

Linkpro 2025

Medical Equipment Interfacing services:

- Uni-Directional - One to One
- Bi-Directional - One to Many

Smooth, Secure and Scalable Solutions
from

PROTECH

Call now for a FREE Technical advice on: +91-98-102-31233

On Linkpro platform we also provide:

- Support for complete interfacing and LIMS
- Delivery support for web enabled telemedicine scenario
- Secure & encryption plug-in services
- Integration with existing HMS or LIMS
- Remote Systems Management

Linkpro 2025 is a machine specific solution and also builds a bridge between equipment and the central database. It's integration with any industry specific LIMS depends on the efficacy of following components of LIMS:

- ✓ System of Registration
- ✓ System of Lab Bookings
- ✓ System of test selection & Billing with receipts
- ✓ System of sample collection
- ✓ System regarding sample transfer to various departments main lab
- ✓ Scheduling at various departments
- ✓ Result posting to peripheral labs
- ✓ Reports and their Pending status

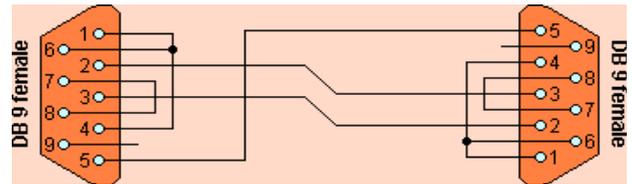
Linkpro 2025: Interfacing application product/solution

- ➔ Fast to deploy
- ✓ Easy to maintain application front end
- ✗ Fully configurable product/solution
- ⚡ Simple to use



Using Linkpro-Gateway, Linkpro 2025 is capable of delivering:

- ✓ Accurate results
- ✓ Error free data entry
- ✓ Faster work processes in an automated Lab environment
- ✓ Operator independent work processes
- ✓ NABL compliant data verification edge
- ✓ Bar Codes & Sample handling in a secure manner
- ✓ Reduces mixing up of patient test results
- ✓ Future enabled LIMS applications
- ✓ Cost benefits
- ✓ Demonstrably improved analytical quality & job satisfaction.



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Linkpro Bulletin

14th May, 2008

Linkpro 2025 Futura

- Multi modal data broadcasting processing
- Interfacing unit for receiving contents transferred from a data broadcasting server and storing the contents
- Browsing to
 - ✓ Parse
 - ✓ Classify
 - ✓ Interpret classified contents

Linkpro 2025 Add ons

- Controls data and Controls Run
- Quality parameters
- Statistical Graphs for control and patient data
- Machine control through the software
- Terminal Server using Ethernet backbone
- Inventory Control
- With or Without middle ware database



Current News

At Protech, we completed bi-directional interfacing for following equipments for another client:

1. **Sysmex Urine Analyzer**
2. **Diesse Ves-matic 20/20+ ESR System** (Single test machine and well formulated protocols and structure of data dump)

with seamless integration with Bar Coding solution.

Our current work focus on following equipments is still underway;

1. **Diagnova Elisa Reader**
2. **Beckman's CX5**
3. **Beckman's CX9**

Connecting CX5 and CX 9 machines is though an easier context as we had already completed this task for many clients. But for a new client in an absolute newer environment has become unique as there is no LIS backbone. And the client is not keen on investment to have a completely new LIS infrastructure. Thus a seamless reporting tool is also planned for these two machines. This will enhance interfacing solution's efficacy and will work as stand alone registration, reporting and interfacing tool.



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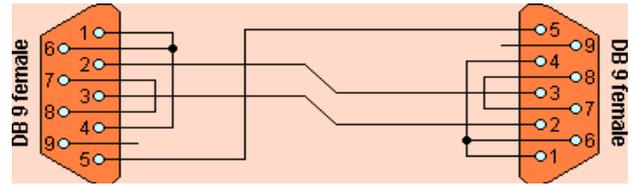
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Machine Interfacing via Linkpro 2025 Computing environment

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Frequently Asked Questions

1. Can Electronic Health Record work in conjunction with the uni-directional interface?

Yes! **Linkpro 2025^{Uni}** is patterned to insert laboratory results straight into the Patient Care database using its unique data pipe connection. This enables Patient Care Database to catch such data in real time mode thus avoiding Patient Care Data Entry. After update, these test results can also be viewed using configured EHR.

2. Can Electronic Health Record work in conjunction with the bi-directional interface?

Yes! **Linkpro 2025^{Bi}** has some extraordinary features by virtue of which the patient test work order will be routed directly to the machine using **Linkpro 2025^{Bi}** middleware data handling capabilities. And this is not specific to our proprietary LIMS (named as LMIS). Any LIMS having structured and optimized database will be able to send the test work order to **Linkpro 2025^{Bi}** middleware database. This can be done using machine upload in terms of electronic file using *kermit* file transfer protocol or can be queried by the machine to **Linkpro 2025^{Bi}** middleware database which is structurally mapped with LIMS central database, in real time. This phenomenon is completed by sending results from the machine directly to LIMS backbone or EHR link which is object driven by any LIMS for receiving, reviewing, verifying and printing Test results using the our proprietary LMIS or any industry standard LIMS. These Test results are also made available to view in the EHR.

3. Can we upgrade from uni-directional interface to the bi-directional scenario?

Yes! This upgradation is possible using our solution **Linkpro 2025**. If you are already a user of **Linkpro 2025^{Uni}** then upgrading to the bi-directional interface is very much possible. However there are some issues which need to be addressed. First of all, Bar coding infrastructure is in place and your patient registration module is well planned to handle the registration along with the test work order in a structured way. If you are using our LMIS, then this upgradation is much more easier. Secondly, you would need to provide appropriate training to familiarize your staff with the work flow handled by bar coding technology. Lastly, there would be commercials involved in such upgradation, which will be matter of analysis and firming up the deal.

4. How soon we can connect our machines with our LIS?

Linkpro 2025^{Uni} can be connected within an hour with the PC Host along with right parsing so as to be ready to push Test results data onto central LIMS database. If you are using our Lab package LMIS then it would take another couple of minutes to connect with the LIMS central database. If you are not using Lab package LMIS then our experience hundreds of test sites tells us to connect with LIMS central database, still in less than a day if structure of LIMS central database is clearly defined and known to your IT staff. Thereafter it may take not more than 3-4 working days to train and implement the solution. So, in all, it takes approximately 1 week once a commercial deal is signed. There are some more issues which need to be handled. These may be test creation, test mapping, machine configuration and central database connection parameters, etc. As **Linkpro 2025^{Uni}** has open data architecture and extremely user friendly GUIs, you can create all these parameters on your own. These can be modified too.

Linkpro 2025^{Bi} would need some extra time. If LIMS is supplied by us, then there is an extra work on bar coding, work flow and test order to be uploaded or queried by machine. This would additionally consume upto a week at the most. In case of LIMS not supplied by us, it would take nearly 1-2 weeks to complete the work flow, bar coding and other issues as regards bi-directional protocol.



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