Laboratory Information System UWI / FMS

About the LIS

The University of the West Indies, Mona Campus, has embarked on initiatives to improve operational efficiencies and increase income generating activities across the campus. As a part of this undertaking, the acquisition and implementation of an automated LIS became an important consideration towards improving the efficiency and effectiveness of Lab operations. The discussions took intensity in 2010-2011 and out of this was initiated an extensive search for potential solutions followed by rigorous analysis of the potentials identified. The analysis needed to be rigorous because of the size and cost of the undertaking, and because of its importance to meeting the objective for fundamental transformation. It is important to note that Open Source options were not omitted from the search parameters.

The LIS software product (the SCC LIS) which was selected for implementation at the UWI is supplied and supported by SCC Soft Computer Limited. SCC Soft Computer has been a leading laboratory information systems (LIS) vendor since 1979. They are the LIS providers for several of the major laboratory environments at hospitals and universities in the United States of America.

Components of the LIS

The SCC LIS suite is a comprehensive group of Laboratory Information Systems software comprising:

- ❖ SoftLab® - ChemPath; Haematology; Virology; Immunology;
- ❖ SoftMic® - Microbiology
- ❖ SoftPath® - Anatomical Path.(Cytology,Histology)

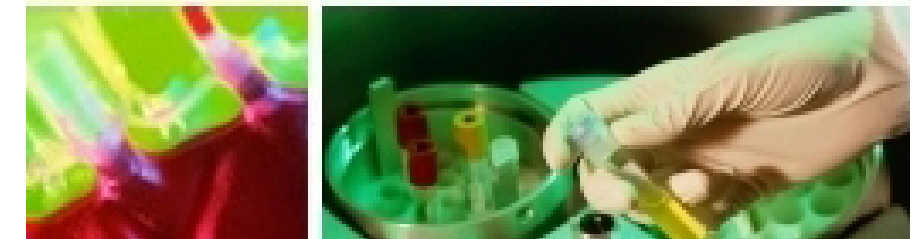The **Blood Services** Information Systems Suite comprises:

- ❖ SoftBank® – Blood Bank

The **Outreach Suite** provides secure anywhere, anytime access to clients of the Labs – doctors, hospitals, other labs.

- ❖ SoftWeb® - **Web access, mobile access**
- ❖ SoftBill® - Link to Mona's Banner Finance

Reporting and information generation - **SoftReports**
Quality Control - **SoftTotalQC**

Potential for Future Growth and Expansion:
- ❖ **Genetics Information Systems Suite**
- ❖ Radiology Information Systems Suite

What is in it for-:

Doctors :
- Graphical representation of results and trends
- Real-time test status monitor
- Allows real-time patient results to be readily available
- Easy new patient setup, quick and efficient order entry
- Remote, anywhere access to test results (on smartphone and other mobile devices with appropriate security clearance)
- Barcode label printing for order form and specimen labeling

UHWI
- Remote bar-coded label printing at the time of order entry
- Low-cost, easy-to-use solution for the physician's office
- Easy new patient setup, quick and efficient order entry
- Customizable screens to mimic requisitions currently in place
- Extensive online formulary
- Allows real-time patient results to be readily available, improving the quality and delivery time of patient care

Faculty:
- Quality Control
- The system offers the potential for a paperless solution
- Infection control notification
- The system is designed for unlimited scalability and flexibility, thus it has the potential to support as large an operation as the UWI might wish to maintain including multiple sites.
- Facilitating data for teaching and research support

Departmental Management:
- Maintains access to database for single-point of reference
- Full multisite consolidation
- Flexible patient and management reporting
- Specimen tracking
- Critical result warning system
- Call-management (e.g. panic results)
- Rules-based auto-verification
- Automatical update in real-time, patient data available instantly
- Automates the processing of specimesn from ordering to report
- Allows generating media and tests based on ordering location