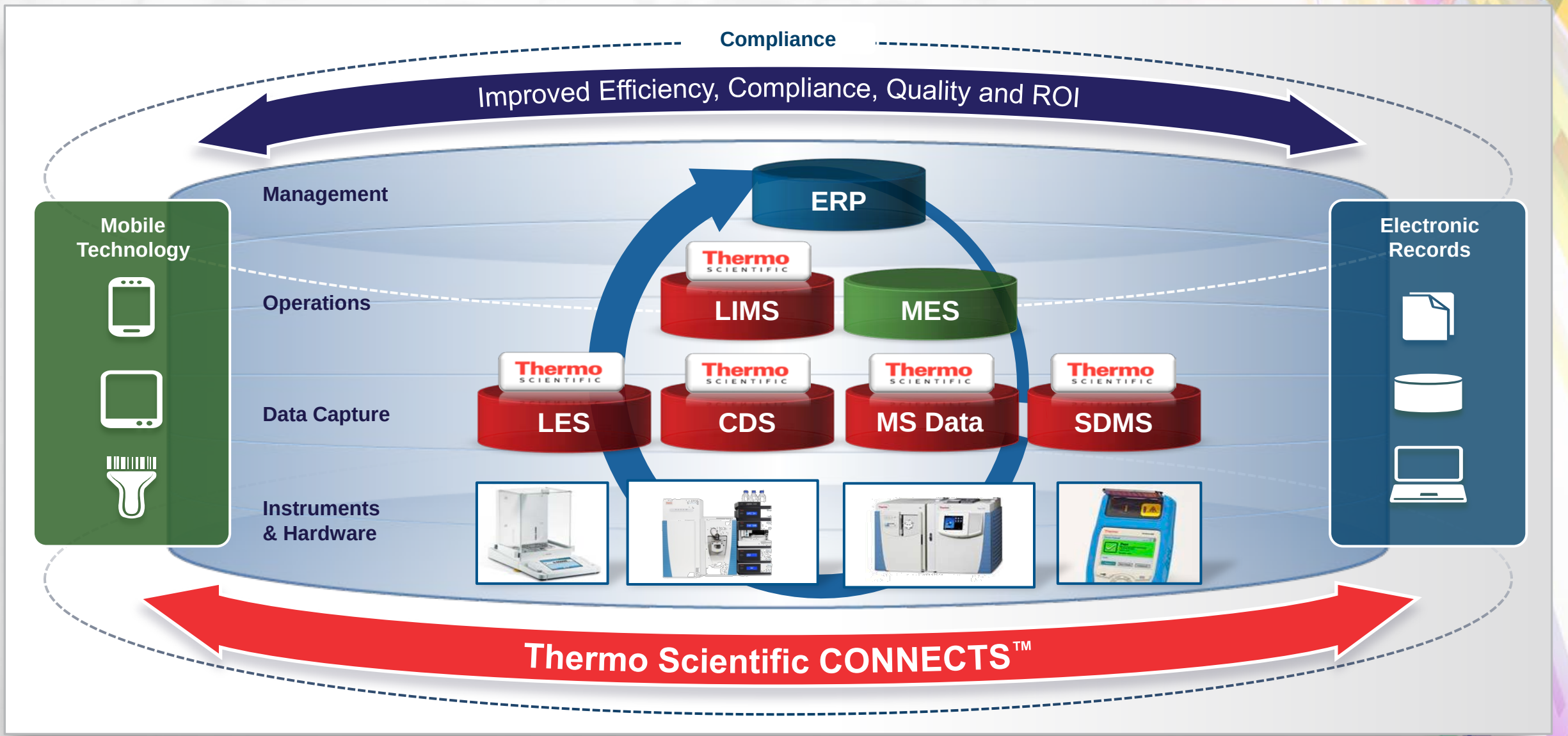
Accelerating
Innovation
& Enhancing Productivity

Innovation Through Laboratory Informatics

Trish Meek
Director of Product Strategy & Sr. Marketing Manager

Today's Laboratory Environment

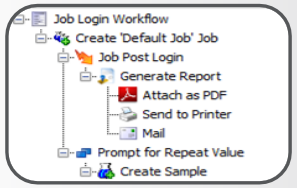


Enabling the Paperless Lab through Enterprise Software

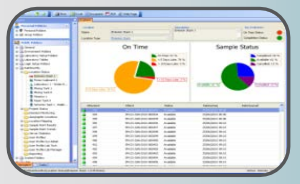
Integrated Informatics

Enterprise Integration

Product Release

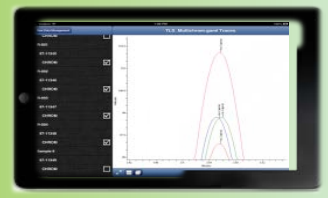


Lab Workflow



Business Intelligence

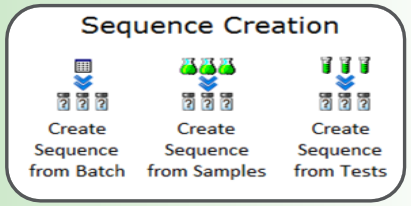
Samples, Tests & Results



Mobile Support

Stability Testing

Instruments



Chromeleon CDS Software Integration

Delivering Productivity, Ease of Use and Compliance

The Complete Laboratory Process

Lab Management

LIMS

Complete laboratory management

Sample, test & result management

Management of lab personnel & resources

Process optimization & standardization

Data Visualization

SDMS

Visualize without original application

Laboratory data archival, retrieval and preservation

Support for >180 instrument data formats

Vendor independent XML for long-term storage

Acquisition and Processing

CDS

Simplify your lab operations

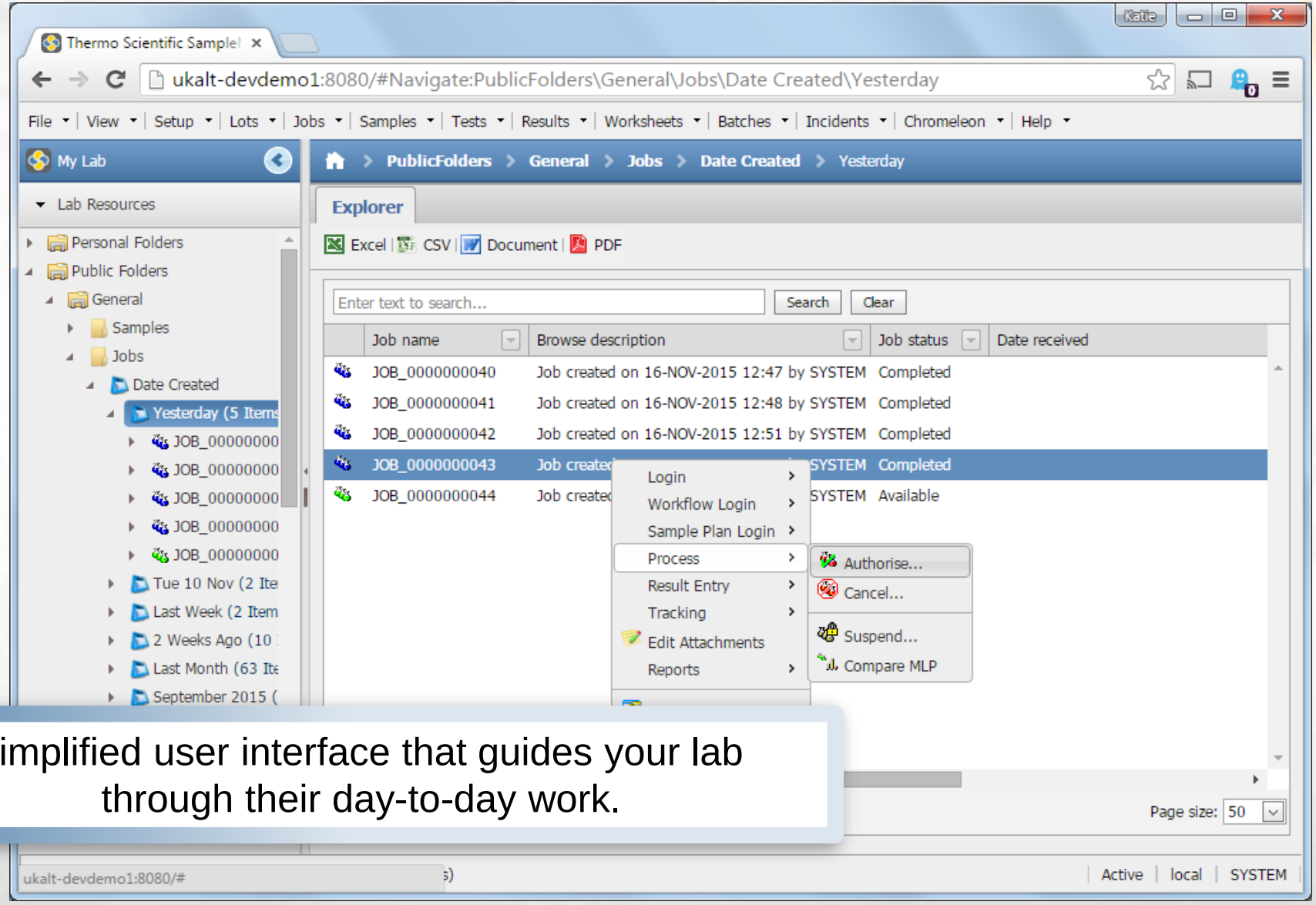
Save 5–60 min per sequence using smart processing tools

Get more “right-the-first-time” analyses with intelligent functionality

Network-independent data acquisition for 24/7 uptime

Enabling customer productivity and innovation

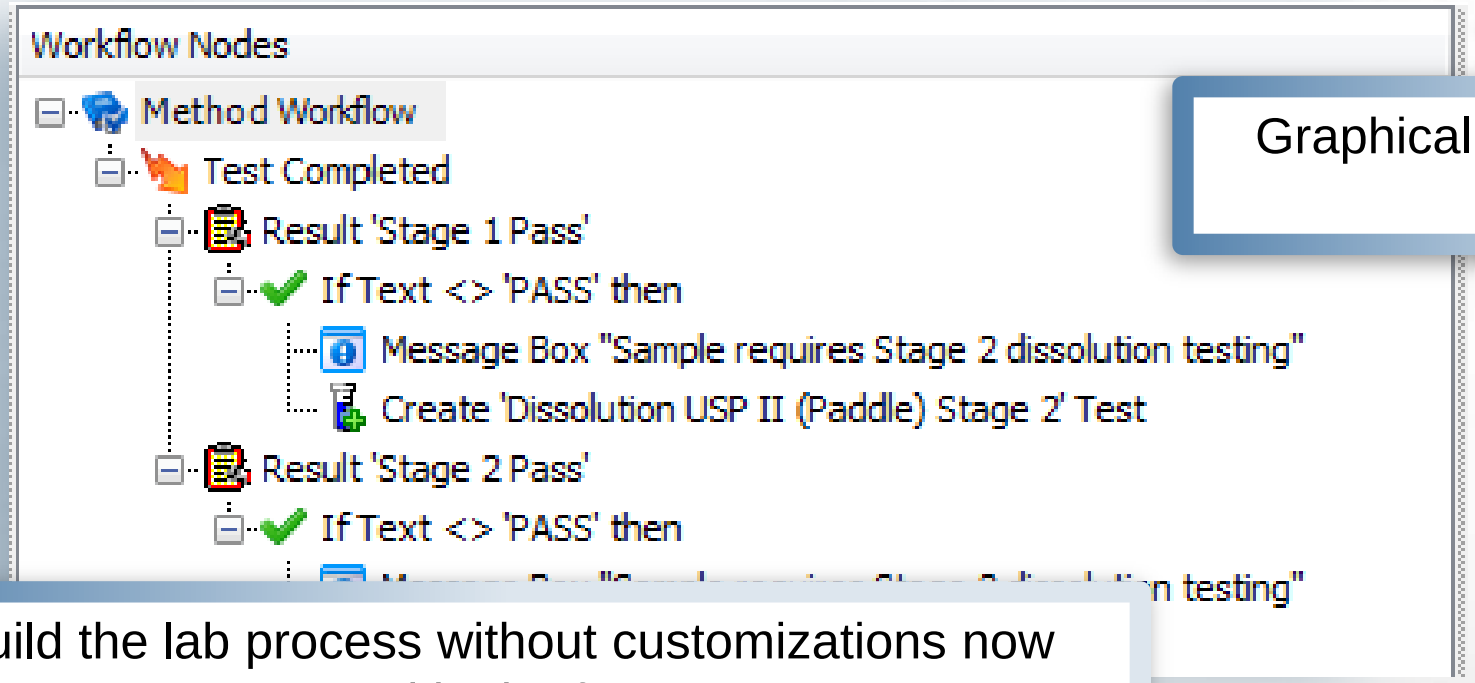
Thermo Scientific SampleManager LIMS



A simplified user interface that guides your lab through their day-to-day work.

Workflows Guide Users Through the Lab Process

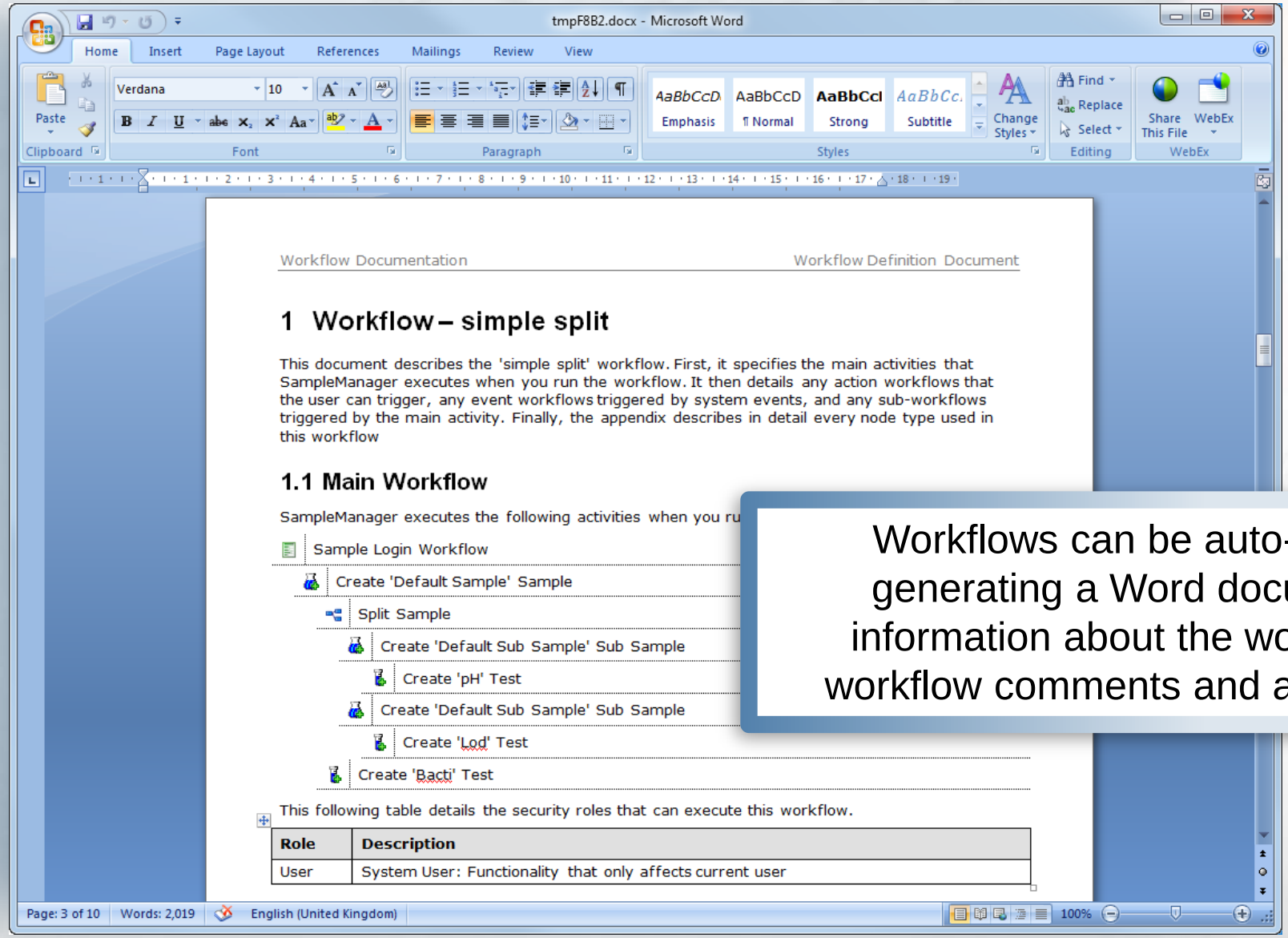
Automate your laboratory decisions and improve your ability to respond to the needs of your business.



Graphically define your lab process in the system.

Build the lab process without customizations now and in the future.

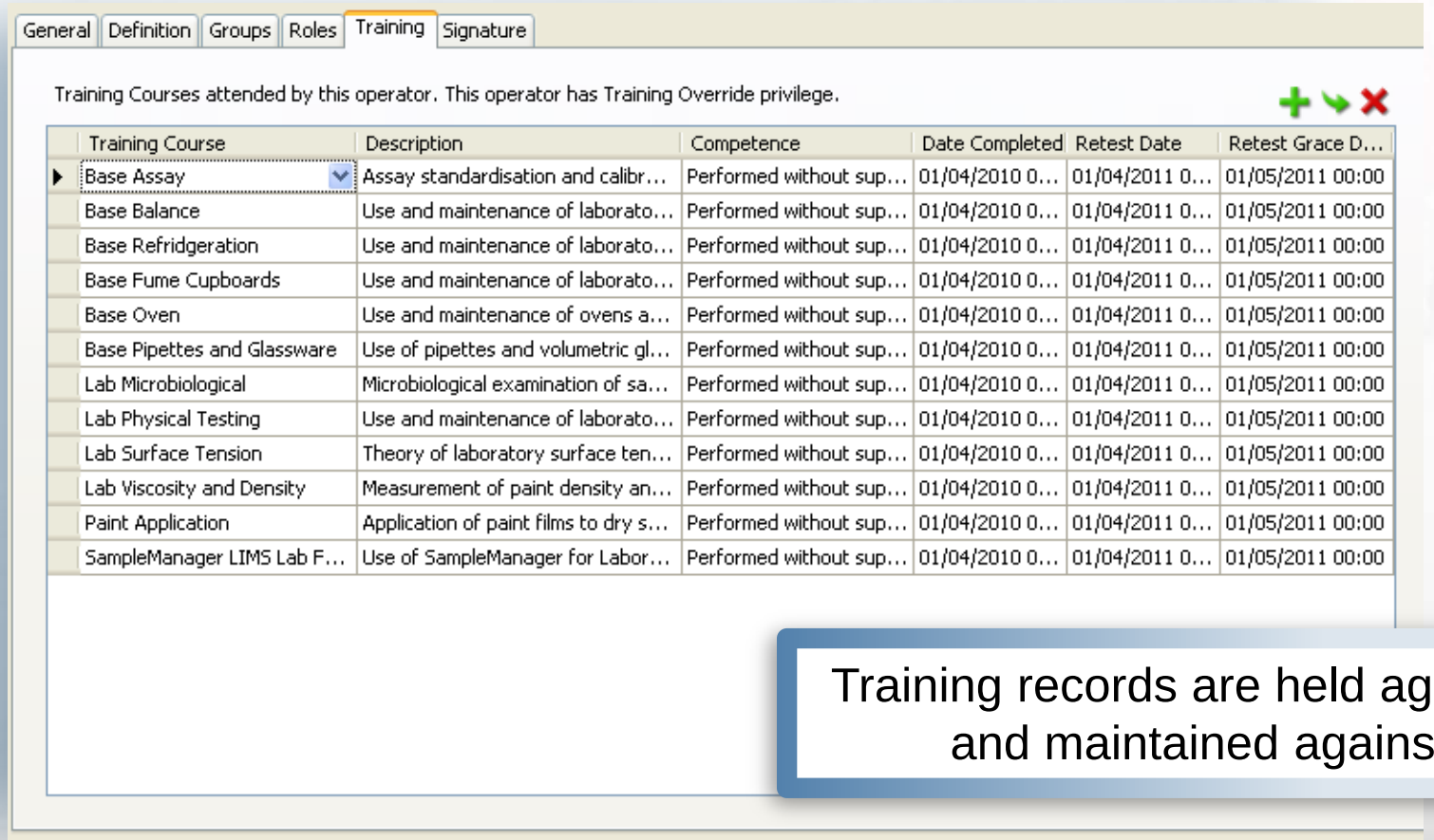
Auto-Documenting Workflow



Workflows can be auto-documented, generating a Word document including information about the workflow definition, workflow comments and all the nodes used.

Operator Training

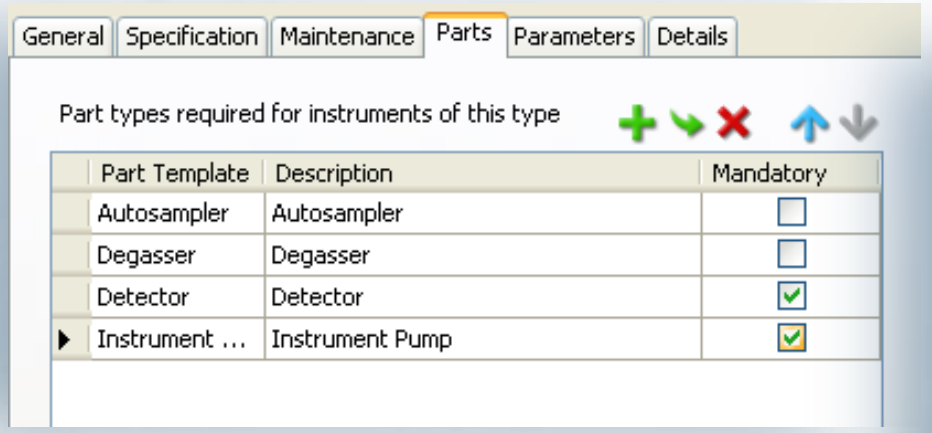
Training is verified for instruments and lab testing before it can be executed.

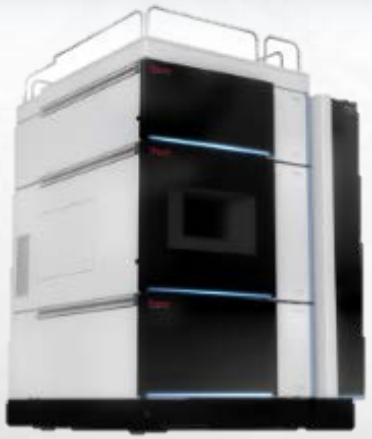


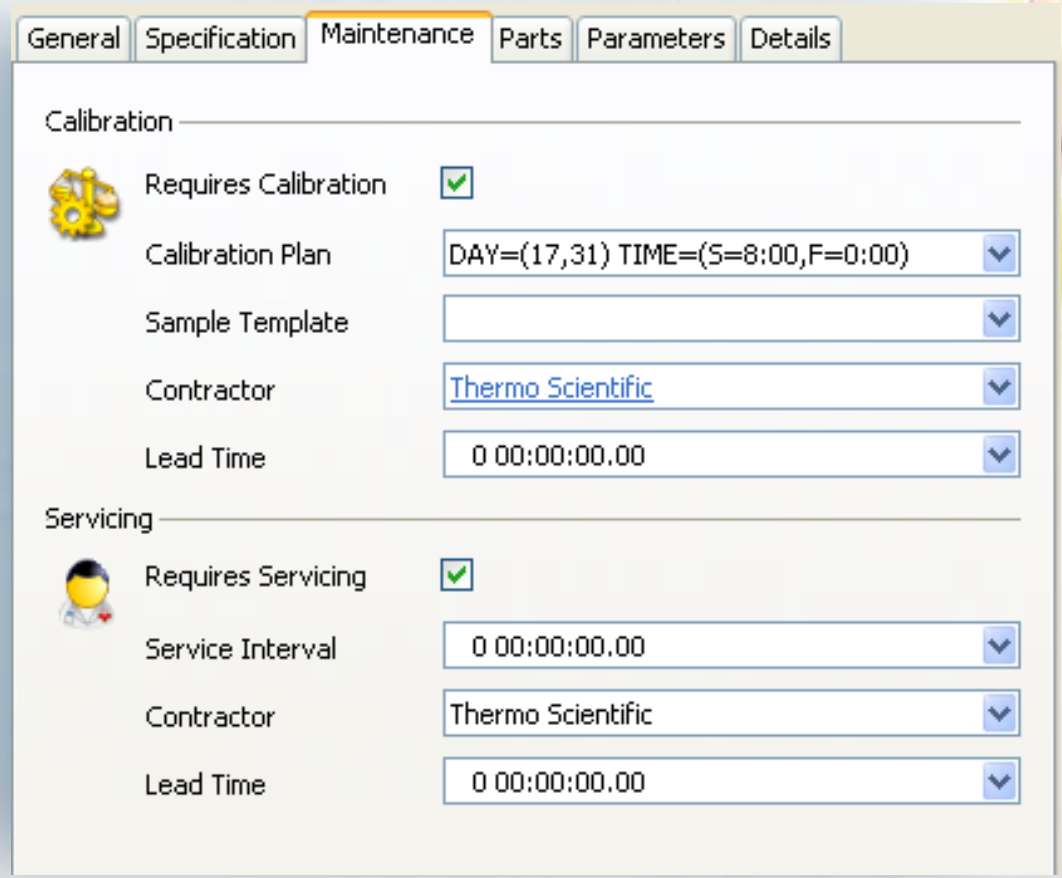
Training Course	Description	Competence	Date Completed	Retest Date	Retest Grace D...
Base Assay	Assay standardisation and calibr...	Performed without sup...	01/04/2010 0...	01/04/2011 0...	01/05/2011 00:00
Base Balance	Use and maintenance of laborato...	Performed without sup...	01/04/2010 0...	01/04/2011 0...	01/05/2011 00:00
Base Refridgeration	Use and maintenance of laborato...	Performed without sup...	01/04/2010 0...	01/04/2011 0...	01/05/2011 00:00
Base Fume Cupboards	Use and maintenance of laborato...	Performed without sup...	01/04/2010 0...	01/04/2011 0...	01/05/2011 00:00
Base Oven	Use and maintenance of ovens a...	Performed without sup...	01/04/2010 0...	01/04/2011 0...	01/05/2011 00:00
Base Pipettes and Glassware	Use of pipettes and volumetric gl...	Performed without sup...	01/04/2010 0...	01/04/2011 0...	01/05/2011 00:00
Lab Microbiological	Microbiological examination of sa...	Performed without sup...	01/04/2010 0...	01/04/2011 0...	01/05/2011 00:00
Lab Physical Testing	Use and maintenance of laborato...	Performed without sup...	01/04/2010 0...	01/04/2011 0...	01/05/2011 00:00
Lab Surface Tension	Theory of laboratory surface ten...	Performed without sup...	01/04/2010 0...	01/04/2011 0...	01/05/2011 00:00
Lab Viscosity and Density	Measurement of paint density an...	Performed without sup...	01/04/2010 0...	01/04/2011 0...	01/05/2011 00:00
Paint Application	Application of paint films to dry s...	Performed without sup...	01/04/2010 0...	01/04/2011 0...	01/05/2011 00:00
SampleManager LIMS Lab F...	Use of SampleManager for Labor...	Performed without sup...	01/04/2010 0...	01/04/2011 0...	01/05/2011 00:00

Training records are held against the operator and maintained against the analysis.

Simplify your instrument management with instrument calibration and maintenance.

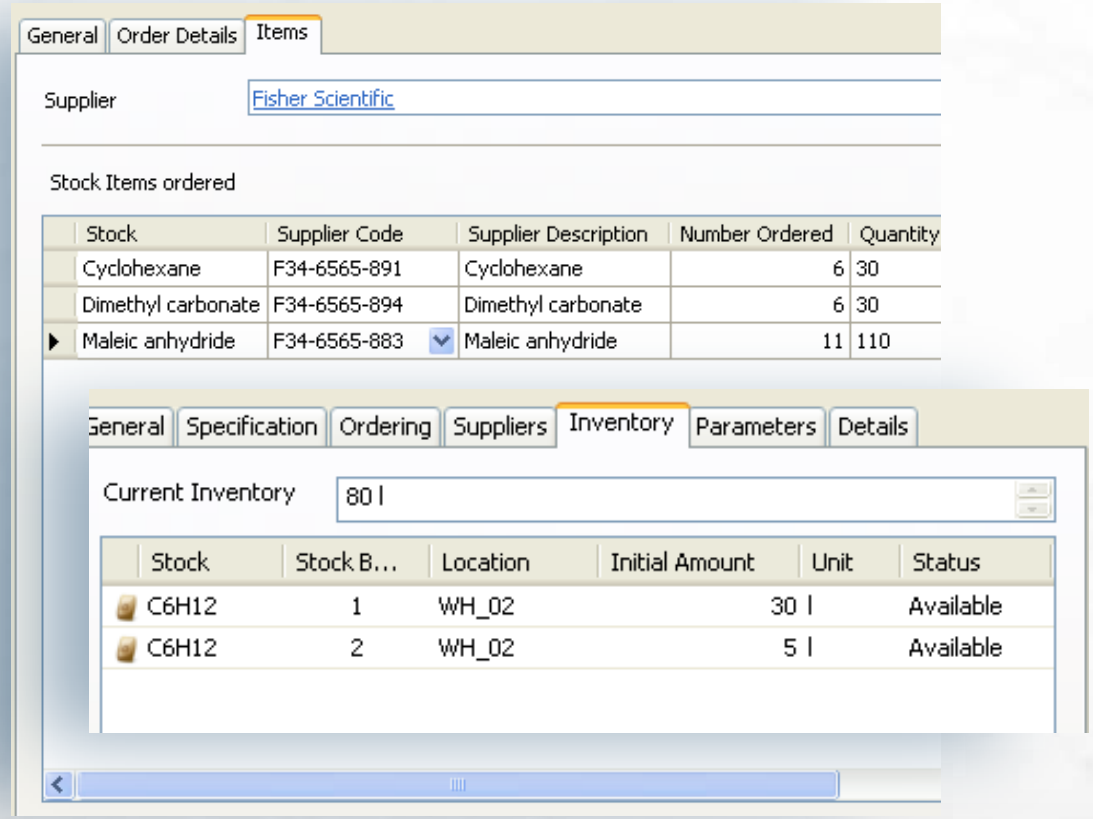


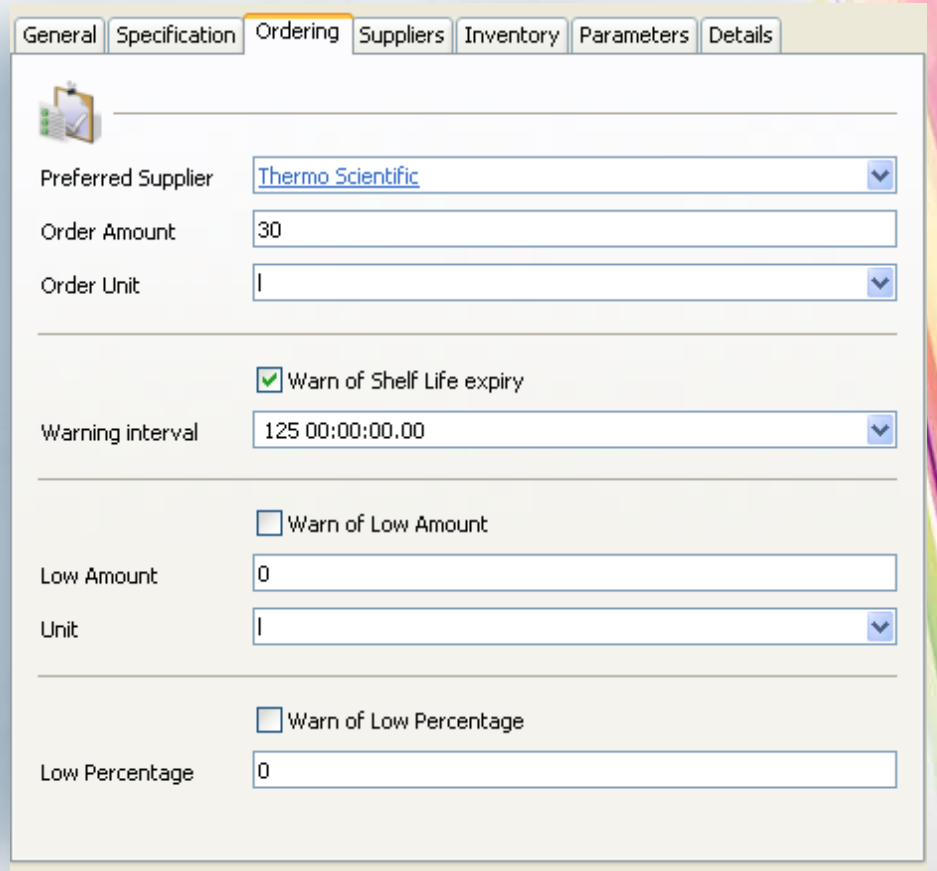




Stock Management

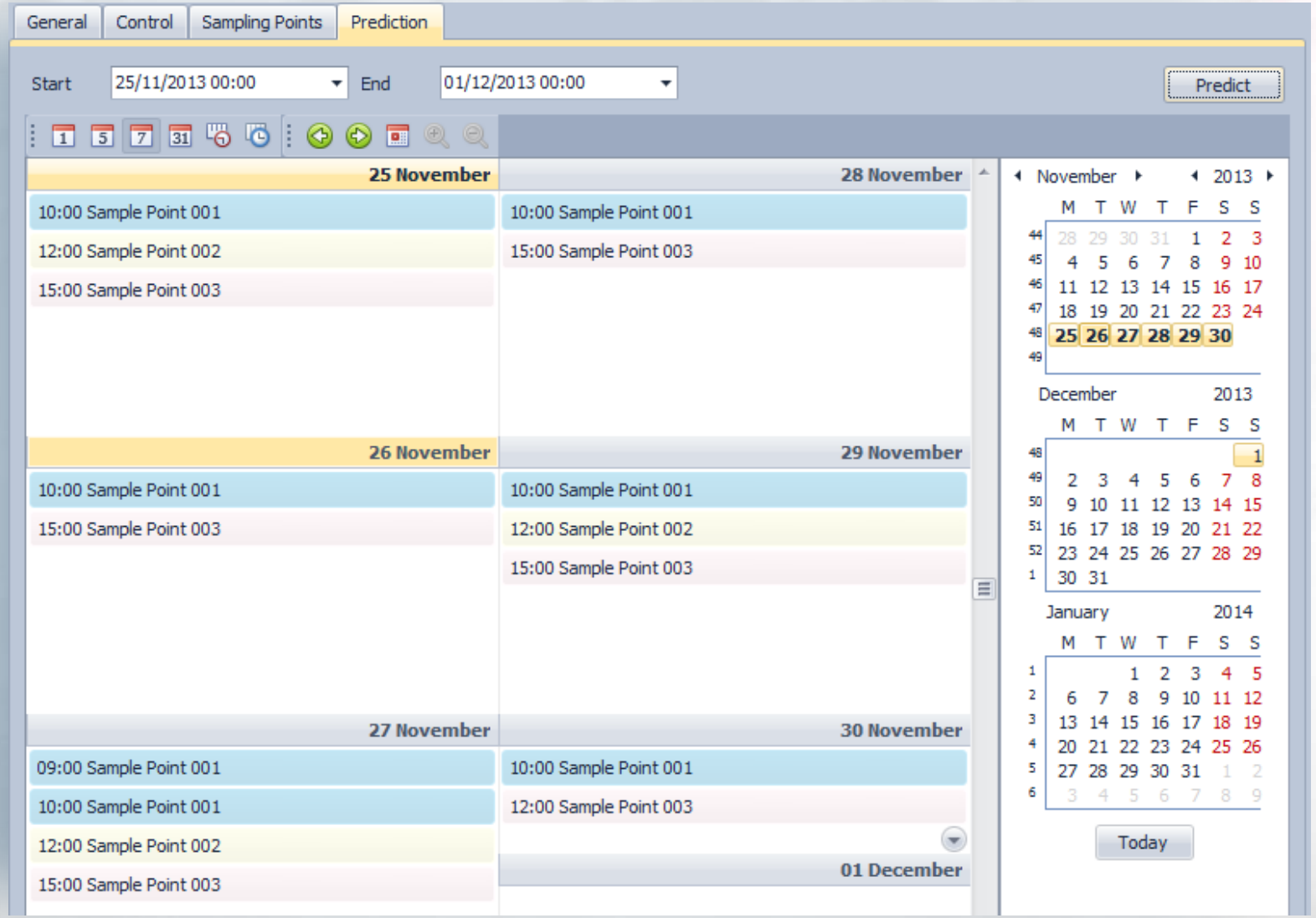
Stock levels can be monitored.
New orders can be placed and tracked.



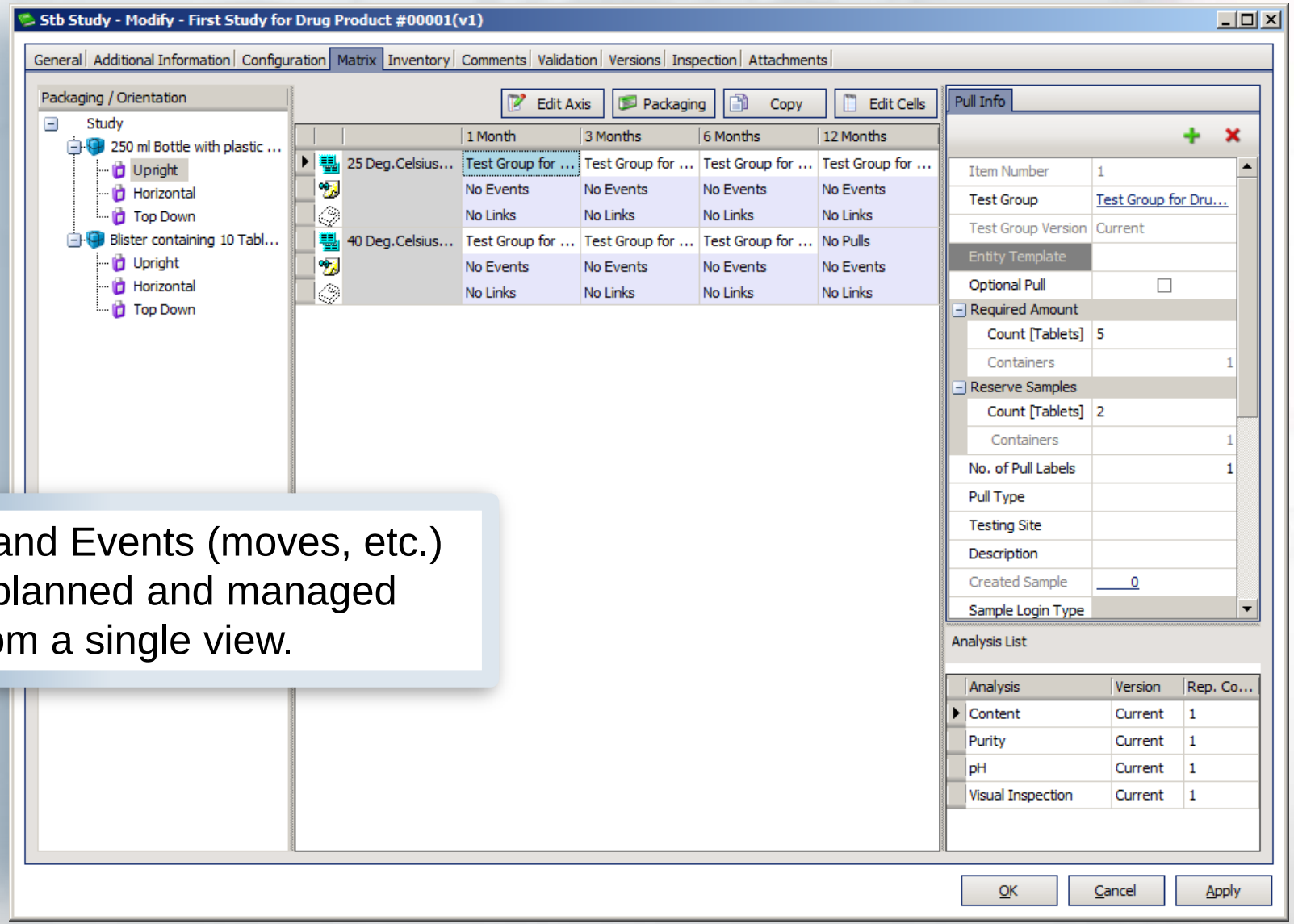


ThermoFisher SCIENTIFIC | Thermo SCIENTIFIC | Fisher Scientific

Prediction of Samples According to Schedule

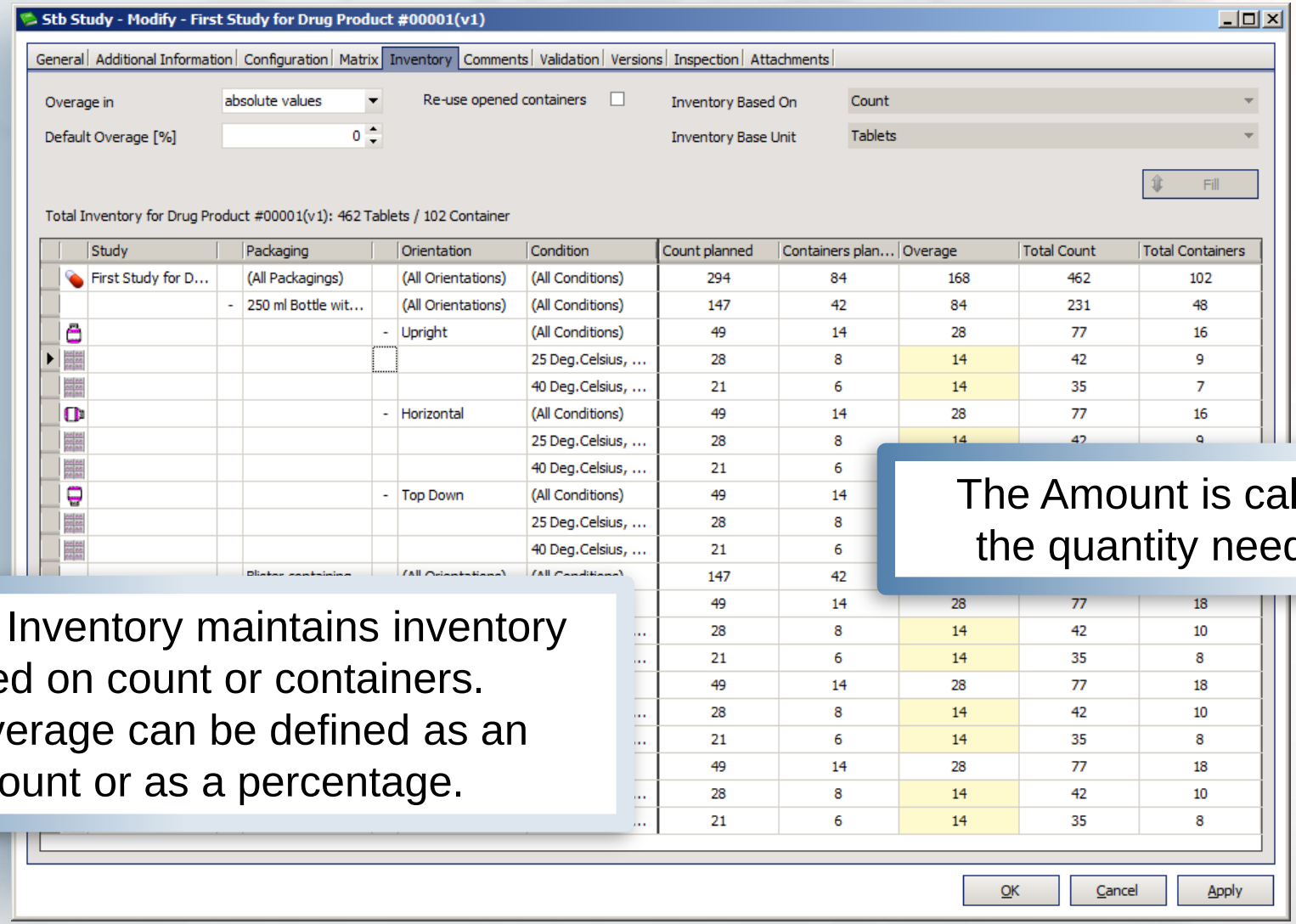


Managing Stability Studies



Pulls, Tests and Events (moves, etc.) can be planned and managed from a single view.

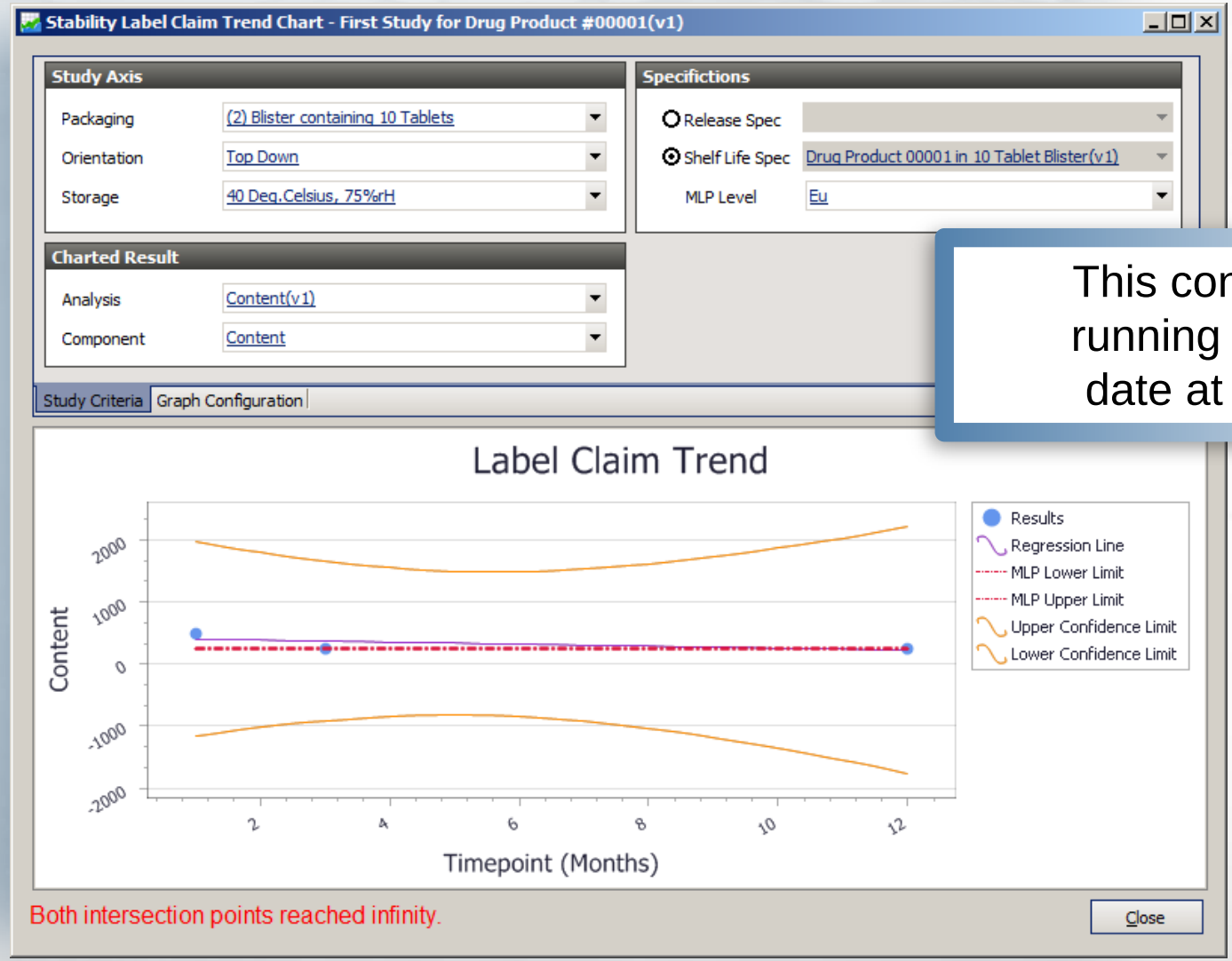
Planning and Managing Study Inventory



The Study Inventory maintains inventory based on count or containers.
The overage can be defined as an amount or as a percentage.

The Amount is calculated based on the quantity needed per test group.

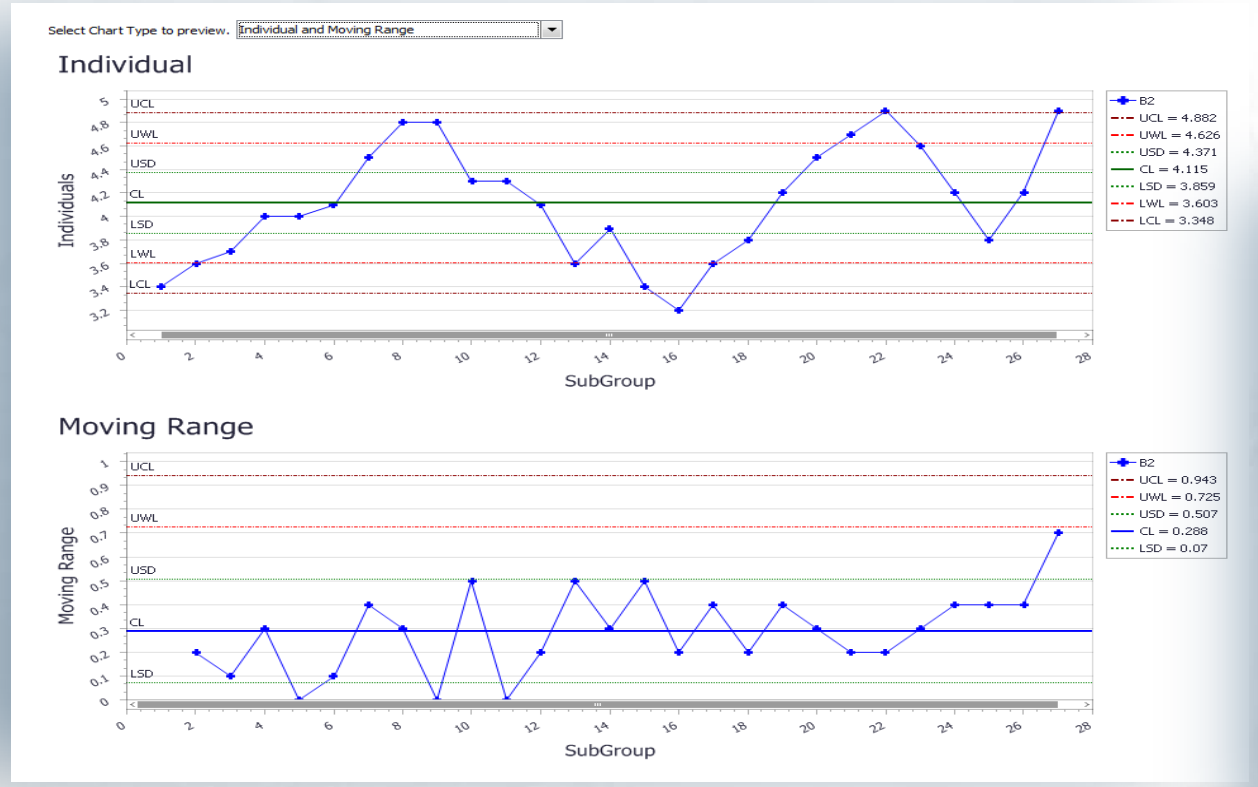
Calculate Expiration Date Automatically

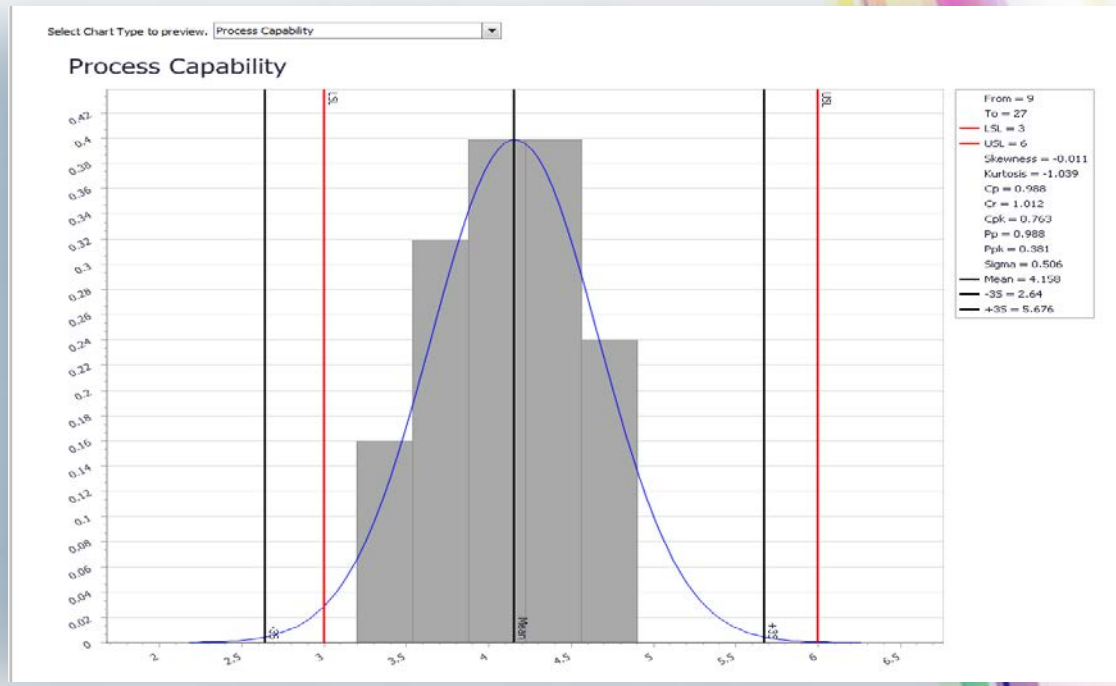


This configurable graph provides a running view the projected expiration date at any given point in the study.

In-Built Statistical Quality Control

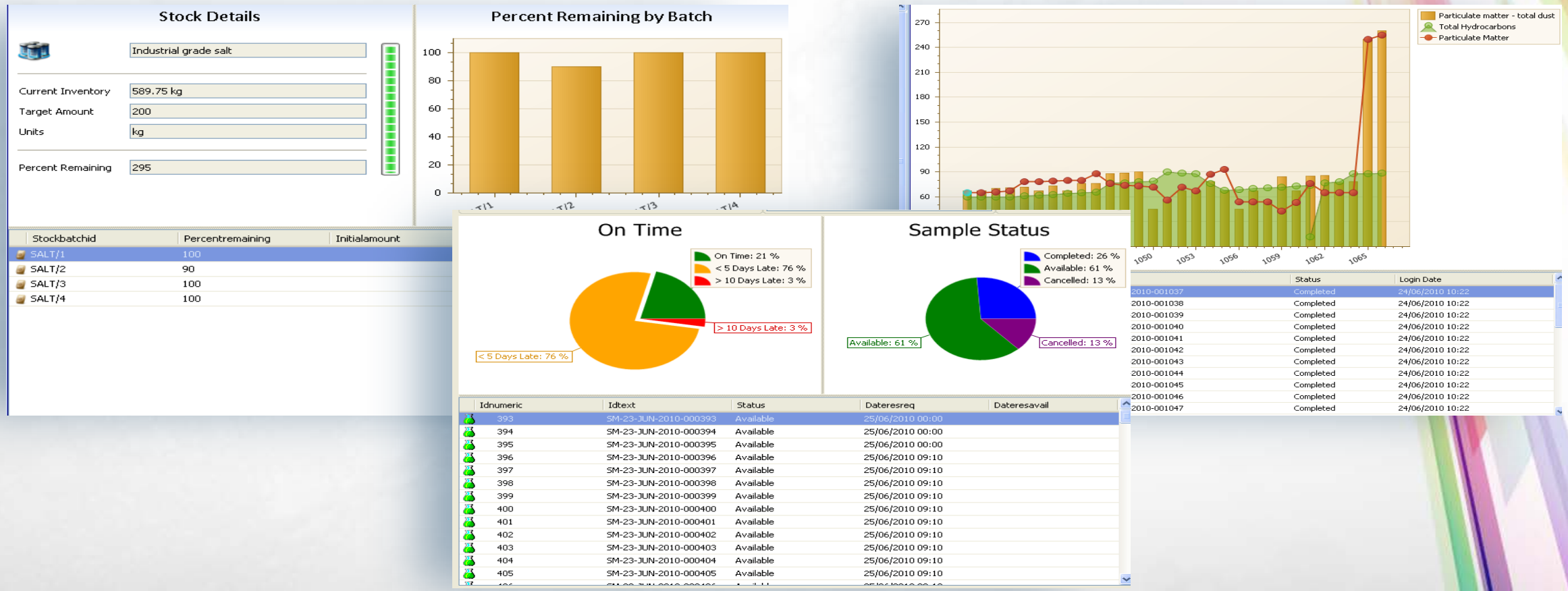
Get insight into your data in real time.



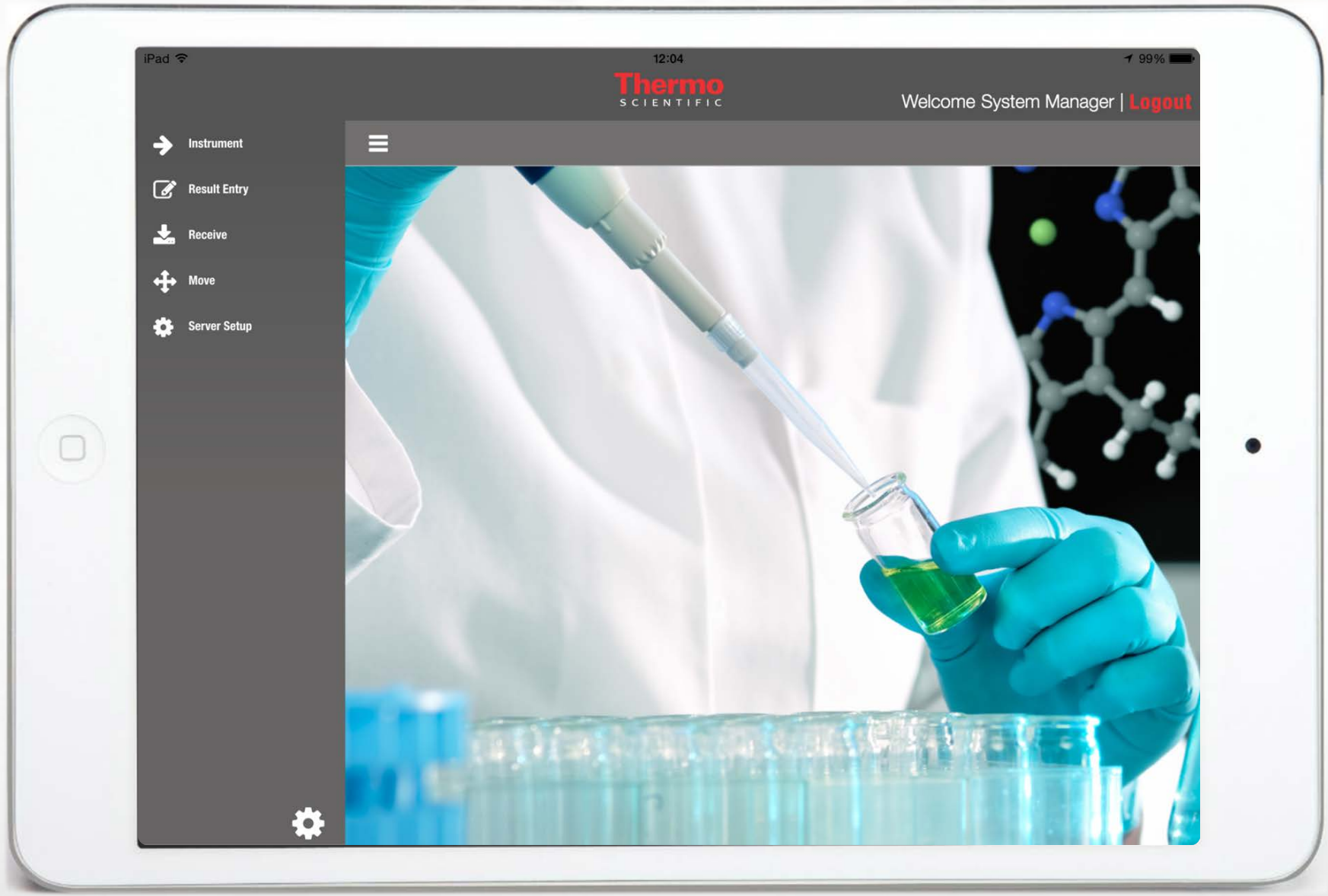


ThermoFisher SCIENTIFIC | Thermo SCIENTIFIC | Fisher Scientific

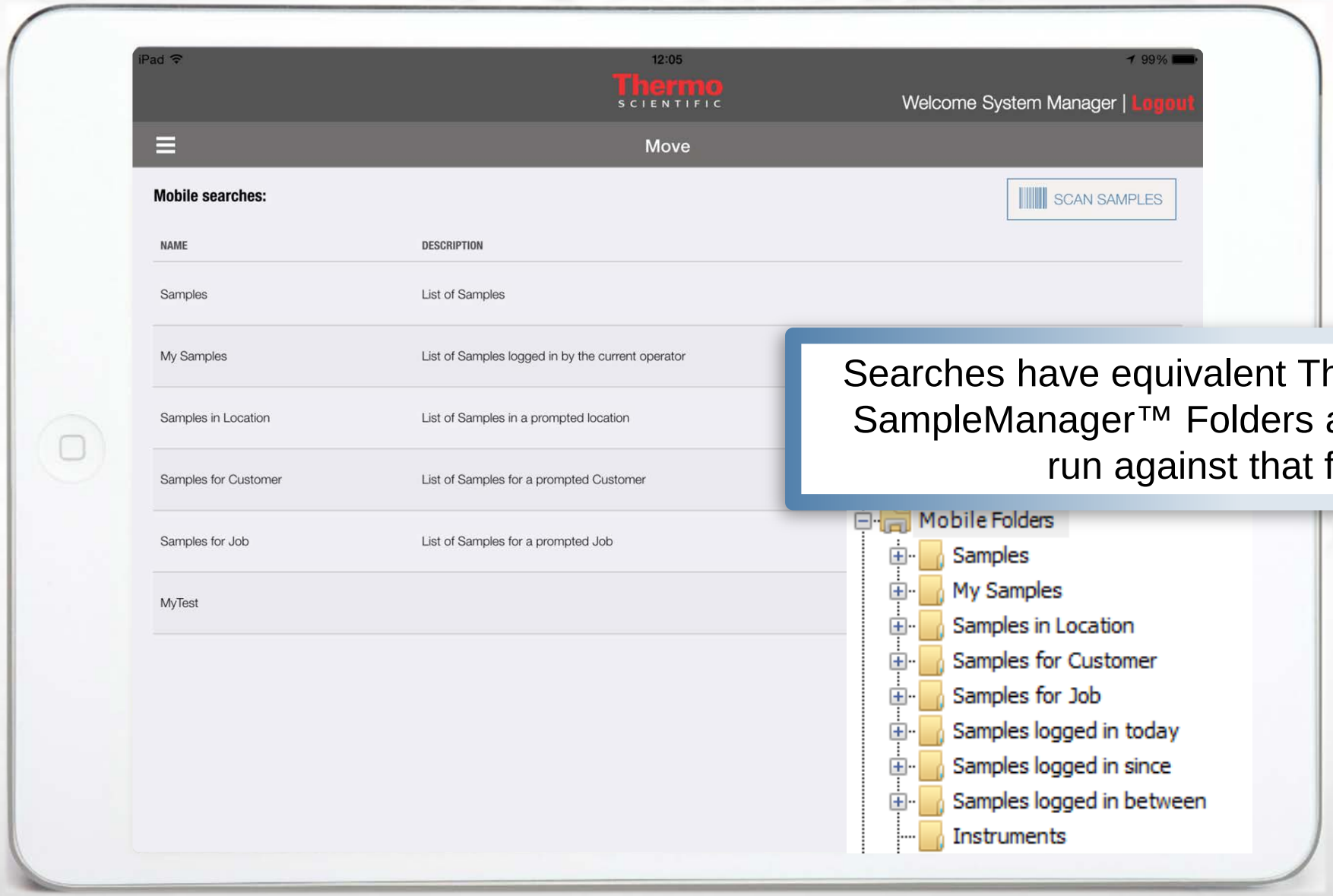
Dashboards provide a quick view of anything from stocks, to sample delivery, or trends at a particular location.



Meeting the Needs of Today's Paperless Lab

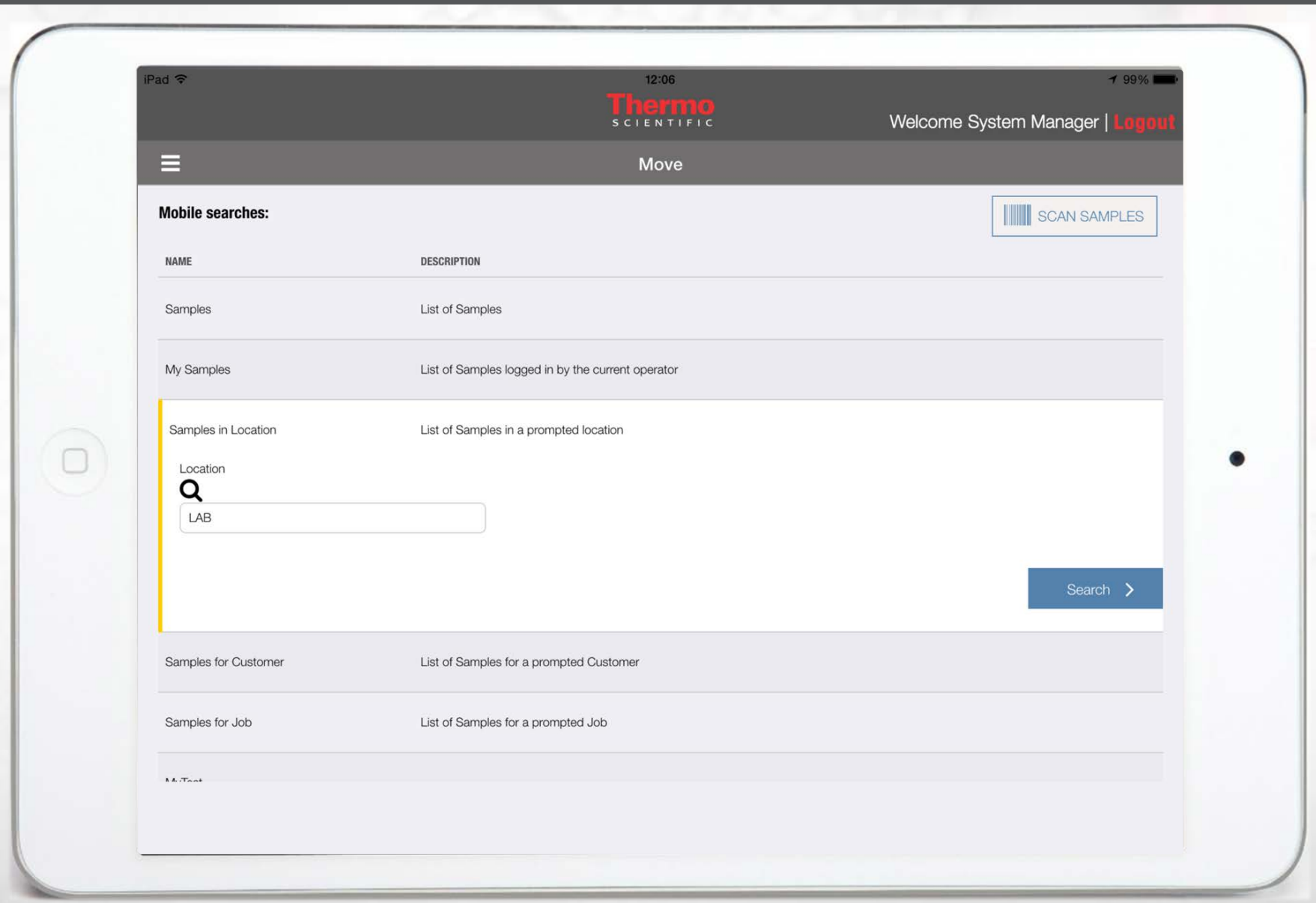


Search and Find Your Lab Information Anywhere

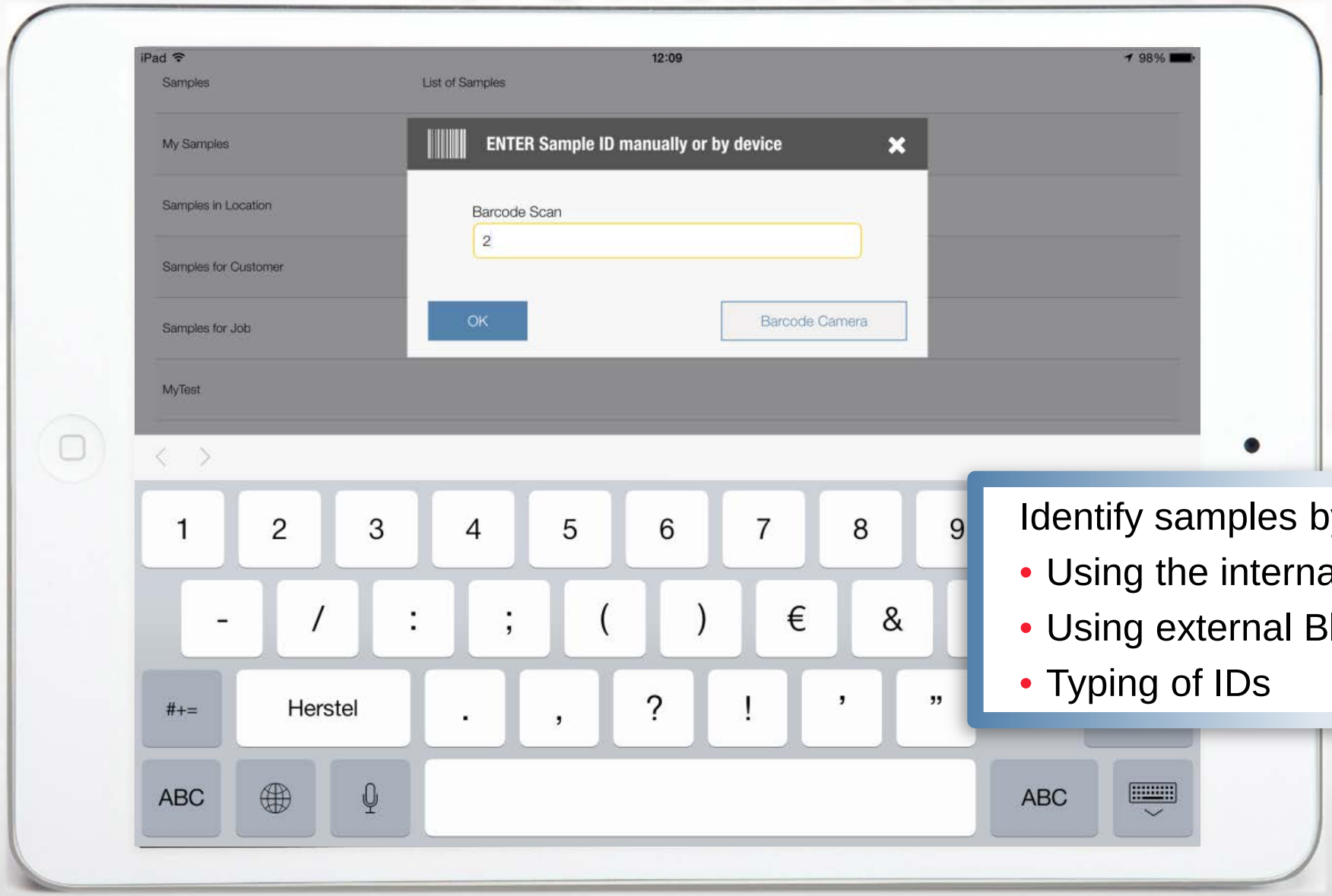


Searches have equivalent Thermo Scientific™ SampleManager™ Folders and searches are run against that folder.

Search and Find Your Lab Information Anywhere



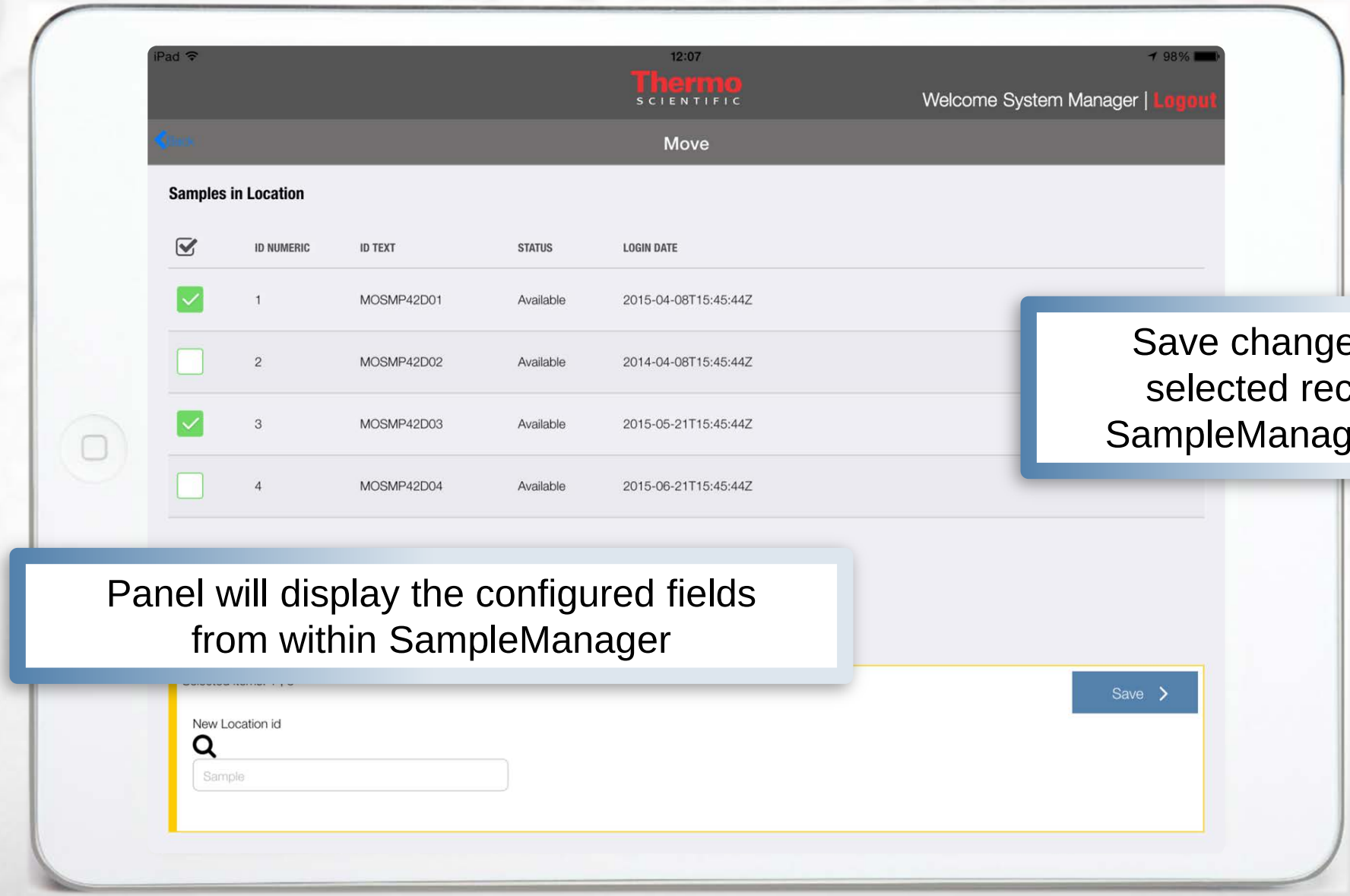
Use the Tablet Camera to Scan in Barcodes



Identify samples by:

- Using the internal camera
- Using external Bluetooth camera
- Typing of IDs

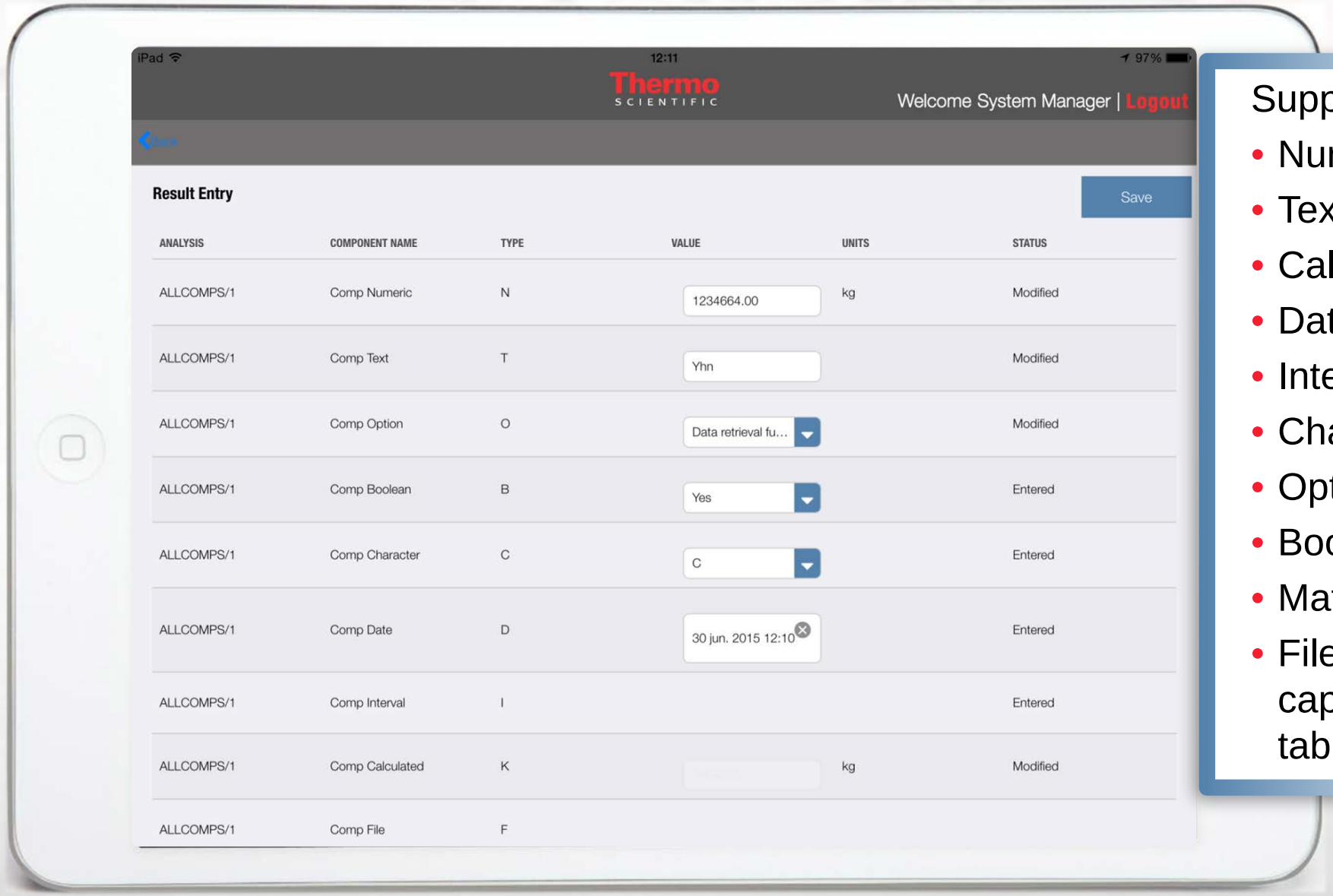
Select the Samples of Interest



Save changes to update selected records in the SampleManager Database.

Panel will display the configured fields from within SampleManager

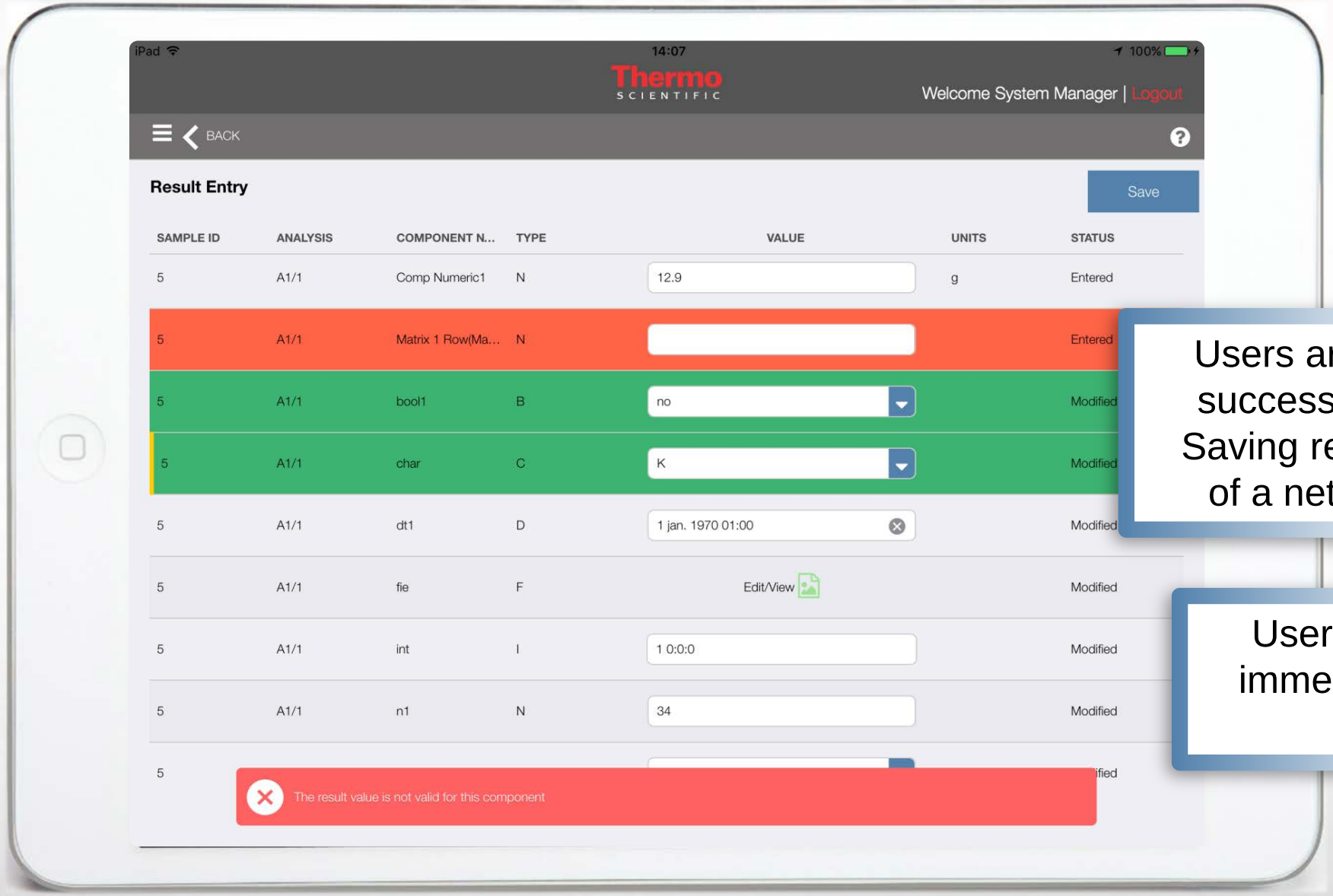
Enter Your Sample Results Anywhere



Supported result types:

- Numeric
- Text
- Calculated
- DateTime
- Interval
- Character
- Option
- Boolean
- Matrix
- File (only images captured on the tablet)

Enter Your Sample Results Anywhere



Users are alerted on success or failure of Saving results in case of a network issue.

Users are notified immediately of limit failures.

The Complete Laboratory Process

Lab Management

LIMS

Complete laboratory management

Sample, test & result management

Management of lab personnel & resources

Process optimization & standardization

Data Visualization

SDMS

Visualize without original application

Laboratory data archival, retrieval and preservation

Support for >180 instrument data formats

Vendor independent XML for long-term storage

Acquisition and Processing

CDS

Simplify your lab operations

Save 5–60 min per sequence using smart processing tools

Get more “right-the-first-time” analyses with intelligent functionality

Network-independent data acquisition for 24/7 uptime

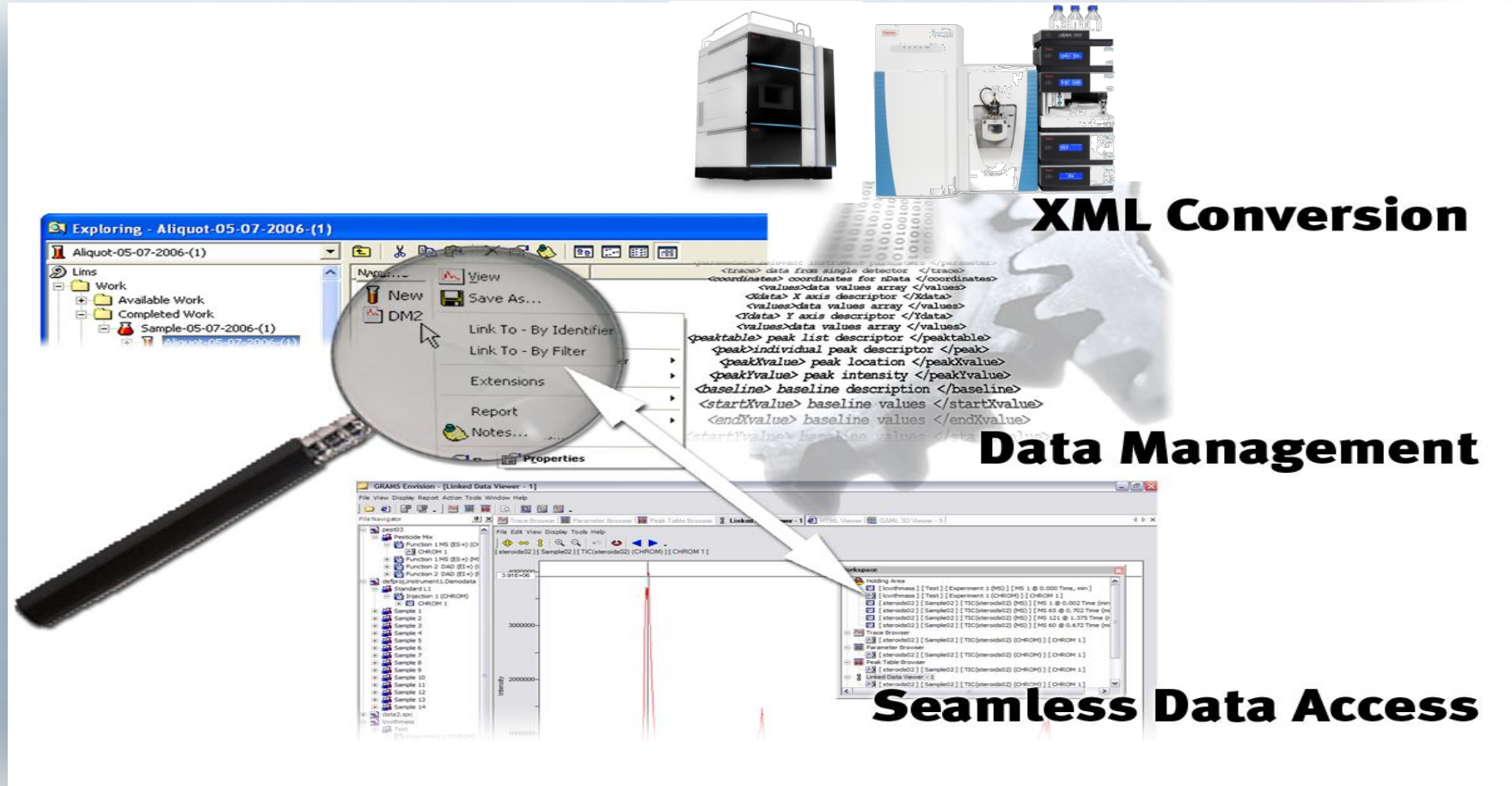
Enabling customer productivity and innovation

Thermo Scientific Dionex Chromeleon Chromatography Data System (CDS) Software

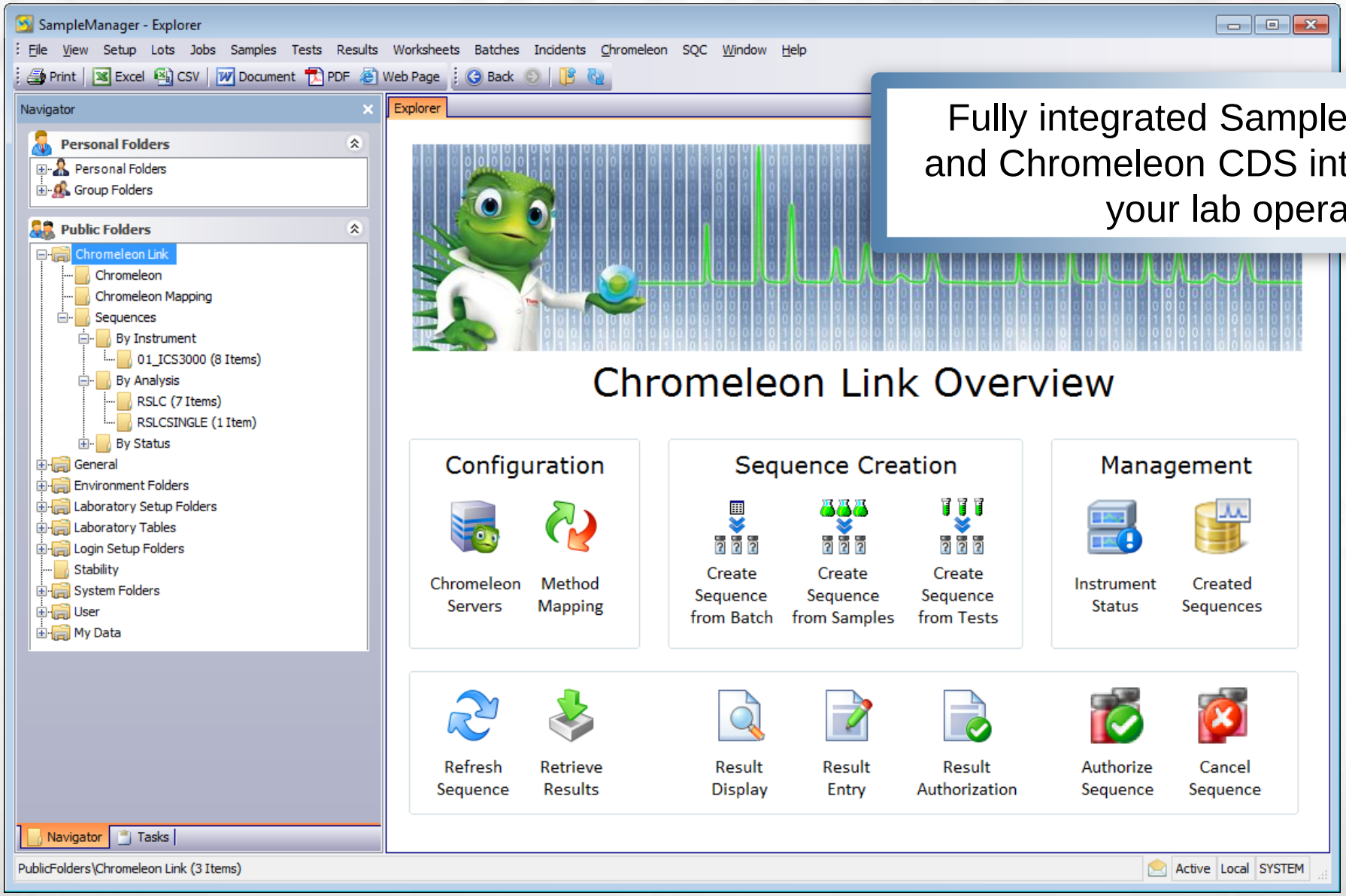
- ✓ Operational Simplicity delivers ease-of-use, saving time, effort, and training costs
- ✓ Suite of intelligent tools work together ensuring more right-the-first time analyses, saving time and cost
- ✓ True 24/7 laboratory uptime with outage protection for maximum utilization of resources and faster return on investment

Data Visualization

SampleManager SDMS provides secure, future-proofed data archival and management.



Thermo Scientific Chromeleon CDS Software Delivers Operational Simplicity



Fully integrated SampleManager LIMS and Chromeleon CDS interface simplifies your lab operations.

Chromeleon CDS Integration

Tracking Samples

Lab Solutions

Thermo SCIENTIFIC

- Out-of-the-box secure & compliant interface
- Workflows to drive the laboratory process
- Comprehensive multi-vendor instrument support
- Centralized chromatography & mass spectroscopy data processing & management
- Sophisticated data visualization
- Advanced search & data mining

Security & Compliance

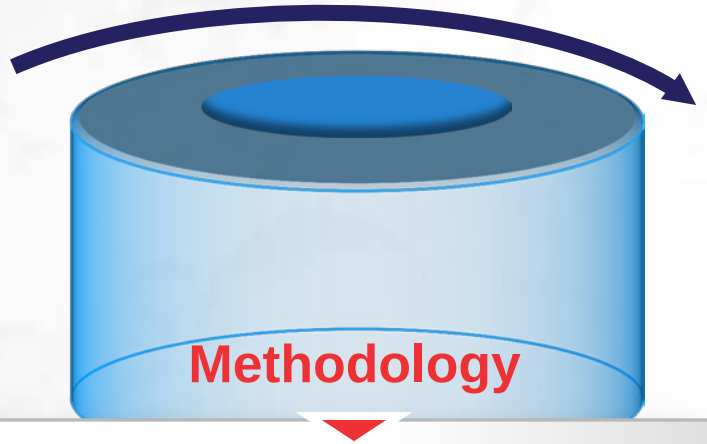
Workflow

Instrument Control

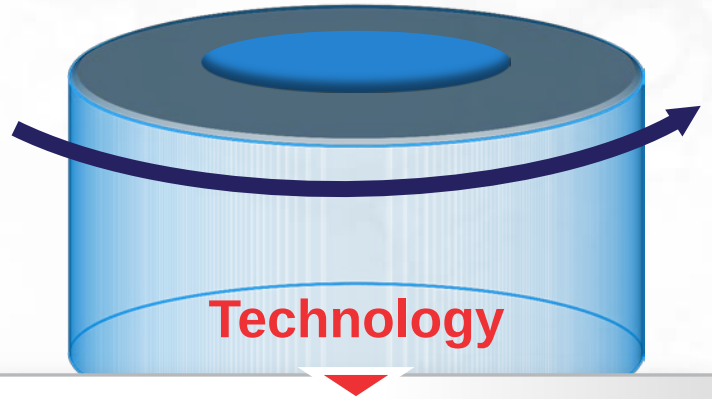
Centralized Data Management

Business Intelligence

Your Project is a Partnership



- Assess current workflow
- Identify data exchange points
- Identify inefficiencies
- Simplify the process



- A complete lab solution: CDS, SDMS, & LIMS
- Integration tools to connect with other vendor technology

- Requirements analysis
- Process harmonization
- Deliver results
- Ongoing support

Meeting the Needs of Today's Paperless Lab

Integrated CDS, LIMS & SDMS

Workflows to drive the lab

Comprehensive instrument control

Centralized data management

Advanced search & trend analysis

Integrated Informatics

Thank You

Now, please join me in the Informatics section of our booth and I will address any further comments and questions.