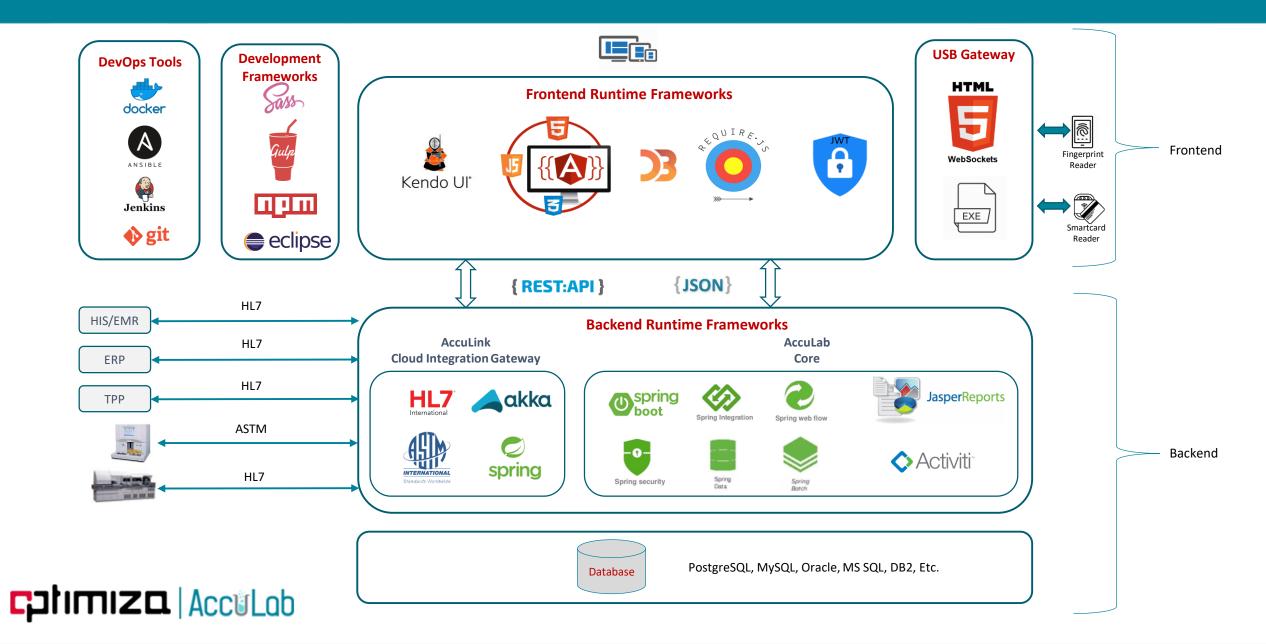
Acculab brings all your data together in one place. Merge data together to unlock valuable insights, see trends at a glance and gain a better understanding of your business results. Capture insights from your KPIs and metrics in a way that makes sense for your business

Third Party Integration | Flexible Integration with 3rd Parties with HL7

We at Optimiza differ from other thirdparty API integration services with a two decades of experience in the industry, we can help you avoid most common integration implementation pitfalls. We will ensure that new or custom integration projects are appropriately assessed in terms of scope, complexity and cost and that the implementation is smooth and painless



Technology Landscape



Implementation Methodology

An agile implementation methodology is fine-tuned for fast track delivery.



Agile implementation methodology focused on getting a lab/branch up and running usually within a month (depends on the readiness of the lab).



Capture configuration requirements and integration requirements to quickly on-board customers. Software customizations are not allowed.



Deliver change management guidance and training that focuses on train-the-trainer concept.



Provision of spreadsheet tools to simplify data collection and bulk loading. Self data loading is possible for savvy customers.



Customized services for data migration of test catalogs and patients' historical data.



Effective configuration and close follow-up ensures effective use of AccuLab features.

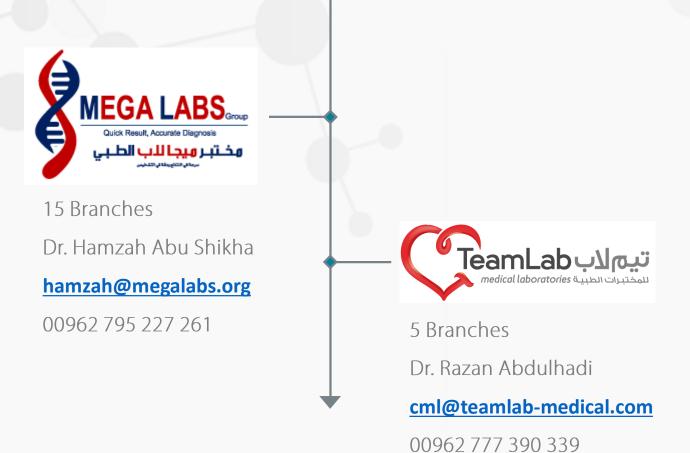


Roadmap





Reference List







Middleware Solution



Acculink Middleware | Step to the Next Level

To succeed, you need more than systems that work in harmony. You need integration that fully utilizes your devices with Acculab with great efficiency and accuracy.

Take integration to the next level with AccuLink middleware solution on-premise or in the cloud.

AccuLink is a highly flexible and scalable series of innovative technologies designed to help you integrate and manage all your laboratory devices. It provides comprehensive monitoring tools which provide full insight about your devices across the different branches.



AccuLink Middleware

Give your existing LIS a new lease of life

Scalability & Flexibility

From basic device interface to the complete management of technical facilities, AccuLink can adjust to all kinds of requirements and configurations

One Centralized Solution

Increase efficiency by centralizing information and tools in a single software package

New Features, New Technologies

Optimize your laboratory production and benefit from the latest functional and technological innovations, while improving your existing LIS interfaces and communications

Return on Investment

AccuLink enhances the laboratory efficiency while reducing production costs and at a fraction of the cost of a new LIS or system upgrade



IoMT: Internet of Medical Things

IoMT connect distributed lab devices to AccuLab through a centralized middleware network "AccuLink" enabling you to manage your samples from the Cloud or On-Premise



Standard

Using international communication protocols and messaging structure: HL7, ASTM, LIS2



Experience

Optimiza has the experience and expertise to define, develop and deploy solutions in IoMT that meet our clients' needs and realize new services and sustainable business models



Efficiency

Which lower costs, save time and improve accuracy



Mechanism

Data flow will be transferred without any delays and errors



Security

HIPAA-compliant data security



Flexibility

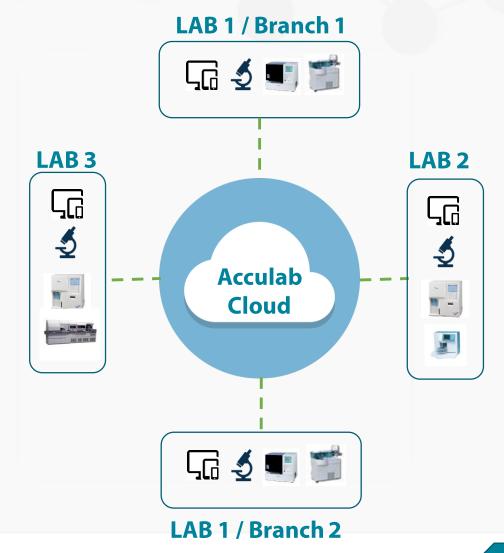
Ability to manage virtually any number of devices and software



State of Art Architecture

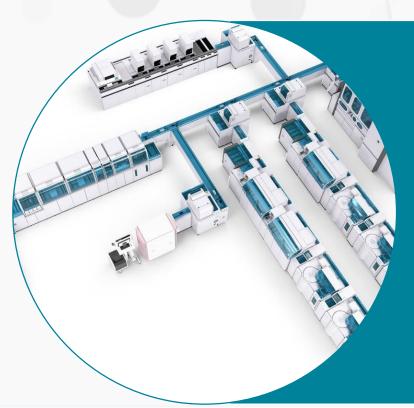
Cloud based interaction with lab machines

- Multi Tenant
- Multi-Branch support
- No in-branch software required
- Device direct cloud communication (IoT Devices Integration)
- Serial Port Analyzers Supported:
 - Serial to Network Adapter required, or
 - Serial to Network PC based agent
- Plan to use on-board micro-controllers as the onpremise IOT communication gateway



Devices Integration

AccuLab is integrated with a wide variety of laboratory devices, and the list is constantly growing If an important component of your lab is not already listed here, our middleware AccuLink can configure it for you in a few simple steps



- Bechman Coulter x800
- Siemens Advia Centaur XP
- Roch Elecsys 2010
- Roche Cobas e411
- Abbott Architect i2000sr
- Roche Cobas 6000
- Siemens Immulite 2000
- Roche Cobas c111
- Sysmex XP 300
- Sysmex- CS 2000i
- Siemens Advia Centaur XPT

- Siemens Clinitek Advantus
- Roche Cobas 6000
- Sysmex KX 21
- Abbott Architect ci4100
- Siemens Immulite 2000 XPI
- Grifols
- Bechman Coulter Unicel 800
- D10
- Mindray BS 200
- Sysmex Suite
- Sysmex XS 500 i



Acculab & Acculink Is the perfect companion for your Lab

https://www.acculab.me/

https://www.youtube.com/watch?v=dKUcAKS4dP4&t=18s

https://www.youtube.com/watch?v=WqYvKbrwfyE&t=11s



Thank You

Complex No. 172- 1st Floor- Mecca Towers- Mecca St.- Amman- Jordan B.O. Box 414 Amman 11953 Jordan - T + 962 6 5629999 - F + 962 6 5629988, info@optimizasolutions.com