

Deans IT Update  
August 26, 2008

**South Carolina Light Rail** – The contracts for the SCLR have been awarded SCANA, and the light rail is scheduled to be completed by August 28, 2008. MUSC, USC, and Clemson are currently completing the ‘last mile’ reconfiguration of their networks to accommodate the Light Rail. Performance testing is planned for September, and projects have been identified to demonstrate the capabilities of the light rail. Academic and research applications for collaborative teaching and research will be enhanced by this new technology.

**Palmetto State Providers Network** – The RFP to build the Palmetto State Providers Network (PSPN) has been posted and bids are scheduled for opening on September 5. The PSPN network will connect all 48 counties of South Carolina for Telemedicine and health education services.

**E-Mail Conversion to Microsoft Exchange** – The progress of the conversion of GroupWise and IMAP to the Exchange e-mail system is progressing:

- Active Exchange accounts = 15,652 (includes new employees)
- Less than 2,000 IMAP users to convert
- Exchange configuration is delivering continuous availability
- Completion scheduled for November 1, 2008
- Exchange HELP is at [www.musc.edu/exchange](http://www.musc.edu/exchange)

**NetID and Single Sign-On Status** – NetID takes the place of the old MNAs and provides the foundation to create and delete user accounts.

- All active users (15,300+ MNA users) have been converted to NetID from a single location
- NetID simplifies Single-Sign-On management
- Single-Sign-On pilot to begin in September on all DAL PC applications

**MicroSoft Enterprise Licensing** – OCIO has negotiated an enterprise license with MicroSoft to provide all faculty, staff and students with MicroSoft products (Window, Office, SharePoint...). Signed contract planned for September 1, 2008.

**Campus Agreement for Oracle Software**– OCIO has negotiated a campus agreement with Oracle Corporation to consolidate existing Oracle licenses under a single agreement and enable future acquisition of Oracle database software at no additional costs. The agreement covers the entire MUSC enterprise and five year cost savings for this agreement are projected to be \$1.5 million. The agreement will be completed on 8/29/08.

**Encryption** – Full laptop encryption has been tested and currently being documented for delivery to the users. Product selection has been initiated for email encryption

**Statewide IT Authentication and Access** – The authentication software Shibboleth is now installed at MUSC, Clemson, and USC. All three institutions are now members in the InCommon Federated Trust which will allow faculty, researchers and students at the three universities to use their institutional NetIDs to access the networks of their sister universities for research and teaching collaborations.

An interuniversity committee has been formed to develop a common list of terms which can be used in the Identity Management process for using the authentication across the three universities. Dr. Tom Basler will chair the committee.

MUSC has joined an NIH project to use Shibboleth and the InCommon federation for research collaboration.

**Academic Portal** – The Datatel Active Portal software was purchased for building the MUSC Academic Portal. The basis of the Academic Portal is Microsoft SharePoint a tool which enables multiple users to work jointly on documents, projects and access common information. The OCIO is completing negotiations for a university wide SharePoint license which will also be available for other institutional applications.

After securing the SharePoint enterprise license, an implementation committee will be charged by the Office of Academic Affairs and Student Life from all six MUSC Colleges and the SGA. This committee will insure:

- Interface with the current Colleague student record system
- Interface with WebCT
- Provide a comprehensive set of tools for the faculty and students for:
  - Teaching and learning
  - Calendars
  - Group e-mail and academic blogs
  - Team approaches for teaching
  - Electronic interfaces for paying tuition
- Provide separate ‘views’ for
  - Faculty
  - Students
  - Administrative applications

**Research Portal** – The MUSC Research Portal has been completed and is in use. It is an aggregation of research related support for all MUSC researchers. The site is managed by the Associate Provost for Research and can be viewed at <http://research.musc.edu/>

**E\*Value** – The E\*Value implementation is completed and in use for MUSC, Deans and Chairs evaluations, and the Graduate Medical Education Office. Work continues on the Colleague – E\*Value electronic interface. The Evaluation Oversight Subcommittee of the Education Advisory Committee (Associate Deans for Academics) under the Office of Academic Affairs and Student Life governs use of E\*Value and policies related to the faculty and course evaluations.

**On-Line Faculty Directory** – The On-Line Faculty Directory has been completed and demonstrated to the Deans Council. Modifications are in progress.

**On-Line Space System** – The new on-line space system is moving along well. Michelle Adelson has demonstrated the space program to the College of Medicine Business Managers to provide them with information of the capabilities of the system. Efforts are currently underway to integrate the Grant Awards data and to create an electronic method of calculating cost.

**Course Capture System** – The Course Capture Committee selected through the RFP process the Tegrity course capture system which is currently in use. Training continues for the faculty. Tegrity allows the faculty to capture PowerPoint and video presentations and upload them to a server for later viewing by MUSC students.

**Standardization of Videoconferencing equipment** – An effort is underway to standardize the videoconferencing equipment used and supported by MUSC for teaching, research, clinical education and telemedicine.

**Desktop Videoconferencing (Breeze)** – the OCIO has reduced the university desktop videoconferencing systems to one system, Breeze. The new versions of Breeze (Adobe Connect) have the capability to support desktop videoconferencing for teaching, continuing education and telemedicine. To manage secure information, the OCIO created a secured website for Breeze users. This enables the users to upload full motion video, files, records, and images to a secure site accessed only by password protection. In addition, Breeze may be used in combination with standard Videoconferencing equipment such as PolyCom to allow for data sharing.

**Electronic Medical Record Access** – In addition to the creation of a standard MUSC letter certifying Practice Partner, Oacis and Access Anywhere, for federal Food and Drug Administration guidelines, a streamlined process has been developed to give Monitors and other approved non-MUSC users access. This streamlined process was developed with the Office of Human Resources and the OCIO requires only two days to issue a NetID and an additional two days to grant access to the EMRs.

**Core Clinical Requirements** – The Clinical Core Requirements web page developed to track required documentation for MUSC students entering their Core Clinical programs is in use.

**Curriculum Vitae Bank** – Software was purchased for the MUSC Curriculum Vitae Bank and an Implementation Oversight Committee charged. Dr. Mary Mauldin chairs the committee which is comprised of members from each of the colleges. OCIO analysts under Michele Adelson are currently meeting with representatives of the colleges to assess the individual needs for CV formats and data collection. The analysts are also assessing current storage of CVs in the individual colleges and how best to access that information for the creation of a single database.

**Space Allocation Management** - A web application for managing and maintaining MUSC facility (including research space) information has been completed and is in use. It assists business managers in keeping track of principal investigators' lab and other room assignments by integrating data from various sources into a single application to deliver information such as faculty to whom space is assigned by department, division, as well as square footage.

**Automated Grants and Salary updates** – The OCIO Purchased and implemented management software that allows for integrated work and routing between the Departmental UMS systems and Finances Smartstream system.

**Enterprise Data Warehouse** – The OCIO purchased software, servers and databases to support a MUSC Enterprise Data Warehouse. The first phase of the implementation has begun with the Oacis Electronic Medical Record for inpatients. The phases of the project will be, clinical applications; research; and financial and administration data. An Implementation Oversight Committee was charged with Dr. Steve Lanier, Associate Provost for Research, as chair.

**Executive Dashboard** – A dashboard has been completed for the Office of Research to provide data analysis, collection, and integration. The dashboard was created using Horizon Business Insight (HBI) a product commonly used in clinical areas.

### **Clinical Systems:**

**eCareNet clinical systems implementation:** Clinical systems from McKesson, Picis and Emergis (Oacis) are in process.

#### **Picis projects:**

- Activated OR Manager application (i.e., scheduling, preference cards, operative clinical/case record) in the Main and Ambulatory ORs in 2007.
- Activated Anesthesia Clinical Documentation in Ashley River Tower (ART) ORs in March 2008.
- Plan to activate Anesthesia Clinical Documentation in Rutledge Tower OR by November 2008 and in ‘Main OR’ by 1<sup>st</sup> quarter 2009.

#### **McKesson Projects:**

- New Materials Management system was activated in August 2006.
- New ED Tracking Board was activated in August 2006.
- New Inpatient Pharmacy System was activated in September 2006.
- Roll-out of Inpatient Clinical/Nursing documentation (“ClinDoc”) system is now complete for adult medical and surgical units (non-critical care).
- Automated/Barcode Medication Administration (“AdminRx”) roll-out to the non-critical care inpatient units that moved to ART was complete in 2007. Roll-out to additional non-critical care adult inpatient units in MUHA is currently being rolled-out with a completion target of November 2008.

- A pilot and parallel test of Computerized Physician Order Entry (CPOE) was completed on the 3 West nursing unit in ART during June. Rollout to all cardiology rounding teams for 3 West is scheduled for September 17, 2008. Further rollout in ART and beyond TBD.

**Emergis (Oacis) Projects:**

- The Oacis system was upgraded to a new version in May 2008; the name will be changed to 'eCareNet Viewer' and will include data from McKesson ClinDoc and AdminRx.
- A project to install an Enterprise Data Warehouse (EDW) is underway with the first phase (Oacis data) to be completed by 1<sup>st</sup> quarter of 2009. Additional systems will also eventually share data such as Colleague, SmartStream, Keane, IDX Flowcast, etc. (timerframe TBD).

**Transplant System (Velos):** Phase I go-live (i.e., liver/kidney) was completed in April 2006. Phase II (heart) was implemented in October 2007.

**Practice Partner:** The first phase rollout of this outpatient/clinic electronic medical record system (which processes clinical documentation/notes, prescriptions, etc.) was complete as of July 31, 2006. The next phase is currently in process and includes the Institute of Psychiatry, Employee Health, and Student Health. Phase III, Carolina Family Care (CFC), will begin after CFC converts to IDX Flowcast for registration and scheduling in the summer/fall of 2008.

**Voice Recognition System in Radiology:** The first phase of Radiology physician use of voice recognition technology (Dragon-based) was completed in one of the largest of Radiology's reading rooms in 2007. This vast majority of this rollout was complete in mid-2008 with cost savings over \$500k/year and vast improvements in report turnaround. Approximately 90% of all radiology reports are now entered via the voice recognition system.

**Infection Control Surveillance System Implemenaton:** The first phase of a new infection control surveillance system from Premier, Inc. was completed in the 2<sup>nd</sup> quarter of March 2008. The pharmacy interface is planned to be completed by the fall of 2008.

**Syndromic Surveillance submissions for DHEC:** A project was completed in 2007 that submits MUSC Emergency Department diagnosis information to South Carolina DHEC on a daily basis. This information will be used, for example, to identify regional disease outbreaks.

**Patient Scheduling Integration:** A project to integrate patient scheduling information into one system (i.e., IDX Flowcast) is underway with a planned completion in the fall of 2008. Specifically, Radiology and surgical/OR procedures are currently not accessible via the Flowcast system; this project will integrate the

existing clinic appointments in Flowcast with Radiology and OR schedules. An interim consolidated scheduling database was completed in July 2008.

**Inpatient Dietary Management System:** Activated a new diet/meal management system for ART opening (February 2008) that allows better patient meal selection. Plans to also implement this system in MUH, Childrens and IOP underway.

**ART Opening (February 2008):**

- Installed approximately 950 PCs, 250 printers, 375 wireless 'IP' phones, 800 wired 'IP' phones, 60 emergency phones, 19 Radiology PACS workstations, 5 Cardiology PACS workstations, 67 mobile carts with laptops or 'C5' tablets, and 33 tablet PCs on Dinamap (vital signs) poles/bases.
- Implemented a temporary onsite headquarters for IT support staff and help desk during ART opening.
- Added 1.25 FTEs in light of ART expansion.