

January Deans Update
Office of the Chief Information Officer
January 31, 2007

The following is a project update for the Office of the Chief Information Officer. It is intended to be a brief, but informative summary of the Information Technology activities across the MUSC campus.

1. IT Staff In-sourcing The outsourcing contract for IT Services was officially terminated as of December 31, 2006. On January 1, 2007, all contract employees were transferred from Quovadx to become MUHA employees. They will continue to report through the OCIO and will serve all of MUSC and its affiliates.
2. Faculty and Course Evaluation The E*Value Faculty and Course evaluation system implementation is underway and on schedule. Two groups have been formed through the Education Advisory Committee chaired by Dr. Valerie West. The first group is the E*Value Implementation Oversight Committee (IOC) chaired by Dr. Amy Blue. The charge of the E*Value IOC is to insure that the system is installed, operational, all evaluations are constructed and training is provided for all colleges of MUSC. Training began by E*Value staff, on campus, on Monday January 29 and Tuesday January 30. This committee will be discharged upon completion of the E*Value procedure. The second committee is the Evaluation Oversight Subcommittee chaired by Dr. Tara Hulsey. This is a permanent committee charged with establishing policy governing faculty and course evaluations for all colleges across MUSC. It is comprised with representatives for all colleges and deals with policy and procedure.
3. MUSC Web Site and Web Plan Graystone and Rawle Murdy have been hired to develop the MUSC.edu web page. Graystone will also write the MUSC Internet Marketing Plan which will include recruitment of faculty and students.
4. High Performance Computing A survey was presented to the faculty and ITCs in all colleges of MUSC to assess computing needs of the faculty and researchers. The survey was designed to collect information regarding the hardware, software, processing, storage and systems management needs. An early check indicated a very good response. Results of the survey will be used to provide resources through procurement or collaborative agreements within the institution or with other institutions in the state. The MUSC OCIO invited the Clemson CIO and his staff to visit MUSC to meet with faculty and researchers to discuss computing needs and possible collaboration with Clemson for high performance computing. The Clemson CIO will visit the MUSC campus on February 12. Faculty and Staff are being encouraged to attend and participate. Results of the Computing Needs Survey will be presented at that time.
5. Network Identification (NetID) This project is underway to provide a single identification to access network functions across all of MUSC. It will be used to

- created and remove network accounts in a timely manner. NetID is also the foundation for the new Single-Sign-On system. The new NetID will be required for the new Microsoft Exchange e-mail system. MUSC faculty and staff can combine their MNA and Lynx account by going to netid.musc.edu and updating their password.
6. Microsoft Exchange E-Mail hardware and software design is complete and new servers and storage devices are being installed. The conversion from GroupWise to Exchange will be completed by April 1, 2007. The conversion from IMAP to Exchange will be in the Fall of 2007.
 7. Practice Partner (GCRC and Student Health) The out-patient electronic record Practice Partner has been installed for the GCRC as the electronic medical record for patients in GCRC clinical trials. Installation for Student Health is scheduled to begin in late April and early May.
 8. WebCT Upgrades are planned for the WebCT software used by the university and four servers and two databases have been installed in preparation. WebCT will continue to be the Learning Management System for the university until the new Blackboard/WebCT products are introduced.
 9. Statewide IRB (HSSC) Institutional Review Board (IRB) software has been selected and purchased through Health Sciences South Carolina for use at all HSSC sites, with the exception of Clemson University: MUSC, USC, Palmetto Health, Greenville Hospital Systems, and Spartanburg Regional Health Systems. The IRB software, Click Commerce, has been installed on a server and will be managed by the University of South Carolina IT office. A project manager has been hired to coordinate and manage the system's installation and ongoing operations. Plans call for Click Commerce to be operational by August, 2007.
 10. Statewide Clinical Trials Management System A Clinical Trials Management System (CTMS) has been identified and will be proposed to the Scientific Steering Committee of Health Sciences South Carolina. This system will be used in tandem with the statewide IRB system to manage all clinical trials across the state. The MUSC OCIO has agreed to the CTMS project manager to be located here at MUSC. As soon as the selection process is completed, the project manager will be hired and begin implementation. Currently, MUSC has an institutional Clinical Trials Management System available to Clinical Trials researchers, Velos eResearch. This system has been in use for approximately one year and is performing satisfactorily.
 11. South Carolina College of Pharmacy Computerized student systems, network connectivity for data and videoconferencing, classrooms and network access for students and faculty at both MUSC and USC were completed in August of 2006. A follow-up of these systems conducted in January 2007, indicated very satisfactory results with applications, admissions, student/faculty authentication

into both university IT systems and distance learning applications. With over 100 hours of videoconferencing classes, the system was 95% reliable.

12. Database Access for Researchers A Practice Partner Shadow Database was brought on-line in the late fall of 2006. This database is a read only copy of the Practice Partner 'production' database in use in the hospital and clinics. Researchers will no longer scan the production Practice Partner database for their research. This new policy will eliminate problems such scans can create in the performance of the system in the clinics. The shadow copy of the database is updated on a regular schedule and is available with IRB approved access. Users of the new shadow copy have expressed satisfaction with the reduced time required to receive data. Database administrators responsible for the Practice Partner Shadow Database are Adrian Nida, GCRC, and John Imholz, OCIO.
13. MUSC Research Portal A prototype of the new Research Portal has been developed and submitted to a group of research faculty for comment and suggestions. All revisions and suggestions from the group have been incorporated into the new portal and the final copy is under development. The portal will provide single sign on access to a variety of research support offices, CORE facilities, the MUSC Library, databases, and other support services. The portal is being developed in the Center for Academic and Research Computing and a date for completion has not been released.
14. MUSC Academic Portal Study for a proposed Academic Portal for faculty and students is underway. To date faculty, students and staff from groups from Academic Affairs have been surveyed. Upon completion of the Research Portal, work will begin on a prototype for the Academic Portal. Faculty and Student members of a review and advisory group will be solicited from across the university.
15. Network Enhancement Installation of 280 new network switches will be completed in June 2007. Installation of the new switches will improve the performance of the network and also provide the ability to evaluate advanced security capabilities.
16. Web Conferencing The OCIO now has the Cisco Meeting Place web conferencing system installed and available for use for colleges and the hospital. Meeting place is a web based system which allows multiple participants to log into a conference and participate with documents, interactive drawings and, soon to be installed, video. The system identifies participants as they speak at the different locations. It is currently being tested in the College of Health Professions.
17. Advanced Point of Care (APOC) clinical systems implementation The OCIO is in the process of implementing systems from McKesson and PICIS.

PICIS projects:

- Go-live of OR Management (i.e., scheduling, preference cards, etc.) is planned for 1st quarter 2007.
- Roll-out of Perioperative Clinical Documentation modules (i.e., intraoperative anesthesia and post anesthesia care unit) to begin in 2nd quarter of 2007 and completed in the last half of 2007.

McKesson projects:

- New Materials Management system was activated in August 2006.
- New Inpatient Pharmacy System was activated in September 2006.
- Roll-out of Inpatient Clinical/Nursing Documentation (“ClinDoc”) system to begin in 2nd quarter of 2007.
- Automated/Barcode Medication Administration roll-out to begin in 2nd quarter of 2007.
- Replacement of Oacis (“Clinician Portal”) to be phased in beginning in summer of 2007.
- Computerized Physician Order Entry roll-out was ‘moved up’ (earlier) in the project schedule; now targeted to begin roll-out in July 2007 (with hopes of go-live in units that will move to the new hospital prior to opening).

18. Transplant System (Velos): Phase I go-live (i.e., liver/kidney) was completed in April 2006. Phase II (heart) is planned for 1st quarter of 2007. Phase III (bone marrow) schedule TBD.
19. Practice Partner: The first phase rollout of this outpatient/clinic electronic medical record system (which processes clinical documentation/notes, prescriptions, etc.) is complete as of July 31, 2006. The next phase is expected to include Institute of Psychiatry, Employee Health, Student Health and Carolina Family Care. The Physician Information Council will prioritize the sequencing of the Phase II roll-out.
19. Voice Recognition System in Radiology (pilot): A pilot group of Radiology faculty has successfully tested voice recognition technology (Dragon-based). Depending on funding, this technology will be implemented across all Radiology areas over the next 4 – 8 months whereby reducing or eliminating the need for transcribing radiology reports.
20. Storage Area Network (SAN): Over twenty (20) Terabytes of data (40 TB with redundancy) has been converted to the new IBM Storage Area Network. This includes approximately 1 year of Radiology/PACS images, which has made an improvement in retrieving PACS images as previously only 5 months of images were available via the fast ‘magnetic storage’ media prior to migration (with the remaining 10+ years of images on slower tape media). The goal is to have as much as 2 years of PACS images available on magnetic media on the new SAN as the migration continues over the next 6 months or so.

21. iTunes: A mechanism is under development to provide access security for iTunes material. Course and faculty information has been extracted from Colleague and developed into a data base that can be used to limit access to published material.
22. Hospital Bed Management System: Admissions will be replacing the manual bed board with an automated bed management system. This system will manage the bed placement for both the current and new Courtney facility.
23. Bar Coded Armbands: Patient arm bands will be printed at time of admission with bar coded patient identifiers. The bar coded armbands will be used by the new Medication Administration system as well as Glucometers to 'positively' identify the patient.
24. Hospital – Admission 'Blue' Card replacement: The patient plastic card and addressograph imprinters are being replaced with software that can produce bar coded labels via printers. These labels will be used to label documents, specimens, etc.
25. On-line W2s – University: Provided electronic W2s for University personnel.
26. Inpatient Registration: An improved Hospital registration has been installed using better data collection screens. The system was installed in Radiology as a pilot with implementation in other areas expected within the next two months.
27. Student Parking: A proposed new system has been developed that allows MUSC students to annually select (& compete for) a limited number of parking spaces for all three terms. The system also allows students to pay with debit or credit cards.
28. Facilities - project management: A new system is being installed that will assist the University in managing resources, timeframes and finances related to construction & renovation.
29. Facilities – preventative maintenance: A new system is being installed that uses handheld bar code devices to document preventative maintenance for the University's major equipment..
30. Parking gate management system: An upgrade of the current parking gate system is being installed over the next six (6) months to support the expansion of MUSC parking facilities/lots. Transition to using MUSC ID Badges vs. separate parking cards will be included in the new system. In addition, proximity card readers will be installed.