REVOL
SINGLE SOLUTION – ENTIRE LAB

INSTRUMENT INTEGRATOR

REVOL INTEGRATOR
Real - Time Integration

- ELN
- TRAINING
- INVENTORY
- CALIBRTION
- INSTUMENTS
- MSDS
- LIMS
- ERP

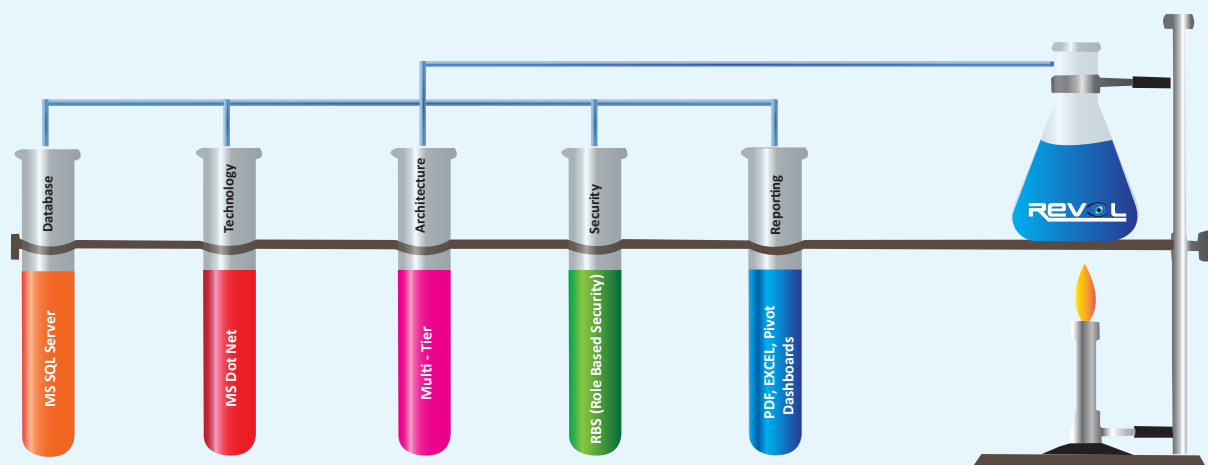ERP · LES · SDMS · DMS · SAP · Instrument Integration · ELN · IS

Revol Instrument Integrator

The state-of-the-art Revol Instrument Integrator include nearly all parsers and drivers out-of-the-box. Furthermore, the Revol Instrument Integrator is capable of capturing and processing more than just values. For simple instruments such as balances and pH meters, the system would need to be intelligent enough to associate results with metadata (units, samples, tests...etc.) to build context around the values collected. Additionally, for complex instruments such as chromatography data systems and blood analyzers, the Instrument Integrator would communicate bi-directionally to deliver both protocols/requirements and parse results returned as files.

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Architecture

Revol Instrument Integrator is a single solution for entire lab integration. This state-of-the-art out of box solution is tailored to integrate the entire lab instruments into one system and transfer the data to any LIMS /ELN / ERP / LES / SDMS / DMS / SAP...etc. with complete data integrity.

Revol Instrument Integrator takes you beyond the traditional LIMS integrating tools by consolidating additional functionalities of LIMS in a simplified way.

Revol Key Features

Feature	YES	NO
Configurable Workflow	✓	●
Global Online Access	✓	●
Smart Scheduler	✓	●
Out of Box Instrument Integration	✓	●
Complete Audit Trail	✓	●
Configurable Email Services	✓	●
Data Integrity & Traceability	✓	●

Feature	YES	NO
Configurable Alert & Reminder	✓	●
Role Based Security (RBS) System	✓	●
Real Time Statistical Analytics	✓	●
Advanced Reporting	✓	●
Data Export	✓	●
Electronic Signature	✓	●
Easy Integration to ERP Systems	✓	●

The real benefit from Revol Instrument interfacing is more reliable data. However, the cost of using incorrect data is rarely considered when looking at the ROI of interfacing. Without a proper interface, all of the data collected to the LIMS is suspect due to typographical errors. The cost of professionally installed LIMS interfacing will typically amount to less than 10 % of the total LIMS cost, a small price to pay to protect the integrity of the data.
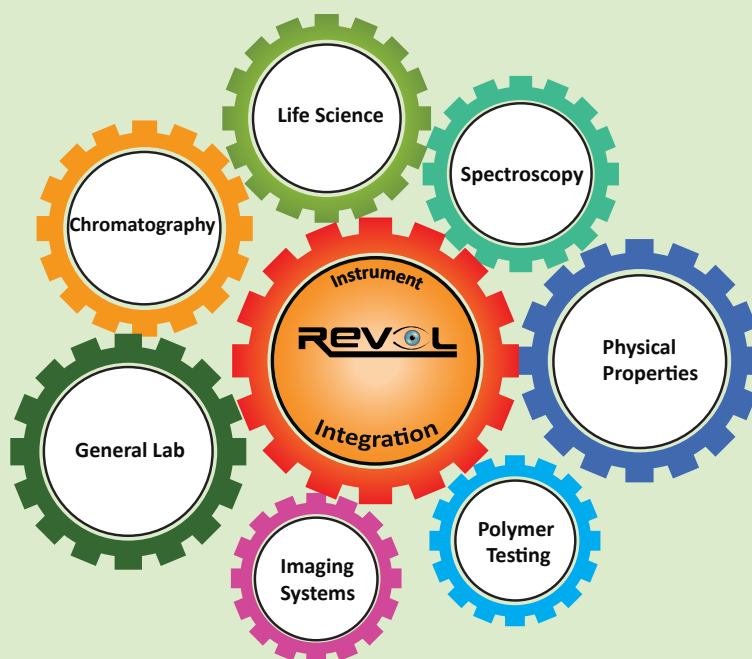
/ Instrument Integration /

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Revol Instrument Integrator state of art instrument connectivity enable to integrate instruments easy and quick. Instrument Integrator able to connect most of the laboratory instruments straight out of box with a powerful configuration tool and retrieve data from different file formats.

Life Science

Spectroscopy

Chromatography

Instrument

REVOL

Integration

Physical Properties

General Lab

Polymer Testing

Imaging Systems

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Revol Integrator Benefits

The direct integration of LIMS with lab instruments saves precious time, and eliminates the possibility of typing errors in results often present in data entered manually. These benefits are especially illustrative when applying gas chromatographs, which generate a significant portion of laboratory data

Revol Integrator ensures that laboratory results and sample information are accurately and efficiently transferred in real time between instruments, instrument data systems and informatics systems such as LIMS, ELN, ERP, LES, SDMS, DMS, SAP...etc.

- Eliminating manual data entry and transcription errors increases the confidence that the laboratory has in the data they are reporting enabling them to reduce the time and effort spent reviewing data for errors

- Full integration between all systems simplifies compiling data for reporting and analysis enabling quicker, more efficient delivery of results to business leaders, decision makers and clients

- Using one solution for all integration requirements can reduce costs for deployment allowing the laboratory to benefit from more efficient data management throughout the organization

- Automate many of the routine manual tasks that analysts carry out on a daily basis

- 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

- Security, audit trail and archiving features meet regulatory requirements

- Scalable architecture suits all requirements from single workstation to enterprise wide deployment

- One Solution connects all of your instruments and systems to each other to create a totally integrated lab

Advanced interfacing to instruments and subsystems will improve automation and minimize errors, thereby resulting in higher quality and accuracy without further investments in supplementary solutions. Revol Instrument Integrator is supported by technologies that have already demonstrated their suitability in everyday use, therefore rendering its administration simple and effortless. By eliminating transcription errors and increasing user compatibility, Revol Integrator will improve efficiency in laboratories worldwide.

Revol Instrument Integrator is extremely flexible and communicates with instruments and subsystems using file transfer, TCP/IP, serial port or web service.

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20 Reasons for Revol Instrument Integrator

- Global Access - Complete Web Based Technology
- Meet Analytical, Life Science & Healthcare GMP, GLP
- Cost Effective Solution for every individual lab
- Paperless Laboratory Concept
- Traceable Analysis Management
- Smart Analysis Scheduler
- Easy Instrument Integration
- Effective Resources Utilization
- Efficient Sample Management
- Optimized Inventory Management
- Healthy Instrument Management
- Complete Document Management
- Traceable Escalation Management
- Configurable Email, Alert & Reminder System
- Management Dashboard Analytics (MIS)
- Advanced Reporting
- Complete Audit Trail & Version Control
- Maintaining Data Integrity
- Strong Data Security
- Easy Integration to other ERP

Compliance - Authenticity and Traceability

Compliance

Revol Instrument Integrator is in compliance with FDA, CAP, ISO 17025 requirements in all aspects like authenticity, Integrity authentication, traceability, non-repudiation, Complete Audit Trail... etc.

The major requirement of any regulatory section is E-Signature for electronic records, for closed systems (where access is controlled by the persons that are responsible for the content of the electronic records) including authenticity, integrity, confidentiality and non-repudiation. The requirements for open systems (like the Internet) cover electronic records from the point of their creation to the point of receipt and also call for authenticity, integrity and confidentiality, as well as additional measures such as encryption and digital signatures (defined as cryptographically-based).

Revol Instrument Integrator is designed to ensure the authenticity, integrity, and when appropriate, the confidentiality of electronic records from the point of their creation to the point of receipt, and as needed, additional measures such as document encryption and appropriate digital signature standards and to ensure that the signer cannot readily repudiate the signed record as not genuine.

FDA21CFR Part 11, ISO 17025

- Password Policy
- Version Control
- Access Control Policy
- Access Level Permission
- Data Validation
- Audit Trail

NABL, CAP...etc.

- Data Input Control
- Data Output (Print, Export)
- Data Backup
- Data Archive
- Document Checksum
- Document Encryption
- E-Signature

Traceability?

Intake Data

Customer Data

Raw Materials & Ingredients Data

Dispatch Data

Process Data

Finished Goods Data

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Expertise & Supports

Expertise

Work with Revol Team with decades of experience in various industries. Revol Team can examine your existing workflow and business processes, identifies opportunities for improvement and builds the roadmap to optimize your lab's productivity and operating cost.

Implementation

Customize the Business Suite you want in weeks and get implemented in a month time rather than in months or in years. Revol Business Suite is easy to configure and fine-tune to your terminology and process. User friendly menus and tables make it possible to quickly launch your system into production.
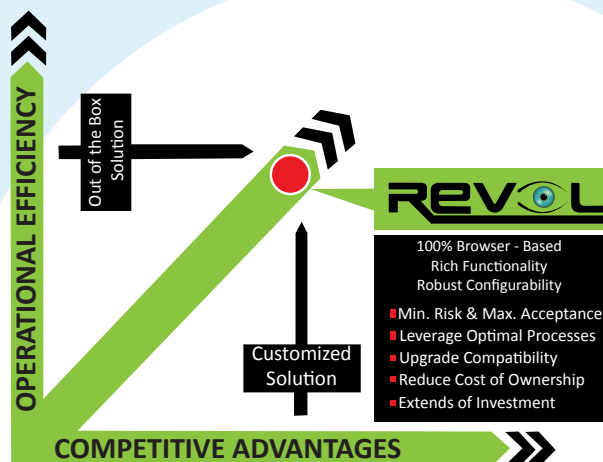
Validation Support

Validation-ready implementation. The existing rich functionality and feature set reduces the time needed to configure, test, and deploy the system. Little to no custom code needs to be developed for standard implementation.
This lowers the overall project timeline and dramatically reduces the validation requirements.

Customer Support

Offers a comprehensive support program to make sure Customers keep getting the results they want, including:
• 24/7 Online Support website
• Phone support through local offices during regular business hours
• Emergency response time of within one working hour, during regular support hours
• Software installation support
• Software Upgrade support

OPERATIONAL EFFICIENCY

Out of the Box Solution

REVOL
100% Browser - Based
Rich Functionality
Robust Configurability
■ Min. Risk & Max. Acceptance
■ Leverage Optimal Processes
■ Upgrade Compatibility
■ Reduce Cost of Ownership
■ Extends of Investment

Customized Solution

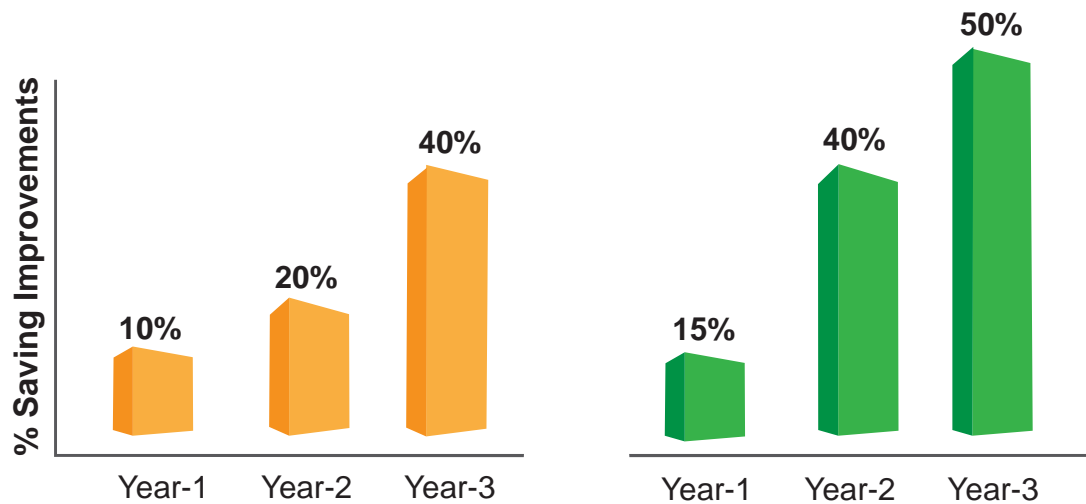### COMPETITIVE ADVANTAGES

EXPERIENCE THE VALUE OF **REVOL**

> User acceptance is enhanced.

> Competitive specific configurations continue to function following software upgrades.

> Customers are empowered to extend/configure in-house

> Useful life of investment is maximized

Security

• Can be accessed from anywhere

• Using Internet with no plug-ins, downloads or applets

• Access is completely Role-based and User-based pass word protected for security

• The benefit of this type of solution is that users internal and external to the Business as well as customers and vendors, can easily access the information they need and to which they have rights - anytime, from anywhere

• Data backup and restore is completely secured

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Revol Benefits

% Saving Improvements

OPTIMIZE OPERATIONS

10% — Year-1
20% — Year-2
40% — Year-3

CONTROLS COST

ENSURE COMPLIANCE

15% — Year-1
40% — Year-2
50% — Year-3

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