

KLOP LIMS ®



LABORATORY 4.0

Laboratory Information
Management System

BACKGROUND

1. Human Error and Manipulation Data

Many data are false report because of human error whether intentional or not. This can be a serious problem both for Laboratory or Process Production.

2. Ineffective Communication Process

A lot of samples should be analyzed and reported as soon as possible. Without LIMS, Analyst and Production Engineer can not directly monitor, how far is the sample analysis running and what is the measuring result of the sample analysis.

3. Missed Maintenance And Standardization Action

Laboratory analyzer should be good in preventive maintenance and calibration process to ensure the performance of the analyzer remains good. LIMS can be used to remind user, schedule of maintenance and calibration.

4. Untraceable Data

Many problems happened when the Laboratory is audited by both external or internal auditor. Laboratory is difficult to find some detail data to support their audit process.

“A Laboratory Information Management System (LIMS) is software that allows you to effectively manage samples and associated data. By using a LIMS, your lab can automate workflows, integrate instruments, and manage samples and associated information. Additionally, you can produce reliable results more quickly and can track data from sequencing runs over time and across experiments to improve efficiency.”

ADVANTAGES

1.

Avoid manipulation data and human error

By connecting some analyzer and automatically sending data to the system

2.

Real time monitoring sample

Tracking sample condition and process by software

3.

Instrument calibration and maintenance

Schedule important maintenance and calibration of lab instruments and keep detailed records of such activities

4.

Inventory and equipment management

Measure and record inventories of vital supplies and laboratory equipment

5.

Reports

Automatic Report in a specific format, schedule and distribute reports to another section.

6.

Traceability

Audit trail. LIMS can display many things for audit, such as schedule of calibrations, etc



WORKFLOW



STEP 01



**Sample
Registration**



STEP 02



**Sample
Measurement**

Data Base



STEP 04



**Auto
Judgement**



STEP 03



**Auto
Sending Data**

Data Base



STEP 05



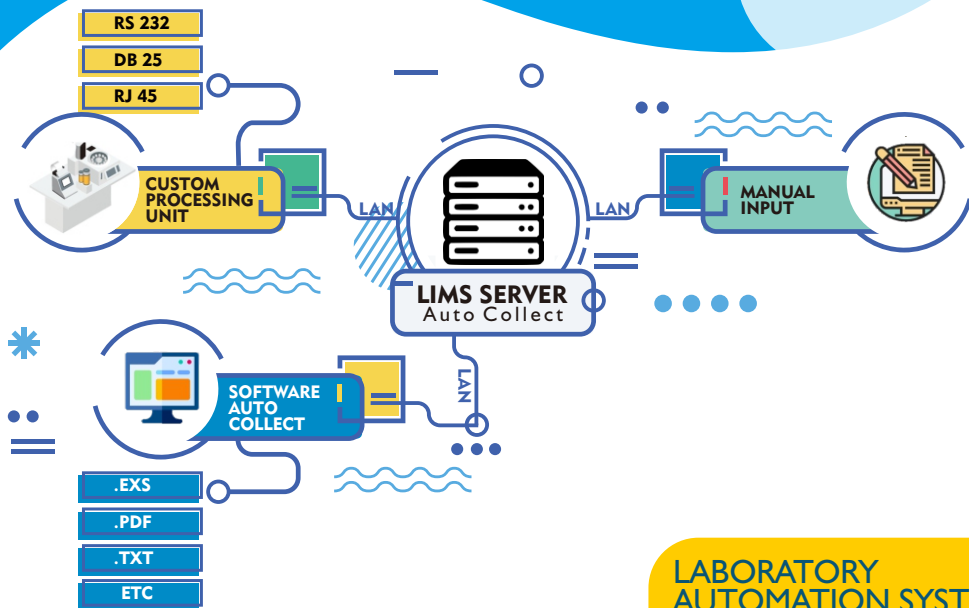
**Validation
Approval**



STEP 06

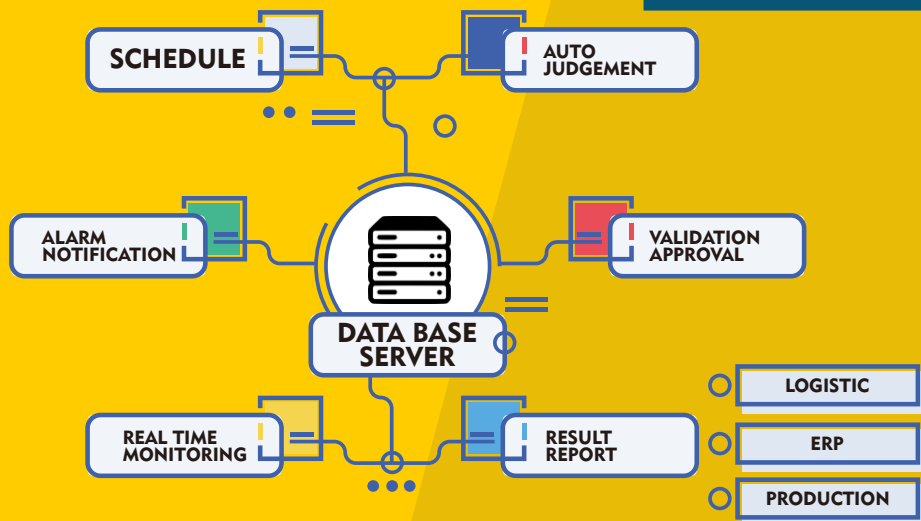


**Result
Report**



LABORATORY AUTOMATION SYSTEM

DATABASE BUSINESS PROCESS



KEY FEATURES



- Support for ISO 17025
- Laboratory Automation System
(Auto Sending Data Result Each Analyzer to Server)
- Can be set for manual input data
- Automatic Notification for Any Issues
- Master Data Management
- Flexible Report Format
- Inventory Control



- ▶ CRM and Standard Management
- ▶ Chemical Management
- ▶ Spare part Management
- ▶ Consumable part Management
- ▶ Calibration Document Report
- ▶ Method, Manual Book, SOP, and Troubleshooting



- Maintenance Schedule information
- Verification and Calibration Information
- Automatic Judgement
- Automatic Report
- Result Evaluation (Average, Upper, Lower, Repeatability, Etc)

KLOP LIMS ®



APPLICATION

01

Pharmaceutical Industry

02

Mining Industry

03

Power Plant

04

Hospital

05

Food Industry

06

Petroleum and chemical

07

Environment

08

Research and development

KLOP LIMS ®



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