



**QUADARCTECH**  
*WHERE HEALTH MEETS TECHNOLOGY*

Presentation

**QuadArc Tech Pvt Ltd**



## Company Overview

Setting up a fully functional software infrastructure for any medical institute is a daunting process. Another challenge faced by medical institutes is the interoperability enabling seamless data exchange within various departments. At Quad Arc Tech, we believe in the power of open source and interoperability to achieve lower infrastructure cost. Quad Arc has ventured into the Q-Connect application which is connecting the various medical devices, software applications and healthcare systems and services.

Our software's applications are powerful, flexible, and scalable to meet the needs of any business. We have always been innovators and pioneers, working with great leaders. Our success comes from the continuous faith in the excellence of our products and services, something we are committed to and would never sacrifice. We always strive to exceed our customers.



## Always Stay Connected

Our application is ready equipment interface solution which let you stay connected with any pathology equipment's at all times

### Digital Delivery to Everyone


Reduce your TAT significantly with instant delivery of results data to any laboratory software which helps to display reports for patients, doctors and organisations

### Manage Multiple Locations with Ease

Our application is bind between app & web interface lets you manage all your locations centrally, and monitor all activities real time.

### Interface Medical Instruments

Improve TAT, reduce errors & scale to larger volumes with machine interfacing.




## FEATURES & BENEFITS

### PRODUCT FEATURES

- Interface with better of breed instruments in uni-directional and bi-directional communication mode
- Network Agnostics, work stand alone or on network (TCPI)
- Readymade tool for simple third-party LIS / LIMS / HIS Solutions
- High performance handling for multiple instrumentality processing at the same time
- Highly user-friendly access with minimum coaching
- Easy to use interface with quick adaptability with the system
- Option to change from Bidirectional to Unidirectional or Wise versa (only in Bidirectional Mode).
- Autoverification - to Auto comments rules-if rule if success then update result comment in LIS.
- Autoverification - to Stopping rules-if rule if failed then update status as pending in LIS

### PRODUCT BENEFITS

- Increase accuracy of reported data
- Reducing the cost of reporting data and getting sample results in LIMS faster.
- Automatic and instant transfer and processing of data from clinical instruments
- Increase efficiency by 10X and permit first level of data verification
- Eliminates Transcription errors
- Avoids Data Redundancy
- Complete Audit Logs of Data Transfer



## FEATURES & BENEFITS

### PRODUCT FEATURES

- We support all Protocol (ASTM, HL7 ,Kermit etc.).
- Support Cross platform (Linux, windows).
- Open to make Integration with LIS with all Databases.
- Using advance Microsoft technology with Web API.
- We are open to implement on Cloud.
- Options to define calculative parameter and calculate results.
- Options to define Equipment Normal Range.
- Update precision with result.
- Application have ability to connect multiple equipment on single desktop.

### PRODUCT BENEFITS

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## Reason to interface instruments

- As labs are updated and become more modern, better methods of data management and record-keeping may be necessary in order to maintain or improve efficiency. Luckily, there is a means to achieve this: Laboratory Information Management Systems, or LIMS.
- With the increase in disease and the growth in medical diagnosis sector, the number of samples collected is increasing day by day. With the help of our Q- Connect application which is used for machine interfacing, labs can handle a large volume of samples easily, increasing the efficiency of sample processing and quality of lab reports.

## The need to Interface Instruments with Laboratory & Hospitals software:

There are a number of reasons why it is beneficiary to interface lab instruments with LIMS. Let us look into a few reasons here:

- **Increase in Productivity by Effective Machine Utilization:**

Interfacing your instruments to your LIMS is a one-time investment of cost and work with a repetitive increase in lab productivity and effectiveness. Interfacing LIMS to your lab instruments removes many complexities like manual entering of data every time or referring data from other instruments to the LIMS. This altogether saves a lot of time and effort when done by a LIMS rather than manually, also avoiding any human errors during data entry.



## Reason to interface instruments

Utilizing machine effectively can increase the productivity drastically. When the task is done manually, very fewer samples are completely analysed in the given time period, but with MI they can perform many sample processing and that will increase machine utilization and increase revenue.

- **Increase in Data Quality by Reducing Manual Errors:**

The second best reason for interfacing your lab instruments to your LIMS is the increase in the data quality and integrity. As a human, we are eligible to commit human errors that might not be over influential over the system as a whole, but might still be considered as an error. By removing the human interference, these errors are avoided thereby guaranteeing better data transfer in the system.

Similarly, transcribing data into the system by people can also lead to common errors affecting the quality of data. Data integrity is considered a very important issue in laboratories. By interfacing your instruments to your LIMS, you will eliminate this issue.



## Reason to interface instruments

- **Saves Time in output generation thereby satisfying the patients:**

Machine Interfacing helps to analyse the given samples at a faster rate and generates quality results within a lesser duration of time. After result processing is done, the report will be generated manually.

With the use of Q-Connect, ultimate patient satisfaction can be achieved by generating the results in a quick manner with good quality.

Machine interfacing in laboratories is more of a comfort rather than a negative factor. What might be a one-time investment in your labs can save a lot of time and work when interfaced properly with your systems.





# Uni-Directional Mode

Lab Analyser

LIS / HIS

Sample Barcode



1



Results



2



Reports



3



## Bi-Directional Mode

Lab Analyser

LIS / HIS

Sample Barcode  
----->

1



2

Work List  
-----<

3

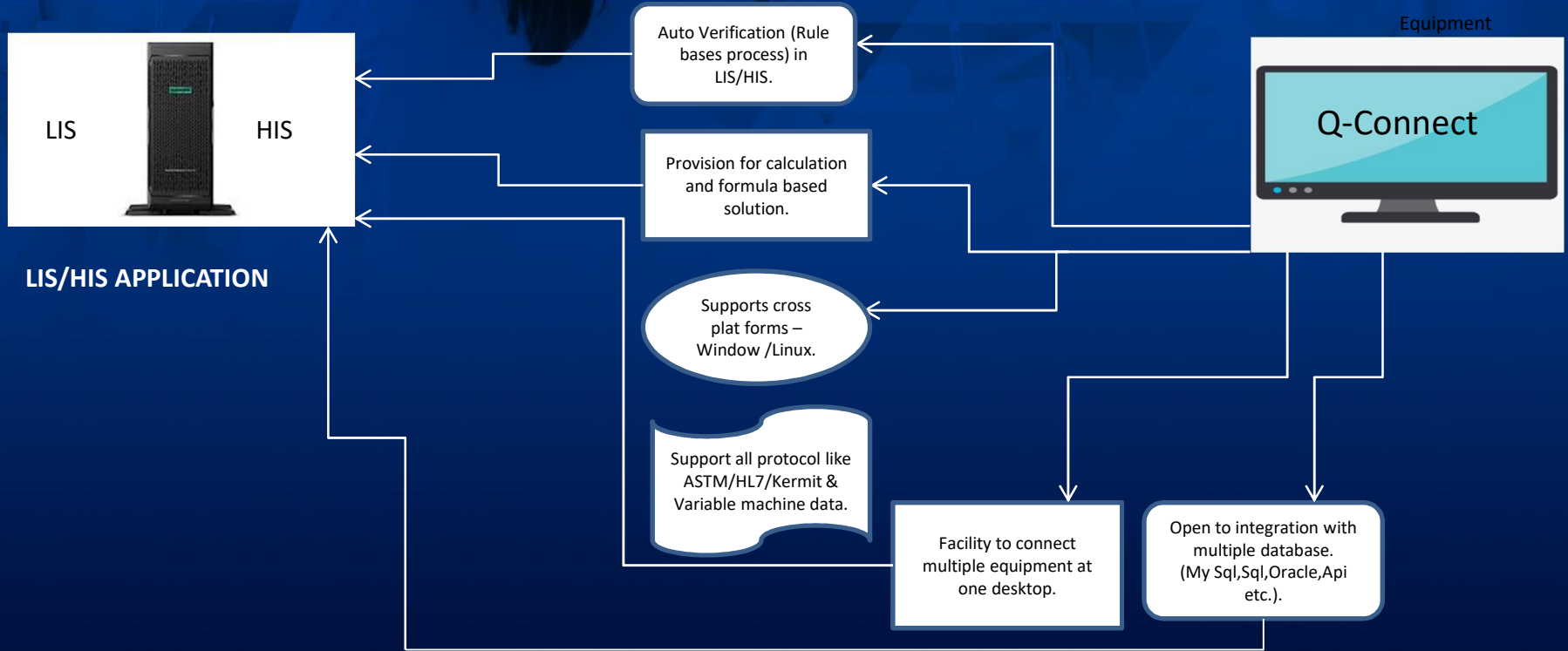
Results  
----->



Reports

----->

4



Above diagram & contents described about Q-connect application feature & facilities of product.



## Auto Verification module

- The clinical laboratory is part of the group of actors in health systems that are daily under increasing pressure by users and administrators to increase their productivity in order to respond efficiently to the increasing volume of patients worldwide, optimizing costs and professional time. This pressure has forced laboratories to perform a full review of their procedures and develop technical, logistical and computational tools to enable excellent response times with a larger volume of samples, thus ensuring sample quality and, first and foremost, patients safety.
- One of the critical procedures in the laboratory is sample processing and the validation (verify) of the results obtained. Validation is the process by which the person responsible for processing the sample is liable for reviewing and analysing the result consistency, according to the patient's information available, before being delivered to the attending physician.
- We at Quadarc Tech is capable of adapting auto verification process which can be used in laboratory & hospitals.
- With help of auto verification module, support growth of laboratory, hospital. accurate decision on data, improve patient care.



# THANK YOU

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