

## Total Lab Integration

*LimsLink has been the world's leading Instrument to LIMS integration solution for more than 15 years ... and now it is the product of choice for **interfacing every system in your lab.***

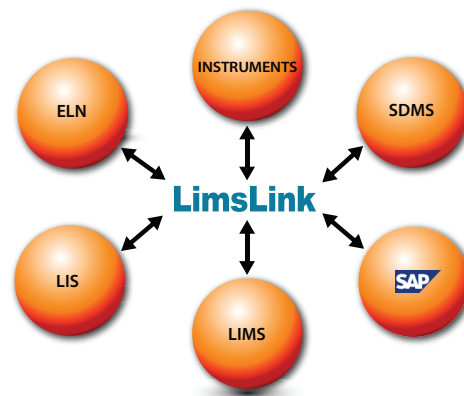
LimsLink is a fully configurable interfacing solution that maximizes your investment in instruments and data systems, by ensuring that laboratory results and sample information are accurately and efficiently transferred in real time between all of your systems.

- Automate many of the routine manual tasks that analysts carry out on a daily basis
- Let analysts maintain the control that they need over sample data management
- Unique graphical configuration process eliminates the need for custom coding or scripting, simplifying implementation
- Security, audit trail and archiving features meet regulatory requirements
- Scalable architecture suits all requirements from single workstation to enterprise wide deployment
- Professional Services Group is available to help with implementation, training, validation and support of your LimsLink interfaces
- One Solution connects all of your instruments and systems to each other

## Connect any Instrument...

LimsLink will work with every instrument in your laboratory. Interfaces are quickly configured without custom coding, using radio buttons, drop down menus and our exclusive graphic parser.

Using LimsLink for all of your instruments simplifies development, implementation and reduces training costs.



The screenshot shows the 'Sample Parser' window. It displays a table of data with the following columns: Concentration, SD, %RSD, and Rounded Concentration. The data is as follows:

Concentration	SD	%RSD	Rounded Concentration
0.01033	0	0	0
0.42011	0.00297	0.68407	0.4
0.05311	0.00491	9.25244	0.1
0.10122	0.00101	1.00905	0.1
0.04889	0.00126	3.08636	0

Limslink – a graphical parser

## Connect Informatics Systems

Connect all of your informatics systems, databases and instruments into each other to create a totally integrated lab.

### ... any LIMS or LIS...

LimsLink has been used with over 30 commercial LIMS, and countless numbers of in-house developed systems. We work in close partnership with the leading LIMS developers, to ensure compatibility with their newest releases and upgrades.

### ... any SDMS...

While processing data between systems LimsLink can automatically back up raw data and other files to any SDMS (Scientific Data Management System) for secure storage and retrieval. As part of that process LimsLink automatically extracts complete and accurate metadata without any custom coding.

### ... any ELN...

Any ELN (Electronic Laboratory Notebook) can be connected to any other system. Get worklists from LIMS and ERP and send them to your ELN. Take finished ELN workbooks and save them to SDMS, while extracting key results and sending them to LIMS or ERP. Your ELN becomes much more valuable when connected to other systems.

### ... SAP or any ERP...

LimsLink can provide the same level of integration with SAP, or any ERP, as it does with LIMS. LimsLink is able to query SAP for sample information, use that information to build instrument worklists, perform calculations on instrument data and return results back to SAP.

## ... in any Industry

A range of industries use LimsLink as THE standard for instrument interfacing. R&D, QA/QC and contract laboratories in these industries have all benefited from the efficiencies gained by using LimsLink.

## The Secret to LimsLink's Power

What makes LimsLink better than other alternatives? The secret lies inside LimsLink. It uses a very unique technology that allows it to understand (ie parse) any data, no matter how complex and variable it is.

This unique parsing technology reduces the time and effort required to make interfaces and it simplifies future changes that may need to be made. Unlike custom code, LimsLink uses a graphical tool to define the parsing. At any time you can look at the LimsLink method and easily see the parsing steps. It takes seconds to change and there is no custom code to maintain.

Interfaces can run in the background, in "black box" mode, providing a high level of transparent automation. Interfaces can also be interactive, running in the foreground and giving analysts the real time control and input they need when managing sample data.

## Interfaces that Work With Your Analysts

LimsLink includes an integrated spreadsheet that can be used to automate specialized calculations (dilution or weight factors, rounding of results, combining results, etc).

Analysts can review results and add observations, comments or approval information that can then be transferred along with the data. All activity is controlled and monitored by LimsLink's security and audit trail system.

Worklist information can be extracted from systems like LIMS and ERP and converted to sequence files (expanded to include replicates and standards), which are then uploaded to instruments. This automation can save more time that eliminating the manual data entry of results.

## Scalable to Match any Implementation Requirements

LimsLink's client/server architecture and secure database platform provides you with the flexibility to implement an interfacing solution that suits your laboratory's requirements and infrastructure. It will support any installation from an individual workstation to a multi-system WAN.

## Get a Team of Interfacing Specialists Working for You

Since 1986, we have been focused on instrument interfacing solutions, working with over 6,000 laboratories around the world as well as the major LIMS vendors and instrument manufacturers.

During that time we have helped laboratories increase their efficiency and productivity by:

- Eliminating the high costs of transcription errors due to manual data entry
- Improving laboratory productivity by increasing sample throughput
- Maximizing personnel resources by reducing administrative overhead
- Transferring high volumes of data quickly and accurately
- Lowering the cost of meeting regulatory compliance requirements, such as 21 CFR Part 11

Each member of our Professional Services group is able to draw on that experience, as well as their own laboratory background, to provide you with the level of guidance and expertise you need to ensure that you get the results that you are looking for.



## LIMSLINK FEATURES

- Provides a standard instrument interface system for all instruments
- A library of out-of-the-box modules connect to any commercial LIMS, and LimsLink supports home-grown LIMS
- A single LimsLink interface can simultaneously interface with LIMS, SDMS and SAP or other ERP
- Supports unidirectional and bi-directional instrument interfaces
- Interfaces can run in the background without operator intervention
- Interfaces can be interactive with the analyst giving them control over data reporting
- Runtime summary display for analysts is configurable for each interface
- Detailed spreadsheet display for each sample is fully configurable
- Unparsed raw instrument data is both archived and viewable at any time
- Interfaces are quickly configured using LimsLink exclusive graphical configuration process
- Data can be collected from local and remote sources using RS232, files, TCP/IP, ODBC, XML/HTML, print driver capture, OLE, DDE
- Supports bi-directional communication protocols like ASTM, and HL7
- Instrument raw data is automatically saved to SDMS for long term storage and retrieval
- A graphical drag and drop parser extracts results from sample data with no custom coding
- Multiple parsing options provide more power and flexibility than standard position and delimiter based parsing
- Automatically create worklists and sequences for instruments and instrument data systems
- Automatically expand LIMS worklists to include standards, QC samples and replicates
- Integrated spreadsheet performs real time calculations on data as it is collected (weight corrections, dilutions, date/time conversions, unit conversions, etc)
- Perform cross sample calculations (blank correction, drift, RPD, spike correction, etc.)
- Combine information from different sources (e.g. use sample weights from a balance to calculate final results for an analysis)
- Automatically check sample results against pre-defined limits and highlight any OOS (Out-of-Specification) results
- Query multiple source files simultaneously
- Analysts can manually add comments and observations to instrument data
- Reports are created without custom coding using the Graphical Report Template Editor
- Report all or just selected samples - selection can be manual or automatic
- Flag and highlight reported samples
- Password protection, electronic signatures, audit trails and archiving meet regulatory requirements including 21 CFR Part 11
- Automatic archiving of instrument data and audit trail entries on a timed basis
- Software Validation Toolkit available
- Method Documenter translates method configuration into readable text for validation purposes
- TechLink – assists in tracking and reporting issues

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