AL FARIS (Optimiza)

01. First publicly-listed IT company in Jordan (2005) (ASE:CEBC)

02. Over 350 professionals with an intellectual capital spanning diverse industries with processes, and methodologies to support complex projects

03. Vision is to become leading Regional Technology Systems Integration company in the Middle East and North Africa (MENA)

04. 35 years+ of history & experience and hundreds of successful projects delivered

05. Our philosophy is based on customer service – we provide a highly customer centric to ensure that we meet and exceed your expectations throughout the whole project

06. Major shareholders include: CCC, Public Social Security Fund (Jordan), Arab Bank, Kawar Group.
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 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

**Global Access**
Can be securely accessed anywhere and on any device type by clients, patients and laboratory staff.

**Integration**
AccuLab is integrated with a wide variety of laboratory devices and the list is constantly growing using international codes: HL7, ASTM, LIS2.

**Lower Capital Expenditure**
With AccuLab cloud, the total cost of ownership is significantly lower compared to other LIS systems by reducing the need to employ your own IT staff or purchase IT infrastructure.

**International Standards**
Mayo Clinics, LOINC, ICD, CPT, HIPPA
Helps you to obtain: CAP, ISO, ILAC & HCAC Accreditation.

**Open-Source Technology**
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

**Sample Separation**
Samples will be separated automatically according to client predefined criteria

**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)
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

Audit Trail
AccuLab has full audit trails built into the system. This allows you to know who did what, when they did it, and more. The audit records can be viewed by time frame (today, yesterday, within a week, within a month) or by user.

Global and Advanced Search
A complete filter mechanism enables you to search and sort your data according to any parameter.

Platform
Multi-Tenant, Multi-Branch, Multi-Lingual, Cloud & On-Premise, Responsive

Patient Record
Patient Registration & Record Management: demographics, medical indicators, notes, smart search, name transliteration, fingerprint identification, reading National Smart Card for fast on-boarding.

Label Printers
AccuLab supports: Zebra Label Printers, Brady Label Printers, PrintMate AS Cassette Printer, CAB Printer

Referral
Tests may be received/sent from other branches, between other lab network or sent abroad. Each branch/lab balance will be updated accordingly.
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

**Customer Interaction**
- Appointment Card
- SMS Messages
- Emails
- Mobile App Notifications
- WhatsApp Messages
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.
### AccuLab Test Catalogue

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

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Test Information</strong></td>
<td>Access information about specimen type, sample volumes, normal ranges and other information about a specific test</td>
</tr>
<tr>
<td><strong>Units of Measure</strong></td>
<td>Reference a listing of units of measure and ability to add/modify/delete</td>
</tr>
<tr>
<td><strong>Templates</strong></td>
<td>Ability to link sections to predefined result report templates</td>
</tr>
<tr>
<td><strong>CPT Code</strong></td>
<td>View and search by CPT code and test classification</td>
</tr>
<tr>
<td><strong>Panels</strong></td>
<td>Group tests in panels</td>
</tr>
<tr>
<td><strong>Calculated Tests</strong></td>
<td>Ability to define results based on a calculation of other results</td>
</tr>
</tbody>
</table>
AccuLab provides professional test result templates for various types of tests.
Insurance Claims Management

Pricelists & Plans
Define multiple pricelists and plans "supports simple and complex plans"

Authorization
Prior authorization "pre-authorization" before obtaining service

ICD
Add ICDs to each order and ability to integrate with approval portals

Security
High level of security protects confidential information ensuring privacy and grant access only to authorized users

Reporting
Detailed and summarized claims, rejections, statistics, balances, etc.
Financial Invoices & Reports

AccuLab generates plenty of professional reports: invoices, statements, operational, etc.
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
Optimiza is making AccuLab more valuable with an omni-channel 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

- Easy & Secure Sign-Up
- Results Visualization / charts
- Historical Results Comparison
- Family Members Access
- Healthcare Providers Access
- Doctor-Patient Chat
- Appointments
- Notifications
- Visit & Doctor Ratings
- Monetary Information
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.
We at Optimiza differ from other third-party 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

DevOps Tools
- docker
- Ansible
- Jenkins
- git
- eclipse
- npm

Development Frameworks
- Kendo UI
- RequireJS
- SASS
- gulp

Database
- PostgreSQL, MySQL, Oracle, MS SQL, DB2, Etc.

Frontend Runtime Frameworks

Backend Runtime Frameworks
- AccuLink
- Cloud Integration Gateway
- HL7 International
- akka
- Spring Boot
- Spring Integration
- Spring Web Flow
- JasperReports
- Activiti

HIS/EMR
- HL7

ERP
- HL7

TPP
- HL7

ASTM
- HL7

USB Gateway
- HTML
- WebSockets

Frontend
- Fingerprint Reader
- SmartCard Reader

Backend
- Optimiza | AccuLab
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

- Pathology, Cytology, Histopathology & Blood Bank
- Authorized Accreditation: CAP, ISO & HCAC
- Quality Control, Delta Checks & Auto-Verification
- Referral Portal
- Worklist / Task List / Calendar / Reminders
15 Branches
Dr. Hamzah Abu Shikha
hamzah@megalabs.org
00962 795 227 261

5 Branches
Dr. Razan Abdulhadi
cml@teamlab-medical.com
00962 777 390 339
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 on-premise 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.

- Beckman 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
- Beckman Coulter Unicel 800
- D10
- Mindray BS 200
- Sysmex Suite
- Sysmex XS 500 i

Sample of Integrated Analyzers
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