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Test	Site	Censor	P	Prior P	Prior Sam	Date/T	Res	QC	SQ	P	Instrument
NA	UPL 136		?	?		13-1-06					VC_Advia_1600
K	UPL 4.3		?	?		2-5-13					VC_Advia_1600
HCO3	UPL 28		?	?		25-29					VC_Advia_1600
UREA	UPL 14.9		?	?		2-5-7-0					VC_Advia_1600
CREAT	UPL 150		?	?		50-120					VC_Advia_1600
CRP	UPL 732		?	?		0-16					VC_Advia_1600
B12	UPL 256		?	?		100-2000					VC_Centra_SP
FOL	UPL 2.2		?	?		0.5-23.0					VC_Centra_SP
FER	UPL 32881		?	?		?					VC_Centra_SP
Haem	UPL NEG		?	?		NEG					VC_Advia_1600
LIP	UPL NEG		?	?		NEG					VC_Advia_1600
Album	UPL NEG		?	?		NEG					VC_Advia_1600

Control your automated workflow. Improve your bottom line.

Take control of your laboratory workflow.

Drive timely, accurate test results across diagnostic systems, automation, and IT with the CentraLink Data Management System.

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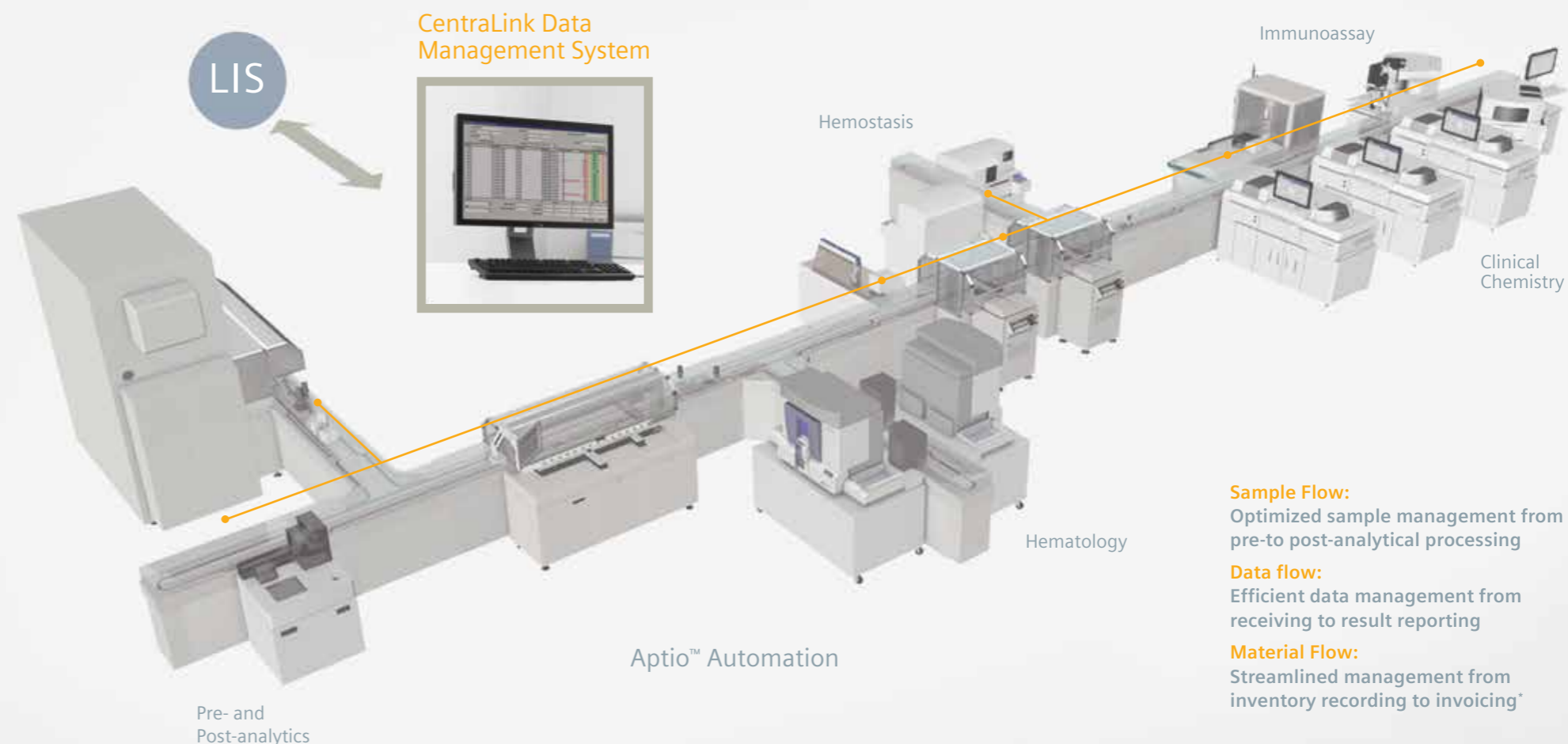
The CentraLink Data Management System

provides centralized management and control of lab testing, customizing and streamlining workflows across automation, systems, and IT.

CentraLink™ Data Management System:

- Enables labs to manage test results, patient information, and quality-control (QC) data from all connected instruments using a single, centralized workstation.
- Automatically verifies test results collected from all analyzers, allowing lab staff to focus on critical results that require immediate attention.
- Integrates test results and related QC information so labs can deliver high-quality results faster.
- Automates, streamlines, and customizes workflows on automation solutions from Siemens Healthcare Diagnostics, including Aptio™ Automation, ADVIA® Automation, the VersaCell® X3 Solution, and the VersaCell® System.


Improve workflow efficiency and deliver timely, accurate results with the deep integration of automation track, middleware, and systems.



CentraLink System and the Automated Laboratory

- Manages four laboratory disciplines: chemistry, immunoassay, hemostasis, and hematology.
- Easily connects to LIS(s), remote labs, and systems.
- Provides quick status of critical tests through a customizable, real-time dashboard
- Processes samples automatically based on customizable rules.
- Verifies results automatically using lab-defined rules.
- Automates and integrates pre- and post-analytical processes.
- Automatically detects QC issues and redirects or reruns samples.
- Uses rules to automatically govern processing of samples.
- Interprets infectious disease testing, performing repeat and confirmatory testing.

*Managed by syngo® Lab Inventory Manager and eCommerce.



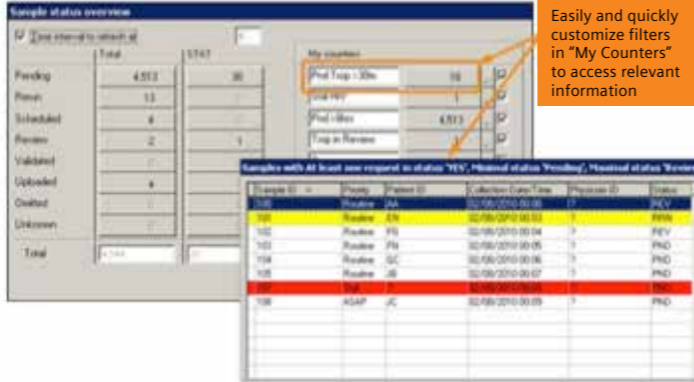
Real-Time Dashboard

Get immediate visibility of customer-defined key metrics in addition to overall workflow status.


- Highlight items in need of attention
- Add visual cues to indicate severity
- Prompt for immediate action
- Customize to specific roles
- Provide reassurance when operations are running smoothly

Is the dashboard specific to my laboratory?

Customize it to display metrics on laboratory-defined critical tests. Key metrics may be as diverse as all hematology results requiring a specialist review; STAT, HIV, or Troponin Pending for more than 30 minutes, etc.



A troponin test in pending for more than 30 minutes is flagged along with a pending STAT request for an HIV test.



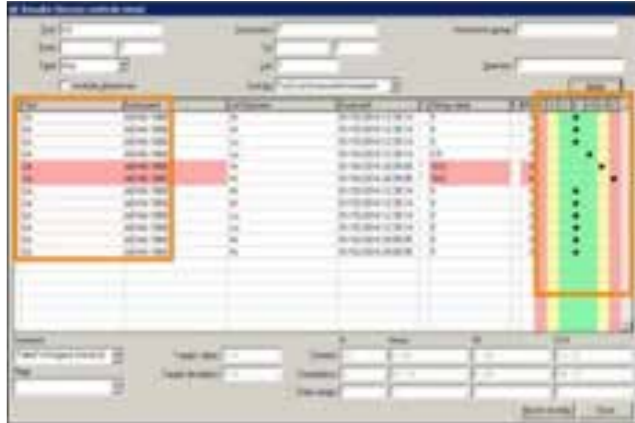
Integrated Quality Control


Monitor QC continuously and proactively.

- Use a single system for comprehensive data management and quality control
- Easily locate failed QC test samples
- Find test results between two QC points to identify impacted tests

Can I automatically redirect samples if there's a QC failure?

If a calcium result on one system violates QC, you can identify another system performing well and redirect samples with just a few keystrokes.





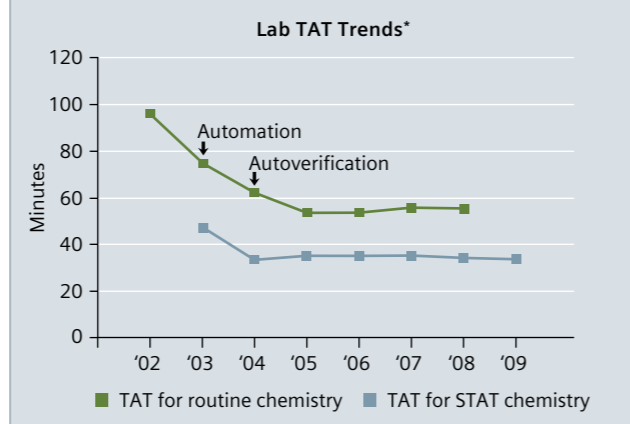
Autoverification

Customized review processes minimize human error and automate manual tasks.

- Quick start with easy-to-use rules wizard
- Autoverification rules for consistent review criteria and quality results
- Built-in parameters flag clinically significant changes

In what ways can I tailor my review process?


It's easy to write rules for special and complex circumstances. For example, delta checks can be performed for both absolute and percentage values. You can hold results associated with a QC failure or flag clinically significant changes for patients (delta checks).



At Swedish Covenant Hospital, 95% of tests are autoverified. They continue to improve their autoverification process, and the turnaround time continues to drop.[†]

*Individual laboratory system productivity, throughput, and associated TAT may vary.

†The outcomes obtained by the Siemens customers described here were achieved in the customer's unique setting. Since there is no "typical" laboratory, and many variables exist, there can be no guarantee that others will achieve the same results.



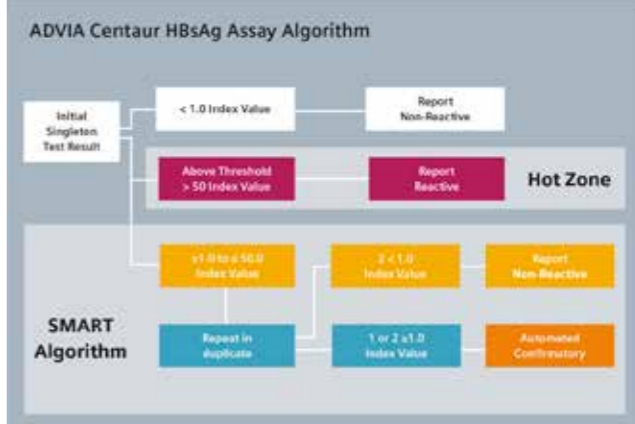
Workflow Management

Obtain central access to clinical chemistry, immunoassay, hematology, hemostasis, and urinalysis testing.

- Automate results
- Prioritize tests and instruments
- Apply autodilution cascades to save time and reagents
- Define rules reflecting patient demographics
- Automatically perform pre-analytics for off-track processing

How can I save time and money with flexible rules that process test orders with no technologist intervention?

The Siemens rules library and specialized algorithms enable you to leverage best practices derived from approximately 2000 automation projects. In this example, flexible rules help in managing complex ID algorithms. The CentraLink system generates any necessary repeat test orders and selects the appropriate interpretation for reporting.




Example of how flexible rules can help manage complex ID algorithms.

"It not only handles the automation, but also the entire pre-analytical, analytical, and post-analytical processes. The operator can evaluate and validate results, and review data with most of the information consolidated onto a single page."

Dr. Davide Giavarina
Vicenza Laboratory Director

CentraLink Data Management System



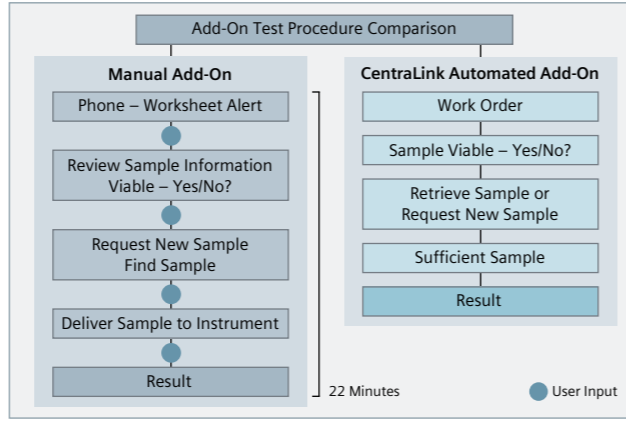
Automation

Integrate automation, diagnostic systems, and IT to improve quality, TAT, and efficiency.


- Pre- and post-analytics
- Reflex testing
- Reruns
- Delta checks
- Instrument flags
- Quality control

How can I manage add-on orders to improve patient safety and reduce waste?

A good example is an add-on test for glucose. Configure the system to first ensure that time between sample collection and centrifugation does not exceed a preset limit. This ensures that results will be valid or prevents running the test.



Here you can see the manual steps that are done automatically with the CentraLink system to manage add-on tests.




Customer Care

Support that goes beyond installation and service to help you every step of the way.


- On-site technical support through implementation and ongoing operations
- Consulting services for customized solutions based on best practices
- Personalized education improves staff efficiency
- One point of contact

Can Siemens Remote Service (SRS) improve efficiency and quality?

SRS enables CentraLink technical support engineers to remotely configure the system, respond to questions, and provide service immediately, without the delays of travel for on-site service. Many services, updates, and even immediate repairs can now be performed remotely.



SRS enables Siemens technical support engineers to configure the system, respond to questions, and show laboratory personnel how to achieve desired outcomes.



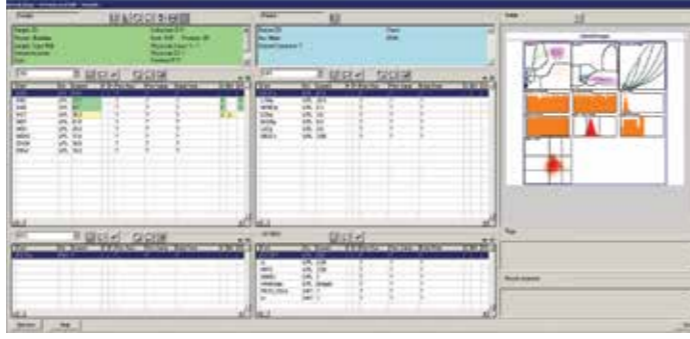
Hematology

Advanced hematology module supports paperless workflow and reduces manual steps.

- Access hematology functions with one click
- Attach images to samples with CellaVision® system
- View patient and sample run history on same screen
- Access user-configurable instructions with one click

What can we expect for improved efficiency?

The advanced hematology module consolidates results and images. It provides a holistic view of patients from a single screen, improving efficiency by reducing manual tasks and associated errors.



Based on initial results, the CentraLink system will determine if a peripheral blood smear is required, allowing you to prepare a slide while the sample is still on the track.

Proven Results from a Leader Committed to Customer Success

The CentraLink Data Management System is a proven middleware solution, with more than 1000 installations in 50 countries. It has been rated number 1 in customer satisfaction in the U.S. by Information Dynamics' Middleware MARKET MONITOR™ in two consecutive surveys.

Siemens offers more than 16 years of IT and automation experience, the largest automation installed base worldwide,† and more than 900 global rules based on best practices.

Find out how to get better results by partnering with Siemens and using the power of the CentraLink system in your laboratory today. Visit www.siemens.com/centralink.

†Source: Independent third-party research firm. Worldwide review of the in vitro diagnostic laboratory-automation market, excluding Japan. 2013 estimate. Report generated May 2014.