SoftLab® 5.0

SoftLab 5.0, SCC Soft Computer's WEB LIS solution, is designed as a modern and efficient laboratory information system for simple and complex workflows customizable for client needs to achieve the maximum productivity. Fast and user friendly applications are available on different platforms and devices. A variety of use cases produce integrated solutions for hospitals, outreach offices, and laboratories of any size.

SoftLab 5.0 provides WEB applications to manage high volume laboratory workflows in the most efficient way. Simple UI design provides access to comprehensive infrastructure of data processing, analytics, and reporting.

Pre-Analytics

Efficient data entry at ordering, customizable fields, multi-technology orders, test routing rules, medical necessity/eligibility checking, specimen tracking, collection monitors, and access to full order history at any step of the workflow. Unified referral testing, customizable paper and electronic manifests, courier tracking, shipping history, and import utility for external compendiums.

Analytics

Integration with modern instruments infrastructure, calculations, result adjustments, quality control and moving averages analytics, customizable tasklists, reports, and multi-criteria auto verification rules. Electronic interfaces with external vendors for discrete results and reports.

Post-Analytics

Consolidated reporting, results query, electronic interfaces to EMR/HIS/ELR systems.

FEATURES AND BENEFITS

Feature: Ease of Deployment
Benefit:
- Nothing to download. Nothing to install. Faster upgrade (no need to update computers)
- Easier integration with client portals and other web-based products
- Allows for "thin clients" (machines with limited hardware capabilities) to provide access to complex applications delivered from a centralized infrastructure

Feature: Multiplatform
Benefit:
- Desktop: Windows®, macOS®, Linux®
- Mobile: Android®, iOS®, Windows
- Browsers: Chrome®, Safari®, Edge, Firefox

Feature: Seamless Integration
Benefit:
- SoftLab® 5.0, SoftMic® 5.0, SoftFlowCytometry®, SoftMolecular®, SoftBiochemistry®, SoftCytogenetics®, SoftHLA®, SoftGenomics®, and SoftPathDx® all share the same database and platform
- Supports multi-technology ordering and reporting
- Supports full mixed priority including custom EMR priorities
- Consolidated reporting across all modules

Feature: Web based User Interface
Benefit: SCC Web Framework is designed specifically for medical facilities
- Applications provide full cycle of the patient processing
- Common components across all applications
- Domain specific patterns

Feature: Enhanced Security
Benefit: Security and data encryption in transit and at rest

Feature: Order Entry
Benefit:
- Simplified and efficient user interface
- Customizable layouts per site, location groups, locations, and users
- Customizable patient questionnaires integrated with signature pad
- User defined fields on patient / visit / order / specimen / test levels
- Doctor per test functionality for manually and EMR created orders
- Easy access to order documentation, documents preview, print, fax, upload and scanning directly from order entry screen

SoftLab 5.0 provides integrated default workflows, model database and predefined report layouts. End user trainings are fast and efficient. Interfaces and reports are customizable per vendor's needs.

Feature: Comprehensive Order History
Benefit:
- Comprehensive order processing history shows all actions that happened with the order/specimen/result in a single view
- Basic specimen tracking operations work without any additional setup. Remote receiving does not require any additional setup. Every action is tracked (manual, instrument, system, external, etc.)

Feature: Phlebotomy
Benefit:
- Containers are uniquely identified and can be tracked independently throughout the system
- The specimen collection monitor includes statistics per round, total collection progress, and TAT diagrams
- The collection assignment application provides the ability to manage assignments to phlebotomists, statistics, and progress per phlebotomist and clinic
- Support of pediatric collection
- Customizable labels

Feature: Internal and External Shipping
Benefit:
- Import utility provides ability to easily load and keep reference lab compendiums up to date
- The manifest can be printed with the specimens in the same sequence as they were scanned into the shipping list. Specimen barcodes could be printed for every tube in the manifest. The shipping label is customizable.
- One entry allows to send different types of materials, including blocks and slides. Mandatory shipping user defined fields are configured based on vendor requirements.
- External Medical Necessity Checking by Vendor for Reference Lab Tests, including ABN form and external prices
- Ability to re-label at manifest preparation with vendor-specific labels
- Courier Pickup and Courier Delivery documentation
- Shipping History

Feature: Results Entry
Benefit:
- Access to multiple instrument runs in laboratory tasklist, ability to select reportable run
- Extended set of automatic verification rules, validation of result flags, delta, quality control, and analysis of results from previous runs and orders
- Access to quality control details in laboratory tasklist, including L/J graph, result modification, and ability to apply corrective actions. Ability to display quality control and patient samples together in one worklist in the order of processing.
- Support of Moving Averages algorithms, control on criteria and number of patient samples, stop automatic verification based on Moving Averages flags
- Support of multiple result fields on single test, simplification of setups, routing and instruments integration
- Unlimited result comments
- Recalculation of results based on demographic updates with user-defined criteria and ability to manually review altered results. Ability to send automatic notifications.
- Test monitor with information about TAT statistics in certain department or laboratory, total volume of pending tests, statics per patient type, and priorities

Feature: Reports
Benefit:
- Ability to define flexible reporting profiles to drive different types of reporting
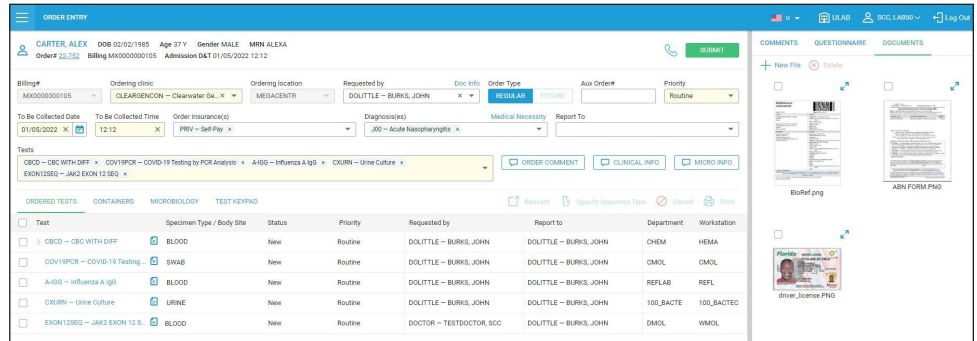- Consolidated instant and patient history reports across all technologies

Feature: Setup
Benefit:
- Versioning in Test Setup. List of acceptable specimen types and tube types.
- Import Utility for test compendium
- Cleanup rules to control automatic cleanup of uncollected or unreceived containers and associated tests with defined reasons
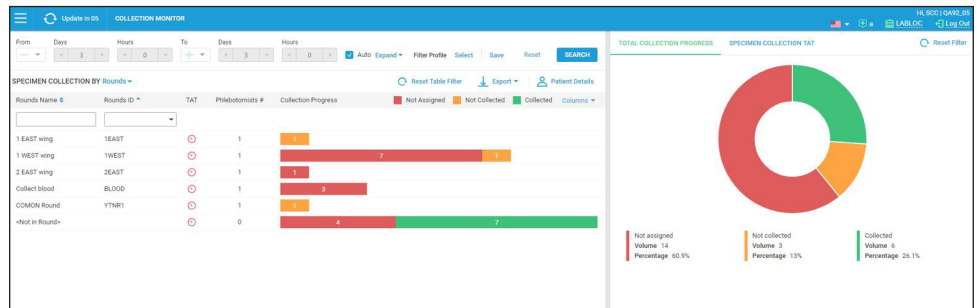
Multi-Technology Order Entry
- Simplified and efficient user interface
- Expanded field length
- Customizable layouts per site, location groups, locations, and users
- Customizable patient questionnaires integrated with signature pad
- Doctor per test functionality for manually and EMR created orders
- Easy access to order documentation, documents preview, print, fax, upload and scanning directly from order entry screen

Collection Monitor
- The specimen collection monitor includes statistics per round, total collection progress, and TAT diagrams
- The collection assignment application provides the ability to manage assignments to phlebotomists, statistics, and progress per phlebotomist and clinic
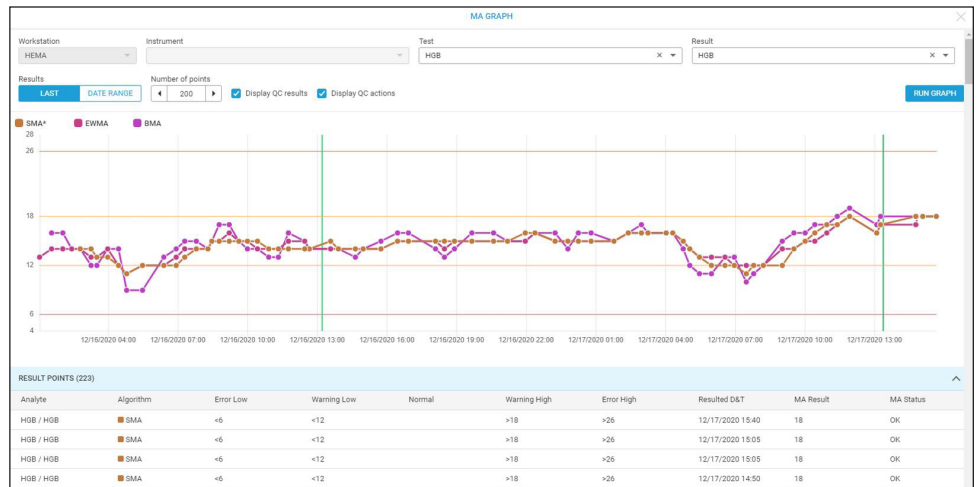

Multiple Runs in Results Entry
- Access to multiple instrument runs in laboratory tasklist, ability to select reportable run
- Support of multiple result fields on single test, simplification of setups, routing and instruments integration. Rerun requests directly from resulting application
- Extended set of automatic verification rules, validation of result flags, delta, quality control, and analysis of results from previous runs and orders
- Ability to display quality control and patient samples together in one worklist in the order of processing
- Instrument error code translation
- Unlimited result comments

Moving Averages
- Support of Moving Averages algorithms, control on criteria and number of patient samples, stop automatic verification based on Moving Averages flags
 - Simple Moving Averages Algorithm (SMA)
 - Exponentially Weighted Moving Averages Algorithm (EWMA)
 - Bull's Algorithm (BMA)
- Access to quality control details in laboratory tasklist, including MA graph, L/J graph, result modification, and ability to apply corrective actions

Images and Scattergrams

- Ability to receive images and scattergrams electronically from the instrument and display together with discrete results in the tasklist
- Ability to generate scattergrams based on discrete instrument results
- Reporting images electronically for external consultations, ability to incorporate images and graphs to the results reports and electronic transactions to EMR/Physicians

Customization

- Customizable layouts per site, location groups, locations, and users
- System provides ability to control the order of fields, hide/unhide fields, mark as required or editable
- Layouts could be easily copied between environments

Validation at Shipping

- Mandatory at shipping user defined fields are configured based on vendor-specific requirements
- Requisitions for reference lab orders could be generated in addition to the manifest / packing list
- One entry allows user to send different types of materials, including blocks and slides

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