



# LabVantage Scientific Data Management System

LabVantage Scientific Data Management System (SDMS), fully integrated with the LabVantage LIMS platform, provides end-to-end data integrity and a more compliant and efficient lab. It seamlessly collects and secures all files created and maintained in the laboratory and stores them in a protected repository. Results from instruments and other data sources are captured and stored directly in the LIMS.

## HIGHLIGHTS

- **Single, powerful platform and user interface for SDMS, LIMS, ELN, and LES with no interfaces required**
- **Seamless instrument connectivity and data capture (e.g. emails, real-time streams, local drives, and file shares)**
- **Robust data capture and processing including test results and descriptive metadata**
- **End-to-end data integrity with data captured securely and directly and under full audit.**
- **Accept, process, and store large data volumes**

## Key Benefits

### Gain time and business intelligence

Automate data capture from complex instruments, real-time streams, emails, and other sources (e.g. local drives, file shares) without the need for vendor-proprietary APIs

### Maintain data integrity compliance

Capture, track, secure, audit, and store data in accordance with ALCOA+

### Optimize lab analysis

Capture and store test data and descriptive metadata directly in the LIMS

### Minimize steps with a single user interface

Manage complex instruments and data sources with dashboard view, drill-down on instruments and datasets, dataset view across instruments, etc.

### Scale lab operations efficiently

Accept, process, and store large volumes of data with an SDMS designed from the ground up with flexible storage options (e.g. centralized LIMS controlled file system, database, or Cloud storage)

### Reduce bandwidth bottlenecks

Deploy data collectors on local servers with pull or reference data collection methods for large datasets and/or connections with remote locations

### Extract meaningful data to the LIMS

Configure with powerful Talend-based parsers

# Instrument Connectivity in One Powerful Platform

Your lab is facing a digital transformation. Analysis must be completed with better results in fewer hours as data flows in greater volume and velocity from more instruments with greater complexity, and for many, in real-time. To manage all this data, your lab requires an SDMS that's fully integrated with a robust and modern LIMS platform.

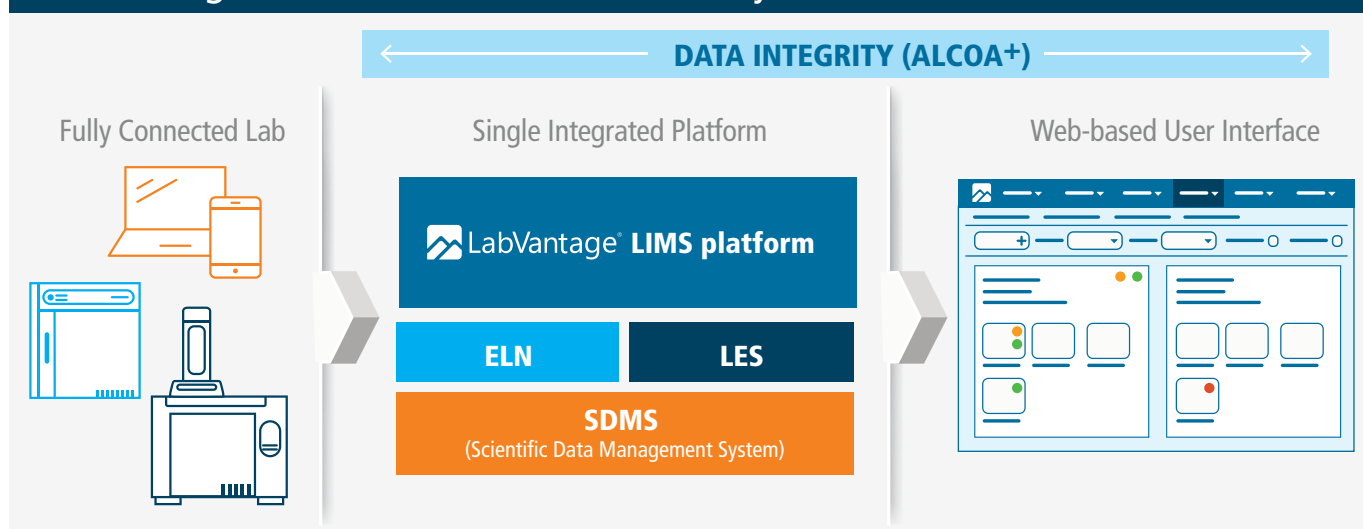
## Lab Data Without the Integration Headaches

Your lab instruments, with proprietary APIs and changing data formats, make one-off integrations expensive and time-consuming, and future changes next to impossible. With LabVantage SDMS, our Talend-based parsers and handlers extract meaningful data and store all metadata into our datastore for retrieval from our LIMS platform, including access from our ELN and LES. There is no need for connector kits or a complicated integration.

## A Single UI for Your Data and LIMS Workflows

With a standard user interface, you can manage data captured from LabVantage SDMS as well as your lab workflows in our LIMS platform. Dashboards provide a view of connected instrument health and availability, drill-downs on both instruments and datasets, and views of data details. With LabVantage SDMS, your lab is truly connected.

## LabVantage SDMS: Instrument Connectivity in One Platform



LabVantage SDMS connects seamlessly with complex instruments and external data sources, capturing, securing, and storing data directly into the LabVantage LIMS platform. It's all managed by a single, web-based user interface.

# Capture, Reuse, and Maintain Data Integrity

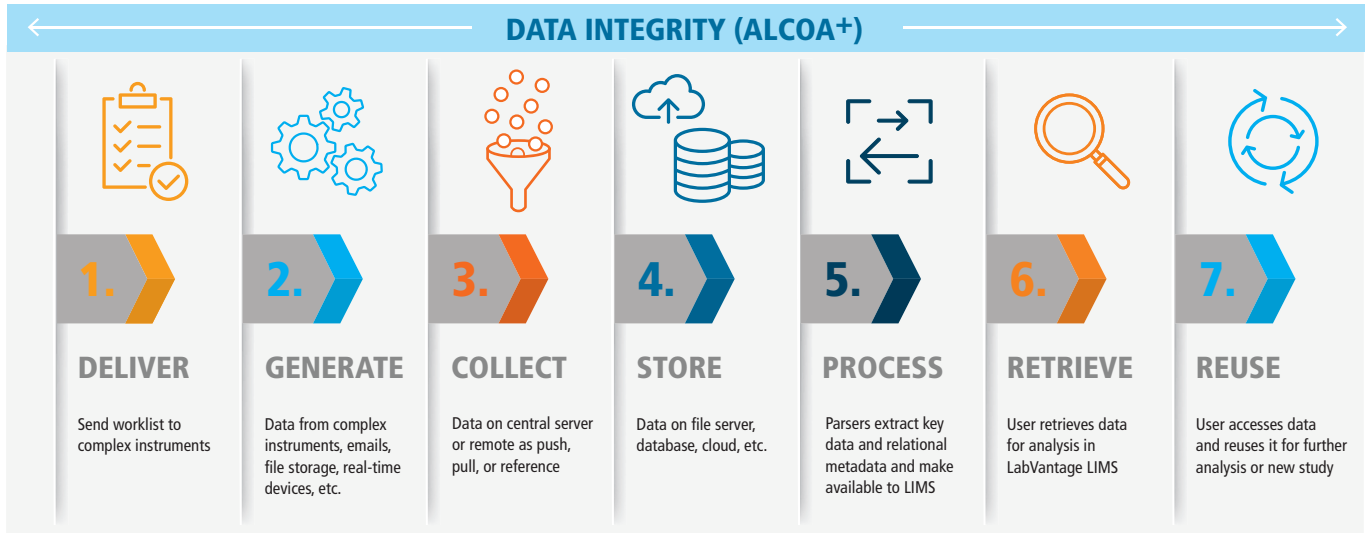
You're managing your final results in your LIMS, but what are you doing with all that supporting raw data? While it may be stored on a local PC running the instrument software and backed up on a central server, it is not really accessible or under control.

If you needed to reproduce an experiment, it could be difficult to find original research data or access related metadata that may have been documented inconsistently. Added to those challenges, data could be manipulated either by accident or on purpose. The bottom line: the integrity of your data is at risk.

## Data Integrity Compliance, End-to-End

LabVantage SDMS enables your connected lab, automating data capture and reuse with data integrity every step of the way. And since managing all that data requires a strong infrastructure, LabVantage SDMS was built from the ground up to accept, process, and store large volumes of data in a secure repository. LabVantage SDMS ensures that all data supporting final results are kept securely and available for retrieval during audits, investigations, and rework.

## LabVantage SDMS: Capture, Reuse, and Maintain Data Integrity



LabVantage SDMS enables your connected lab, automating data capture and reuse, with data integrity every step of the way.

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## LabVantage SDMS, part of the LabVantage LIMS platform which includes ELN and LES, provides you with benefits throughout the data capture and reuse process:

- **Deliver** With LabVantage LIMS, you can create and then send a worklist to lab instruments with information about samples, controls, and additional data as needed.
- **Generate** Data is generated from software that controls complex instruments such as HPLC, LC, and GC, and real-time data from equipment such as freezers and stability storage chambers. Some of this data is sent to file systems as files, into inboxes as emails or email attachments, or streamed real-time.
- **Collect** LabVantage SDMS collects all generated data. Data collection rules define which data to collect, how frequently to collect, and where to find it. A distributed architecture enables LabVantage SDMS to collect data locally when necessary, limiting bandwidth and central storage requirements for remote locations and/or large-volume data generators.
- **Store** All data files are secured and stored in a data repository, either by direct storage or by reference for large or remotely stored data. Data storage is flexible, supporting file systems, databases, and Cloud storage.
- **Process** Talend-based parsers extract test data and meta-data and send it to all other elements of the LabVantage platform: LIMS, ELN, and LES. Data parsers can be created by LabVantage Professional Services or created by customers using the Talend drag-and-drop user interface.
- **Retrieve** Data and metadata are directly available for analysis within the LIMS. Users search for and access data in a single user interface within the LabVantage LIMS platform. Queries can be pre-defined or designed by the end-user on an ad-hoc basis.
- **Reuse** Data in the SDMS is stored long-term and available for retrieval through LabVantage LIMS for additional analysis or future studies.

**TO LEARN MORE ABOUT HOW LABVANTAGE SDMS** enables your connected lab, simplifies data management, and helps you maintain end-to-end data integrity, contact LabVantage at: [info@labvantage.com](mailto:info@labvantage.com)



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### ABOUT LABVANTAGE SOLUTIONS

A recognized leader in enterprise laboratory software solutions, LabVantage Solutions dedicates itself to improving customer outcomes by transforming data into knowledge. The LabVantage informatics platform is highly configurable, integrated across a common architecture, and 100% browser-based to support hundreds of concurrent users. Deployed on-premise, via the cloud, or SaaS, it seamlessly interfaces with instruments and other enterprise systems – enabling true digital transformation. The platform consists of the most modern laboratory information management system (LIMS) available, integrated electronic laboratory notebook (ELN), laboratory execution system (LES), and scientific data management system (SDMS); and, for healthcare settings, a laboratory information system (LIS). We support more than 1500 global customer sites in the life sciences, pharmaceutical, medical device, biobank, food & beverage, consumer packaged goods, oil & gas, genetics/diagnostics, and healthcare industries. Headquartered in Somerset, NJ., with global offices, LabVantage has, for four decades, offered its comprehensive portfolio of products and services to enable customers to innovate faster in the R&D cycle, improve manufactured product quality, achieve accurate record-keeping, and comply with regulatory requirements.

**For more information, visit [www.labvantage.com](http://www.labvantage.com).**