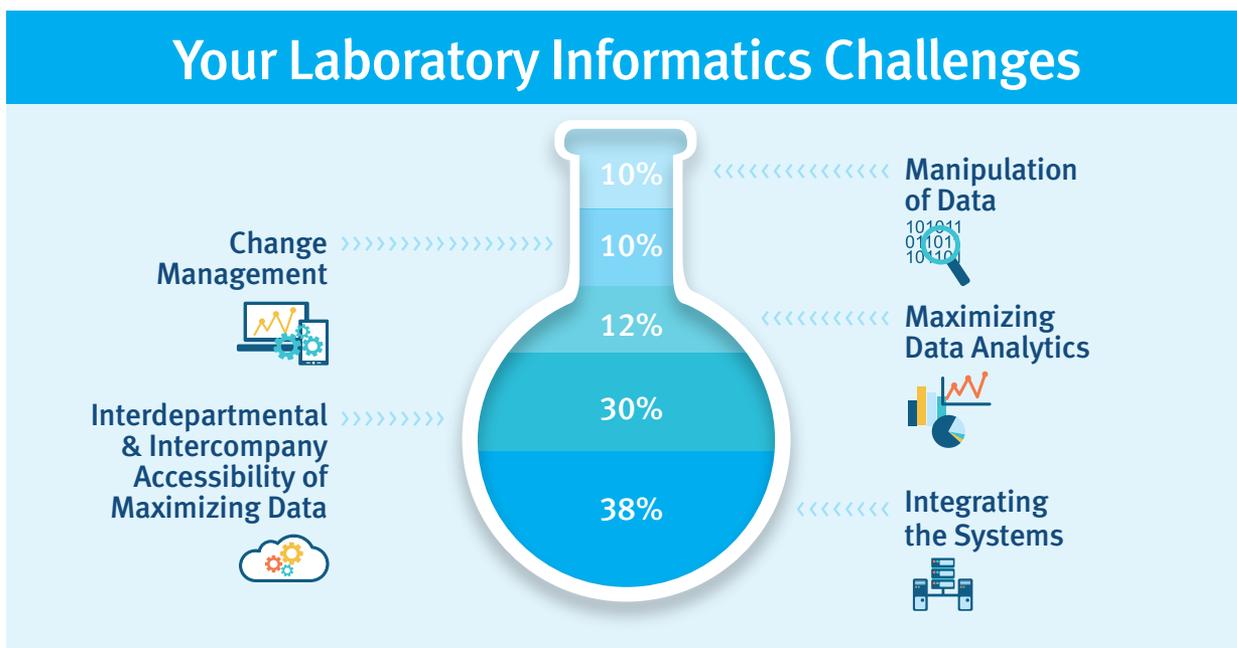


# Thermo Scientific™ Integration Manager™ Your lab. Connected.

## Key Words

- Laboratory Integration
- Workflow Efficiency
- Productivity Improvements
- Cost Savings



An integrated lab is an efficient lab. A profitable lab. But in most of today’s businesses, the vision of an integrated lab is far from reality.

Even with significant investments in enterprise tools and technologies to improve data flow, increase information sharing and optimize their business processes, research indicates that 38% of lab managers still consider integration a key business challenge.

To realize the full value of these investments, companies need a seamless and fully integrated operation connecting their laboratories with R&D and the manufacturing floor, as well as external partners, collaborators and contract laboratories. Only with a holistic view can businesses make faster, more informed decisions.

Thermo Scientific Integration Manager is a flexible and powerful data transformation tool that delivers bi-directional data distribution across the enterprise. This easily deployed system provides connectivity to all parts of the laboratory workflow, translating data generated by any of an organization’s instruments, services, or third-party enterprise applications. With Integration Manager, data is transmitted between systems regardless of the

individual output formats produced by each instrument or manual process. This includes analytical run information like sample lists, analytical results and disposition. With built-in reliability and fault tolerance features, Integration Manager functions efficiently and securely in even the most unstable network environments.

Integration Manager helps laboratories make the most of their technology and equipment investment. By connecting the laboratory with enterprise data systems, Integration Manager synthesizes disparate data for a complete picture of the business. Integration Manager also helps automate manual data collection processes, improving data integrity and efficiency. Integration Manager builds greater confidence in your decision making, helping laboratory managers move from analysis to action.



## Simple Instrument Connectivity

### Orion Star pH and Conductivity Data Capture: Station 2

**1**



- Calibrate and Zero the meter at **Station 2**.
- Take the reading and press 'print' on the Meter.
- Scan barcode or enter sample ID into the form.
- The form will display the meter readings.

- If the result displayed Acceptable - Press enter or Click the accept button.

[Admin Setup Information](#)

Input\_IPO\_ID:  Web Service ID:

Output\_IPO\_ID:

Enter or Scan LIMS Sample ID

938498925

Latest pH reading:

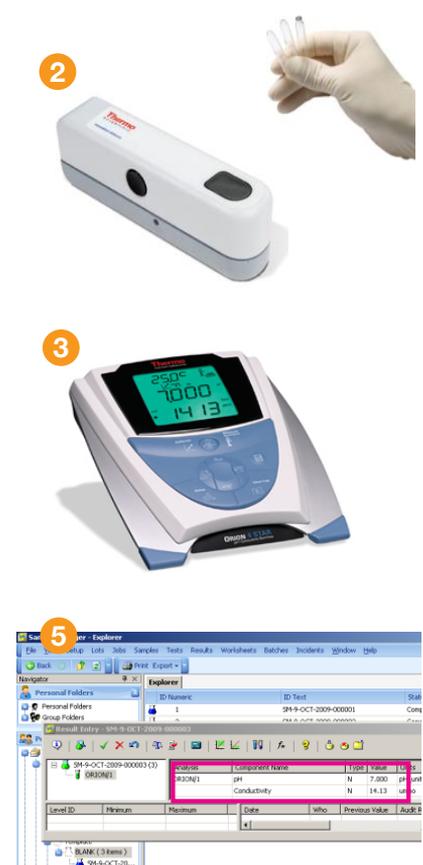
7.000

Latest Conductivity Reading

1413

**4 Accept readings and Send To LIMS**

- 1** For instruments that do not recognize Sample and Test identification data, Integration Manager provides an easy link to the LIMS through workstation tailored forms.
- 2** Sample ID is requested and entered manually or via a barcode reader.
- 3** As the ID is entered, multiple data items are read from the instrument (via local or remote COM agent) and displayed on the form.
- 4** If acceptable, the technician submits results to the LIMS.
- 5** Sample data is transmitted and available in the LIMS.



### Maximize The Value Of Your Lab Investment

A coherent strategy that can connect data from Laboratory Information Management Systems (LIMS), Chromatography Data Systems (CDS), and other sources (e.g., Enterprise Resource Planning [ERP] and Manufacturing Execution Systems [MES]) across the enterprise is a key business driver today.

**With Integration Manager, laboratories can take full advantage of their instrumentation and enforce best practices in data capture.**

Integration Manager transforms today's laboratories into tightly integrated, productive environments. Acting as a "translator," Integration Manager leverages existing investments in software systems, databases, and laboratory equipment from a wide variety of commercial vendors. Integration Manager removes the traditional "language barrier" existing between these instruments, systems, and vendors, transforming data into information that can be used across the enterprise.

### How much integration do you think is standard in your industry?

The chart below illustrates just how much room there is to more fully integrate the laboratory, and to realize productivity and cost savings. How does your laboratory compare?

Typical Lab and Enterprise Software Installations	Percent not yet Integrated with LIMS
Chromatography Data Systems	65%
Enterprise Resource Planning	60%
Data Analysis/Analytical Software	65%
Manufacturing Execution System	60%
Enterprise Content Management	73%
Modeling/Simulation	80%
Electronic Lab Notebook	64%
Scientific Data Management Software	71%
Bioinformatics/Cheminformatics	79%
Other Data Acquisition Software	61%
<b>Total Average</b>	<b>64%</b>

### Intelligent Integration To Drive Workflow

Today's lab instruments are more capable than ever. To maximize these capabilities, laboratories need an intelligent integration that can help drive the lab workflow. Integration Manager's Workflow Agents use Microsoft Windows Workflow Foundation technology to connect instruments, and other external systems, to the LIMS. This flexible platform allows Integration Manager to interface easily with instruments and systems requiring multiple stages of import/export.

**Integration Manager helps laboratories make the most of their technology and equipment investment.**

Further maximizing your lab investment, Integration Manager applies configurable business logic to your laboratory instruments. Integration Manager's Workflow Agents can communicate with end points that require more than a simple push or pull to transfer data. For example, Integration Manager's Workflow Agents can walk a user through a smart balance process, or communicate with a series of individual web service methods to pull data from an external system.

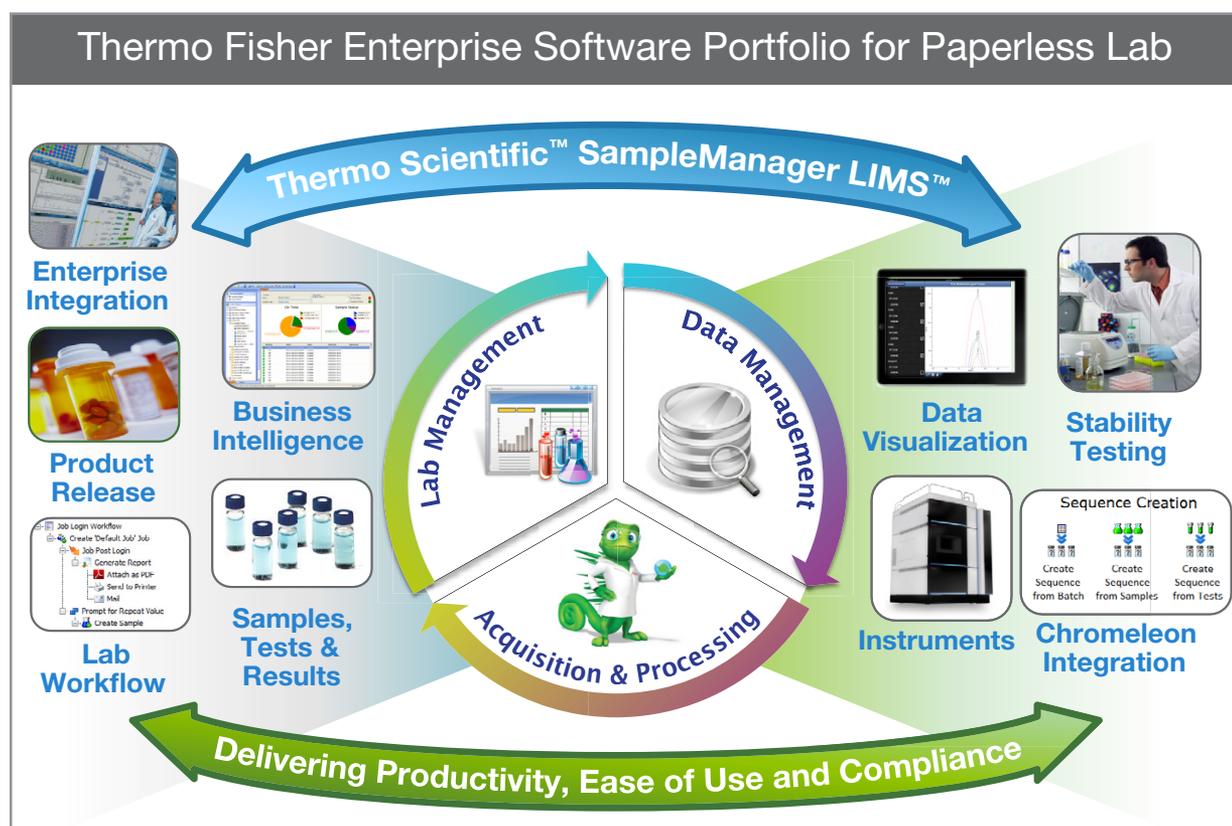
With Integration Manager, laboratories can take full advantage of their instrumentation and enforce best practices in data capture.

### Improve Data Integrity And Efficiency Through Automation

For many enterprises, data collection and aggregation is a manual and inefficient process. Distilling the mountain of available structured and unstructured data into relevant information can be tedious and error-prone. Because data formats and applications are frequently inconsistent and not well integrated, there is no coherent way for scientists to aggregate all of their work in one place. All of these are barriers to making effective business decisions and increasing return on investment (ROI).

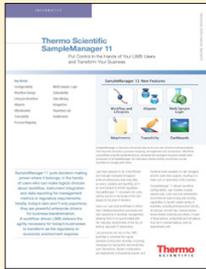
**Integration Manager helps an organization reduce or eliminate inefficiencies or error-prone processes, while helping standardize data collection practices.**

Integration Manager reduces manual data handling through process automation. By automating the collection and aggregation of data, laboratories gain efficiency and reduce errors. Integration Manager helps an organization reduce or eliminate inefficiencies or error-prone processes, while helping standardize data collection practices. The result is improved data integrity and greater confidence in decision making, helping laboratory managers move from analysis to action.



A Paperless Lab has taken advantage of opportunities to integrate the laboratory with the enterprise and automates systems by eliminating paper-based, manual and error-prone processes. While most companies have invested in many instruments and software solutions in the laboratory, manufacturing and the enterprise to improve operations, these systems are not seamlessly integrated, creating data silos, or standalone information repositories that do not communicate with one another. By automating operations and integrating these individual solutions, organizations can reduce paperwork, increase efficiency and throughput, automate regulatory compliance, reduce costs, foster collaboration and make faster, better informed business decisions.

Technical Bulletins



▲ Thermo Scientific SampleManager LIMS



▲ Thermo Scientific SampleManager LIMS and Dionex Chromeleon CDS Link

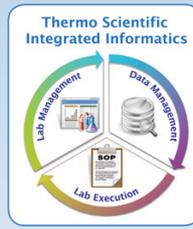


▲ Thermo Scientific SDMS – Data Manager



▲ Thermo Scientific CONNECTS for the Paperless Lab

Handy Web Links



▲ Thermo Scientific SampleManager LIMS



▲ Thermo Scientific Chromatography Data Systems



▲ CONNECTS for the Paperless Lab



▲ Thermo Scientific Dionex™ Chromeleon™ Chromatography Data System

For more information about Integration Manager, visit [www.thermofisher.com/informatics](http://www.thermofisher.com/informatics) or email us at [marketing.informatics@thermofisher.com](mailto:marketing.informatics@thermofisher.com)

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